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August 2, 2022

City of Detroit, Demolition Department Mr. Al Dyer 1301 Third Street, Suite 606 Detroit, Michigan 48226

RE: Limited Phase II Environmental Site Assessment Report

Lenox Center Property – QQ-0070

100 Lenox Street

Detroit, Michigan 48226

Atlas Project No.: 188BS22164

Dear Mr. Dyer:

On behalf of the City of Detroit, Demolition Department (the "client"), Atlas Technical Consultants LLC (Atlas) conducted a limited Phase II Environmental Site Assessment (Phase II ESA) for the above-referenced property (the "site") to ensure care is taken during demolition of the Lenox Center building and any related subgrade construction activities. This report has been prepared for the exclusive use of the client and it is a report upon which you may rely. The scope of work was based on the following potential environmental concerns identified in Atlas's Phase I Environmental Site Assessment (Phase I ESA) with a report dated September 20, 2021:

- Significant filling occurred in the southern portion of the site along the Detroit River between 1937 and 1981 (and possible deposition of fill material in other areas of the site).
- For the western adjoining off-site property, a Baseline Environmental Assessment (BEA) was submitted to the State of Michigan in 2006 under the names Lenox Waterfront Estates (Lenox and Avondale Streets) and Morgan Development LLC (South side of Lenox Street between Avondale and the Detroit River) which are associated with the uncompleted residential development. Based on the above BEA, a previous 2004 environmental study indicated concentrations of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs) and/or various metals in soil and/or groundwater above the residential cleanup criteria contained in State of Michigan, Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended (P.A. 451), Part 201 and this property was defined as an environmental "facility".

Accordingly, Atlas was retained by the client to conduct a limited Phase II ESA in an attempt to determine if the site was adversely affected by the aforementioned potential environmental concerns.



PRE-FIELDWORK ACTIVITIES

Prior to conducting field activities, Atlas prepared a site-specific health and safety plan (HASP) in order to address potential safety issues associated with the proposed scope of work. The HASP evaluated potential hazards associated with the field activities and personnel protective measures were selected based on the perceived potential hazards. In addition, before conducting the field activities, Atlas contacted the State of Michigan utility locator service (MISS DIG) a minimum of 72 hours prior to conducting the sampling activities at the site. Additionally, Atlas personnel oversaw limited use of Ground Penetrating Radar equipment to clear proposed boring locations of unidentified potential buried objects (e.g., utility lines, etc.) which was performed by Terra Probe.

SUBSURFACE INVESTIGATION

Geoprobe® Soil Borings with Soil and Groundwater Sample Collection and Laboratory Analysis On April 12, 2022, Atlas oversaw the advancement of eight (8) hand auger/Geoprobe® soil borings identified as GP-1 through GP-8 by Terra Probe to depths ranging from approximately 12 feet below surface grade (bsg) to a maximum depth of 18.5 feet bsg at GP-1. The borings were advanced using a 4-inch diameter, stainless steel hand auger to approximately 5 feet bsg with continued boring advancement to the terminus of the borings using a track-mounted Geoprobe®

unit. Please refer to Appendix A for a map depicting the locations of borings GP-1 through GP-8.

During boring advancement, soil samples were continuously collected from GP-1 through GP-8 in duplicate (i.e., one sample for potential laboratory analysis and one sample for field screening purposes) with the first set of samples placed in pre-cleaned glass containers with Teflon lined lids and the samples collected for VOCs analysis were methanol preserved, and the second set of samples placed in sealed zip-lock bags for field screening purposes. While awaiting potential laboratory analysis, the containerized samples were placed on "wet" ice in a cooler immediately after collection. Disposable nitrile gloves were worn by Atlas' field staff and changed between samples to reduce the likelihood of cross-contamination. Following sample collection, the borings were abandoned by placing the native soils mixed with bentonite chips back into the boreholes from which it came.

Soil samples were field screened using a photo-ionization detector (PID), visual and olfactory field screening techniques. The PID measures total organic volatiles (TOVs) in parts per million (ppm) and the PID was calibrated in the field prior to use. During the advancement of GP-1 through GP-8, groundwater in sufficient quantities for laboratory analytical purposes was encountered at all the boring locations except for GP-1. The borings were converted into temporary groundwater monitoring wells which were constructed of 1-inch diameter polyvinyl chloride (PVC) casing and 0.010-inch slotted screen of 5 feet in length and grab samples were collected using a peristaltic pump and new tubing. Atlas notes, "low flow" groundwater sampling techniques as defined by



of the State of Michigan, Department of Environment, Great Lakes and Energy (EGLE) were not utilized to collect the groundwater samples since EGLE generally requires low flow sampling for regulatory purposes such as delineation, site closure verification, etc. This project was an attempt to determine if the site was impacted for due diligence purposes only. For details, please refer to the boring logs in Appendix B.

Based on the field screening results, one (1) soil sample from each GP-1 (2'-4'), GP-2 (1'-3'), GP-3 (1'-3'), GP-4 (7'-8'), GP-5 (1'-2'), GP-6 (1'-2'), GP-7 (1'-2'), and GP-8 (2'-4') were submitted for laboratory analysis for the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver and zinc (the 10 Michigan Metals). The groundwater samples from GP-2, GP-3, GP-4, GP-5, GP-6, GP-7, and GP-8 were submitted for laboratory analysis for the presence of VOCs, SVOCs, PCBs, and the 10 Michigan Metals. The soil samples collected for VOC analysis were methanol preserved in the field and the groundwater samples collected for VOC analysis were placed in laboratory containers preserved with hydrochloric acid (HCl). Also, quality assurance/quality control (QA/QC) samples to include 1 duplicate soil and 1 duplicate groundwater sample were laboratory analyzed for VOCs, SVOCs, 10 Michigan Metal and PCBs; and, a trip blank water sample was laboratory analyzed for VOCs. The soil and groundwater samples were submitted for laboratory analysis to Quantum Laboratories, Inc. located in Wixom, Michigan (Quantum) under chain-of-custody documentation. Quantum analyzed the samples utilizing United States Environmental Protection Agency (USEPA) Solid Waste 846 (SW846) Laboratory Methods 8260/5035 (VOCs), 8270 (SVOCs), 8082 (PCBs); and, 7010, 7470 and 7471 (metals). For details, please refer to the laboratory analytical summary tables in Appendix C and to the laboratory reports in Appendix D.

LITHOLOGY, FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS

<u>Lithology</u>

During the advancement of GP-1 through GP-8, the surface cover consisted of grass/topsoil. Below the surface cover, the soils generally consisted of intermixed horizons of brown to dark gray, damp to saturated, clay with varying amounts of sand and silt; and, horizons of fine to coarse grain sand with varying amounts of silt that continued to the bottom of the borings (maximum boring depth was 18.5 feet bsg at GP-1). The soil horizons contained debris (e.g., brick) at GP-1, GP-4, GP-5, GP-6, GP-7 and GP-8 at depths ranging from near grade up to 12' bsg which indicates fill materials were placed in several areas of the site. With the exception of GP-1, all the borings contained groundwater at depths ranging from approximately 4 feet bsg to 12 feet bsg and in sufficient quantities for laboratory analytical purposes. Since the main objective of this limited Phase II ESA is to facilitate future demolition-related activities, performance of hydrogeological investigative activities was deemed unnecessary. For details, please refer to the boring logs in Appendix B.



Field Screening Results

The soil sample field screening results from GP-1 through GP-8 did not indicate the presence of elevated TOVs (no TOVs were detected above 2 ppm). However, debris (e.g., brick, etc.) was generally observed in the soils at depths up to approximately 12' bsg.

Soil Sample Laboratory Analytical Results

Based on the soil sample laboratory analytical results from GP-1 through GP-8, the presence of arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc was detected at concentrations ranging from 112 micrograms per kilogram (μ g/kg) of mercury at GP-4 (7'-8') to 18,000,000 μ g/kg of copper at GP-1 (2'-4').

Additionally, the soil sample laboratory analytical results from GP-1 and GP-3 through GP-8 all indicated the presence of one of more of the following SVOCs: acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, carbazole, chrysene, di-n-butylphthalate, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and/or pyrene. The SVOCs were detected at concentrations ranging from of 332 μ g/kg of benzo(a)pyrene at GP-5 (1'-2') to 8,720 μ g/kg of Fluoranthene at GP-3 (1'-3')(duplicate). In addition, the presence of aroclor 1260 (a PCB) was detected in soil at GP-6 (1'-2') at 119 μ g/kg. The remaining soil samples did not indicate the presence of other metals, VOCs, SVOCs, or PCBs above the laboratory detection limits.

Since metals can be naturally occurring in soil, the metals results were compared to the State of Michigan Default Background Levels (DBLs) contained in Table 2. Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, dated June 25, 2018 (Table 2) as issued under State of Michigan, Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended (P.A. 451), Part 201. Based on the above comparison, the following metals in soil results were above their DBLs: barium, cadmium, chromium, copper, lead, mercury, and zinc. The DBLs for barium, cadmium, chromium, copper, lead, mercury, and zinc are 75,000 μ g/kg, 1,200 μ g/kg, 18,000 μ g/kg, 32,000 μ g/kg, 21,000 μ g/kg, 130 μ g/kg, and 47,000 μ g/kg respectively. None of the remaining detected metals were above the DBLs contained in Table 2 of P.A. 451, Part 201.

Based on the subsurface conditions on-site (e.g., sandy soils with potential groundwater aquifer conditions), Atlas also compared the detected metals, SVOCs and PCBs in the soil to the Residential Drinking Water Protection Criteria (DWPC), Direct Contact Criteria (DCC) and/or to the Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) contained in Table 2 of P.A. 451, Part 201. Due to the above comparisons, the soil sample results from GP-3 (1'-3'), GP-3 (1'-3') (duplicate), and GP-8 (2'-4') indicated the presence of lead at 848,000 micrograms per kilogram (μ g/kg), 1,730,000 μ g/kg and 3,900,000 μ g/kg which all exceed the Residential DWPC of 700,000 μ g/kg and the Residential DCC of 400,000 μ g/kg in Table 2 of P.A. 451, Part 201. In addition, the



soil sample results from GP-8 (2'-4') also indicated the presence of barium, cadmium, copper, mercury and zinc at concentrations of 3,720,000 μ g/kg, 168,000 μ g/kg, 7,660,000 μ g/kg, 3,730 μ g/kg and 3,190,000 μ g/kg, respectively, which all exceeded the Residential DWPC in Table 2 of P.A. 451, Part 201. The Residential DWPC for barium, cadmium, copper, mercury and zinc are 1,300,000 μ g/kg, 6,000 μ g/kg, 580,000 μ g/kg, 1,700 μ g/kg and 2,400,000 μ g/kg, respectively. Lastly, the soil sample from GP-3 (1'-3') indicated the presence of benzo(a)pyrene at 3,250 μ g/kg which is above the Residential DCC of 2,000 μ g/kg in Table 2 of P.A. 451, Part 201. Atlas notes the duplicate soil sample from GP-3 (1'-3') indicated a greater concentration of benzo(a)pyrene at 3,850 μ g/kg. The remaining detected metals, SVOCs and PCBS in soil did not exceed the residential DWPC, DCC or the SVIAIC in Table 2 of P.A. 451, Part 201. It is noted the soil sample results from GP-3 (1'-3') and the duplicate soil sample GP-3 (1'-3') results appear to be similar (i.e., both soil samples indicated the presence of metals and PNAs at similar concentrations). For details, please refer to Appendix C for summary tables of detected laboratory parameters in soil and to Appendix D for a copy of the laboratory analytical report.

Groundwater Sample Laboratory Analytical Results

Based on the grab groundwater sample laboratory analytical results from GP-2 through GP-8, the presence of arsenic, barium, cadmium and/or zinc was detected in groundwater at concentrations ranging from 5 micrograms per liter (μ g/L) of arsenic at GP-6 to 1,190 μ g/L of barium at GP-7. In addition, the groundwater sample from GP-4 indicated the presence of VOCs to include benzene at 167 μ g/L, ethylbenzene at 1 μ g/L and naphthalene at 8 μ g/L; and, the groundwater sample from GP-4 also indicated the presence of SVOCs to include fluoranthene at 2 μ g/L and phenanthrene 5 μ g/L. The remaining groundwater samples did not indicate the presence of other metals, VOCs or SVOCs above the laboratory detection limits.

Based on the subsurface conditions on-site (e.g., sandy soils with potential groundwater aquifer conditions), Atlas compared the detected metals, VOCs and SVOCs in groundwater to the Residential Drinking Water Cleanup Criteria (DWC) and/or to the Groundwater Volatilization to Indoor Air Inhalation Cleanup Criteria (GVIAIC) contained in Table 1. Groundwater: Residential and Non-Residential, Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, dated December 21, 2020 (Table 1) of P.A. 451, Part 201. Based on the above comparison, the benzene detected at GP-4 at a concentrations of 167 μ g/L was above the Residential DWC of 5 μ g/L in Table 1 of P.A. 451, Part 201. Due to the above comparison, none of the remaining detected metals, VOCs, or SVOCs in groundwater were above the Residential DWC or the GVIAIC in Table 1 of P.A. 451, Part 201. It is noted the groundwater sample results from GP-3 and the duplicate groundwater sample GP-3 results appear to be similar (i.e., both groundwater samples indicated the presence of metals at similar concentrations). For details, please refer to Appendix C for summary tables of detected laboratory parameters in groundwater and to Appendix D for a copy of the laboratory analytical report.



CONCLUSIONS AND RECOMMENDATIONS

During the advancement of GP-1 through GP-8, the soils generally consisted of intermixed horizons of brown to dark gray, damp to saturated, clay with varying amounts of sand and silt; and, horizons of fine to coarse grain sand with varying amounts of silt that continued to the bottom of the borings. Based on the presence of sandy soils with groundwater, a potential groundwater aquifer as defined by EGLE may be present.

The soil sample field screening results from GP-1 through GP-8 did not indicate the presence of elevated TOVs above 2 ppm. However, debris (e.g., brick, etc.) was generally observed in the soils at depths up to approximately 12' bsg.

Based on the soil sample laboratory analytical results from GP-1 through GP-8, the presence of metals (e.g., arsenic, etc.) was detected at concentrations ranging from 112 μ g/kg of mercury at GP-4 (7'-8') to 18,000,000 μ g/kg of copper at GP-1 (2'-4').

Additionally, the soil sample laboratory analytical results from GP-1 and GP-3 through GP-8 all indicated the presence of SVOCs (e.g., acenaphthene, etc.). The SVOCs were detected at concentrations ranging from of 332 μ g/kg of benzo(a)pyrene at GP-5 (1'-2') to 8,720 μ g/kg of Fluoranthene at GP-3 (1'-3')(duplicate). Also, the presence of aroclor 1260 (a PCB) was detected in soil at GP-6 (1'-2') at 119 μ g/kg.

Atlas compared the detected metals, SVOCs and PCBs in the soil to the Residential DWPC, DCC and/or to the SVIAIC contained in Table 2 of P.A. 451, Part 201. The soil sample results from GP-3 (1'-3'), GP-3 (1'-3') (duplicate), and GP-8 (2'-4') indicated the presence of lead at 848,000 μ g/kg, 1,730,000 μ g/kg and 3,900,000 μ g/kg which all exceed the Residential DWPC of 700,000 μ g/kg and the Residential DCC of 400,000 μ g/kg in Table 2 of P.A. 451, Part 201. In addition, the soil sample results from GP-8 (2'-4') also indicated the presence of barium, cadmium, copper, mercury and zinc at concentrations of 3,720,000 μ g/kg, 168,000 μ g/kg, 7,660,000 μ g/kg, 3,730 μ g/kg and 3,190,000 μ g/kg, respectively, which all exceeded the Residential DWPC in Table 2 of P.A. 451, Part 201. The Residential DWPC for barium, cadmium, copper, mercury and zinc are 1,300,000 μ g/kg, 6,000 μ g/kg, 580,000 μ g/kg, 1,700 μ g/kg and 2,400,000 μ g/kg, respectively. Lastly, the soil sample from GP-3 (1'-3') indicated the presence of benzo(a)pyrene at 3,250 μ g/kg, which is above the Residential DCC of 2,000 μ g/kg in Table 2 of P.A. 451, Part 201.

