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PHASE II ENVIRONMENTAL SITE ASSESSMENT

St. Patrick Senior Center
70 Parsons Street | Detroit, Michigan
PM Project Number 01-13624-0-0002

Prepared for:

St. Patrick Senior Center, Inc.
58 Parsons Street
Detroit, Michigan 48201

Prepared by:

PM Environmental, a Pinchin Company
4080 West Eleven Mile Road
Berkley, Michigan 48072

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Corporate Headquarters
Lansing, Michigan
3340 Ranger Road, Lansing, MI 48906
f: 877.884.6775
t: 517.321.3331

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May 26, 2023

Ms. SaTrice Coleman-Betts
St. Patrick Senior Center, Inc.
58 Parsons Street
Detroit, Michigan 48201

**Re: Phase II Environmental Site Assessment of the St. Patrick Senior Center
Located at 70 Parsons Street, Detroit, Michigan
PM Project No. 01-13624-0-0002**

Dear Ms. Coleman-Betts:

PM Environmental (PM), a Pinchin Company, completed a Phase II Environmental Site Assessment (ESA) of the St. Patrick Senior Center located at 70 Parsons Street, Detroit, Michigan (hereafter referred to as the "subject property"). This Phase II ESA was conducted in general accordance with ASTM Standard Practice E 1903-19 to assess the Recognized Environmental Conditions (RECs) identified in PM's November 2021 Phase I ESA. This Phase II ESA Report summarizes the subsurface investigation activities conducted, the geology encountered, and the sample analytical results.

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF ST. PATRICK SENIOR CENTER, INC., WHO MAY RELY ON THE REPORT'S CONTENTS.

SUBJECT PROPERTY INFORMATION

The subject property consists of one parcel (Parcel ID: 02000792) totaling 0.997 acres and is located on the north side of Parsons Street, south of Selden Street, east of Cass Avenue, and west of Woodward Avenue in Detroit, Michigan (Figure 1). The subject property is developed with one three-story building containing 23,915 square feet with full basement. The remainder of the subject property consists of groomed grass and concrete sidewalks to the south and west of the subject building, and asphalt paved driveways and parking areas to the north and west of the subject building (Figure 2).

CURRENT PHASE I ESA

PM completed a Phase I ESA for the subject property dated November 22, 2021, in conformance with the scope and limitations of ASTM Standard Practice E 1527-13.

Standard and other historical sources were able to document that the current building was constructed between 1884 and 1897 on previously vacant land. A convent building was constructed in the western portion in 1914. The western building was occupied by a convent and chapel from construction until it was demolished in 1976. The current building was occupied by a Catholic school from construction until at least 1965 and was converted to the current senior center between 1971 and 1973. The building has been occupied by the current senior center operations since that time, including community activities, a kitchen for food preparation, and office activities.

The following onsite REC was identified in the Phase I ESA:

- Review of historical Sanborn maps documents the current building was historically heated with crude oil stored in a tank north of the building in at least 1897 and 1919, which had a 50-barrel/2,750-gallon capacity. Piping was depicted on Sanborn maps running from the tank to the building. The crude oil tank appears to have no longer been in use by 1921 and the building has been heated with natural gas and/or steam heat since that time. PM was unable to confirm if the former crude oil tank was located aboveground or underground and no records of removal were available within reasonably ascertainable records. The potential exists for an orphan underground storage tank (UST) to be present and/or for a release to have occurred.

The following adjoining and/or nearby REC has been identified:

- A former building at the north adjoining property (historically identified as 69-73 Selden Street) was occupied by automotive painting operations between at least 1921 and 1931 and graining operations (painting faux wood grain) between at least 1936 and 1954. Historical interior waste streams associated with these former operations would have consisted of general hazardous substances and/or petroleum products. This time period preceded major environmental regulations and current waste management and disposal procedures. The potential exists for a release to have occurred on this property and migrated onto the subject property.

PREVIOUS SITE INVESTIGATIONS

No previous site investigations were identified by PM for the subject property. Previous reports may exist for the subject property; however, none were provided to PM by the client or owner of the property, and none were available with the appropriate state regulatory agencies.

CURRENT SITE INVESTIGATION

Prior to the commencement of field activities, MissDig, a utility locating service, was contacted to locate utilities on or adjacent to the subject property. Utilities were marked by the respective utility companies where they entered or were located adjacent to the subject property. Additionally, a geophysical survey investigation utilizing ground penetrating radar (GPR) was conducted by Fibertec Environmental Services (Fibertec) to clear the proposed soil boring locations of private subsurface utilities and to evaluate the potential presence of orphan USTs to be present.

On April 6, 2023, PM oversaw the completion of a GPR survey to assess the potential for orphan USTs to be present by Fibertec. The GPR survey was conducted in the area of the subject property where Sanborn maps documented the presence of a crude oil tank and associated piping located north of the subject building. The GPR survey was completed utilizing 2-dimensional scanning methods in a 2-foot surface grid pattern (i.e., in north-south and east-west directions), to a maximum depth of 5.0 feet below ground surface (bgs). Additionally, Fibertec utilized an RD7100 Cable and Pipe Locator, which utilizes multiple pre-set frequencies to locate and clear the proposed soil boring locations of subsurface electrical utilities.

Fibertec did not encounter any project specific conditions that limited its ability to assess the subject property.

No anomalies consistent with the presence of an orphan UST were identified during the completion of the GPR survey investigation (Figure 2). Other anomalies not consistent with USTs (i.e., those consistent with subsurface utilities, rebar, etc.) may have been observed; however, are not included within this report. Photographs of the GPR survey area are included in Appendix A.

On April 6, 2023, PM completed subsurface investigation activities at the subject property to assess the RECs identified in PM's November 2021 Phase I ESA. The scope of work consisted of advancing three soil borings (SB-1, SB-2, and SB-3) to a maximum depth of 20.0 feet bgs, installing one temporary monitoring well (SB/TMW-2), and collecting four soil samples and one groundwater sample for laboratory analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), and metals (cadmium, chromium, and lead), or some combination thereof. The groundwater sample collected from TMW-2 was analyzed for VOCs, cadmium, chromium, and lead only due to insufficient quantities of groundwater present to allow for analysis of PNAs.

On May 9, 2023, PM returned to the site to re-sample the groundwater at SB/TMW-2, which consisted of advancing one soil boring (SB-2R) to a depth of 10.0 feet bgs, installing one temporary monitoring well (SB/TMW-2R), and collecting one groundwater sample for laboratory analysis of lead.

The soil boring/temporary monitoring well locations are depicted on Figure 3.

Subsurface Investigations Techniques and QA/QC Procedures

The soil borings were advanced to the desired depth using a Geoprobe® drill rig and/or hand auger. Soil sampling was performed for soil classification, verification of subsurface geologic conditions, and for investigating the potential and/or extent of soil and/or groundwater contamination at the subject property. Soil samples were generally collected on a continuous basis using a 5-foot long macro-core sampler.

During drilling operations, the drilling equipment was cleaned to minimize the possibility of cross contamination. These procedures included cleaning equipment with a phosphate free solution (i.e., Alconox®) and rinsing with distilled water after each sample collection. Drilling and sampling equipment was also cleaned in this manner prior to initiating field activities.

Soil collected from 1-foot sample intervals was screened using a photoionization detector (PID) to determine if VOCs were present. Soil from specific depths was placed in plastic bags and allowed to volatilize. The headspace within each bag was then monitored with the PID, which can detect trace levels of organic compounds in the air space within the plastic bag. The soil sample was collected from the soil boring based upon the highest PID reading, visual/olfactory evidence, a change in geology, and/or source depth. The soil sample for VOC analysis was preserved with methanol in accordance with United States Environmental Protection Agency (EPA) Method 5035 modified.

Temporary monitoring wells were installed in two of the soil borings (SB/TMW-2 and SB/TMW-2R) advanced at the subject property for groundwater sample collection. A new well assembly, consisting of a 5-foot 0.010-inch slot, schedule 40, polyvinyl chloride (PVC) screen and PVC casing was lowered into the boreholes to intersect the water table. After the screens for the wells were set to the desired depth, an artificial sand pack or natural sands were allowed to collapse

around the well screens. The groundwater samples were collected from the temporary monitoring wells using a peristaltic pump and disposable tubing. Flow rates were controlled in a manner to reduce drawdown of groundwater levels to minimize mixing of stagnant water from the screened interval. Groundwater samples were transferred directly from disposable tubing into appropriately labeled sample containers provided by the laboratory. Purge water was maintained separate and returned to the wells.

The soil and groundwater samples were placed in appropriately labeled containers and/or sanitized glass jars provided by the laboratory, then placed in an ice-packed cooler and transported under chain of custody procedures for laboratory analysis within applicable holding times to Merit Laboratories, Inc. (Merit) in East Lansing, Michigan.

Upon completion of the investigation, the temporary monitoring well materials were removed and the soil borings were abandoned by placing the soil cuttings back into the borehole, filling the void with bentonite chips, hydrating the chips, resurfacing and returning the area to its pre-drilling condition.

GEOLOGY/HYDROGEOLOGY

Based on a review of PM's April and May 2023 soil boring logs, the soil stratigraphy of the subject property generally consists of gravelly sand, underlain by clay and/or sandy clay to a depth of at least 20.0 feet bgs, the maximum depth explored. A saturated sand seam was encountered in SB-2 and SB-2R at a depth of 5.0 to 5.5 feet bgs. Brick debris was encountered in SB-1, SB-2, and SB-2R at depths between 0.5 and 5.5 feet bgs.

Perched and discontinuous groundwater was encountered in two of the soil borings (SB/TMW-2 and SB/TMW-2R) advanced on the subject property at depths ranging between 5.0 and 5.5 feet bgs, with static water levels measured at 5.0 feet bgs in the temporary monitoring wells installed by PM.

The soil boring/temporary monitoring well logs from PM's April and May 2023 site investigations are included in Appendix B and summarize the site-specific geology, sample depths, temporary monitoring well construction diagram, and PID readings.

ANALYTICAL RESULTS

PM compared the analytical results of the soil and groundwater samples collected from the subject property with EGLE Generic Cleanup Criteria and Screening Levels as presented in Part 201 Rules 299.1 through 299.50, dated December 21, 2020 entitled "Cleanup Criteria Requirements for Response Activity", in accordance with Section 20120a(1) using the Residential and Nonresidential cleanup criteria.

PM compared the soil and groundwater analytical results with the EGLE Volatilization to Indoor Air Pathway (VIAP) screening levels (September 4, 2020). Although not an enforceable standard or may not be a standard by which documentation of due care compliance may be demonstrated, the available VIAP screening levels are consistent with EGLE provided site-specific values and are a means to discuss risk and potential due care requirements for a property prior to developing and/or obtaining site specific values, when applicable.

Under Part 201, a background concentration of a hazardous substance that exists in the environment at or regionally proximate to a facility that is not attributable to any release at or regionally proximate to the facility may be substituted for a generic cleanup criterion when the background concentration is higher than a criterion. Therefore, when concentrations were higher than the Part 201 Cleanup Criteria, metals were also compared to Statewide Default Background Levels (SDBLs) for clay soil types from the Huron-Erie Glacial Lobe (2015 Background Soil Survey), and PM defaulted to whichever value is greater.

The soil and groundwater analytical results are summarized on Figure 3 and in Tables 1 and 2. The laboratory analytical reports and associated chain of custody documentation are included in Appendix C.

Soil Analytical Results

No concentrations of VOCs, PNAs, PCBs, cadmium, chromium, or lead were detected in any of the soil samples analyzed from the subject property above the laboratory MDLs, SDBLs, the most restrictive Part 201 Residential cleanup criteria, and/or the EGLE Residential VIAP screening levels.

Groundwater Analytical Results

No concentrations of VOCs, cadmium, and chromium were detected in the groundwater sample analyzed from TMW-2 above laboratory MDLs, the most restrictive Part 201 Residential cleanup criteria, and/or EGLE Residential VIAP screening levels.

A concentration of lead (12 micrograms/liter ($\mu\text{g/L}$)) was detected in the initial groundwater sample analyzed from TMW-2 exceeding the Part 201 Residential and Nonresidential Drinking Water (DW) cleanup criteria (i.e., 10 $\mu\text{g/L}$). However, no concentrations of lead were detected in the replicate groundwater sample analyzed from the same location as TMW-2 (TMW-2R) above the most restrictive Part 201 Residential cleanup criteria. Based on the absence of lead concentrations identified in the replicate groundwater sample collected from TMW-2R exceeding the Part 201 Residential cleanup criteria, the concentrations of lead previously detected at TMW-2 were determined to be attributed to sediment in the sample and are not representative of actual groundwater conditions.

CONCLUSIONS

On April 6, 2023, PM oversaw the completion of a GPR survey on the subject property by Fibertec. No anomalies consistent with the presence of an orphan UST were identified during the completion of the GPR survey investigation.

On April 6 and May 9, 2023, PM completed subsurface investigation activities at the subject property which consisted of advancing four soil borings (SB-1, SB-2, SB-2R, and SB-3) to a maximum depth of 20.0 feet bgs, installing two temporary monitoring wells (SB/TMW-2 and SB/TMW-2R), and collecting four soil samples and two groundwater samples for laboratory analysis to assess the RECs identified in PM's November 2021 Phase I ESA.

No concentrations of VOCs, PNAs, PCBs, and/or metals (cadmium, chromium, and lead) were detected in any of the soil samples analyzed from the subject property during PM's April 2023 site

investigation above the laboratory MDLs, SDBLs, the most restrictive Part 201 Residential cleanup criteria, and/or the EGLE Residential VIAP screening levels.

No concentrations of VOCs, cadmium, and chromium were detected in the groundwater sample analyzed from the subject property above the laboratory MDLs, the most restrictive Part 201 Residential cleanup criteria, and/or the EGLE Residential VIAP screening levels. A concentration of lead was identified in the April groundwater sample analyzed from TMW-2 above the Part 201 Residential and Nonresidential DW cleanup criteria; however, the initial lead concentration was due to the presence of sediment in the groundwater sample and not representative of actual groundwater conditions at the subject property. Furthermore, the replicate groundwater sample analyzed from TMW-2R in March 2023 did not detect concentrations of lead exceeding the most restrictive Part 201 Residential cleanup criteria.

Based on the absence of target analytes in soils and the replicate groundwater sample analyzed from TMW-2R above the most restrictive Part 201 Residential cleanup criteria, the subject property is not a “facility” as defined in Section 20126(1)(c) of Part 201, of P.A. 451 of 1994, as amended. Furthermore, per Section 20126(4)(c) of Michigan Part 201, an owner or operator of property onto which contamination has migrated is not a liable party and as such, has no obligation for assessment or response activities.

The RECs identified in PM’s November 2021 Phase I ESA have been adequately assessed and no further investigation is warranted.

If you have any questions regarding the information in this report, please contact us at 800.313.2966.

REPORT PREPARED BY:
PM Environmental, a Pinchin Company

REPORT REVIEWED BY:
PM Environmental, a Pinchin Company



Aaron Snow
Project Scientist



Nicholas Lieder
Regional Manager – Site Investigation Services

FIGURES

- Figure 1: Property Vicinity Map
- Figure 2: Subject Property and Adjoining Properties With GPR Survey Area
- Figure 3: Soil and Groundwater Analytical Results

TABLES

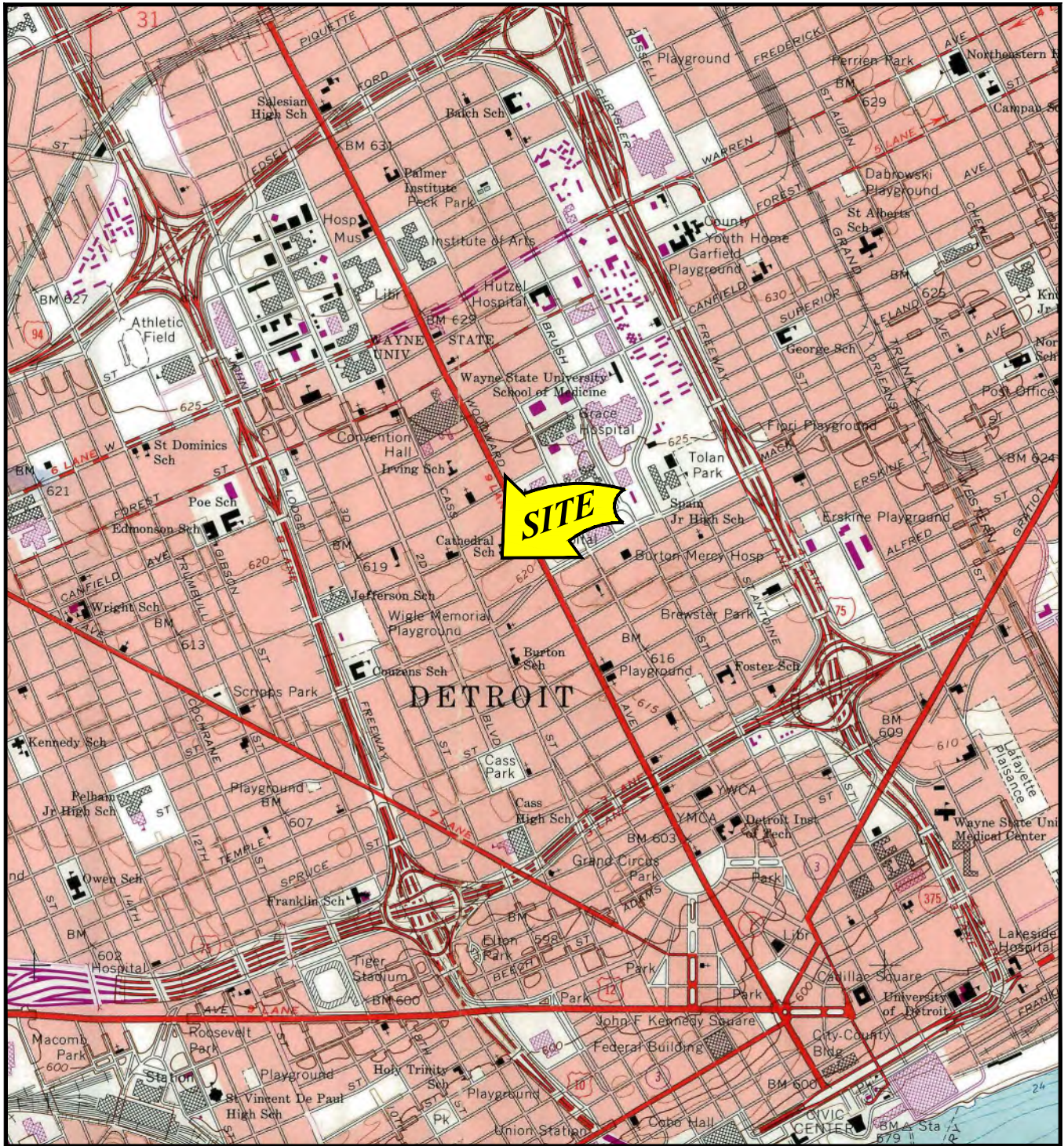
- Table 1: Summary of Soil Analytical Results: VOCs, PNAs, PCBs, Cadmium, Chromium, and Lead
- Table 2: Summary of Groundwater Analytical Results: VOCs, PNAs, Cadmium, Chromium, and Lead