Based on the groundwater sample laboratory analytical results from GP-2 through GP-8, the presence of metals (e.g., arsenic, etc.) were detected in groundwater at concentrations ranging from 5 μ g/L of arsenic at GP-6 to 1,190 μ g/L of barium at GP-7. In addition, the groundwater sample from GP-4 indicated the presence of VOCs to include benzene at 167 μ g/L, ethylbenzene at 1 μ g/L and naphthalene at 8 μ g/L; and, the groundwater sample from GP-4 also indicated the presence of SVOCs to include fluoranthene at 2 μ g/L and phenanthrene 5 μ g/L.



Atlas compared the detected metals, VOCs and SVOCs in groundwater to the Residential DWC and/or to the GVIAIC contained in Table 1 of P.A. 451, Part 201. Based on the above comparison, the benzene detected at GP-4 at a concentrations of 167 μ g/L was above the Residential DWC of 5 μ g/L in Table 1 of P.A. 451, Part 201.

According to the soil and groundwater sample analytical results, the detected presence of the following laboratory parameters in soil and groundwater above the referenced residential cleanup criteria appear to define the site as an environmental "facility" as defined by P.A. 451, Part 201:

- lead and benzo(a)pyrene in soil above the DCC at GP-3 (1'-3');
- lead in soil above the DCC at GP-8 (2'-4');
- lead above the DWPC at GP-3 (1'-3');
- barium, cadmium, copper, lead, mercury and zinc in soil above the Residential DWPC at GP-8 (2'-4'); and,
- benzene in groundwater above the Residential DWC at GP-4.

Atlas notes the detected laboratory parameters in soil and groundwater have not been horizontally or vertically delineated; and, because the placement of fill materials with debris seems to be the source of the contamination, delineation of the contaminated soil and groundwater on-site may be difficult if the fill came from multiple sources and was placed in varying locations on-site.

Due to the environmental "facility" status of the site, it may be warranted to delineate the detected PNAs and metals detected at GP-3 and GP-8 above the DCC followed by preparation of a Due Care Evaluation (DCE) (aka Due Care Plan) in an attempt to prevent unacceptable human exposure of site workers and/or visitors to the detected laboratory parameters on-site in the future.

LIMITATIONS AND QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions, or recommendations made by others based on the field exploration data presented in this report. It is noted that all environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations were developed from information obtained from limited research and site evaluation.



The results and conclusions presented herein are based solely on the aforementioned field screening techniques and field observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties.

The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and locations given. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

With respect to Atlas' interpretation of government (federal, state or local) generated documents (e.g., EGLE), Atlas notes opinions of other parties may differ from our opinion and Atlas recommends consultation with appropriate counsel for legal guidance.

If there are any questions pertaining to this report, please do not hesitate to contact Joshua Schuyler at (248-982-5378 / joshua.schuyler@oneatlas.com) or the undersigned.

Respectfully Submitted,

Atlas Technical Consultants LLC

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APPENDICES

Appendix A Maps

Appendix B Boring Logs

Appendix C Laboratory Analytical Summary Tables

Appendix D Laboratory Reports









Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-1

Page: Start Date: 03/12/22 End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1" Length:

EET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	C	Well onstruction
	HA			12"	, , , , ,	TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots			
1 —	HA			12"			0.0		
2	HA			12"		CLAY, gray to discolored, sandy, with brick, moist.			
3—	HA	2-4'	GP-1	12"	/		0.1		
4 ——	НА			12"	///// /////				
6	GP			12"	///// /////	Clay, brown and gray, sandy, with brick, moist.	0.0		
7—	GP			12"		SAND, black, course to medium grained, moist.	0.0		
8	GP			12"		o, i.i.b., black, eccles to insulain grained, mole.	0.0		
9 —	GP			12"		SAND, dark gray, silty, with brick, moist.	0.1		
	GP			12"					
11	GP			12"		Sand, gray, silty, moist.	0.0		
12	GP			12"	/////				
13 ——	GP GP			12" 12"	///// /////		0.0	4	Native soils
14 ——	GP			12"	/	CLAY, gray, sandy, moist. Limited Recovery.			
	GP			12"			0.0		
16 ——	GP			12"	/				
17 ——	GP			12"	///// /////	CLAY, gray sandy, stiff. Limited Recovery.	0.0		
18 ——	GP			6"	/////	End of Boring	0.0		1
19 ——						Ğ			
21 ——									
22 —									
23 —									
24 ——									

(SS) = SPLIT SPOON bpf = blows per foot

(qP) = Penetrometer Unconfined Compressive Strength

Logged by: Andrew Temerowski

Drawn by: Andrew Temerowski Checked by: Kevin LaForge

Immediately after:

Hrs. after:

Backfill: Native Backfill and Bentonite

Drilling Co.: Terra Probe

Drill Rig Type: Geoprobe

(bgs) = Below Ground Surface

(NR) = NO RECOVERY (NA) = NOT APPLICABLE

Driller: Scott Seals

Assistant:



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-2

Page: Start Date: 04/12/22 End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1" Length:

EET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction	
	HA			12"		TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots				
1 ——	HA			12"			0.0			
2 ——	HA	1-3'	GP-2	12"		SAND, dark brown,course to medium grained, with brick, moist.				
3	HA			12"			0.0			
4 ——	НА			12"		SAND, brown, course to medium grained, moist.				
	GP			12"			0.0			
6	GP			12"		SAND, bark brown, course to medium grained with gravel, wet. Temporary Monitoring well set at 2-7' BSG, sample collected.				
7	GP			12"	//// ////	CLAY, gray, sandy.	0.0	•	⁻ Native soils	
9 —	GP			12"	///// /////		0.0			
	GP			12"	/	CLAY, brown to dark brown, sandy, moist. Limited recovery.				
1 ——	GP			12"	/	Temporary Monitoring well set at 5-10' BSG, sample collected.	0.0			
2	GP			12"	//// /////	End of Boring				
13 ——						End of Borning				
4										
6										
7 ——										
8 —										
9 ——										
:1 ——										
2										
.3 —										
4										
	HAND AUGER AIR KNIFE	(DS) = DISTUR (GP) = Geoprol		LE	Borehole Observations After Drilling (Rec.) = RECO Immediately after: (bgs) = Below			OVERY (EOB) = END OF BORING Ground Surface		
(SS) = SPLIT SPOON bpf = blows per foot (qP) = Penetrometer Unconfined Compressive Strength						Hrs. after: (NR) = NO RE Backfill: Native Backfill and Bentonite (NA) = NOT Al	RECOVERY - APPLICABLE			

Logged by: Andrew Temerowski Drawn by: Andrew Temerowski

Checked by: Kevin LaForge

Backfill: Native Backfill and Bentonite Drilling Co.: Terra Probe

Drill Rig Type: Geoprobe

(NA) = NOT APPLICABLE

Driller: Scott Seals Assistant:

GP-2



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Drilling Method: Hand Auger / Macrocore Fax: (248) 669-5147

Boring Number: GP-3

Page: 1 Start Date: 04/12/22 End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1' Length: 5"

FEET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction
0									
	НА			12"	////	TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots			
1	HA	1-3'	GP-3	12"	///// /////		0.0		_
3	HA	1-3	GF-3	12"	///// /////	CLAY, brown and gray, sandy with gravel, moist.	0.0		_
	HA			12"	/////				
5	HA			12"	///// /////		0.0		_
6	GP			12"	///// /////	CLAY, gray, sandy, stiff to clay gray sandy, moist, soft.			
7	GP			12"	///// /////		0.0		_
8	GP			12"	///// / M //	CLAY, dark gray, sandy with gravel, moist.	0.0		_
9	GP			12"		SAND, dark gray, course to medium grained, silty, moist	0.0		_
10	GP			12"		o			_
11	GP			12"			0.0		
12	GP			12"			0.0		_
13	GP			12"			0.0		
14	GP			12"		SAND, gray,course to medium grained, silty, moist. Temporary Monitoring well set at 7-12' BSG, sample collected.	0.0		
15	GP			12"			0.0	4	Native soils
16	GP			12"			0.0		
17-	GP			12"			0.0		

End of Boring

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE	Borehole Observations After Drilling	(Rec.) = RECOVERY	(EOB) = END OF BORING
(AK) = AIR KNIFE (GP) = Geoprobe	Immediately after:	(bgs) = Below Ground Surface	
(SS) = SPLIT SPOON bpf = blows per foot	Hrs. after:	(NR) = NO RECOVERY	
(qP) = Penetrometer Unconfined Compressive Strength	Backfill: Native Backfill and Bentonite	(NA) = NOT APPLICABLE	
Logged by: Andrew Temerowski	Drilling Co.: Terra Probe	Driller: Scott Seals	
Drawn by: Andrew Temerowski	Drill Rig Type: Geoprobe	Assistant:	
Checked by: Kevin LaForge		_	



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

04/12/22

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-4

Page: Start Date: 04/12/22 End Date:

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1' Length:

FEET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction	
	110			40"		TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roo	ots			
1	HA			12"	[]]]]		0.1			
	HA			12"	///// /////					
2—	НА			12"	/////	CLAY, brown and gray, sandy, moist.				
3 —	11/4				[[]]		0.1			
4	HA			12"	////					
4	HA			12"	▼					
	CD			12"	1	SAND, black with gravel, wet.	1.5			
6 —	GP			12	,,,,					
_	GP			12"	/	0.04				
7 ——	GP	7-8'	GP-4	12"	()()()	CLAY, gray, sandy with brick, moist.	2.5			
8 ——					/////					
9 —	GP			12"			0.0			
	GP			12"		STONE AND BRICK, wet. Temporary Monitoring well set a				
	GP			12"		9.5' BSG, sample collected.				
1 ——							0.0			
2 ——	GP			12"						
						End of Boring				
3 ——										
4 ——										
6 ——										
7 ——										
8 ——										
9 —										
1 ——										
2 ——										
3—										
24—										
25										
	<u> </u>									
	HAND AUGER AIR KNIFE	(DS) = DISTUR (GP) = Geoprob		.E			RECOVERY Selow Ground Surfa			
		bpf = blows per					O RECOVERY			

Backfill: Native Backfill and Bentonite

Drilling Co.: Terra Probe

Drill Rig Type: Geoprobe

(qP) = Penetrometer Unconfined Compressive Strength Logged by: Andrew Temerowski

Drawn by: Andrew Temerowski

Checked by: Kevin LaForge

(NA) = NOT APPLICABLE

Assistant:

Driller: Scott Seals



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-5

Page: Start Date: 04/12/22 End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1' Length:

EET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction
	1110			40"		TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots			
1—	HA			12"		SAND, dark brown,course to medium grained, moist.	0.1		
2—	HA	1-2'	GP-5	12"	///// /////	CLAY, brown and gray, sandy, moist.			
3—	HA HA			12" 12"		SAND, black, course to medium grained, moist.	0.1		
4	HA			12"	V				
	GP			12"	///// /////		1.5		
6—						CLAY, light gray to dark, sandy, with brick, moist.			
7—	GP			12"	///// /////		2.5		
8—	GP			12"					
9—	GP			12"			0.0		
	GP			12"		CLAY, gray, sandy soft. Temporary Monitoring well set at 4-9' BSG, sample collected.			
1—	GP			12"		Boo, sumple condited.	0.0	-	· Native soils
2	GP			12"	/////	End of Boring			
0						End of Boring			
3 ——									
4 ——									
6									
7 —									
8									
9 ——									
,									
1-									
2—									
3									
4									
(HA) = I	HAND ALIGER	(DS) = DISTUR	BED SAMPI	F	<u> </u>	Borehole Observations After Drilling (Rec.) = RECO	VFRY	(FOR) =	END OF BORING
	AIR KNIFE	(GP) = Geoprob			_	Immediately after: (bgs) = Below G			FIAD OF DOLVING
		bpf = blows per				Hrs. after: (NR) = NO REC			

Drilling Co.: Terra Probe

Drill Rig Type: Geoprobe

GP-5

Logged by: Andrew Temerowski

Checked by: Kevin LaForge

Drawn by: Andrew Temerowski

Driller: Scott Seals

Assistant:



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Drilling Method: Hand Auger / Macrocore (248) 669-5147

Boring Number: GP-6

Page:

Start Date: 04/12/22 End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010" Screen Diameter: 1' Length:

FEET (bgs)	SAMPLE TYPE			LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction		
0				400		TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots			
1	HA HA	1-2'	GP-6	12" 12"	//// /////		0.1		_
3—	НА			12"	(CLAY, brown and gray, sandy with stone, moist. Limited Recovery.	0.1		_
4	HA			12"	////				_
5	НА			12"		SAND, dark brown,course to medium grained, moist to CLAY,	2.7		_
6	GP			12"		gray, sandy, moist.			_
7 —	GP			12"		SAND, gray, silty,with brick, moist.	0.3		_
8	GP			12"	,,,,				_
9 ——	GP			12"			0.2		_
10	GP			12"		CLAY, gray, sandy, silty, soft. Temporary Monitoring well set at 7-12' BSG, sample collected.			_
11 ——	GP			12"		7-12 BSG, sample collected.	0.2	-	· Native soils
12	GP			12"	/ / /				_
13 ——	GP			12"			0.0		_
14	GP			12"		SAND, gray to dark gray, silty, wet.			_
15	GP			12"			0.0		_
16	GP			12"		End of Boring			_
17 ——						End of Borning			_
18									_
19 ——									_
20 ——									_
21 ——									_
22 ——									_
23 ——									_
24									_
25									_
(114) -		(DC) - DISTUD		_	_	Parabala Observations After Prilling (Pas) - PECO	(==) ((====)	END OF BODING

(qP) = Penetrometer Unconfined Compressive Strength Logged by: Andrew Temerowski Drawn by: Andrew Temerowski

Checked by: Kevin LaForge

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE

(AK) = AIR KNIFE (GP) = Geoprobe

(SS) = SPLIT SPOON bpf = blows per foot

Borehole Observations After Drilling

Immediately after: Hrs. after:

Backfill: Native Backfill and Bentonite

Drilling Co.: Terra Probe

(Rec.) = RECOVERY (EOB) = END OF BORING

(bgs) = Below Ground Surface (NR) = NO RECOVERY

(NA) = NOT APPLICABLE **Driller: Scott Seals**

Drill Rig Type: Geoprobe Assistant:



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Page:

04/12/22

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-7

Start Date: 04/12/22 End Date:

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1' Length:

FEET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	С	Well onstruction
	HA			12"		TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots			
1	НА	1-2'	GP-7	12"	////// //////		0.2		
3—	НА			12"	////// //////	CLAY, brown and gray, sandy with brick, moist.	0.2		
4	НА			12"	///// /////		0.2		
	HA			12"	▼	SAND, brown with gravel, moist.	0.2		
6	GP			12"					
7 —	GP			12"		SAND, brown to gray, wet.	0.0		
8 —	GP			12"					
9 —	GP GP			12" 12"			0.0	←	 Native soils
						SAND, gray silty, wet. Temporary Monitoring well set at 5-10' BSG, sample collected.			
11 ——	GP GP			12" 12"		200, 00	0.0		
12 ——	0.			12		End of Boring			
13 ——									
14 ——									
16									
17 ——									
18 ——									
19 ——									
21 ——									
22 —									
23									
24									
(HA) =	HAND AUGER	(DS) = DISTUR	RBED SAMPL	.E		Borehole Observations After Drilling (Rec.) = REC	OVERY	(EOB) =	END OF BORING
	AIR KNIFE SPLIT SPOON	(GP) = Geoprob					Ground Surfa	ice	

(SS) = SPLIT SPOON bpf = blows per foot

(qP) = Penetrometer Unconfined Compressive Strength

Logged by: Andrew Temerowski Drawn by: Andrew Temerowski

Checked by: Kevin LaForge

Backfill: Native Backfill and Bentonite

Drilling Co.: Terra Probe

(NR) = NO RECOVERY (NA) = NOT APPLICABLE

Driller: Scott Seals

Drill Rig Type: Geoprobe Assistant:



Novi, MI 48377

Phone: (248) 669-5140

Soil Boring Log

Project Number: 188BS22164

Project Name: Lenox Center Property

Site Location: 100 Lenox Street

City, State: Detroit, Michigan Boring Diameter: 4" HA/2.25" Macrocore

Fax: (248) 669-5147 Drilling Method: Hand Auger / Macrocore Boring Number: GP-8

Start Date: 04/12/22

Page:

End Date: 04/12/22

Casing: PVC - Temporary

Casing Diameter: 1" Length:

Screen Slot Size: 0.010"

Screen Diameter: 1' Length:

FEET (bgs)	SAMPLE TYPE	SAMPLE INTERVAL (bgs)	SAMPLE NUMBER	Rec.	Graphic	LITHOLOGY DESCRIPTION	PID PPM	C	Well onstruction	_
0	HA			12"	, , , ,	TOP SOIL/SAND mix, brown-dark brown in color, damp, organics/roots				
1 —	HA			12"	///// //////		0.1			-
2	HA	2.41	GP-8	12"	(CLAY, brown and gray, sandy with brick, moist.	0.1			
3	НА	2-4'	GP-8	12"	///// /////		0.1			
5	НА			12"	////// // \		0.0			
6	GP			12"	/////	CLAY, dark brown to brown, sandy, with brick and metal clip,				
7	GP			12"	///// /////	moist. Limited Reovery.	0.0			
8	GP			12"	///// /////					
9	GP			12"			0.0	•	− Native soils	
0 ——	GP			12"		SAND, dark gray to gray silty, wet. Temporary Monitoring well				
11	GP			12"		set at 5-10' BSG, sample collected.	0.0			
	GP			12"						
12—						End of Boring				
14										
5										
16										
17 ——										
18 ——										
19 ——										
21 —										
22										
23 —										
24										
5										_

(AK) = AIR KNIFE (GP) = Geoprobe

(SS) = SPLIT SPOON bpf = blows per foot

(qP) = Penetrometer Unconfined Compressive Strength

Logged by: Andrew Temerowski Drawn by: Andrew Temerowski

Checked by: Kevin LaForge

Immediately after: Hrs. after:

Drill Rig Type: Geoprobe

Backfill: Native Backfill and Bentonite Drilling Co.: Terra Probe

(bgs) = Below Ground Surface (NR) = NO RECOVERY

(NA) = NOT APPLICABLE

Driller: Scott Seals

Assistant:

APPENDIX C

Table 1 - Summary of Soil Laboratory Analytical Results (Detected Metals) Lenox Center Property 100 Lenox Street Detroit, Michigan

	_		1									
	Statewide	Residential	Residential				S	ample Locations				
	Default	Drinking Water	Direct Contact	GP-1	GP-2	GP-3	Duplicate (GP-3)	GP-4	GP-5	GP-6	GP-7	GP-8
	Background Levels	Protection Criteria	Criteria (DCC)	(2'-4')	(1'-3')	(1'-3')	(1'-3")	(7'-8')	(1'-2')	(1'-2')	(1'-2')	(2'-4')
Analytes	(µg/kg)	(DWPC) (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Metals												
Arsenic	5,800	4,600	7,600	6,240	2,420	2,790	2,800	2,630	992	2,700	1,460	4,760
Barium	75,000	1,300,000	37,000,000	344,000	246,000	506,000	704,000	448,000	178,000	229,000	296,000	3,720,000
Cadmium	1,200	6,000	550,000	1,050	261	1,330	1,370	1,800	ND	745	536	168,000
Chromium	18,000	100,000,000	790,000,000	8,040	16,300	20,000	36,000	27,200	6,710	13,200	12,900	168,000
Copper	32,000	580,000	20,000,000	18,000,000	126,000	110,000	209,000	36,800	19,200	45,200	32,800	7,660,000
Lead	21,000	700,000	400,000	228,000	181,000	848,000	1,730,000	199,000	21,700	145,000	208,000	3,900,000
Mercury	130	1,700	160,000	1,320	136	423	960	112	ND	168	401	3,730
Selenium	410	4,000	2,600,000	ND	ND	214	ND	ND	ND	ND	ND	ND
Silver	1,000	4,500	2,500,000	464	124	164	238	ND	ND	ND	ND	826
Zinc	47,000	2,400,000	170,000,000	418,000	86,800	591,000	792,000	265,000	31,800	120,000	133,000	3,190,000

Notes: 1. Samples were collected on April 12, 2022.

- 2. NA denotes: "Not Analyzed". ND denotes the indicated laboratory parameter was "Not Detected" above the laboratory reported detection limit (RDL).
- 3. The cleanup criteria are derived from Table 2, Soil Residential Generic Cleanup Criteria and Screening Levels, issued under part 201 of P.A. 451 dated June 25, 2018 (Table 2).
- 4. Shaded values exceed one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Table 2.
- 5. All samples were analyzed at Quantum Laboratories, Inc. located in Wixom, Michigan.
- 6. NLV denotes: "Not Likely to Volatilize", ID denotes: "Insufficient Data" that is available to establish criteria.
- 7. μ g/kg denotes micrograms per kilogram.
- 8. A "G" denotes value depends on the pH or water hardness, or both, of the receiving waters and an "X" denotes value is not protective for surface water used as a drinking water source. For details, please refer to P.A. 451, Part 201, R 299.49 footnotes for Table 2.

Table 2 - Summary of Soil Laboratory Analytical Results (Detected SVOCs) **Lenox Center Property** 100 Lenox Street Detroit, Michigan

	Residential	Residential	Residential				Sample L	ocation			
	Drinking Water	Soil Volatilization to	Direct Contact	GP-1	GP-3	Duplicate (GP-3)	GP-4	GP-5	GP-6	GP-7	GP-8
	Protection Criteria	Indoor Air Inhalation Criteria	Criteria	(2'-4')	(1'-3')	(1'-3')	(7'-8')	(1'-2')	(1'-2')	(1'-2')	(2'-4')
Analyte	(DWPC) (μg/kg)	(SVIAIC) (μg/kg)	(DCC) (µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(μg/kg)
SVOCs											
Acenaphthene	300,000	190,000,000	41,000,000	ND	405	445	ND	ND	ND	ND	ND
Anthracene	41,000	1,000,000,000	230,000,000	ND	1,440	1,760	474	ND	ND	ND	ND
Benzo(a)anthracene	NLL	NLV	20,000	669	3,350	3,680	1,130	ND	357	ND	378
Benzo(b)fluoranthene	NLL	NLV	20,000	492	2,070	1,760	615	ND	ND	ND	ND
Benzo(k)fluoranthene	NLL	NLV	200,000	914	4,430	5,560	1,500	453	528	425	705
Benzo(g,h,i)perylene	NLL	NLV	2,000,000	516	2,290	2,860	855	ND	ND	ND	381
Benzo(a)pyrene	NLL	NLV	2,000	770	3,250	3,830	1,100	332	359	ND	414
Carbazole	9,400	NLV	530,000	ND	526	657	ND	ND	ND	ND	ND
Chrysene	NLL	ID	2,000,000	660	3,290	3,770	1,220	ND	359	ND	416
Di-n-butylphthalate	960,000	NLV	27,000,000	ND	ND	405	ND	ND	ND	ND	ND
Dibenzofuran	ID	2,000,000	ID	ND	ND	401	ND	ND	ND	ND	ND
Fluoranthene	730,000	1,000,000,000	46,000,000	1,420	7,880	8,720	2,810	544	779	526	668
Fluorene	390,000	580,000,000	27,000,000	ND	504	646	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NLL	NLV	20,000	462	2,110	2,470	707	ND	ND	ND	ND
Phenanthrene	56,000	2,800,000	1,600,000	851	5,790	6,830	2,280	ND	461	ND	378
Pyrene	480,000	1,000,000,000	29,000,000	1,370	6,730	7,740	2,460	454	669	467	641

- 1. Samples were collected on April 12, 2022.
- 2. NA denotes "Not Analyzed". "ND" denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
- 3. The cleanup criteria are derived from Table 2, Soil Residential Generic Cleanup Criteria and Screening Levels, issued under part 201 of P.A. 451dated June 25, 2018 (Table 2).
- 4. Shaded values exceed one or more cleanup criteria contained in Table 2 of P.A. 451, Part 201.
- 5. All samples were analyzed at Quantum Laboratories, Inc. located in Wixom, Michigan.
- 6. NLV = not likely to volatilize, NLL = not likely to leach, ID = Insufficient data available to establish criteria.
- μg/kg denotes micrograms per kilogram.
 A "ID" denotes insufficient data to develop criterion. For details, please refer to P.A. 451, Part 201, R 299.49 footnotes for Table 2.

Table 3 - Summary of Soil Laboratory Analytical Results (Detected PCBs) Lenox Center Property 100 Lenox Street Detroit, Michigan

	Residential	Residential	Residential	Sample Location
	Drinking Water	Soil Volatilization to	Direct Contact	GP-6
	Protection Criteria	Indoor Air Inhalation Criteria	Criteria	(1'-2')
Analyte	(DWPC) (μg/kg)	(SVIAIC) (μg/kg)	(DCC) (μg/kg)	(µg/kg)
PCBs				
Aroclor 1260	NLL	3,000,000	4,000	119

Notes:

- 1. Samples were collected on April 12, 2022.
- 2. NA denotes "Not Analyzed". "ND" denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
- 3. The cleanup criteria are derived from Table 2, Soil Residential Generic Cleanup Criteria and Screening Levels, issued under part 201 of P.A. 451-dated June 25, 2018 (Table 2).
- 4. Shaded values exceed one or more cleanup criteria contained in Table 2 of P.A. 451, Part 201.
- 5. All samples were analyzed at Quantum Laboratories, Inc. located in Wixom, Michigan.
- 6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria.
- 7. $\mu g/kg$ denotes micrograms per kilogram.

Table 4 - Summary of Groundwater Analytical Results (Detected Metals and VOCs)

Lenox Center Property 100 Lenox Street Detroit, Michigan

	Residential	Residential Groundwater	Sample Locations								
	Drinking Water Criteria	Volatilization to Indoor Air Inhalation	GP-2	GP-3	Duplicate (GP-3)	GP-4	GP-5	GP-6	GP-7	GP-8	
Analytes	(DWC) (μg/L)	Criteria (GVIAIC) (μg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
Metals											
Arsenic	10	NLV	ND	ND	ND	ND	9	5	ND	ND	
Barium	2,000	NLV	853	773	738	136	743	835	1,190	752	
Cadmium	5	NLV	ND	ND	ND	ND	3	ND	ND	ND	
Zinc	2,400	NLV	76	60	124	ND	87	ND	73	ND	
VOCs											
Benzene	5	5,600	ND	ND	ND	167	ND	ND	ND	ND	
Ethylbenzene	74	110,000	ND	ND	ND	1	ND	ND	ND	ND	
Napthalene	520	31,000	ND	ND	ND	8	ND	ND	ND	ND	

Notes: 1. Samples were collected on April 12, 2022.

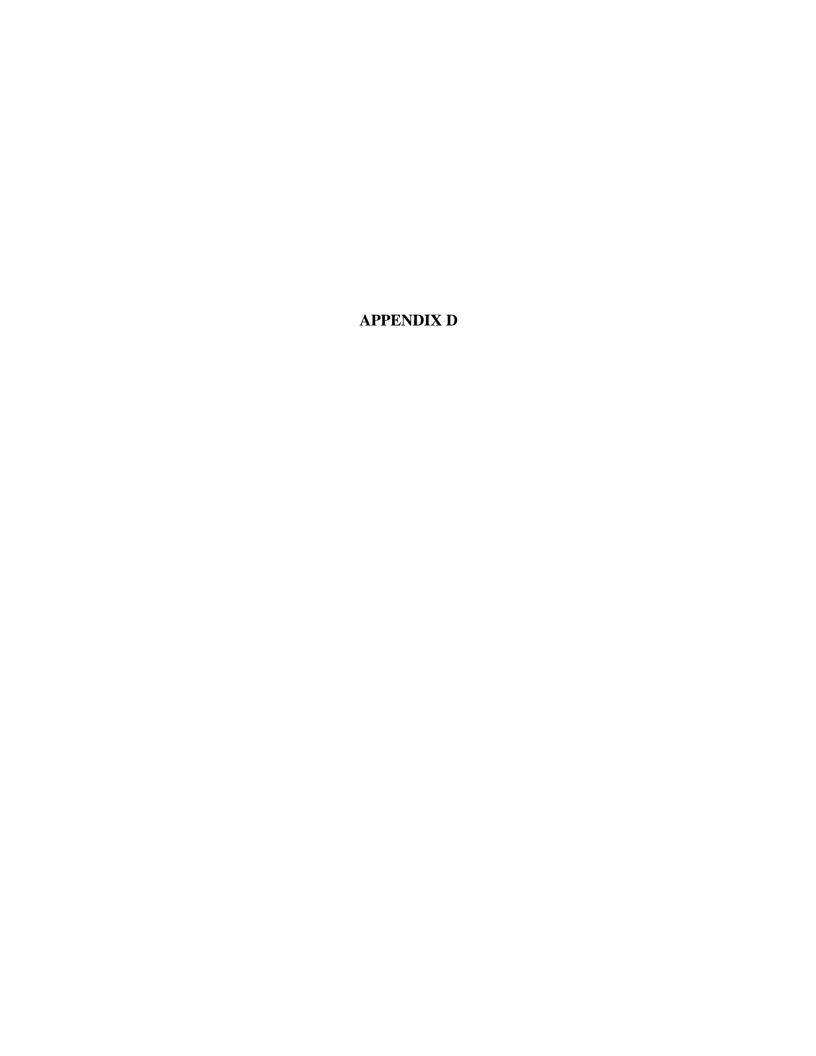
- 2. ND denotes not detected above the laboratory detection limit.
- 3. The cleanup criteria are derived from Table 1 Groundwater: Residential & Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels, dated December 21, 2020.
- 4. Shaded value (if any) is above one or more Residential cleanup criteria.
- 5. All samples were analyzed at Quantum Laboratories, Inc. of Wixom, Michigan.
 6. NLV = not likely to volatilize; NLL = not likely to leach, ID= insufficient data exist to establish a value, NA = Not Applicable.
- μg/L denotes micrograms per liter.
 Only laboratory parameters detected above laboratory detection limits are summarized.

Table 5 - Summary of Groundwater Laboratory Analytical Results (Detected SVOCs) Lenox Center Property 100 Lenox Street Detroit, Michigan

	Residential	Residential	Sample Locations		
	Drinking Water	Groundwater Volatilization To			
	Criteria	Indoor Air Inhalation	GP-4		
Analyte	(DWC) (µg/L)	Criteria (GVIAIC) (μg/L)	(μg/L)		
SVOCs					
Fluoranthene	210	210	2		
Phenanthrene	52	1,000	5		

Notes:

- 1. Samples were collected on April 12, 2022.
- 2. NA denotes: "Not Analyzed". ND denotes the indicated laboratory parameter was "Not Detected" above the laboratory reported detection limit (RDL).
- 3. The cleanup criteria are derived from Table 1, Groundwater Residential Generic Cleanup Criteria and Screening Levels, issued under part 201 of P.A. 451, dated June 25, 2018 (Table 1).
- 4. Shaded values exceed one or more applicable cleanup criteria contained in Table 1.
- 5. All samples were analyzed at Quantum Laboratories, Inc. located in Wixom, Michigan.
- 6. NLV denotes: "Not Likely to Volatilize", ID denotes: "Insufficient Data" that is available to establish criteria.
- 7. ug/L denotes micrograms per liter.





QUANTUM LABORATORIES, INC. 28221 Beck Road • Suite A-11 Wixom, Michigan 48393 248-348-TEST or 248-348-8378

ANALYTICAL REPORT

For: Atlas Technical Consultants (ATLAS)

46555 Humboldt Dr. Ste. 100

Novi MI 48377

Attn: Mr. Kevin LaForge

Report Number: 12226

Report Date: April 22, 2022

Project Name: Lenox Center Property

Project Number: 188BS22164 Page: 1 of 93

248-669-5140 Fax: 248-669-5147

Sample Description

Eighteen (18) samples reported to be Soil (9) and Water (9) and identified as "Lenox Center Property", Detroit, MI, 4/12/22, Grab and:

1. GP-1, 2'-4', 9:57 (Soil)

2. GP-2, 1'-3', 10:29 (Soil)

3. GP-2, 10:50 (Water)

4. GP-3, 1'-3', 11:08 (Soil)

5. GP-3, 11:26 (Water)

6. GP-4, 7'-8', 11:47 (Soil)

7. GP-4, 11:55 (Water)

8. GP-5, 1'-2', 12:38 (Soil)

9. GP-5, 12:45 (Water)

10. GP-6, 1'-2', 13:05 (Soil)

11. GP-6, 13:17 (Water)

12. GP-7, 1'-2', 13:40 (Soil)

13. GP-7, 13:55 (Water)

14. GP-8, 2'-4', 14:20 (Soil)

15. GP-8, 14:30 (Water)

16. Duplicate (Soil)

17. Duplicate (Water)

18. Trip Blank (Water)

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

- 1. Volatile Organic Compounds (VOC), Methods 8260B and 5035 (Soil) (All Samples)
- 2. Semi-Volatile Organic Compounds (SVOC), Method 8270C (Samples 1-17)
- 3. Polychlorinated Biphenyls (PCB), Method 8082A (Samples 1-17)
- 4. 10 Michigan Metals (Samples 1-17)

a) Arsenic, Method 7010

b) Barium, Method 7010

c) Cadmium, Method 7010

d) Chromium, Method 7010

e) Copper, Method 7010

f) Lead, Method 7010

g) Mercury, Method 7470A (Water) or Method 7471B (Soil)

h) Selenium, Method 7010

i) Silver, Method 7010

j) Zinc, Method 7010



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Analytical Results

Sample Description:	n: GP-1, 2'-4', 9:57, 4/12/22					
Laboratory ID:	12226-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued			- -			

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-1, 2'-4', 9:57, 4/12/22						
Laboratory ID:	12226-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOCs continued							
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	94.3%	-	% Recovery	04/14/22	BD		
Toluene-d8	102%	-	% Recovery	04/14/22	BD		
4-Bromofluorobenzene	102%	-	% Recovery	04/14/22	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Internal Standard results outside of acceptance limits



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Sample Description:	GP-1, 2'-4', 9	9:57, 4/12/22				
Laboratory ID:	12226-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Aniline	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/20/22	BD	
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/20/22	BD	
Benzo(a)anthracene	669	330	μg/Kg, dry wt.	04/20/22	BD	
Benzo(b)fluoranthene	492	330	μg/Kg, dry wt.	04/20/22	BD	
Benzo(k)fluoranthene	914	330	μg/Kg, dry wt.	04/20/22	BD	
Benzo(g,h,i)perylene	516	330	μg/Kg, dry wt.	04/20/22	BD	
Benzo(a)pyrene	770	330	μg/Kg, dry wt.	04/20/22	BD	
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/20/22	BD	
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/20/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/20/22	BD	
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Chrysene	660	330	μg/Kg, dry wt.	04/20/22	BD	
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/20/22	BD	
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD	
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-1, 2'-4', 9:57, 4/12/22						
Laboratory ID:	12226-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
SVOCs continued							
Fluoranthene	1,420	330	μg/Kg, dry wt.	04/20/22	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/20/22	BD		
Indeno(1,2,3-cd)pyrene	462	330	μg/Kg, dry wt.	04/20/22	BD		
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/20/22	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD		
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD		
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD		
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/20/22	BD		
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/20/22	BD		
Phenanthrene	851	330	μg/Kg, dry wt.	04/20/22	BD		
Phenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Pyrene	1,370	330	μg/Kg, dry wt.	04/20/22	BD		
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/20/22	BD		
Surrogate Standards							
2-Fluorophenol	43.6%	-	% Recovery	04/20/22	BD		
Phenol-d5	45.0%	-	% Recovery	04/20/22	BD		
Nitrobenzene-d5	38.8%	-	% Recovery	04/20/22	BD		
2-Fluorobiphenyl	51.3%	-	% Recovery	04/20/22	BD		
2,4,6-Tribromophenol	43.2%	-	% Recovery	04/20/22	BD		
Terphenyl-d14	40.8%	-	% Recovery	04/20/22	BD		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-1, 2'-4', 9:57, 4/12/22						
Laboratory ID:	12226-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS		
Surrogate Standards							
Tetrachloro-m-xylene	85.0%	-	% Recovery	04/18/22	DS		
Decachlorobiphenyl	100%	-	% Recovery	04/18/22	DS		
Michigan Metals							
Arsenic	6,240	100	μg/Kg, dry wt.	04/19/22	DS		
Barium	344,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Cadmium	1,050	200	μg/Kg, dry wt.	04/19/22	DS		
Chromium	8,040	2,000	μg/Kg, dry wt.	04/19/22	DS		
Copper	18,000,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Lead	228,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Mercury	1,320	50	μg/Kg, dry wt.	04/14/22	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS		
Silver	464	100	μg/Kg, dry wt.	04/19/22	DS		
Zinc	418,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Analysis Information							
Dry Weight Solids	75.7%	-	% by weight	04/13/22	DS		
SVOC Extraction	Completed	-	-	04/20/22	LB		
PCB Extraction	Completed	-	-	04/18/22	LB		
Mercury Digestion	Completed	-	-	04/13/22	DS		
Metals Digestion	Completed	-		04/18/22	LB		

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-2, 1'-3', 1	0:29, 4/12/22	2			
Laboratory ID:	12226-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-2, 1'-3', 10:29, 4/12/22					
Laboratory ID:	12226-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	99.5%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	106%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	GP-2, 1'-3', 10:29, 4/12/22						
Laboratory ID:	12226-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(k)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
continued							

M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-2, 1'-3', 1	0:29, 4/12/22	2			
Laboratory ID:	12226-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	42.9%	-	% Recovery	04/14/22	BD	
Phenol-d5	44.7%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	37.2%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	51.0%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	44.3%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	40.7%	-	% Recovery	04/14/22	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-2, 1'-3', 10:29, 4/12/22						
Laboratory ID:	12226-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS		
Surrogate Standards							
Tetrachloro-m-xylene	99.6%	-	% Recovery	04/18/22	DS		
Decachlorobiphenyl	117%	-	% Recovery	04/18/22	DS		
Michigan Metals							
Arsenic	2,420	100	μg/Kg, dry wt.	04/19/22	DS		
Barium	246,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Cadmium	261	200	μg/Kg, dry wt.	04/19/22	DS		
Chromium	16,300	2,000	μg/Kg, dry wt.	04/19/22	DS		
Copper	126,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Lead	181,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Mercury	136	50	μg/Kg, dry wt.	04/14/22	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS		
Silver	124	100	μg/Kg, dry wt.	04/19/22	DS		
Zinc	86,800	1,000	μg/Kg, dry wt.	04/19/22	DS		
Analysis Information							
Dry Weight Solids	83.3%	-	% by weight	04/13/22	DS		
SVOC Extraction	Completed	-	-	04/14/22	LB		
PCB Extraction	Completed	-	-	04/18/22	LB		
Mercury Digestion	Completed	-	-	04/13/22	DS		
Metals Digestion	Completed	-	-	04/18/22	LB		

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-2, 10:50, 4/12/22						
Laboratory ID:	12226-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	50	μg/L	04/14/22	BD		
Benzene	Not Detected	1	μg/L	04/14/22	BD		
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD		
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD		
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD		
Bromoform	Not Detected	1	μg/L	04/14/22	BD		
Bromomethane	Not Detected	5	μg/L	04/14/22	BD		
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD		
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD		
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD		
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Chloroethane	Not Detected	5	μg/L	04/14/22	BD		
Chloroform	Not Detected	1	μg/L	04/14/22	BD		
Chloromethane	Not Detected	5	μg/L	04/14/22	BD		
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD		
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD		
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD		
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD		
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD		
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD		
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-2, 10:50,	4/12/22				
Laboratory ID:	12226-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	102%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	104%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description: GP-2, 10:50, 4/12/22 Units of Reporting Date of Data 12226-3 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers Semi-Volatile Organic Cmpds Acenaphthene Not Detected 5 04/14/22 BD μg/L 5 Acenaphthylene Not Detected 04/14/22 BD μg/L 04/14/22 Aniline Not Detected 4 BD μg/L Anthracene Not Detected 5 μg/L 04/14/22 BD 2 Azobenzene Not Detected 04/14/22 BD μg/L 2 Benzidine 04/14/22 BD Not Detected μg/L 1 04/14/22 BD Benzo(a)anthracene Not Detected μg/L Benzo(b)fluoranthene Not Detected 1 04/14/22 BD μg/L 04/14/22 BD Benzo(k)fluoranthene Not Detected 1 μg/L 1 04/14/22 BD Benzo(g,h,i)perylene Not Detected μg/L μ g/L Benzo(a)pyrene Not Detected 1 04/14/22 BD 50 04/14/22 BD Benzyl alcohol Not Detected μg/L 1 BD Bis(2-chloroethyl)ether Not Detected 04/14/22 μg/L 5 04/14/22 BD Bis(2-chloroisopropyl)ether Not Detected μg/L Bis(2-chloroethoxy)methane Not Detected 5 04/14/22 BD μg/L Not Detected 5 BD 04/14/22 Bis(2-ethylhexyl)phthalate μg/L 5 04/14/22 BD 4-Bromophenyl phenyl ether Not Detected μg/L Butyl benzyl phthalate Not Detected 5 04/14/22 BD μg/L Carbazole 10 04/14/22 BD Not Detected μg/L 4-Chloroaniline Not Detected 10 04/14/22 BD μg/L 5 4-Chloro-3-methylphenol Not Detected 04/14/22 BD μg/L 2-Chloronaphthalene (beta) Not Detected 5 04/14/22 BD μg/L 2-Chlorophenol Not Detected 10 04/14/22 BD μg/L 5 4-Chlorophenyl phenyl ether Not Detected 04/14/22 BD μg/L 1 BD Chrysene Not Detected 04/14/22 μg/L Di-n-butylphthalate Not Detected 5 μg/L 04/14/22 BD Di-n-octyl phthalate Not Detected 5 04/14/22 BD μg/L 2 Not Detected 04/14/22 BD Dibenzo(a,h)anthracene μg/L Dibenzofuran Not Detected 4 04/14/22 BD μg/L 3,3'-Dichlorobenzidine Not Detected 2 04/14/22 BD μg/L 2,4-Dichlorophenol 10 04/14/22 BD Not Detected μg/L 5 04/14/22 BD Diethylphthalate Not Detected μg/L Dimethyl phthalate Not Detected 5 μ g/L 04/14/22 BD 5 04/14/22 BD 2,4-Dimethylphenol Not Detected μg/L 25 04/14/22 BD 2,4-Dinitrophenol Not Detected μg/L 2,4-Dinitrotoluene Not Detected 5 04/14/22 BD μg/L 2,6-Dinitrotoluene Not Detected 5 μg/L 04/14/22 BD continued

Internal Standard results outside of acceptance limits

RPD outside of acceptance limits

D

Reporting limit is elevated Result is from a dilution
Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-2, 10:50, 4/12/22						
Laboratory ID:	12226-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
SVOCs continued							
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD		
Fluorene	Not Detected	5	μg/L	04/14/22	BD		
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD		
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD		
Isophorone	Not Detected	5	μg/L	04/14/22	BD		
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD		
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD		
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD		
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD		
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD		
Naphthalene	Not Detected	5	μg/L	04/14/22	BD		
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD		
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD		
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD		
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD		
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD		
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD		
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD		
Phenol	Not Detected	5	μg/L	04/14/22	BD		
Pyrene	Not Detected	5	μg/L	04/14/22	BD		
Pyridine	Not Detected	20	μg/L	04/14/22	BD		
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD		
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD		
Surrogate Standards							
2-Fluorophenol	22.2%	-	% Recovery	04/14/22	BD		
Phenol-d5	22.0%	-	% Recovery	04/14/22	BD		
Nitrobenzene-d5	42.3%	-	% Recovery	04/14/22	BD		
2-Fluorobiphenyl	49.3%	-	% Recovery	04/14/22	BD		
2,4,6-Tribromophenol	37.8%	-	% Recovery	04/14/22	BD		
Terphenyl-d14	43.2%	-	% Recovery	04/14/22	BD		
Continued							

D J

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated



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Sample Description:	GP-2, 10:50,	4/12/22				
Laboratory ID:	12226-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	111%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	111%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	04/19/22	DS	
Barium	853	100	μg/L	04/20/22	DS	
Cadmium	Not Detected	1	μg/L	04/19/22	DS	
Chromium	Not Detected	5	μg/L	04/19/22	DS	
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C
Lead	Not Detected	3	μg/L	04/19/22	DS	
Mercury	Not Detected	0.2	μg/L	04/14/22	DS	
Selenium	Not Detected	5	μg/L	04/19/22	DS	
Silver	Not Detected	0.2	μg/L	04/19/22	DS	
Zinc	76	50	μg/L	04/19/22	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/14/22	LB	
Metals Digestion	Completed	-		04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



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12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-3, 1'-3', 1	1:08, 4/12/22	2			
Laboratory ID:	12226-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-3, 1'-3', 1	1:08, 4/12/22	2			
Laboratory ID:	12226-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards			•			
1,2-Dichloroethane-d4	99.7%	-	% Recovery	04/14/22	BD	
Toluene-d8	105%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	105%	-	% Recovery	04/14/22	BD	
continued			-			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

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Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-3, 1'-3', 1	1:08, 4/12/22	2			
Laboratory ID:	12226-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	405	330	μg/Kg, dry wt.	04/14/22	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Anthracene	1,440	330	μg/Kg, dry wt.	04/14/22	BD	
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)anthracene	3,350	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(b)fluoranthene	2,070	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(k)fluoranthene	4,430	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(g,h,i)perylene	2,290	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)pyrene	3,250	330	μg/Kg, dry wt.	04/14/22	BD	
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Carbazole	526	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Chrysene	3,290	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
continued						

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-3, 1'-3', 1	1:08, 4/12/22	2			
Laboratory ID:	12226-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	7,880	330	μg/Kg, dry wt.	04/14/22	BD	
Fluorene	504	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	2,110	330	μg/Kg, dry wt.	04/14/22	BD	
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Phenanthrene	5,790	330	μg/Kg, dry wt.	04/14/22	BD	
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pyrene	6,730	330	μg/Kg, dry wt.	04/14/22	BD	
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	46.3%	-	% Recovery	04/14/22	BD	
Phenol-d5	47.9%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	41.8%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	57.4%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	46.1%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	43.2%	-	% Recovery	04/14/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



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Sample Description:	GP-3, 1'-3', 11:08, 4/12/22							
Laboratory ID:	12226-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
PCBs								
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS			
Surrogate Standards								
Tetrachloro-m-xylene	97.4%	-	% Recovery	04/18/22	DS			
Decachlorobiphenyl	111%	-	% Recovery	04/18/22	DS			
Michigan Metals								
Arsenic	2,790	100	μg/Kg, dry wt.	04/19/22	DS			
Barium	506,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Cadmium	1,330	200	μg/Kg, dry wt.	04/19/22	DS			
Chromium	20,000	2,000	μg/Kg, dry wt.	04/19/22	DS			
Copper	110,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Lead	848,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Mercury	423	50	μg/Kg, dry wt.	04/14/22	DS			
Selenium	214	200	μg/Kg, dry wt.	04/19/22	DS			
Silver	164	100	μg/Kg, dry wt.	04/19/22	DS			
Zinc	591,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Analysis Information								
Dry Weight Solids	86.9%	-	% by weight	04/13/22	DS			
SVOC Extraction	Completed	-	-	04/14/22	LB			
PCB Extraction	Completed	-	-	04/18/22	LB			
Mercury Digestion	Completed	-	-	04/13/22	DS			
Metals Digestion	Completed	-	-	04/18/22	LB			