APPENDICES

- Appendix A: Photographs from GPR Survey
- Appendix B: Soil Boring/Temporary Monitoring Well Logs
- Appendix C: Laboratory Analytical Reports

Figures





MICHIGAN QUADRANGLE LOCATION

WAYNE COUNTY

FIGURE 1

PROPERTY VICINITY MAP

UNITED STATES GEOLOGICAL SURVEY, 7.5 MINUTE SERIES

DETROIT, MI QUADRANGLE, 1968. PHOTO REVISED 1973 AND 1980.



PROJ:
ST. PATRICK SENIOR CENTER
70 PARSONS STREET
DETROIT, MI

THIS IS NOT A LEGAL SURVEY

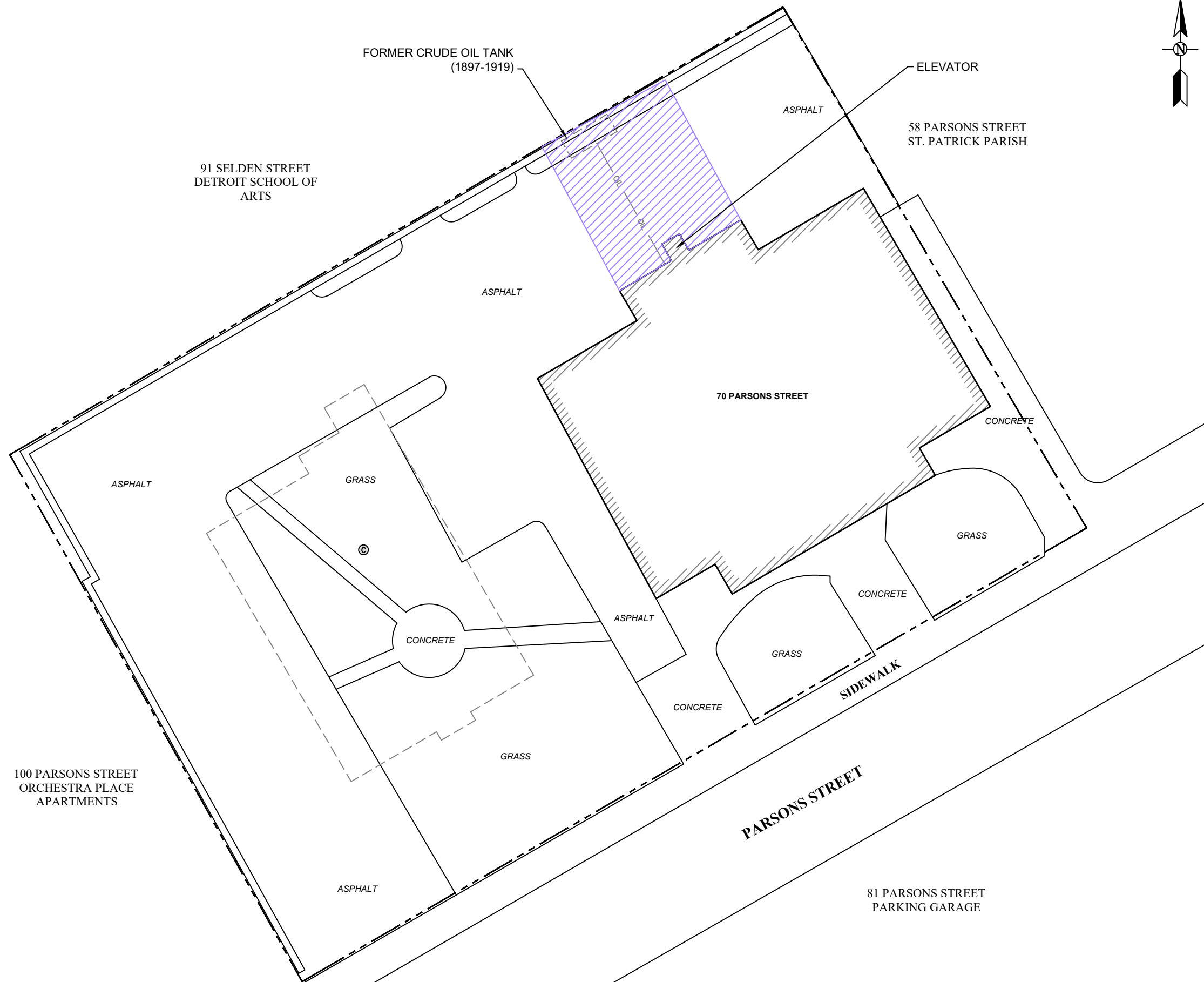
VERIFY SCALE
0 2000'

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DRN BY: CS DATE: 4/28/2023

CHKD BY: DB/AS SCALE: 1" = 2,000'

FILE NAME: 01-13624-0-002F00R00



- LEGEND:**
- SUBJECT PROPERTY
 - - - APPROXIMATE FORMER/HISTORICAL SITE FEATURES
 - OIL — FORMER OIL LINE
 - Ⓢ FORMER CONVENT BUILDING (DEMOLISHED 1976)
 - ▨ GPR SURVEY AREA

NOTE:
 1. LOCATION OF HISTORICAL SITE FEATURES ARE APPROXIMATE ONLY.
 2. REFERENCES: AERIAL PHOTOGRAPH FROM GOOGLE EARTH, IMAGERY DATE 4/11/2015



FIGURE 2
 SUBJECT PROPERTY AND ADJOINING PROPERTIES WITH GPR SURVEY AREA

PROJECT: ST. PATRICK SENIOR CENTER
 70 PARSONS STREET
 DETROIT, MI

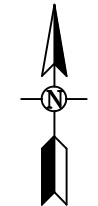
THIS IS NOT A LEGAL SURVEY	DRAWN BY: CS/LJH	DATE: 5/22/2023
VERIFY SCALE	CHECKED BY: DB/AS	REVISION DATE: 5/25/2023
0 30'	FILE NAME: 01-13624-0-002F00R00	

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FORMER CRUDE OIL TANK
(1897-1919)

TMW-2	
4/6/2023	
2.5 - 7.5'	SCREEN
UNITS	ug/L
ACETONE	286
OTHER VOCs	<MDL
Cd	<MDL
Cr	<MDL
Pb	12*

SB-3	
4/6/2023	
2.0 - 3.0'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	300
Cr	12,500
Pb	150,000



LEGEND:

- APPROXIMATE FORMER/HISTORICAL SITE FEATURES
 - OIL --- FORMER OIL LINE
 - ⊙ FORMER CONVENT BUILDING (DEMOLISHED 1976)
 - ⊕ SOIL BORING
 - ⊕ SOIL BORING / TEMPORARY MONITORING WELL
 - ⊕ ABANDONED/ DESTROYED MONITORING WELL
- ANALYTES**
- Cd CADMIUM
 - Cr CHROMIUM
 - Pb LEAD
 - B(a)ANTH BENZO(a)ANTHRACENE
 - B(a)PYR BENZO(a)PYRENE
 - B(b)FLA BENZO(b)FLUORANTHENE
 - B(g,h,i)PER BENZO(g,h,i)PERYLENE
 - B(k)FLA BENZO(k)FLUORANTHENE
 - I(1,2,3-CD)PY INDENO(1,2,3-CD)PYRENE
 - Ph PHENANTHRENE
 - Py PYRENE
 - FL FLUORANTHENE
 - VOCs VOLATILE ORGANIC COMPOUNDS
 - MDL METHOD DETECTION LIMIT

SB-2		SB-2	
4/6/2023		4/6/2023	
6.0 - 7.0'		10.0 - 11.0'	
UNITS	ug/Kg	UNITS	ug/Kg
VOCs	<MDL	VOCs	<MDL
PNAs	<MDL	PNAs	<MDL
PCBs	<MDL	PCBs	<MDL
Cd	230	Cd	280
Cr	12,700	Cr	14,700
Pb	5,880	Pb	92,900

TMW-2R	
5/9/2023	
2.5 - 7.5' SCREEN	
UNITS	ug/L
Pb	3

SB-1	
4/6/2023	
2.5 - 3.5'	
UNITS	ug/Kg
VOCs	<MDL
B(a)ANTH	700
B(a)PYR	600
B(b)FLA	1,100
B(g,h,i)PER	400
B(k)FLA	1,300
CHRYSENE	800
FL	1,400
I(1,2,3-CD)PY	400
Ph	900
Py	1,200
OTHER PNAs	<MDL
Cd	<MDL
Cr	11,700
Pb	114,000

91 SELDEN STREET
DETROIT SCHOOL OF
ARTS

58 PARSONS STREET
ST. PATRICK PARISH

70 PARSONS STREET

100 PARSONS STREET
ORCHESTRA PLACE
APARTMENTS

81 PARSONS STREET
PARKING GARAGE

- NOTES:
- REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED AND FOR CO-LOCATE SAMPLE RESULTS.
 - SOIL ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/Kg).
 - GROUNDWATER ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L).

NOTE:
* CONCENTRATION DUE TO THE PRESENCE OF SEDIMENT IN THE GROUNDWATER SAMPLE AND NOT REPRESENTATIVE OF GROUNDWATER CONDITIONS

- NOTE:
- LOCATION OF HISTORICAL SITE FEATURES ARE APPROXIMATE ONLY.
 - REFERENCES: AERIAL PHOTOGRAPH FROM GOOGLE EARTH, IMAGERY DATE 4/11/2015



FIGURE 3
SOIL AND GROUNDWATER ANALYTICAL RESULTS

PROJECT: ST. PATRICK SENIOR CENTER
70 PARSONS STREET
DETROIT, MI

THIS IS NOT A LEGAL SURVEY	DRAWN BY: CS/LJH	DATE: 5/22/2023
VERIFY SCALE	CHECKED BY: DB/AS	REVISION DATE: 5/25/2023
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	FILE NAME: 01-13624-0-002F00R00	

Tables



TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS: VOCs, PNAs, PCBs, CADMIUM, CHROMIUM, AND LEAD
70 PARSONS STREET, DETROIT, MICHIGAN
PM PROJECT # 01-13624-0-0002

Volatile Organic Compounds (VOCs), Polynuclear Aromatic Hydrocarbons (PNAs), Polychlorinated Biphenyls (PCBs), Cadmium, Chromium, and Lead (µg/Kg)			VOCs	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Other PNAs	PCBs	Cadmium	Chromium	Lead
Chemical Abstract Service Number (CAS#)			Various	56553	50328	205992	191242	207089	218019	206440	193395	85018	129000	Various	1336363	7440439	16065831	7439921
Sample ID	Sample Date	Sample Depth (feet bgs)	VOCs	PNAs										PCBs	Metals			
SB-1	04/06/2023	2.5-3.5	<MDL	700	600	1,100	400	1,300	800	1,400	400	900	1,200	<MDL	<330	<200	11,700	114,000
SB-2	04/06/2023	6.0-7.0	<MDL	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<MDL	<330	230	12,700	5,880
SB-2	04/06/2023	10.0-11.0	<MDL	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<MDL	<330	280	14,700	93,900
SB-3	04/06/2023	2.0-3.0	<MDL	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<MDL	<330	300	12,500	150,000
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, June 25, 2018 EGLE Volatilization to Indoor Air Pathway (VIAP) Screening Levels, September 4, 2020																		
Residential (µg/Kg)																		
Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,200	18,000	21,000
Drinking Water Protection (Res DWP)	Various	NLL	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	56,000	4.80E+05	Various	NLL	6,000	30,000	7.00E+05
Groundwater Surface Water Interface Protection (GSIP)	Various	NLL	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID	Various	NLL	3,000 {G,X}	2.4E+09 {G}	2.1E+06 {G,X}
Soil Volatilization to Indoor Air Inhalation (Res SVII)	Various	NLV	NLV	ID	NLV	NLV	ID	ID	1.0E+9 {D}	NLV	2.8E+06	1.0E+9 {D}	Various	3.0E+06	NLV	NLV	NLV	
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)	Various	NLV	NLV	ID	NLV	NLV	ID	ID	7.40E+08	NLV	1.60E+05	6.5E+08	Various	2.40E+05	NLV	NLV	NLV	
Ambient Air Finite VSI for 5 Meter Source Thickness	Various	NLV	NLV	ID	NLV	NLV	ID	ID	7.4E+08	NLV	1.60E+05	6.5E+08	Various	7.9E+06	NLV	NLV	NLV	
Ambient Air Finite VSI for 2 Meter Source Thickness	Various	NLV	NLV	ID	NLV	NLV	ID	ID	7.4E+08	NLV	1.60E+05	6.5E+08	Various	7.9E+06	NLV	NLV	NLV	
Ambient Air Particulate Soil Inhalation (Res PSI)	Various	ID	1.5E+06	ID	8.0E+08	ID	ID	ID	9.3E+09	ID	6.7E+06	6.7E+09	Various	5.2E+06	1.70E+06	2.60E+05	1.0E+08	
Direct Contact (Res DC)	Various	20,000	2,000	20,000	2.5E+06	2.00E+05	2.0E+06	4.6E+07	20,000	1.6E+06	2.9E+07	Various	{T}	5.50E+05	2.50E+06	4.00E+05		
Nonresidential (µg/Kg)																		
Drinking Water Protection (Nonres DWP)	Various	NLL	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	1.60E+05	4.80E+05	Various	NLL	6,000	30,000	7.00E+05
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)	Various	NLV	NLV	ID	NLV	NLV	ID	ID	1.0E+9 {D}	NLV	5.1E+06	1.0E+9 {D}	Various	1.6E+07	NLV	NLV	NLV	
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)	Various	NLV	NLV	ID	NLV	NLV	ID	ID	8.9E+08	NLV	1.90E+05	7.8E+08	Various	8.10E+05	NLV	NLV	NLV	
Ambient Air Finite VSI for 5 Meter Source Thickness	Various	NLV	NLV	ID	NLV	NLV	ID	ID	8.8E+08	NLV	1.90E+05	7.8E+08	Various	2.8E+07	NLV	NLV	NLV	
Ambient Air Finite VSI for 2 Meter Source Thickness	Various	NLV	NLV	ID	NLV	NLV	ID	ID	8.8E+08	NLV	1.90E+05	7.8E+08	Various	2.8E+07	NLV	NLV	NLV	
Ambient Air Particulate Soil Inhalation (Nonres PSI)	Various	ID	1.9E+06	ID	3.5E+08	ID	ID	ID	4.1E+09	ID	2.9E+06	2.9E+09	Various	6.5E+06	2.2E+06	2.40E+05	4.40E+07	
Direct Contact (Nonres DC)	Various	80,000	8,000	80,000	7.0E+06	8.00E+05	8.0E+06	1.3E+08	80,000	5.2E+06	8.4E+07	Various	{T}	2.1E+06	9.20E+06	9.00E+05 {DD}		
Screening Levels (µg/Kg)																		
Soil Saturation Concentration Screening Levels (Csat)	Various	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Various	ID	NA	NA	NA
Residential Volatilization to Indoor Air Pathway Screening Level (VIAP)	Various	1.60E+05 (MM)	NA	NA	NA	NA	NA	NA	NA	NA	1,700	2.50E+07	Various	ID	NA	NA	NA	
Nonresidential Volatilization to Indoor Air Pathway Screening Level (VIAP)	Various	1.10E+07	NA	NA	NA	NA	NA	NA	NA	NA	29,000	4.40E+08	Various	ID	NA	NA	NA	

µg/Kg Micrograms Per Kilogram
bgs Below Ground Surface
<MDL Not detected at levels above the laboratory Method Detection Limit (MDL)
NA Not Applicable
NL Not Listed
NLL Not Likely to Leach
NLV Not Likely to Volatilize
ID Insufficient Data
{ } Other Alpha notation, please refer to EGLE Footnotes R 299.49 Footnotes for Generic Cleanup Criteria Tables, December 21, 2020
() Other Alpha notation, please refer to EGLE Guidance for the Vapor Intrusion Pathway Appendix D.1 Footnotes, September 4, 2020
{G} Metal GSIP Criteria for Surface Water Not Protected for Drinking Water Use based on 117 mg/L CaCO3 Hardness: Station ID 29, Detroit River, Detroit, MI.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS: VOCs, CADMIUM, CHROMIUM, AND LEAD
70 PARSONS STREET, DETROIT, MICHIGAN
PM PROJECT # 01-13624-0-0002

Volatile Organic Compounds (VOCs), Cadmium, Chromium, and Lead (µg/L)				Acetone	Other VOCs	Cadmium	Chromium	Lead
Chemical Abstract Service Number (CAS#)				67641	Various	7440439	16065831	7439921
Sample ID	Sample Date	Screen Depth (bgs)	Depth to Groundwater (bgs)	VOCs		Metals		
TMW-2	04/06/2023	2.5-7.5	5.0	286	<MDL	<0.5	<5	12*
TMW-2R	05/09/2023	2.5-7.5	5.0	NA	NA	NA	NA	3
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, August 3, 2020 EGLE Volatilization to Indoor Air Pathway (VIAP) Screening Levels, September 4, 2020								
Residential/Nonresidential (µg/L)								
Residential Drinking Water (Res DW)				730	Various	5.0 {A}	100 {A}	4.0 {L}
Residential Health Based Drinking Water Values				NL	Various	NL	NL	NL
Nonresidential Drinking Water (Nonres DW)				2,100	Various	5.0 {A}	100 {A}	4.0 {L}
Nonresidential Health Based Drinking Water Values				NL	Various	NL	NL	NL
Groundwater Surface Water Interface (GSI)				1,700	Various	2.5 {G,X}	84 {G,X}	12 {G,X}
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) ¹				1.0E+9 {D,S}	Various	NLV	NLV	NLV
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) ¹				1.0E+9 {D,S}	Various	NLV	NLV	NLV
Screening Levels (µg/L)								
Residential Shallow Volatilization to Indoor Air Pathway Screening Level (VIAP)²				50,000 (FF)	Various	NA	NA	NA
Nonresidential Shallow Volatilization to Indoor Air Pathway Screening Level (VIAP)⁴				2.0E+05 (FF)	Various	NA	NA	NA
Water Solubility				1.00E+09	Various	NA	NA	NA
Flammability and Explosivity Screening Level				1.50E+07	Various	ID	ID	ID