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-3, 11:26,	4/12/22				
Laboratory ID:	12226-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	Not Detected	1	μg/L	04/14/22	BD	
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	: GP-3, 11:26, 4/12/22						
Laboratory ID:	12226-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOCs continued							
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD		
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD		
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD		
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD		
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD		
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD		
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD		
Naphthalene	Not Detected	5	μg/L	04/14/22	BD		
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD		
Styrene	Not Detected	1	μg/L	04/14/22	BD		
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD		
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD		
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD		
Toluene	Not Detected	1	μg/L	04/14/22	BD		
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD		
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD		
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD		
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD		
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD		
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD		
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	102%	-	% Recovery	04/14/22	BD		
Toluene-d8	103%	-	% Recovery	04/14/22	BD		
4-Bromofluorobenzene	104%	-	% Recovery	04/14/22	BD		
continued							

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-3, 11:26,	4/12/22				
Laboratory ID:	12226-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD	
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD	
Aniline	Not Detected	4	μg/L	04/14/22	BD	
Anthracene	Not Detected	5	μg/L	04/14/22	BD	
Azobenzene	Not Detected	2	μg/L	04/14/22	BD	
Benzidine	Not Detected	2	μg/L	04/14/22	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD	
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Carbazole	Not Detected	10	μg/L	04/14/22	BD	
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Chrysene	Not Detected	1	μg/L	04/14/22	BD	
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD	
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD	
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
continued			-			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- E D J
- Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-3, 11:26,	4/12/22				
Laboratory ID:	12226-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Fluorene	Not Detected	5	μg/L	04/14/22	BD	
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD	
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD	
Isophorone	Not Detected	5	μg/L	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD	
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD	
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD	
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD	
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD	
Phenol	Not Detected	5	μg/L	04/14/22	BD	
Pyrene	Not Detected	5	μg/L	04/14/22	BD	
Pyridine	Not Detected	20	μg/L	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	28.7%	-	% Recovery	04/14/22	BD	
Phenol-d5	26.9%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	36.6%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	46.3%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	45.1%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	38.6%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	GP-3, 11:26,	4/12/22				
Laboratory ID:	12226-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	100%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	128%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	04/19/22	DS	
Barium	773	100	μg/L	04/20/22	DS	
Cadmium	Not Detected	1	μg/L	04/19/22	DS	
Chromium	Not Detected	5	μg/L	04/19/22	DS	
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C
Lead	Not Detected	3	μg/L	04/19/22	DS	
Mercury	Not Detected	0.2	μg/L	04/14/22	DS	
Selenium	Not Detected	5	μg/L	04/19/22	DS	
Silver	Not Detected	0.2	μg/L	04/19/22	DS	
Zinc	60	50	μg/L	04/19/22	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/14/22	LB	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-4, 7'-8', 11:47, 4/12/22						
Laboratory ID:	12226-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-4, 7'-8', 1	1:47, 4/12/22	2			
Laboratory ID:	12226-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	101%	-	% Recovery	04/14/22	BD	
Toluene-d8	104%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	111%	-	% Recovery	04/14/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-4, 7'-8', 1	1:47, 4/12/22	2			
Laboratory ID:	12226-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds				•		
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Anthracene	474	330	μg/Kg, dry wt.	04/14/22	BD	
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)anthracene	1,130	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(b)fluoranthene	615	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(k)fluoranthene	1,500	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(g,h,i)perylene	855	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)pyrene	1,100	330	μg/Kg, dry wt.	04/14/22	BD	
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Chrysene	1,220	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
continued						

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits
- Reporting limit is elevated Result is from a dilution Result should be considered estimated



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-4, 7'-8', 1	1:47, 4/12/22	2			
Laboratory ID:	12226-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	2,810	330	μg/Kg, dry wt.	04/14/22	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	707	330	μg/Kg, dry wt.	04/14/22	BD	
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Phenanthrene	2,280	330	μg/Kg, dry wt.	04/14/22	BD	
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pyrene	2,460	330	μg/Kg, dry wt.	04/14/22	BD	
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	42.8%	-	% Recovery	04/14/22	BD	
Phenol-d5	44.2%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	39.7%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	53.6%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	38.3%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	39.5%	-	% Recovery	04/14/22	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



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Sample Description:	GP-4, 7'-8', 1	1:47, 4/12/22	2			
Laboratory ID:	12226-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	500	μg/Kg, dry wt.	04/18/22	DS	E, M
Aroclor 1221	Not Detected	500	μg/Kg, dry wt.	04/18/22	DS	E, M
Aroclor 1232	Not Detected	500	μg/Kg, dry wt.	04/18/22	DS	E, M
Aroclor 1242	Not Detected	500	μg/Kg, dry wt.	04/18/22	DS	E, M
Aroclor 1248	Not Detected	500	μg/Kg, dry wt.	04/18/22	DS	E, M
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	2,700	μg/Kg, dry wt.	04/18/22	DS	E, M
Surrogate Standards						
Tetrachloro-m-xylene	118%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	130%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	2,630	100	μg/Kg, dry wt.	04/19/22	DS	
Barium	448,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Cadmium	1,800	200	μg/Kg, dry wt.	04/19/22	DS	
Chromium	27,200	2,000	μg/Kg, dry wt.	04/19/22	DS	
Copper	36,800	1,000	μg/Kg, dry wt.	04/19/22	DS	
Lead	199,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Mercury	112	50	μg/Kg, dry wt.	04/14/22	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	04/19/22	DS	
Zinc	265,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Analysis Information						
Dry Weight Solids	85.7%	-	% by weight	04/13/22	DS	
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/13/22	DS	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-4, 11:55,	4/12/22				
Laboratory ID:	12226-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	167	1	μg/L	04/20/22	BD	D
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-4, 11:55,	4/12/22				
Laboratory ID:	12226-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	1	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μ g/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	8	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	79.3%	-	% Recovery	04/14/22	BD	S, M
Toluene-d8	101%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	104%	-	% Recovery	04/14/22	BD	
continued			-			

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-4, 11:55, 4/12/22						
Laboratory ID:	12226-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD		
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD		
Aniline	Not Detected	4	μg/L	04/14/22	BD		
Anthracene	Not Detected	5	μg/L	04/14/22	BD		
Azobenzene	Not Detected	2	μg/L	04/14/22	BD		
Benzidine	Not Detected	2	μg/L	04/14/22	BD		
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	1	μ g/L	04/14/22	BD		
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD		
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
Carbazole	Not Detected	10	μg/L	04/14/22	BD		
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD		
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD		
Chrysene	Not Detected	1	μg/L	04/14/22	BD		
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD		
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD		
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD		
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD		
continued			-				

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-4, 11:55,	4/12/22				
Laboratory ID:	12226-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	2	1	μg/L	04/14/22	BD	
Fluorene	Not Detected	5	μg/L	04/14/22	BD	
Hexachlorobenzene	Not Detected	1	μ g/L	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD	
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μ g/L	04/14/22	BD	
Isophorone	Not Detected	5	μg/L	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD	
2-Methylnaphthalene	Not Detected	5	μ g/L	04/14/22	BD	
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD	
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD	
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	μ g/L	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD	
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD	
Phenanthrene	5	2	μg/L	04/14/22	BD	
Phenol	Not Detected	5	μg/L	04/14/22	BD	
Pyrene	Not Detected	5	μ g/L	04/14/22	BD	
Pyridine	Not Detected	20	μg/L	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	31.5%	-	% Recovery	04/14/22	BD	
Phenol-d5	25.1%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	41.3%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	60.2%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	52.5%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	42.2%	-	% Recovery	04/14/22	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-4, 11:55,	4/12/22				
Laboratory ID:	12226-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	108%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	112%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	Not Detected	5	μg/L	04/19/22	DS	
Barium	136	100	μg/L	04/20/22	DS	
Cadmium	Not Detected	1	μg/L	04/19/22	DS	
Chromium	Not Detected	5	μg/L	04/19/22	DS	
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C
Lead	Not Detected	3	μg/L	04/19/22	DS	
Mercury	Not Detected	0.2	μg/L	04/14/22	DS	
Selenium	Not Detected	5	μg/L	04/19/22	DS	
Silver	Not Detected	0.2	μg/L	04/19/22	DS	
Zinc	Not Detected	50	μg/L	04/19/22	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/14/22	LB	
Metals Digestion	Completed	-		04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-5, 1'-2', 1	2:38, 4/12/22	2			
Laboratory ID:	12226-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued						

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Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-5, 1'-2', 1	2:38, 4/12/22	2			
Laboratory ID:	12226-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards			•			
1,2-Dichloroethane-d4	98.3%	-	% Recovery	04/14/22	BD	
Toluene-d8	105%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	106%	-	% Recovery	04/14/22	BD	
continued						

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	GP-5, 1'-2', 1	2:38, 4/12/22	2			
Laboratory ID:	12226-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(k)fluoranthene	453	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)pyrene	332	330	μg/Kg, dry wt.	04/14/22	BD	
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Chrysene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-5, 1'-2', 1	2:38, 4/12/22	2			
Laboratory ID:	12226-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	544	330	μg/Kg, dry wt.	04/14/22	BD	
Fluorene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Phenanthrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Pyrene	454	330	μg/Kg, dry wt.	04/14/22	BD	
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	43.5%	-	% Recovery	04/14/22	BD	
Phenol-d5	45.0%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	38.9%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	53.0%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	45.7%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	40.5%	-	% Recovery	04/14/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	GP-5, 1'-2', 1	2:38, 4/12/22	2			
Laboratory ID:	12226-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	104%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	104%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	992	100	μg/Kg, dry wt.	04/19/22	DS	
Barium	178,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Cadmium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS	
Chromium	6,710	2,000	μg/Kg, dry wt.	04/19/22	DS	
Copper	19,200	1,000	μg/Kg, dry wt.	04/19/22	DS	
Lead	21,700	1,000	μg/Kg, dry wt.	04/19/22	DS	
Mercury	Not Detected	50	μg/Kg, dry wt.	04/14/22	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	04/19/22	DS	
Zinc	31,800	1,000	μg/Kg, dry wt.	04/19/22	DS	
Analysis Information						
Dry Weight Solids	88.7%	-	% by weight	04/13/22	DS	
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/13/22	DS	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-5, 12:45,	4/12/22				
Laboratory ID:	12226-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	Not Detected	1	μg/L	04/14/22	BD	
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued			F-37 =			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix interference observed

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-5, 12:45,	4/12/22				
Laboratory ID:	12226-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μ g/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μ g /L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μ g /L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μ g /L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μ g /L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	99.1%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	102%	-	% Recovery	04/14/22	BD	
continued			,			

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-5, 12:45,	4/12/22				
Laboratory ID:	12226-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD	
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD	
Aniline	Not Detected	4	μg/L	04/14/22	BD	
Anthracene	Not Detected	5	μg/L	04/14/22	BD	
Azobenzene	Not Detected	2	μg/L	04/14/22	BD	
Benzidine	Not Detected	2	μg/L	04/14/22	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	1	μ g/L	04/14/22	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD	
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Carbazole	Not Detected	10	μg/L	04/14/22	BD	
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Chrysene	Not Detected	1	μg/L	04/14/22	BD	
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD	
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD	
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
continued						

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-5, 12:45,	4/12/22				
Laboratory ID:	12226-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Fluorene	Not Detected	5	μg/L	04/14/22	BD	
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD	
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD	
Isophorone	Not Detected	5	μg/L	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD	
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD	
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD	
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD	
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD	
Phenol	Not Detected	5	μg/L	04/14/22	BD	
Pyrene	Not Detected	5	μg/L	04/14/22	BD	
Pyridine	Not Detected	20	μg/L	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	37.9%	-	% Recovery	04/14/22	BD	
Phenol-d5	33.4%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	42.2%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	59.6%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	51.7%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	42.3%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-5, 12:45,	4/12/22				
Laboratory ID:	12226-9	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS	
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	118%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	126%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	9	5	μg/L	04/19/22	DS	
Barium	743	100	μg/L	04/20/22	DS	
Cadmium	3	1	μg/L	04/19/22	DS	
Chromium	Not Detected	5	μg/L	04/19/22	DS	
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C
Lead	Not Detected	3	μg/L	04/19/22	DS	
Mercury	Not Detected	0.2	μg/L	04/14/22	DS	
Selenium	Not Detected	5	μg/L	04/19/22	DS	
Silver	Not Detected	0.2	μg/L	04/19/22	DS	
Zinc	87	50	μg/L	04/19/22	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/14/22	LB	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-6, 1'-2', 1	3:05, 4/12/22	2			
Laboratory ID:	12226-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued						



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Sample Description:	GP-6, 1'-2', 1	3:05, 4/12/22	2			
Laboratory ID:	12226-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	102%	-	% Recovery	04/14/22	BD	
Toluene-d8	105%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	106%	-	% Recovery	04/14/22	BD	
continued						

Internal Standard results outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-6, 1'-2', 13:05, 4/12/22						
Laboratory ID:	12226-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)anthracene	357	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(k)fluoranthene	528	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)pyrene	359	330	μg/Kg, dry wt.	04/14/22	BD		
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Chrysene	359	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
continued			- -				

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix interference observed



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Sample Description: GP-6, 1'-2', 13:05, 4/12/22 Units of Reporting Date of Data 12226-10 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers **SVOCs** continued Fluoranthene 779 330 04/14/22 BD μg/Kg, dry wt. Fluorene Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Hexachlorobenzene 330 04/14/22 BD Not Detected μg/Kg, dry wt. Hexachlorocyclopentadiene Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Hexachloroethane Not Detected 300 μg/Kg, dry wt. 04/14/22 BD BD Indeno(1,2,3-cd)pyrene Not Detected 330 μg/Kg, dry wt. 04/14/22 Isophorone Not Detected 330 04/14/22 BD μg/Kg, dry wt. 2-Methyl-4,6-Dinitrophenol Not Detected 830 04/14/22 BD μg/Kg, dry wt. 2-Methylnaphthalene Not Detected 330 04/14/22 BD μg/Kg, dry wt. Not Detected 330 04/14/22 BD 2-Methylphenol μg/Kg, dry wt. 4-Methylphenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Methylphenols (total) Not Detected 1,000 04/14/22 BD μg/Kg, dry wt. 330 04/14/22 BD Naphthalene Not Detected μg/Kg, dry wt. 2-Nitroaniline Not Detected 830 04/14/22 BD μg/Kg, dry wt. 3-Nitroaniline Not Detected 830 μg/Kg, dry wt. 04/14/22 BD 830 04/14/22 BD 4-Nitroaniline Not Detected μg/Kg, dry wt. Nitrobenzene Not Detected 330 04/14/22 BD μg/Kg, dry wt. 2-Nitrophenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Not Detected 830 04/14/22 BD 4-Nitrophenol μg/Kg, dry wt. N-Nitrosodi-n-propylamine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD N-Nitrosodiphenylamine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Not Detected 04/14/22 Pentachlorophenol 20 μg/Kg, dry wt. BD Phenanthrene μg/Kg, dry wt. 461 330 04/14/22 BD Phenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD BD Pyrene 669 330 μg/Kg, dry wt. 04/14/22 Pyridine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD 2,4,5-Trichlorophenol Not Detected 330 04/14/22 BD μg/Kg, dry wt. 330 2,4,6-Trichlorophenol Not Detected 04/14/22 BD μg/Kg, dry wt. Surrogate Standards 2-Fluorophenol 44.7% % Recovery 04/14/22 BD Phenol-d5 % Recovery 04/14/22 BD 45.7% Nitrobenzene-d5 04/14/22 BD 41.3% % Recovery 2-Fluorobiphenyl 55.6% % Recovery 04/14/22 BD 2,4,6-Tribromophenol 04/14/22 BD 46.2% % Recovery Terphenyl-d14 04/14/22 BD 42.4% % Recovery continued

QC spike recovery outside of acceptance limits RPD outside of acceptance limits F Matrix Spike four times rule appliedC See Case Narrative

Internal Standard results outside of acceptance limits

E Reporting limit is elevated

D Result is from a dilution
J Result should be considered estimated



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Sample Description:	GP-6, 1'-2', 1	3:05, 4/12/22	2			
Laboratory ID:	12226-10	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1260	119	100	μg/Kg, dry wt.	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	109%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	130%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	2,700	100	μg/Kg, dry wt.	04/19/22	DS	
Barium	229,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Cadmium	745	200	μg/Kg, dry wt.	04/19/22	DS	
Chromium	13,200	2,000	μg/Kg, dry wt.	04/19/22	DS	
Copper	45,200	1,000	μg/Kg, dry wt.	04/19/22	DS	
Lead	145,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Mercury	168	50	μg/Kg, dry wt.	04/14/22	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	04/19/22	DS	
Zinc	120,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Analysis Information						
Dry Weight Solids	83.1%	-	% by weight	04/13/22	DS	
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/13/22	DS	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-6, 13:17,	4/12/22				
Laboratory ID:	12226-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	Not Detected	1	μg/L	04/14/22	BD	
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued			. 3			

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-6, 13:17, 4/12/22						
Laboratory ID:	12226-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOCs continued							
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD		
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD		
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD		
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD		
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD		
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD		
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD		
Naphthalene	Not Detected	5	μg/L	04/14/22	BD		
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD		
Styrene	Not Detected	1	μg/L	04/14/22	BD		
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD		
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD		
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD		
Toluene	Not Detected	1	μg/L	04/14/22	BD		
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD		
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD		
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD		
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD		
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD		
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD		
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	93.6%	-	% Recovery	04/14/22	BD		
Toluene-d8	99.2%	-	% Recovery	04/14/22	BD		
4-Bromofluorobenzene	103%	-	% Recovery	04/14/22	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-6, 13:17, 4/12/22					
Laboratory ID:	12226-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD	
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD	
Aniline	Not Detected	4	μg/L	04/14/22	BD	
Anthracene	Not Detected	5	μg/L	04/14/22	BD	
Azobenzene	Not Detected	2	μg/L	04/14/22	BD	
Benzidine	Not Detected	2	μg/L	04/14/22	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD	
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Carbazole	Not Detected	10	μg/L	04/14/22	BD	
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Chrysene	Not Detected	1	μg/L	04/14/22	BD	
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD	
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD	
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
continued						

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-6, 13:17, 4/12/22						
Laboratory ID:	12226-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
SVOCs continued							
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD		
Fluorene	Not Detected	5	μg/L	04/14/22	BD		
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD		
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD		
Isophorone	Not Detected	5	μg/L	04/14/22	BD		
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD		
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD		
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD		
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD		
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD		
Naphthalene	Not Detected	5	μg/L	04/14/22	BD		
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD		
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD		
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD		
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD		
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD		
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD		
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD		
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD		
Phenol	Not Detected	5	μg/L	04/14/22	BD		
Pyrene	Not Detected	5	μg/L	04/14/22	BD		
Pyridine	Not Detected	20	μg/L	04/14/22	BD		
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD		
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD		
Surrogate Standards							
2-Fluorophenol	36.3%	-	% Recovery	04/14/22	BD		
Phenol-d5	30.0%	-	% Recovery	04/14/22	BD		
Nitrobenzene-d5	43.0%	-	% Recovery	04/14/22	BD		
2-Fluorobiphenyl	58.0%	-	% Recovery	04/14/22	BD		
2,4,6-Tribromophenol	49.2%	-	% Recovery	04/14/22	BD		
Terphenyl-d14	43.0%	-	% Recovery	04/14/22	BD		
continued							

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-6, 13:17,	GP-6, 13:17, 4/12/22						
Laboratory ID:	12226-11	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
PCBs								
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS			
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS			
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS			
Surrogate Standards								
Tetrachloro-m-xylene	112%	-	% Recovery	04/18/22	DS			
Decachlorobiphenyl	115%	-	% Recovery	04/18/22	DS			
Michigan Metals								
Arsenic	5	5	μg/L	04/19/22	DS			
Barium	835	100	μg/L	04/20/22	DS			
Cadmium	Not Detected	1	μg/L	04/19/22	DS			
Chromium	Not Detected	5	μg/L	04/19/22	DS			
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C		
Lead	Not Detected	3	μg/L	04/19/22	DS			
Mercury	Not Detected	0.2	μg/L	04/14/22	DS			
Selenium	Not Detected	5	μg/L	04/19/22	DS			
Silver	Not Detected	0.2	μg/L	04/19/22	DS			
Zinc	Not Detected	50	μg/L	04/19/22	DS			
Analysis Information								
SVOC Extraction	Completed	-	-	04/14/22	LB			
PCB Extraction	Completed	-	-	04/18/22	LB			
Mercury Digestion	Completed	-	-	04/14/22	LB			
Metals Digestion	Completed	-	-	04/18/22	LB			

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

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Sample Description:	GP-7, 1'-2', 1	3:46, 4/12/22	2			
Laboratory ID:	12226-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued			•			

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-7, 1'-2', 13:46, 4/12/22						
Laboratory ID:	12226-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOCs continued							
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD		
Surrogate Standards			•				
1,2-Dichloroethane-d4	98.5%	-	% Recovery	04/14/22	BD		
Toluene-d8	102%	-	% Recovery	04/14/22	BD		
4-Bromofluorobenzene	101%	-	% Recovery	04/14/22	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	GP-7, 1'-2', 13:46, 4/12/22						
Laboratory ID:	12226-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(k)fluoranthene	425	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(g,h,i)perylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Chrysene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
continued							

Matrix interference observed

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



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Sample Description: GP-7, 1'-2', 13:46, 4/12/22 Units of Reporting Date of Data 12226-12 Laboratory ID: Analyst Limit Measure **Analysis** Qualifiers **SVOCs** continued Fluoranthene 526 330 04/14/22 BD μg/Kg, dry wt. Fluorene Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Hexachlorobenzene 330 04/14/22 BD Not Detected μg/Kg, dry wt. Hexachlorocyclopentadiene Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Hexachloroethane Not Detected 300 μg/Kg, dry wt. 04/14/22 BD BD Indeno(1,2,3-cd)pyrene Not Detected 330 μg/Kg, dry wt. 04/14/22 Isophorone Not Detected 330 04/14/22 BD μg/Kg, dry wt. 2-Methyl-4,6-Dinitrophenol Not Detected 830 04/14/22 BD μg/Kg, dry wt. 2-Methylnaphthalene 330 04/14/22 BD Not Detected μg/Kg, dry wt. Not Detected 330 04/14/22 BD 2-Methylphenol μg/Kg, dry wt. 4-Methylphenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Methylphenols (total) Not Detected 1,000 04/14/22 BD μg/Kg, dry wt. 330 04/14/22 BD Naphthalene Not Detected μg/Kg, dry wt. 2-Nitroaniline Not Detected 830 04/14/22 BD μg/Kg, dry wt. 3-Nitroaniline Not Detected 830 μg/Kg, dry wt. 04/14/22 BD 830 BD 4-Nitroaniline Not Detected 04/14/22 μg/Kg, dry wt. Nitrobenzene Not Detected 330 04/14/22 BD μg/Kg, dry wt. 2-Nitrophenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD Not Detected 830 04/14/22 BD 4-Nitrophenol μg/Kg, dry wt. N-Nitrosodi-n-propylamine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD N-Nitrosodiphenylamine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD 04/14/22 Pentachlorophenol Not Detected 20 μg/Kg, dry wt. BD Phenanthrene μg/Kg, dry wt. Not Detected 330 04/14/22 BD Phenol Not Detected 330 μg/Kg, dry wt. 04/14/22 BD BD Pyrene 467 330 μg/Kg, dry wt. 04/14/22 Pyridine Not Detected 330 μg/Kg, dry wt. 04/14/22 BD 2,4,5-Trichlorophenol Not Detected 330 04/14/22 BD μg/Kg, dry wt. 330 2,4,6-Trichlorophenol Not Detected 04/14/22 BD μg/Kg, dry wt. Surrogate Standards 2-Fluorophenol 42.9% % Recovery 04/14/22 BD Phenol-d5 % Recovery 04/14/22 BD 44.3% Nitrobenzene-d5 38.2% 04/14/22 BD % Recovery 2-Fluorobiphenyl 51.9% % Recovery 04/14/22 BD 2,4,6-Tribromophenol 04/14/22 BD 46.6% % Recovery Terphenyl-d14 04/14/22 BD 40.6% % Recovery continued

QC spike recovery outside of acceptance limits

R RPD outside of acceptance limits

Result is from a dilution
Result should be considered estimated

F Matrix Spike four times rule appliedC See Case Narrative

Internal Standard results outside of acceptance limits



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Sample Description:	GP-7, 1'-2', 1	3:46, 4/12/22	2			
Laboratory ID:	12226-12	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS	
Surrogate Standards						
Tetrachloro-m-xylene	106%	-	% Recovery	04/18/22	DS	
Decachlorobiphenyl	125%	-	% Recovery	04/18/22	DS	
Michigan Metals						
Arsenic	1,460	100	μg/Kg, dry wt.	04/19/22	DS	
Barium	296,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Cadmium	536	200	μg/Kg, dry wt.	04/19/22	DS	
Chromium	12,900	2,000	μg/Kg, dry wt.	04/19/22	DS	
Copper	32,800	1,000	μg/Kg, dry wt.	04/19/22	DS	
Lead	208,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Mercury	401	50	μg/Kg, dry wt.	04/14/22	DS	
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS	
Silver	Not Detected	100	μg/Kg, dry wt.	04/19/22	DS	
Zinc	133,000	1,000	μg/Kg, dry wt.	04/19/22	DS	
Analysis Information						
Dry Weight Solids	87.9%	-	% by weight	04/13/22	DS	
SVOC Extraction	Completed	-	-	04/14/22	LB	
PCB Extraction	Completed	-	-	04/18/22	LB	
Mercury Digestion	Completed	-	-	04/13/22	DS	
Metals Digestion	Completed	-	-	04/18/22	LB	

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-7, 13:55, 4/12/22						
Laboratory ID:	12226-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	50	μg/L	04/14/22	BD		
Benzene	Not Detected	1	μg/L	04/14/22	BD		
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD		
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD		
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD		
Bromoform	Not Detected	1	μg/L	04/14/22	BD		
Bromomethane	Not Detected	5	μg/L	04/14/22	BD		
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD		
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD		
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD		
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD		
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Chloroethane	Not Detected	5	μg/L	04/14/22	BD		
Chloroform	Not Detected	1	μg/L	04/14/22	BD		
Chloromethane	Not Detected	5	μg/L	04/14/22	BD		
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD		
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD		
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD		
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD		
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD		
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD		
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD		
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD		
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD		
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD		
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-7, 13:55,	4/12/22				
Laboratory ID:	12226-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	98.0%	-	% Recovery	04/14/22	BD	
Toluene-d8	102%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	105%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed



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Sample Description:	GP-7, 13:55, 4/12/22						
Laboratory ID:	12226-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD		
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD		
Aniline	Not Detected	4	μg/L	04/14/22	BD		
Anthracene	Not Detected	5	μg/L	04/14/22	BD		
Azobenzene	Not Detected	2	μg/L	04/14/22	BD		
Benzidine	Not Detected	2	μg/L	04/14/22	BD		
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD		
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD		
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
Carbazole	Not Detected	10	μg/L	04/14/22	BD		
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD		
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD		
Chrysene	Not Detected	1	μg/L	04/14/22	BD		
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD		
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD		
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD		
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD		
continued							



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Sample Description:	GP-7, 13:55,	4/12/22				
Laboratory ID:	12226-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Fluorene	Not Detected	5	μg/L	04/14/22	BD	
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD	
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD	
Isophorone	Not Detected	5	μg/L	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD	
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD	
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD	
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD	
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD	
Phenol	Not Detected	5	μg/L	04/14/22	BD	
Pyrene	Not Detected	5	μg/L	04/14/22	BD	
Pyridine	Not Detected	20	μg/L	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	24.4%	-	% Recovery	04/14/22	BD	
Phenol-d5	23.4%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	42.9%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	52.4%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	40.0%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	40.8%	-	% Recovery	04/14/22	BD	
Continued						

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-7, 13:55,	GP-7, 13:55, 4/12/22							
Laboratory ID:	12226-13	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers			
PCBs									
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS				
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS				
Surrogate Standards									
Tetrachloro-m-xylene	112%	-	% Recovery	04/18/22	DS				
Decachlorobiphenyl	115%	-	% Recovery	04/18/22	DS				
Michigan Metals									
Arsenic	Not Detected	5	μg/L	04/19/22	DS				
Barium	1,190	100	μg/L	04/20/22	DS				
Cadmium	Not Detected	1	μg/L	04/19/22	DS				
Chromium	Not Detected	5	μg/L	04/19/22	DS				
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C			
Lead	Not Detected	3	μg/L	04/19/22	DS				
Mercury	Not Detected	0.2	μg/L	04/14/22	DS				
Selenium	Not Detected	5	μg/L	04/19/22	DS				
Silver	Not Detected	0.2	μg/L	04/19/22	DS				
Zinc	73	50	μg/L	04/19/22	DS				
Analysis Information									
SVOC Extraction	Completed	-	-	04/14/22	LB				
PCB Extraction	Completed	-	-	04/18/22	LB				
Mercury Digestion	Completed	-	-	04/14/22	LB				
Metals Digestion	Completed	-	-	04/18/22	LB				

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 2'-4', 14:20, 4/12/22						
Laboratory ID:	12226-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Volatile Organic Compounds							
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD		
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD		
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 2'-4', 1	<u>4:20, 4/12/22</u>	2			
Laboratory ID:	12226-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD	
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD	
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD	
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD	
Surrogate Standards			•			
1,2-Dichloroethane-d4	98.1%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	108%	-	% Recovery	04/14/22	BD	
continued			-			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J



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Sample Description:	GP-8, 2'-4', 14:20, 4/12/22						
Laboratory ID:	12226-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
Semi-Volatile Organic Cmpds							
Acenaphthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD		
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)anthracene	378	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(b)fluoranthene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(k)fluoranthene	705	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(g,h,i)perylene	381	330	μg/Kg, dry wt.	04/14/22	BD		
Benzo(a)pyrene	414	330	μg/Kg, dry wt.	04/14/22	BD		
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Carbazole	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD		
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Chrysene	416	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-butylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dibenzofuran	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
continued							

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- Reporting limit is elevated Result is from a dilution Result should be considered estimated D J
- Matrix interference observed
- Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 2'-4', 14:20, 4/12/22						
Laboratory ID:	12226-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
SVOCs continued							
Fluoranthene	668	330	μg/Kg, dry wt.	04/14/22	BD		
Fluorene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD		
Indeno(1,2,3-cd)pyrene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD		
Phenanthrene	378	330	μg/Kg, dry wt.	04/14/22	BD		
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Pyrene	641	330	μg/Kg, dry wt.	04/14/22	BD		
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Surrogate Standards							
2-Fluorophenol	45.0%	-	% Recovery	04/14/22	BD		
Phenol-d5	48.0%	-	% Recovery	04/14/22	BD		
Nitrobenzene-d5	42.4%	-	% Recovery	04/14/22	BD		
2-Fluorobiphenyl	59.7%	-	% Recovery	04/14/22	BD		
2,4,6-Tribromophenol	47.7%	-	% Recovery	04/14/22	BD		
Terphenyl-d14	43.5%	-	% Recovery	04/14/22	BD		
continued			-				

Internal Standard results outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 2'-4', 14:20, 4/12/22							
Laboratory ID:	12226-14	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers		
PCBs								
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS			
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS			
Surrogate Standards								
Tetrachloro-m-xylene	113%	-	% Recovery	04/18/22	DS			
Decachlorobiphenyl	125%	-	% Recovery	04/18/22	DS			
Michigan Metals								
Arsenic	4,760	100	μg/Kg, dry wt.	04/19/22	DS			
Barium	3,720,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Cadmium	168,000	200	μg/Kg, dry wt.	04/19/22	DS			
Chromium	168,000	2,000	μg/Kg, dry wt.	04/19/22	DS			
Copper	7,660,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Lead	3,900,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Mercury	3,730	50	μg/Kg, dry wt.	04/14/22	DS			
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS			
Silver	826	100	μg/Kg, dry wt.	04/19/22	DS			
Zinc	3,190,000	1,000	μg/Kg, dry wt.	04/19/22	DS			
Analysis Information								
Dry Weight Solids	81.3%	-	% by weight	04/13/22	DS			
SVOC Extraction	Completed	-	-	04/14/22	LB			
PCB Extraction	Completed	-	-	04/18/22	LB			
Mercury Digestion	Completed	-	-	04/13/22	DS			
Metals Digestion	Completed	-	-	04/18/22	LB			