µg/L Micrograms Per Liter

bgs Below Ground Surface (feet)

<MDL Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

¹ Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

² Screening Levels based on depth to groundwater less than 10.0 feet

⁴ Screening Levels based on depth to groundwater less than 5.0 feet

NA Not Applicable/Not Analyzed

NL Not Listed

NLV Not Likely to Volatilize

ID Insufficient Data

{ } Other Alpha notation, please refer to EGLE Footnotes R 299.49 Footnotes for Generic Cleanup Criteria Tables, December 21, 2020

() Other Alpha notation, please refer to EGLE Guidance for the Vapor Intrusion Pathway Appendix D.1 Footnotes, September 4, 2020

{G} Metal GSI Criteria for Surface Water Not Protected for Drinking Water Use based on 117 mg/L CaCO₃ Hardness: Station ID 29, Detroit River, Detroit, MI.

* Concentration due to the presence of siltment in the groundwater sample and not representative of groundwater conditions

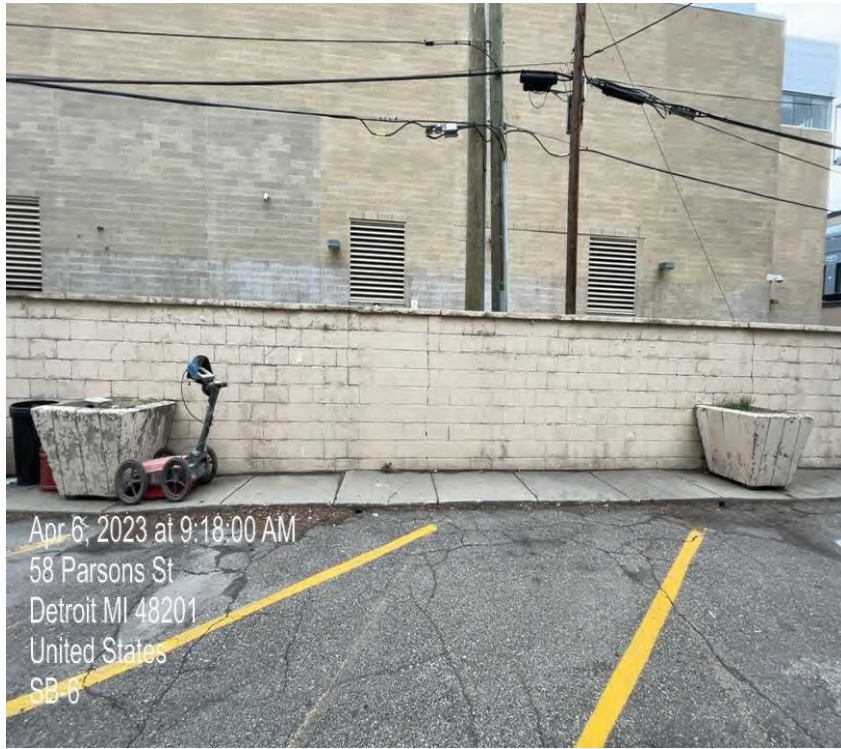
Appendix A





Photographs from the Geophysical Survey Investigation
PM Project No. 01-13624-0-0002
Location: 70 Parsons Street, Detroit, Michigan
Date: April 6, 2023

Photograph 1



View of the ground penetrating radar (GPR) survey area, facing north.

Photograph 2



View of the GPR survey area, facing east.



Photographs from the Geophysical Survey Investigation
PM Project No. 01-13624-0-0002
Location: 70 Parsons Street, Detroit, Michigan
Date: April 6, 2023

Photograph 3



View of the GPR survey area, facing south.

Photograph 4



View of the GPR survey area, facing west.



Photographs from the Geophysical Survey Investigation
PM Project No. 01-13624-0-0002
Location: 70 Parsons Street, Detroit, Michigan
Date: April 6, 2023

Photograph 5



View of the GPR survey area, facing east.

Photograph 6



View of the GPR survey area, facing west.

Appendix B





Project No.: 01-13624-0-0002

Boring Log

Project Name: St. Patrick Senior Center

Boring No.: SB-1

Address: 70 Parsons St, Detroit, MI

Drill Rig: Geoprobe

Facility ID#:

Drilling Method: Direct Push

Date Drilled: 4/6/2023

Sampling Method: Grab

Logged By: L. Shoudy

Drilling Contractor: Fibertec

SUBSURFACE PROFILE			SAMPLE		
Depth (ft)	Soil Type Graphic	Description and Comments	Sample Interval	% Recovery	PID (ppm)
0		Ground Surface			
0		ASPHALT		75	0.0
0		SW- (Loose) GRAVELLY SAND (damp) Gray, fine to coarse		75	0.0
2		CL- (Stiff) CLAY (damp) Brown mottled Gray, medium plasticity, trace gravel and sand	SB-1 2.5' - 3.5'	75	0.0
4		CL- (Soft) SANDY CLAY (moist) Gray, medium plasticity, trace glass and brick debris		75	0.0
6		CL- (Medium Stiff) CLAY (damp) Brown mottled Gray, medium plasticity, trace gravel and sand		100	0.0
8				100	0.0
10				100	0.0
12				100	0.0
14				100	0.0
16				100	0.0
18				100	0.0
20		CH- (Medium Stiff) CLAY (damp) Gray, high plasticity, trace gravel and sand		100	0.0

No Well Installed

Completion Notes: EOB @ 20.0' bgs

Legend:
 EOB End of Boring
 Bgs. Below Ground Surface
 NR No Recovery
 NA Not Applicable
 ft Feet



Project No.: 01-13624-0-0002

Well Log

Project Name: St. Patrick Senior Center

Well No.: SB-2/TMW-2

Address: 70 Parsons St, Detroit, MI

Drill Rig: Geoprobe

Facility ID#:

Drilling Method: Direct Push

Date Drilled: 4/6/2023

Sampling Method: Grab

Logged By: L. Shoudy

Drilling Contractor: Fibertec

SUBSURFACE PROFILE			SAMPLE			Completion Details
Depth (ft)	Soil Type Graphic	Description and Comments	Sample Interval	% Recovery	PID (ppm)	
0		Ground Surface				
0	ASPHALT			75	0.0	
0 - 2	SW- (Loose) GRAVELLY SAND (damp)	Gray, fine to coarse		75	0.0	
0 - 4	CL- (Medium Stiff) CLAY (damp)	Brown mottled Gray, medium plasticity, trace gravel and sand and brick debris		75	0.0	
0 - 4				75	0.0	
4 - 6	(Loose) SAND (saturated)	Brown, fine to coarse, with brick debris		90	0.3	
4 - 7	CL- (Very Stiff) CLAY (damp)	Brown mottled Gray, medium plasticity, trace gravel and sand	SB-2 6.0' - 7.0'	90	2.0	
6 - 8				90	0.0	
6 - 8				90	0.0	
8 - 10				90	0.0	
10 - 12	CL- (Very Stiff) CLAY (damp)	Brown, medium plasticity, trace gravel and sand	SB-2 10.0' - 11.0'	100	0.5	
10 - 12				100	0.3	
12 - 16				100	0.0	
12 - 16	CH- (Very Stiff) CLAY (damp)	Gray, high plasticity, trace gravel and sand		100	0.0	
16 - 18				100	0.0	
18 - 20				100	0.0	

Completion Notes: EOB @ 20.0' bgs

Legend:

- EOB End of Boring
- bgs Below Ground Surface
- NR No Recovery
- NA Not Applicable
- ft Feet
- in Inches



Project No.: 01-13624-0-0002

Well Log

Project Name: St. Patrick Senior Center

Well No.: SB-2/TMW-2R

Address: 70 Parsons St, Detroit, MI

Drill Rig: Geoprobe

Facility ID#:

Drilling Method: Direct Push

Date Drilled: 5/9/2023

Sampling Method: Grab

Logged By: L. Shoudy

Drilling Contractor: Fibertec

SUBSURFACE PROFILE			SAMPLE			Completion Details
Depth (ft)	Soil Type Graphic	Description and Comments	Sample Interval	% Recovery	PID (ppm)	
0		Ground Surface				<p>Stickup Well</p> <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>2.50'</p> <p>Ground Surface</p> <p>7.50'</p> <p>Approximate Water Level (5.0')</p>
0	ASPHALT			75	0.0	
0.5	SW- (Loose) GRAVELLY SAND (damp)	Gray, fine to coarse		75	0.0	
1	CL- (Medium Stiff) CLAY (damp)	Brown mottled Gray, medium plasticity, trace gravel and sand and brick debris		75	0.0	
1.5				75	0.0	
2				75	0.0	
2.5				75	0.0	
3				75	0.0	
3.5				75	0.0	
4				75	0.0	
4.5				75	0.0	
5				75	0.0	
5.5	(Loose) SAND (saturated)	Brown, fine to coarse, with brick debris		90	0.3	
6	CL- (Very Stiff) CLAY (damp)	Brown mottled Gray, medium plasticity, trace gravel and sand		90	2.0	
6.5				90	0.0	
7				90	0.0	
7.5				90	0.0	
8				90	0.0	
8.5				90	0.0	
9				90	0.0	
9.5				90	0.0	
10				90	0.0	
10.5	CL- (Very Stiff) CLAY (damp)	Brown, medium plasticity, trace gravel and sand		100	0.5	
11				100	0.3	
11.5				100	0.0	
12				100	0.0	
12.5				100	0.0	
13				100	0.0	
13.5				100	0.0	
14				100	0.0	
14.5				100	0.0	
15				100	0.0	
15.5	CH- (Very Stiff) CLAY (damp)	Gray, high plasticity, trace gravel and sand		100	0.0	
16				100	0.0	
16.5				100	0.0	
17				100	0.0	
17.5				100	0.0	
18				100	0.0	
18.5				100	0.0	
19				100	0.0	
19.5				100	0.0	
20				100	0.0	

Completion Notes: EOB @ 20.0' bgs

Legend:
 EOB End of Boring
 bgs Below Ground Surface
 NR No Recovery
 NA Not Applicable
 ft Feet
 in Inches



Project No.: 01-13624-0-0002

Boring Log

Project Name: St. Patrick Senior Center

Boring No.: SB-3

Address: 70 Parsons St, Detroit, MI

Drill Rig: Geoprobe

Facility ID#:

Drilling Method: Direct Push

Date Drilled: 4/6/2023

Sampling Method: Grab

Logged By: L. Shoudy

Drilling Contractor: Fibertec

SUBSURFACE PROFILE			SAMPLE			No Well Installed
Depth (ft)	Soil Type Graphic	Description and Comments	Sample Interval	% Recovery	PID (ppm)	
0		Ground Surface				
0		ASPHALT		100	0.0	
0		SW- (Loose) GRAVELLY SAND (damp)		100	0.0	
0		Gray, fine to coarse		100	0.0	
2		CL- (Stiff) CLAY (damp)	SB-3 2.0' - 3.0'	100	0.0	
2		Brown mottled Gray, medium plasticity, trace gravel and sand		100	0.0	
4				100	0.0	
4				100	0.0	
6				100	0.0	
6				100	0.0	
8				100	0.0	
8				100	0.0	
10				100	0.0	
10		CL- (Very Stiff) CLAY (damp)		100	0.0	
10		Brown mottled Gray, medium plasticity, trace gravel and sand		100	0.0	
12				100	0.0	
12				100	0.0	
14				100	0.0	
14				100	0.0	
16				100	0.0	
16				100	0.0	
18				100	0.0	
18				100	0.0	
20		CH- (Stiff) CLAY (damp)		100	0.0	
20		Gray, high plasticity, trace gravel				

Completion Notes: EOB @ 20.0' bgs

Legend:

EOB End of Boring
 Bgs. Below Ground Surface
 NR No Recovery
 NA Not Applicable
 ft Feet

Appendix C





Report ID: S47204.01(02)
Generated on 04/18/2023
Replaces report S47204.01(01) generated on 04/14/2023

Report to
Attention: Aaron Snow
PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Phone: O:248-414-1424 C:248-760-4159 FAX:
Email: aaron.snow@pmenv.com

Report produced by
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary
Lab Sample ID(s): S47204.01-S47204.07
Project: 01-13624-0-0002 / St. Patrick's Senior Ctr
Collected Date(s): 04/06/2023
Submitted Date/Time: 04/07/2023 10:00
Sampled by: Laura Shoudy
P.O. #: 01-13624-0-0002

Table of Contents
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Sample Summary (Page 5)

Maya Murshak
Technical Director



General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

Re-run Lead on sample .07 per client request

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SM2540B	Standard Method 2540 B 2015
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003
SW5035A	SW 846 Method 5035A Revision 1 July 2002
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007



Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S47204.01	SB-3 2-3	Soil	04/06/23 10:00
S47204.02	SB-3 9-10	Soil	04/06/23 10:05
S47204.03	SB-2 6-7	Soil	04/06/23 10:35
S47204.04	SB-2 10-11	Soil	04/06/23 10:40
S47204.05	SB-1 2.5-3.5	Soil	04/06/23 11:20
S47204.06	SB-1 9-10	Soil	04/06/23 11:25
S47204.07	TMW-2	Groundwater	04/06/23 10:45



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S47204.01

Sample Tag: SB-3 2-3

Collected Date/Time: 04/06/2023 10:00

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/11/23 09:35	JRH	
Extraction, PCB*	Completed	SW3546	04/11/23 13:00	DJS	
PNA Extraction*	Completed	SW3546	04/11/23 15:30	DJS	
Sample wt. (g) / Methanol (ml)*	9.319/10	SW5035A	04/10/23 12:42	ACK	

Inorganics

Method: SM2540B, Run Date: 04/07/23 18:34, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	79	1		%	1		

Metals

Method: SW6020A, Run Date: 04/11/23 11:24, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	0.30	0.20		mg/kg	262	7440-43-9	
Chromium	12.5	0.50		mg/kg	262	7440-47-3	
Lead	150	0.30		mg/kg	262	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/12/23 11:44, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 00:14, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

Lab Sample ID: S47204.01 (continued)

Sample Tag: SB-3 2-3

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 00:14, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	

Organics - Volatiles
Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 05:34, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	81.2	60-29-7	
Acetone	Not detected	2,000		ug/kg	81.2	67-64-1	
Methyl iodide	Not detected	200		ug/kg	81.2	74-88-4	
Carbon disulfide	Not detected	400		ug/kg	81.2	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	81.2	1634-04-4	
Acrylonitrile	Not detected	200		ug/kg	81.2	107-13-1	
2-Butanone (MEK)	Not detected	1,200		ug/kg	81.2	78-93-3	
Dichlorodifluoromethane	Not detected	400		ug/kg	81.2	75-71-8	
Chloromethane	Not detected	400		ug/kg	81.2	74-87-3	
Vinyl chloride	Not detected	80		ug/kg	81.2	75-01-4	
Bromomethane	Not detected	300		ug/kg	81.2	74-83-9	
Chloroethane	Not detected	400		ug/kg	81.2	75-00-3	
Trichlorofluoromethane	Not detected	200		ug/kg	81.2	75-69-4	
1,1-Dichloroethene	Not detected	80		ug/kg	81.2	75-35-4	
Methylene chloride	Not detected	200		ug/kg	81.2	75-09-2	
trans-1,2-Dichloroethene	Not detected	80		ug/kg	81.2	156-60-5	
1,1-Dichloroethane	Not detected	80		ug/kg	81.2	75-34-3	
cis-1,2-Dichloroethene	Not detected	80		ug/kg	81.2	156-59-2	
Tetrahydrofuran*	Not detected	2,000		ug/kg	81.2	109-99-9	
Chloroform	Not detected	80		ug/kg	81.2	67-66-3	
Bromochloromethane	Not detected	200		ug/kg	81.2	74-97-5	
1,1,1-Trichloroethane	Not detected	80		ug/kg	81.2	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	4,000		ug/kg	81.2	108-10-1	
2-Hexanone	Not detected	4,000		ug/kg	81.2	591-78-6	
Carbon tetrachloride	Not detected	80		ug/kg	81.2	56-23-5	
Benzene	Not detected	80		ug/kg	81.2	71-43-2	
1,2-Dichloroethane	Not detected	80		ug/kg	81.2	107-06-2	
Trichloroethene	Not detected	80		ug/kg	81.2	79-01-6	
1,2-Dichloropropane	Not detected	80		ug/kg	81.2	78-87-5	
Bromodichloromethane	Not detected	200		ug/kg	81.2	75-27-4	
Dibromomethane	Not detected	400		ug/kg	81.2	74-95-3	
cis-1,3-Dichloropropene	Not detected	80		ug/kg	81.2	10061-01-5	
Toluene	Not detected	80		ug/kg	81.2	108-88-3	
trans-1,3-Dichloropropene	Not detected	80		ug/kg	81.2	10061-02-6	
1,1,2-Trichloroethane	Not detected	80		ug/kg	81.2	79-00-5	
Tetrachloroethene	Not detected	80		ug/kg	81.2	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	80		ug/kg	81.2	110-57-6	
Dibromochloromethane	Not detected	200		ug/kg	81.2	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	81.2	106-93-4	M

M-Result reported to MDL not RDL

Lab Sample ID: S47204.01 (continued)

Sample Tag: SB-3 2-3

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 05:34, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	80		ug/kg	81.2	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	200		ug/kg	81.2	630-20-6	
Ethylbenzene	Not detected	80		ug/kg	81.2	100-41-4	
p,m-Xylene	Not detected	200		ug/kg	81.2		
o-Xylene	Not detected	80		ug/kg	81.2	95-47-6	
Styrene	Not detected	80		ug/kg	81.2	100-42-5	
Isopropylbenzene	Not detected	400		ug/kg	81.2	98-82-8	
Bromoform	Not detected	200		ug/kg	81.2	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	80		ug/kg	81.2	79-34-5	
1,2,3-Trichloropropane	Not detected	200		ug/kg	81.2	96-18-4	
n-Propylbenzene	Not detected	80		ug/kg	81.2	103-65-1	
Bromobenzene	Not detected	200		ug/kg	81.2	108-86-1	
1,3,5-Trimethylbenzene	Not detected	80		ug/kg	81.2	108-67-8	
tert-Butylbenzene	Not detected	80		ug/kg	81.2	98-06-6	
1,2,4-Trimethylbenzene	Not detected	80		ug/kg	81.2	95-63-6	
sec-Butylbenzene	Not detected	80		ug/kg	81.2	135-98-8	
p-Isopropyltoluene	Not detected	200		ug/kg	81.2	99-87-6	
1,3-Dichlorobenzene	Not detected	200		ug/kg	81.2	541-73-1	
1,4-Dichlorobenzene	Not detected	200		ug/kg	81.2	106-46-7	
1,2-Dichlorobenzene	Not detected	200		ug/kg	81.2	95-50-1	
1,2,3-Trimethylbenzene	Not detected	80		ug/kg	81.2	526-73-8	
n-Butylbenzene	Not detected	80		ug/kg	81.2	104-51-8	
Hexachloroethane	Not detected	500		ug/kg	81.2	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	400		ug/kg	81.2	96-12-8	
1,2,4-Trichlorobenzene	Not detected	540		ug/kg	81.2	120-82-1	
1,2,3-Trichlorobenzene	Not detected	540		ug/kg	81.2	87-61-6	
Naphthalene	Not detected	400		ug/kg	81.2	91-20-3	
2-Methylnaphthalene	Not detected	200		ug/kg	81.2	91-57-6	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S47204.02

Sample Tag: SB-3 9-10

Collected Date/Time: 04/06/2023 10:05

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Other / Misc.

Method: , Run Date: 04/07/23 17:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S47204.03

Sample Tag: SB-2 6-7

Collected Date/Time: 04/06/2023 10:35

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/11/23 09:35	JRH	
Extraction, PCB*	Completed	SW3546	04/11/23 13:00	DJS	
PNA Extraction*	Completed	SW3546	04/11/23 15:30	DJS	
Sample wt. (g) / Methanol (ml)*	11.367/11	SW5035A	04/10/23 12:42	ACK	

Inorganics
Method: SM2540B, Run Date: 04/07/23 18:34, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	85	1		%	1		

Metals
Method: SW6020A, Run Date: 04/11/23 11:26, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	0.23	0.20		mg/kg	240	7440-43-9	
Chromium	12.7	0.50		mg/kg	240	7440-47-3	
Lead	5.88	0.30		mg/kg	240	7439-92-1	

Organics - PCBs/Pesticides
PCB List, Method: SW8082A, Run Date: 04/12/23 11:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles
Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 00:37, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

Lab Sample ID: S47204.03 (continued)

Sample Tag: SB-2 6-7

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 00:37, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	

Organics - Volatiles
Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 05:58, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	65.7	60-29-7	
Acetone	Not detected	1,000		ug/kg	65.7	67-64-1	
Methyl iodide	Not detected	100		ug/kg	65.7	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	65.7	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	65.7	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	65.7	107-13-1	
2-Butanone (MEK)	Not detected	990		ug/kg	65.7	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	65.7	75-71-8	
Chloromethane	Not detected	300		ug/kg	65.7	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	65.7	75-01-4	
Bromomethane	Not detected	300		ug/kg	65.7	74-83-9	
Chloroethane	Not detected	300		ug/kg	65.7	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	65.7	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	65.7	75-35-4	
Methylene chloride	Not detected	100		ug/kg	65.7	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	65.7	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	65.7	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	65.7	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	65.7	109-99-9	
Chloroform	Not detected	70		ug/kg	65.7	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	65.7	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	65.7	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	65.7	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	65.7	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	65.7	56-23-5	
Benzene	Not detected	70		ug/kg	65.7	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	65.7	107-06-2	
Trichloroethene	Not detected	70		ug/kg	65.7	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	65.7	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	65.7	75-27-4	
Dibromomethane	Not detected	300		ug/kg	65.7	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	65.7	10061-01-5	
Toluene	Not detected	70		ug/kg	65.7	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	65.7	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	65.7	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	65.7	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	65.7	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	65.7	124-48-1	
1,2-Dibromoethane	Not detected	30		ug/kg	65.7	106-93-4	M

M-Result reported to MDL not RDL



Lab Sample ID: S47204.03 (continued)

Sample Tag: SB-2 6-7

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 05:58, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	70		ug/kg	65.7	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	65.7	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	65.7	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	65.7		
o-Xylene	Not detected	70		ug/kg	65.7	95-47-6	
Styrene	Not detected	70		ug/kg	65.7	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	65.7	98-82-8	
Bromoform	Not detected	100		ug/kg	65.7	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	65.7	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	65.7	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	65.7	103-65-1	
Bromobenzene	Not detected	100		ug/kg	65.7	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	65.7	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	65.7	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	65.7	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	65.7	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	65.7	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	65.7	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	65.7	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	65.7	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	65.7	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	65.7	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	65.7	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	65.7	96-12-8	
1,2,4-Trichlorobenzene	Not detected	430		ug/kg	65.7	120-82-1	
1,2,3-Trichlorobenzene	Not detected	430		ug/kg	65.7	87-61-6	
Naphthalene	Not detected	300		ug/kg	65.7	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	65.7	91-57-6	



Lab Sample ID: S47204.04

Sample Tag: SB-2 10-11

Collected Date/Time: 04/06/2023 10:40

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/11/23 09:35	JRH	
Extraction, PCB*	Completed	SW3546	04/11/23 13:00	DJS	
PNA Extraction*	Completed	SW3546	04/11/23 15:30	DJS	
Sample wt. (g) / Methanol (ml)*	10.539/10	SW5035A	04/10/23 12:42	ACK	

Inorganics

Method: SM2540B, Run Date: 04/07/23 18:34, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	87	1		%	1		

Metals

Method: SW6020A, Run Date: 04/11/23 11:27, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	0.28	0.20		mg/kg	251	7440-43-9	
Chromium	14.7	0.50		mg/kg	251	7440-47-3	
Lead	93.9	0.30		mg/kg	251	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/12/23 12:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 01:00, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	Not detected	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	Not detected	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	Not detected	300		ug/kg	10	205-99-2	
Benzo(k)fluoranthene	Not detected	300		ug/kg	10	207-08-9	
Benzo(ghi)perylene	Not detected	300		ug/kg	10	191-24-2	
Chrysene	Not detected	300		ug/kg	10	218-01-9	
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	

Lab Sample ID: S47204.04 (continued)

Sample Tag: SB-2 10-11

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 01:00, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Fluoranthene	Not detected	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	Not detected	300		ug/kg	10	85-01-8	
Pyrene	Not detected	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	

Organics - Volatiles
Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 06:22, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	200		ug/kg	62	60-29-7	
Acetone	Not detected	1,000		ug/kg	62	67-64-1	
Methyl iodide	Not detected	100		ug/kg	62	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	62	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	200		ug/kg	62	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	62	107-13-1	
2-Butanone (MEK)	Not detected	930		ug/kg	62	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	62	75-71-8	
Chloromethane	Not detected	300		ug/kg	62	74-87-3	
Vinyl chloride	Not detected	60		ug/kg	62	75-01-4	
Bromomethane	Not detected	200		ug/kg	62	74-83-9	
Chloroethane	Not detected	300		ug/kg	62	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	62	75-69-4	
1,1-Dichloroethene	Not detected	60		ug/kg	62	75-35-4	
Methylene chloride	Not detected	100		ug/kg	62	75-09-2	
trans-1,2-Dichloroethene	Not detected	60		ug/kg	62	156-60-5	
1,1-Dichloroethane	Not detected	60		ug/kg	62	75-34-3	
cis-1,2-Dichloroethene	Not detected	60		ug/kg	62	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	62	109-99-9	
Chloroform	Not detected	60		ug/kg	62	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	62	74-97-5	
1,1,1-Trichloroethane	Not detected	60		ug/kg	62	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	62	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	62	591-78-6	
Carbon tetrachloride	Not detected	60		ug/kg	62	56-23-5	
Benzene	Not detected	60		ug/kg	62	71-43-2	
1,2-Dichloroethane	Not detected	60		ug/kg	62	107-06-2	
Trichloroethene	Not detected	60		ug/kg	62	79-01-6	
1,2-Dichloropropane	Not detected	60		ug/kg	62	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	62	75-27-4	
Dibromomethane	Not detected	300		ug/kg	62	74-95-3	
cis-1,3-Dichloropropene	Not detected	60		ug/kg	62	10061-01-5	
Toluene	Not detected	60		ug/kg	62	108-88-3	
trans-1,3-Dichloropropene	Not detected	60		ug/kg	62	10061-02-6	
1,1,2-Trichloroethane	Not detected	60		ug/kg	62	79-00-5	
Tetrachloroethene	Not detected	60		ug/kg	62	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	60		ug/kg	62	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	62	124-48-1	
1,2-Dibromoethane	Not detected	20		ug/kg	62	106-93-4	M