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 14:30, 4/12/22					
Laboratory ID:	12226-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	Not Detected	1	μg/L	04/14/22	BD	
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued						

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	GP-8, 14:30, 4/12/22					
Laboratory ID:	12226-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	101%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	103%	-	% Recovery	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative

D J

Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-8, 14:30, 4/12/22					
Laboratory ID:	12226-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD	
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD	
Aniline	Not Detected	4	μg/L	04/14/22	BD	
Anthracene	Not Detected	5	μg/L	04/14/22	BD	
Azobenzene	Not Detected	2	μg/L	04/14/22	BD	
Benzidine	Not Detected	2	μg/L	04/14/22	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD	
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Carbazole	Not Detected	10	μg/L	04/14/22	BD	
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Chrysene	Not Detected	1	μg/L	04/14/22	BD	
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD	
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD	
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
continued						

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	GP-8, 14:30, 4/12/22					
Laboratory ID:	12226-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs continued						
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Fluorene	Not Detected	5	μg/L	04/14/22	BD	
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD	
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD	
Isophorone	Not Detected	5	μg/L	04/14/22	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD	
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD	
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD	
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD	
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD	
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD	
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD	
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD	
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD	
Phenol	Not Detected	5	μg/L	04/14/22	BD	
Pyrene	Not Detected	5	μg/L	04/14/22	BD	
Pyridine	Not Detected	20	μg/L	04/14/22	BD	
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD	
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD	
Surrogate Standards						
2-Fluorophenol	27.1%	-	% Recovery	04/14/22	BD	
Phenol-d5	25.3%	-	% Recovery	04/14/22	BD	
Nitrobenzene-d5	37.4%	-	% Recovery	04/14/22	BD	
2-Fluorobiphenyl	51.6%	-	% Recovery	04/14/22	BD	
2,4,6-Tribromophenol	44.5%	-	% Recovery	04/14/22	BD	
Terphenyl-d14	41.4%	-	% Recovery	04/14/22	BD	
continued						

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	GP-8, 14:30, 4/12/22						
Laboratory ID:	12226-15	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PCBs							
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS		
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS		
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS		
Surrogate Standards							
Tetrachloro-m-xylene	110%	-	% Recovery	04/18/22	DS		
Decachlorobiphenyl	108%	-	% Recovery	04/18/22	DS		
Michigan Metals							
Arsenic	Not Detected	5	μg/L	04/19/22	DS		
Barium	752	100	μg/L	04/20/22	DS		
Cadmium	Not Detected	1	μg/L	04/19/22	DS		
Chromium	Not Detected	5	μg/L	04/19/22	DS		
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C	
Lead	Not Detected	3	μg/L	04/19/22	DS		
Mercury	Not Detected	0.2	μg/L	04/14/22	DS		
Selenium	Not Detected	5	μg/L	04/19/22	DS		
Silver	Not Detected	0.2	μg/L	04/19/22	DS		
Zinc	Not Detected	50	μg/L	04/19/22	DS		
Analysis Information							
SVOC Extraction	Completed	-	-	04/14/22	LB		
PCB Extraction	Completed	-	-	04/18/22	LB		
Mercury Digestion	Completed	-	-	04/14/22	LB		
Metals Digestion	Completed	-	-	04/18/22	LB		



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

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Sample Description:	Duplicate, 4/12/22					
Laboratory ID:	12226-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Bromobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromodichloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromoform	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bromomethane	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
2-Butanone (MEK)	Not Detected	750	μg/Kg, dry wt.	04/14/22	BD	
n-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
sec-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
tert-Butylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Carbon disulfide	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Carbon tetrachloride	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chlorobenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloroethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
Chloroform	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Chloromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorotoluene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
Dibromochloromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	μg/Kg, dry wt.	04/14/22	BD	
Dibromomethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,3-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
2,2-Dichloropropane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
1,1-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD	
continued						

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	Duplicate, 4/12/22						
Laboratory ID:	12226-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
VOCs continued							
1,3-Dichloropropene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylbenzene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorobutadiene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
2-Hexanone	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Isopropyl benzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	μg/Kg, dry wt.	04/14/22	BD		
Methyl-t-butyl ether (MTBE)	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Methylene chloride	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
2-Methylnapthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
Naphthalene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
n-Propylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Styrene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,1,2-Tetrachloroethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,1,2,2-Tetrachloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrachloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Tetrahydrofuran	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Toluene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trichlorobenzene	Not Detected	250	μg/Kg, dry wt.	04/14/22	BD		
1,1,1-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
1,1,2-Trichloroethane	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichloroethylene	Not Detected	50	μg/Kg, dry wt.	04/14/22	BD		
Trichlorofluoromethane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,3-Trichloropropane	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,2,4-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
1,3,5-Trimethylbenzene	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Acetate	Not Detected	5,000	μg/Kg, dry wt.	04/14/22	BD		
Vinyl Chloride	Not Detected	40	μg/Kg, dry wt.	04/14/22	BD		
Xylene (Total)	Not Detected	150	μg/Kg, dry wt.	04/14/22	BD		
Surrogate Standards							
1,2-Dichloroethane-d4	97.5%	-	% Recovery	04/14/22	BD		
Toluene-d8	102%	-	% Recovery	04/14/22	BD		
4-Bromofluorobenzene	107%	-	% Recovery	04/14/22	BD		
continued							

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed



Report Date: Project Name: Project Number: Page: 12226 April 22, 2022

Lenox Center Property 188BS22164 79 of 93

Sample Description:	Duplicate, 4/12/22					
Laboratory ID:	12226-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	445	330	μg/Kg, dry wt.	04/14/22	BD	
Acenaphthylene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Aniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Anthracene	1,760	330	μg/Kg, dry wt.	04/14/22	BD	
Azobenzene	Not Detected	200	μg/Kg, dry wt.	04/14/22	BD	
Benzidine	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)anthracene	3,680	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(b)fluoranthene	1,760	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(k)fluoranthene	5,560	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(g,h,i)perylene	2,860	330	μg/Kg, dry wt.	04/14/22	BD	
Benzo(a)pyrene	3,830	330	μg/Kg, dry wt.	04/14/22	BD	
Benzyl alcohol	Not Detected	3,300	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	100	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Carbazole	657	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloroaniline	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	280	μg/Kg, dry wt.	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2-Chlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Chrysene	3,770	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-butylphthalate	405	330	μg/Kg, dry wt.	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dibenzofuran	401	330	μg/Kg, dry wt.	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Diethylphthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
Dimethyl phthalate	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD	
continued			- -			

- Internal Standard results outside of acceptance limits
- QC spike recovery outside of acceptance limits RPD outside of acceptance limits

- E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page:

12226 April 22, 2022 Lenox Center Property 188BS22164

Sample Description:	Duplicate, 4/12/22						
Laboratory ID:	12226-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
SVOCs continued							
Fluoranthene	8,720	330	μg/Kg, dry wt.	04/14/22	BD		
Fluorene	646	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachlorocyclopentadiene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Hexachloroethane	Not Detected	300	μg/Kg, dry wt.	04/14/22	BD		
Indeno(1,2,3-cd)pyrene	2,470	330	μg/Kg, dry wt.	04/14/22	BD		
Isophorone	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Methyl-4,6-Dinitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
2-Methylnaphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Methylphenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Methylphenols (total)	Not Detected	1,000	μg/Kg, dry wt.	04/14/22	BD		
Naphthalene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
3-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
4-Nitroaniline	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
Nitrobenzene	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2-Nitrophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
4-Nitrophenol	Not Detected	830	μg/Kg, dry wt.	04/14/22	BD		
N-Nitrosodi-n-propylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
N-Nitrosodiphenylamine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Pentachlorophenol	Not Detected	20	μg/Kg, dry wt.	04/14/22	BD		
Phenanthrene	6,830	330	μg/Kg, dry wt.	04/14/22	BD		
Phenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Pyrene	7,740	330	μg/Kg, dry wt.	04/14/22	BD		
Pyridine	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4,5-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
2,4,6-Trichlorophenol	Not Detected	330	μg/Kg, dry wt.	04/14/22	BD		
Surrogate Standards							
2-Fluorophenol	38.7%	-	% Recovery	04/14/22	BD		
Phenol-d5	41.7%	-	% Recovery	04/14/22	BD		
Nitrobenzene-d5	36.6%	-	% Recovery	04/14/22	BD		
2-Fluorobiphenyl	52.6%	-	% Recovery	04/14/22	BD		
2,4,6-Tribromophenol	47.4%	-	% Recovery	04/14/22	BD		
Terphenyl-d14	42.3%	-	% Recovery	04/14/22	BD		
continued							

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226

April 22, 2022 Lenox Center Property 188BS22164 81 of 93

Sample Description:	Duplicate, 4/12/22						
Laboratory ID:	12226-16	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers	
PCBs							
Aroclor 1016	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1221	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1232	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1242	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1248	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1254	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Aroclor 1260	Not Detected	100	μg/Kg, dry wt.	04/18/22	DS		
Polychlorinated biphenyls (Total)	Not Detected	700	μg/Kg, dry wt.	04/18/22	DS		
Surrogate Standards							
Tetrachloro-m-xylene	115%	-	% Recovery	04/18/22	DS		
Decachlorobiphenyl	144%	-	% Recovery	04/18/22	DS		
Michigan Metals							
Arsenic	2,800	100	μg/Kg, dry wt.	04/19/22	DS		
Barium	704,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Cadmium	1,370	200	μg/Kg, dry wt.	04/19/22	DS		
Chromium	36,000	2,000	μg/Kg, dry wt.	04/19/22	DS		
Copper	209,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Lead	1,730,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Mercury	960	50	μg/Kg, dry wt.	04/14/22	DS		
Selenium	Not Detected	200	μg/Kg, dry wt.	04/19/22	DS		
Silver	238	100	μg/Kg, dry wt.	04/19/22	DS		
Zinc	792,000	1,000	μg/Kg, dry wt.	04/19/22	DS		
Analysis Information							
Dry Weight Solids	84.8%	-	% by weight	04/13/22	DS		
SVOC Extraction	Completed	-	-	04/14/22	LB		
PCB Extraction	Completed	-	-	04/18/22	LB		
Mercury Digestion	Completed	-	-	04/13/22	DS		
Metals Digestion	Completed	-	-	04/18/22	LB		

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: 12226

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Sample Description:	Duplicate, 4/1	Duplicate, 4/12/22									
Laboratory ID:	12226-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers					
Volatile Organic Compounds											
Acetone	Not Detected	50	μg/L	04/14/22	BD						
Benzene	Not Detected	1	μ g/L	04/14/22	BD						
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD						
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD						
Bromodichloromethane	Not Detected	1	μ g/L	04/14/22	BD						
Bromoform	Not Detected	1	μg/L	04/14/22	BD						
Bromomethane	Not Detected	5	μg/L	04/14/22	BD						
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD						
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD						
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD						
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD						
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD						
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD						
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD						
Chloroethane	Not Detected	5	μg/L	04/14/22	BD						
Chloroform	Not Detected	1	μg/L	04/14/22	BD						
Chloromethane	Not Detected	5	μg/L	04/14/22	BD						
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD						
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD						
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD						
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD						
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD						
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD						
1,3-Dichlorobenzene	Not Detected	1	μ g /L	04/14/22	BD						
1,4-Dichlorobenzene	Not Detected	1	μ g /L	04/14/22	BD						
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD						
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD						
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD						
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD						
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD						
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD						
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD						
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD						
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD						
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD						
continued			. 3								

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits



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Sample Description:	Duplicate, 4/1	12/22				
Laboratory ID:	12226-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	99.8%	-	% Recovery	04/14/22	BD	
Toluene-d8	101%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	102%	-	% Recovery	04/14/22	BD	
continued						



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Sample Description:	Duplicate, 4/1	12/22				
Laboratory ID:	12226-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds						
Acenaphthene	Not Detected	5	μg/L	04/14/22	BD	
Acenaphthylene	Not Detected	5	μg/L	04/14/22	BD	
Aniline	Not Detected	4	μg/L	04/14/22	BD	
Anthracene	Not Detected	5	μg/L	04/14/22	BD	
Azobenzene	Not Detected	2	μg/L	04/14/22	BD	
Benzidine	Not Detected	2	μg/L	04/14/22	BD	
Benzo(a)anthracene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(b)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(k)fluoranthene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(g,h,i)perylene	Not Detected	1	μg/L	04/14/22	BD	
Benzo(a)pyrene	Not Detected	1	μg/L	04/14/22	BD	
Benzyl alcohol	Not Detected	50	μg/L	04/14/22	BD	
Bis(2-chloroethyl)ether	Not Detected	1	μg/L	04/14/22	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	μg/L	04/14/22	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	μg/L	04/14/22	BD	
4-Bromophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Butyl benzyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Carbazole	Not Detected	10	μg/L	04/14/22	BD	
4-Chloroaniline	Not Detected	10	μg/L	04/14/22	BD	
4-Chloro-3-methylphenol	Not Detected	5	μg/L	04/14/22	BD	
2-Chloronaphthalene (beta)	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorophenol	Not Detected	10	μg/L	04/14/22	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	μg/L	04/14/22	BD	
Chrysene	Not Detected	1	μg/L	04/14/22	BD	
Di-n-butylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Di-n-octyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
Dibenzo(a,h)anthracene	Not Detected	2	μg/L	04/14/22	BD	
Dibenzofuran	Not Detected	4	μg/L	04/14/22	BD	
3,3'-Dichlorobenzidine	Not Detected	2	μg/L	04/14/22	BD	
2,4-Dichlorophenol	Not Detected	10	μg/L	04/14/22	BD	
Diethylphthalate	Not Detected	5	μg/L	04/14/22	BD	
Dimethyl phthalate	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dimethylphenol	Not Detected	5	μg/L	04/14/22	BD	
2,4-Dinitrophenol	Not Detected	25	μg/L	04/14/22	BD	
2,4-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
2,6-Dinitrotoluene	Not Detected	5	μg/L	04/14/22	BD	
continued						

E D J Reporting limit is elevated Result is from a dilution Result should be considered estimated

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	Duplicate, 4/1	Duplicate, 4/12/22									
Laboratory ID:	12226-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers					
SVOCs continued											
Fluoranthene	Not Detected	1	μg/L	04/14/22	BD						
Fluorene	Not Detected	5	μg/L	04/14/22	BD						
Hexachlorobenzene	Not Detected	1	μg/L	04/14/22	BD						
Hexachlorocyclopentadiene	Not Detected	5	μg/L	04/14/22	BD						
Hexachloroethane	Not Detected	5	μg/L	04/14/22	BD						
Indeno(1,2,3-cd)pyrene	Not Detected	2	μg/L	04/14/22	BD						
Isophorone	Not Detected	5	μg/L	04/14/22	BD						
2-Methyl-4,6-Dinitrophenol	Not Detected	20	μg/L	04/14/22	BD						
2-Methylnaphthalene	Not Detected	5	μg/L	04/14/22	BD						
2-Methylphenol	Not Detected	10	μg/L	04/14/22	BD						
4-Methylphenol	Not Detected	10	μg/L	04/14/22	BD						
Methylphenols (total)	Not Detected	30	μg/L	04/14/22	BD						
Naphthalene	Not Detected	5	μg/L	04/14/22	BD						
2-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD						
3-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD						
4-Nitroaniline	Not Detected	25	μg/L	04/14/22	BD						
Nitrobenzene	Not Detected	3	μg/L	04/14/22	BD						
2-Nitrophenol	Not Detected	5	μg/L	04/14/22	BD						
4-Nitrophenol	Not Detected	25	μg/L	04/14/22	BD						
N-Nitrosodi-n-propylamine	Not Detected	5	μg/L	04/14/22	BD						
N-Nitrosodiphenylamine	Not Detected	5	μg/L	04/14/22	BD						
Pentachlorophenol	Not Detected	1	μg/L	04/14/22	BD						
Phenanthrene	Not Detected	2	μg/L	04/14/22	BD						
Phenol	Not Detected	5	μg/L	04/14/22	BD						
Pyrene	Not Detected	5	μg/L	04/14/22	BD						
Pyridine	Not Detected	20	μg/L	04/14/22	BD						
2,4,5-Trichlorophenol	Not Detected	5	μg/L	04/14/22	BD						
2,4,6-Trichlorophenol	Not Detected	4	μg/L	04/14/22	BD						
Surrogate Standards											
2-Fluorophenol	28.9%	-	% Recovery	04/14/22	BD						
Phenol-d5	31.9%	-	% Recovery	04/14/22	BD						
Nitrobenzene-d5	37.0%	-	% Recovery	04/14/22	BD						
2-Fluorobiphenyl	47.1%	-	% Recovery	04/14/22	BD						
2,4,6-Tribromophenol	45.6%	-	% Recovery	04/14/22	BD						
Terphenyl-d14	40.5%	-	% Recovery	04/14/22	BD						
continued											

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Sample Description:	Duplicate, 4/12/22								
Laboratory ID:	12226-17	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers			
PCBs									
Aroclor 1016	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1221	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1232	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1242	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1248	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1254	Not Detected	0.2	μg/L	04/18/22	DS				
Aroclor 1260	Not Detected	0.2	μg/L	04/18/22	DS				
Polychlorinated biphenyls (Total)	Not Detected	2	μg/L	04/18/22	DS				
Surrogate Standards									
Tetrachloro-m-xylene	115%	-	% Recovery	04/18/22	DS				
Decachlorobiphenyl	121%	-	% Recovery	04/18/22	DS				
Michigan Metals									
Arsenic	Not Detected	5	μg/L	04/19/22	DS				
Barium	738	100	μg/L	04/20/22	DS				
Cadmium	Not Detected	1	μg/L	04/19/22	DS				
Chromium	Not Detected	5	μg/L	04/19/22	DS				
Copper	Not Detected	20	μg/L	04/19/22	DS	E, C			
Lead	Not Detected	3	μg/L	04/19/22	DS				
Mercury	Not Detected	0.2	μg/L	04/14/22	DS				
Selenium	Not Detected	5	μg/L	04/19/22	DS				
Silver	Not Detected	0.2	μg/L	04/19/22	DS				
Zinc	124	50	μg/L	04/19/22	DS				
Analysis Information									
SVOC Extraction	Completed	-	-	04/14/22	LB				
PCB Extraction	Completed	-	-	04/18/22	LB				
Mercury Digestion	Completed	-	-	04/14/22	LB				
Metals Digestion	Completed	-	-	04/18/22	LB				



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Sample Description:	Trip Blank					
Laboratory ID:	12226-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Volatile Organic Compounds						
Acetone	Not Detected	50	μg/L	04/14/22	BD	
Benzene	Not Detected	1	μg/L	04/14/22	BD	
Bromobenzene	Not Detected	1	μg/L	04/14/22	BD	
Bromochloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromodichloromethane	Not Detected	1	μg/L	04/14/22	BD	
Bromoform	Not Detected	1	μg/L	04/14/22	BD	
Bromomethane	Not Detected	5	μg/L	04/14/22	BD	
2-Butanone (MEK)	Not Detected	25	μg/L	04/14/22	BD	
n-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
sec-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
tert-Butylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Carbon disulfide	Not Detected	5	μg/L	04/14/22	BD	
Carbon tetrachloride	Not Detected	1	μg/L	04/14/22	BD	
Chlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Chloroethane	Not Detected	5	μg/L	04/14/22	BD	
Chloroform	Not Detected	1	μg/L	04/14/22	BD	
Chloromethane	Not Detected	5	μg/L	04/14/22	BD	
2-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
4-Chlorotoluene	Not Detected	5	μg/L	04/14/22	BD	
Dibromochloromethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	μg/L	04/14/22	BD	
Dibromomethane	Not Detected	5	μg/L	04/14/22	BD	
1,2-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
1,4-Dichlorobenzene	Not Detected	1	μg/L	04/14/22	BD	
Dichlorodifluoromethane	Not Detected	5	μg/L	04/14/22	BD	
1,1-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
cis-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
trans-1,2-Dichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
1,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,3-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
2,2-Dichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,1-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
continued			1.5			

QC spike recovery outside of acceptance limits RPD outside of acceptance limits

Matrix Spike four times rule applied See Case Narrative

Internal Standard results outside of acceptance limits

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed



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Sample Description:	Trip Blank					
Laboratory ID:	12226-18	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs continued						
1,3-Dichloropropene	Not Detected	1	μg/L	04/14/22	BD	
Ethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	μg/L	04/14/22	BD	
Hexachlorobutadiene	Not Detected	0.2	μg/L	04/14/22	BD	
2-Hexanone	Not Detected	50	μg/L	04/14/22	BD	
Isopropyl benzene	Not Detected	5	μg/L	04/14/22	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	μg/L	04/14/22	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	μg/L	04/14/22	BD	
Methylene chloride	Not Detected	5	μg/L	04/14/22	BD	
2-Methylnapthalene	Not Detected	5	μg/L	04/14/22	BD	
Naphthalene	Not Detected	5	μg/L	04/14/22	BD	
n-Propyl benzene	Not Detected	1	μg/L	04/14/22	BD	
Styrene	Not Detected	1	μg/L	04/14/22	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	μg/L	04/14/22	BD	
Tetrachloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Tetrahydrofuran	Not Detected	90	μg/L	04/14/22	BD	
Toluene	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,2,4-Trichlorobenzene	Not Detected	5	μg/L	04/14/22	BD	
1,1,1-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
1,1,2-Trichloroethane	Not Detected	1	μg/L	04/14/22	BD	
Trichloroethylene	Not Detected	1	μg/L	04/14/22	BD	
Trichlorofluoromethane	Not Detected	1	μg/L	04/14/22	BD	
1,2,3-Trichloropropane	Not Detected	1	μg/L	04/14/22	BD	
1,2,4-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
1,3,5-Trimethylbenzene	Not Detected	1	μg/L	04/14/22	BD	
Vinyl Acetate	Not Detected	100	μg/L	04/14/22	BD	
Vinyl chloride	Not Detected	1	μg/L	04/14/22	BD	
Xylene (Total)	Not Detected	3	μg/L	04/14/22	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	98.1%	-	% Recovery	04/14/22	BD	
Toluene-d8	103%	-	% Recovery	04/14/22	BD	
4-Bromofluorobenzene	104%	-	% Recovery	04/14/22	BD	

Reporting limit is elevated Result is from a dilution Result should be considered estimated D J

Matrix interference observed

Matrix Spike four times rule applied See Case Narrative



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Quality Control

VOC Matrix Spike Data

Spiked Sample: 12226-1		Matrix: Soi	il	Units: ppl	o in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	22	22	88	88	0.0	
Benzene	0.0	25	24	25	96	100	4.1	
Trichloroethene	0.0	25	24	25	96	100	4.1	
Toluene	0.0	25	23	23	92	92	0.0	
Chlorobenzene	0.0	25	24	24	96	96	0.0	

Spiked Sample: 12226	LCS	Matrix: Water		Units: ppb in solution				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
1,1-Dichloroethene	0.0	25	29	28	116	112	3.5	
Benzene	0.0	25	24	26	96	104	8.0	
Trichloroethene	0.0	25	24	25	96	100	4.1	
Toluene	0.0	25	22	24	88	96	8.7	
Chlorobenzene	0.0	25	23	24	92	96	4.3	

SVOC Matrix Spike Data

Spiked Sample: 12226-2		Matrix: So	il	Units: pp	m in extract			
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
2-Chlorophenol	0.0	100	51	50	51	50	2.0	
1,4-Dichlorobenzene	0.0	50	20	20	40	40	0.0	
1,2,4-Trichlorobenzene	0.0	50	18	18	36	36	0.0	
4-Chloro-3-methylphenol	0.0	100	56	57	56	57	1.8	
Acenaphthene	0.0	50	21	21	42	42	0.0	
Pentachlorophenol	0.0	100	54	55	54	55	1.8	

Spiked Sample: 12226 LCS		Matrix: Wa	ater	Units: ppm in extract		t		
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
2-Chlorophenol	0.0	100	47	43	47	43	8.9	
1,4-Dichlorobenzene	0.0	50	20	19	40	38	5.1	
1,2,4-Trichlorobenzene	0.0	50	18	16	36	32	11.8	
4-Chloro-3-methylphenol	0.0	100	54	50	54	50	7.7	
Acenaphthene	0.0	50	21	19	42	38	10.0	
Pentachlorophenol	0.0	100	53	51	53	51	3.8	

Matrix Spike four times rule applied See Case Narrative



Report Date: Project Name: Project Number: Page: **12226** April 22, 2022

Lenox Center Property 188BS22164

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Quality Control, continued

PCB Matrix Spike Data

Spiked Sample: 12226-1		Matrix: Soil		Units: ppr	m in extract			
	Sample	mple Spike MS		MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Aroclor 1260	0.000	0.200	0.179	0.227	90	114	23.7	

Spiked Sample: 122	Matrix: Wa	nter	Units: ppr	m in extract				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Aroclor 1260	0.000	0.200	0.163	0.161	81	81	1.0	

Metals Matrix Spike Data

Spiked Sample: 1:	or Ba, Cu, 1	Matrix: So	il	Units: ppb in solution				
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	5.0	12.5	14.7	18.4	78	108	22.5	
Barium	0	100	95	77.6	95	78	19.8	
Cadmium	0.9	1.3	2.2	2.3	104	112	4.5	
Chromium	33.5	10	43.0	44.9	95	113	4.2	
Copper	4.0	25	27.2	26.7	93	91	1.9	
Lead	109	25	125	125	NC	NC	0.2	F
Mercury	0.0	5.0	4.7	4.7	93	94	0.9	
Selenium	0.4	25	0.2	0.4	-	-	58.1	S, M
Silver	0.0	5.0	4.0	4.0	79	80	1.3	
Zinc	156	500	604	624	90	94	3.3	

Spiked Sample: 1	2226-9 (LCS f	or Ba, 12226	6-15 for Hg)		Matrix: Water			ob in solution
	Sample	Spike	MS	MSD	MS	MSD		Data
Parameter	Result	Added	Result	Result	% Rec.	% Rec.	RPD	Qualifiers
Arsenic	9.3	12.5	25.2	22.8	127	108	10.1	
Barium	0	100	111	92.8	111	93	17.9	
Cadmium	2.8	1.3	1.3	1.3	-	-	5.0	S, M
Chromium	0.5	10	13.2	12.2	126	117	7.7	
Copper	12.0	25	43.3	41.7	125	119	3.8	
Lead	2.6	25	19.0	19.0	65	65	0.0	
Mercury	0.0	5.0	4.7	4.7	93	94	0.9	
Selenium	0.6	25	5.3	5.2	19	18	1.9	
Silver	0.0	5.0	3.2	2.9	64	58	10.5	
Zinc	87	500	547	385	92	60	34.8	

F Matrix Spike four times rule appliedC See Case Narrative



Report Number: Report Date: Project Name: Project Number:

Page:

12226 April 22, 2022 Lenox Center Property 188BS22164 91 of 93

Case Narrative

Samples 12226-3, 5, 7, 9, 11, 13 and 15 were filtered with a 0.45 µm filter prior to digestion and analysis of metals per client's request.

The reporting limit for copper in water samples was elevated due to the presence of the analyte in the associated method blank.

All method protocols and quality control requirements were satisfied for all samples.

Notes

- Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.

David W. Starr

Analytical Chemistry Manager

limits

LINE NO. LAB USE

1

2

3

4

5

6

7

8

9

10

Report Number:
Report Date:
Project Name:
Project Number:

Suantum Laboratories, Inc.

CHAIN OF CUSTODY RECORD

	COMPANY	Atla
	ADDRESS	46555 4 bild kr, S-it 100
INFO	CITY, STATE, ZIP	N. M. 48377
N	TELEPHONE	
CLIENT	FAX	
CL	CONTACT	Kevin LaFing
	ADDITIONAL PHONE	734.351.9095
	EMAIL ADDRESS	Kivin lafing Com exterior

S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air U=Unknown or Other

SAMPLE IDENTIFICATION

7'-8'

(1'-2')

11-2'

NUMBER OF CONTAINERS

2

SAMPLED

9:57

10:29

10:50

11:08

11:26

11:47

11:55

12:38

12:43

13:05

** GRAB/COMP: G=Grab Sample, C=Composite Sample

GP. 2

GP.2

GP.3

GP. 3

GP.4

67.5

V	Vomen's Business Enterprise National Council
V	VBEN
•	Cert. No. 2005111505

QUANTUM LABORATORIES, INC. 28221 Beck Road | Suite A-11 Wixom, MI 48393 248-348-TEST or 248-348-8378

				REF	PORT	NO. (LA	AB USE)	122	224	0	Page / of 2
			0	P.O	. NUM	BER					
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			4	TUF	RN AR	DUND	TIME	Standa			By Date:
				SPE	CIAL	INSTR	UCTIONS				
DATE	SAMPLE TYPE *	GRAB / COMP **	/.	00	10 A	100 m	10 CH	Soulais San	//		
SAMPLED	SAI	GR	/ .	7	5/ A	5/1	//	//	/	//	REMARKS / PRESERVATIVES
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4.12.22	5	5	×	×	X	>					and poserve
4.12.22	w		×	×	×	×			3		granducto Metal)
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XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY	SAMPLE RECEIVED
1	Anen 7 - 24	4:00 4/12/22/00	useBeigguest	□ Wet Ice
2			"	□ Blue Ice
3				

Yellow - Client Report Pink - Sampler White - Lab Copy

Matrix interference observed
Matrix Spike four times rule applied
See Case Narrative

≂ o ¤

limits

LINE NO. LAB USE

2

4

5

7

9 10

1 11

3 13

6 16

8 18

 $\subseteq \square$ m

Report Number:
Report Date:
Project Name:
Project Number:

CHAIN OF CUSTODY RECORD

	COMPANY	D1/12
	ADDRESS	46555 A-6.141, S.t. 100
INFO	CITY, STATE, ZIP	Novi Mi 48377
= L	TELEPHONE	
EN	FAX	
CLI	CONTACT	Kivin L. Fix
	ADDITIONAL PHONE	734.351.5195
	EMAIL ADDRESS	Kovn. lefige p ine atlis. com

* SAMPLE TYPE: S=Soil, W=Water, D=Drinking Water, O=Oil/Organic, M=Mixed, V=Vapor, A=Air U=Unknown or Other

SAMPLE IDENTIFICATION

(1'-2')

BILK

** GRAB/COMP: G=Grab Sample, C=Composite Sample

6P.7

Women's Business Enterprise National Council
WBENE
Cert. No. 2005111505

QUANTUM LABORATORIES, INC. 28221 Beck Road | Suite A-11 Wixom, MI 48393 248-348-TEST or 248-348-8378

				REP	ORTI	NO. (L	AB USE	Ξ)	12	_Z	2(0	Pag	ge	2 0	5
			0	P.O.	NUM	BER				-						
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							RUCTIO									
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DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	/	LYSIS	(83)	(A)	in the second	The said	ر ا	/		//		PRI		MARKS VATIVES
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4.12.22	5	9	×	>	×	0										
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4.12.22	100	5	~	×	×	K										
4.12.22		9	×	×	×	×										
		,	*													
				-												

XFER	RELINQUISHED BY	TIME / DATE	ACCEPTED BY	SAMPLE RECEIVED
1 2	Aus Jul	4:00 4/12/22	LoureBergount	☐ Wet Ice
3				

TIME

SAMPLED

13:17

13:46

13:55

14:20

14:30

2

Distribution: White - Lab Copy Yellow - Client Report Pink - Sampler

 $0 \pi \leq$ Matrix interference observed
Matrix Spike four times rule applied
See Case Narrative