M-Result reported to MDL not RDL



Lab Sample ID: S47204.04 (continued)

Sample Tag: SB-2 10-11

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 06:22, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Chlorobenzene	Not detected	60		ug/kg	62	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	62	630-20-6	
Ethylbenzene	Not detected	60		ug/kg	62	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	62		
o-Xylene	Not detected	60		ug/kg	62	95-47-6	
Styrene	Not detected	60		ug/kg	62	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	62	98-82-8	
Bromoform	Not detected	100		ug/kg	62	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	60		ug/kg	62	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	62	96-18-4	
n-Propylbenzene	Not detected	60		ug/kg	62	103-65-1	
Bromobenzene	Not detected	100		ug/kg	62	108-86-1	
1,3,5-Trimethylbenzene	Not detected	60		ug/kg	62	108-67-8	
tert-Butylbenzene	Not detected	60		ug/kg	62	98-06-6	
1,2,4-Trimethylbenzene	Not detected	60		ug/kg	62	95-63-6	
sec-Butylbenzene	Not detected	60		ug/kg	62	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	62	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	62	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	62	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	62	95-50-1	
1,2,3-Trimethylbenzene	Not detected	60		ug/kg	62	526-73-8	
n-Butylbenzene	Not detected	60		ug/kg	62	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	62	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	62	96-12-8	
1,2,4-Trichlorobenzene	Not detected	410		ug/kg	62	120-82-1	
1,2,3-Trichlorobenzene	Not detected	410		ug/kg	62	87-61-6	
Naphthalene	Not detected	300		ug/kg	62	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	62	91-57-6	



Lab Sample ID: S47204.05

Sample Tag: SB-1 2.5-3.5

Collected Date/Time: 04/06/2023 11:20

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3050B	04/11/23 09:35	JRH	
Extraction, PCB*	Completed	SW3546	04/11/23 13:00	DJS	
PNA Extraction*	Completed	SW3546	04/11/23 15:30	DJS	
Sample wt. (g) / Methanol (ml)*	10.690/10	SW5035A	04/10/23 12:42	ACK	

Inorganics

Method: SM2540B, Run Date: 04/07/23 18:34, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	81	1		%	1		

Metals

Method: SW6020A, Run Date: 04/11/23 11:29, Analyst: JRH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium	Not detected	0.20		mg/kg	270	7440-43-9	
Chromium	11.7	0.50		mg/kg	270	7440-47-3	
Lead	114	0.30		mg/kg	270	7439-92-1	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 04/12/23 12:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PCB-1016	Not detected	330		ug/kg	5	12674-11-2	
PCB-1242	Not detected	330		ug/kg	5	53469-21-9	
PCB-1221	Not detected	330		ug/kg	5	11104-28-2	
PCB-1232	Not detected	330		ug/kg	5	11141-16-5	
PCB-1248	Not detected	330		ug/kg	5	12672-29-6	
PCB-1254	Not detected	330		ug/kg	5	11097-69-1	
PCB-1260	Not detected	330		ug/kg	5	11096-82-5	

Organics - Semi-Volatiles

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 01:22, Analyst: PL

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acenaphthene	Not detected	300		ug/kg	10	83-32-9	
Acenaphthylene	Not detected	300		ug/kg	10	208-96-8	
Anthracene	Not detected	300		ug/kg	10	120-12-7	
Benzo(a)anthracene	700	300		ug/kg	10	56-55-3	
Benzo(a)pyrene	600	300		ug/kg	10	50-32-8	
Benzo(b)fluoranthene	1,100	300		ug/kg	10	205-99-2	p
Benzo(k)fluoranthene	1,300	300		ug/kg	10	207-08-9	p
Benzo(ghi)perylene	400	300		ug/kg	10	191-24-2	
Chrysene	800	300		ug/kg	10	218-01-9	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Lab Sample ID: S47204.05 (continued)

Sample Tag: SB-1 2.5-3.5

Polynuclear Aromatics, Method: SW8270D, Run Date: 04/14/23 01:22, Analyst: PL (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Dibenzo(ah)anthracene	Not detected	300		ug/kg	10	53-70-3	
Fluoranthene	1,400	300		ug/kg	10	206-44-0	
Fluorene	Not detected	300		ug/kg	10	86-73-7	
Indeno(1,2,3-cd)pyrene	400	300		ug/kg	10	193-39-5	
Naphthalene	Not detected	300		ug/kg	10	91-20-3	
Phenanthrene	900	300		ug/kg	10	85-01-8	
Pyrene	1,200	300		ug/kg	10	129-00-0	
2-Methylnaphthalene	Not detected	300		ug/kg	10	91-57-6	

Organics - Volatiles
Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 06:46, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	300		ug/kg	69.5	60-29-7	
Acetone	Not detected	1,000		ug/kg	69.5	67-64-1	
Methyl iodide	Not detected	100		ug/kg	69.5	74-88-4	
Carbon disulfide	Not detected	300		ug/kg	69.5	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	300		ug/kg	69.5	1634-04-4	
Acrylonitrile	Not detected	100		ug/kg	69.5	107-13-1	
2-Butanone (MEK)	Not detected	1,000		ug/kg	69.5	78-93-3	
Dichlorodifluoromethane	Not detected	300		ug/kg	69.5	75-71-8	
Chloromethane	Not detected	300		ug/kg	69.5	74-87-3	
Vinyl chloride	Not detected	70		ug/kg	69.5	75-01-4	
Bromomethane	Not detected	300		ug/kg	69.5	74-83-9	
Chloroethane	Not detected	300		ug/kg	69.5	75-00-3	
Trichlorofluoromethane	Not detected	100		ug/kg	69.5	75-69-4	
1,1-Dichloroethene	Not detected	70		ug/kg	69.5	75-35-4	
Methylene chloride	Not detected	100		ug/kg	69.5	75-09-2	
trans-1,2-Dichloroethene	Not detected	70		ug/kg	69.5	156-60-5	
1,1-Dichloroethane	Not detected	70		ug/kg	69.5	75-34-3	
cis-1,2-Dichloroethene	Not detected	70		ug/kg	69.5	156-59-2	
Tetrahydrofuran*	Not detected	1,000		ug/kg	69.5	109-99-9	
Chloroform	Not detected	70		ug/kg	69.5	67-66-3	
Bromochloromethane	Not detected	100		ug/kg	69.5	74-97-5	
1,1,1-Trichloroethane	Not detected	70		ug/kg	69.5	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	3,000		ug/kg	69.5	108-10-1	
2-Hexanone	Not detected	3,000		ug/kg	69.5	591-78-6	
Carbon tetrachloride	Not detected	70		ug/kg	69.5	56-23-5	
Benzene	Not detected	70		ug/kg	69.5	71-43-2	
1,2-Dichloroethane	Not detected	70		ug/kg	69.5	107-06-2	
Trichloroethene	Not detected	70		ug/kg	69.5	79-01-6	
1,2-Dichloropropane	Not detected	70		ug/kg	69.5	78-87-5	
Bromodichloromethane	Not detected	100		ug/kg	69.5	75-27-4	
Dibromomethane	Not detected	300		ug/kg	69.5	74-95-3	
cis-1,3-Dichloropropene	Not detected	70		ug/kg	69.5	10061-01-5	
Toluene	Not detected	70		ug/kg	69.5	108-88-3	
trans-1,3-Dichloropropene	Not detected	70		ug/kg	69.5	10061-02-6	
1,1,2-Trichloroethane	Not detected	70		ug/kg	69.5	79-00-5	
Tetrachloroethene	Not detected	70		ug/kg	69.5	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	70		ug/kg	69.5	110-57-6	
Dibromochloromethane	Not detected	100		ug/kg	69.5	124-48-1	

Lab Sample ID: S47204.05 (continued)

Sample Tag: SB-1 2.5-3.5

Volatile Organics 5035, Method: SW5035A/8260C, Run Date: 04/11/23 06:46, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
1,2-Dibromoethane	Not detected	30		ug/kg	69.5	106-93-4	M
Chlorobenzene	Not detected	70		ug/kg	69.5	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	100		ug/kg	69.5	630-20-6	
Ethylbenzene	Not detected	70		ug/kg	69.5	100-41-4	
p,m-Xylene	Not detected	100		ug/kg	69.5		
o-Xylene	Not detected	70		ug/kg	69.5	95-47-6	
Styrene	Not detected	70		ug/kg	69.5	100-42-5	
Isopropylbenzene	Not detected	300		ug/kg	69.5	98-82-8	
Bromoform	Not detected	100		ug/kg	69.5	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	70		ug/kg	69.5	79-34-5	
1,2,3-Trichloropropane	Not detected	100		ug/kg	69.5	96-18-4	
n-Propylbenzene	Not detected	70		ug/kg	69.5	103-65-1	
Bromobenzene	Not detected	100		ug/kg	69.5	108-86-1	
1,3,5-Trimethylbenzene	Not detected	70		ug/kg	69.5	108-67-8	
tert-Butylbenzene	Not detected	70		ug/kg	69.5	98-06-6	
1,2,4-Trimethylbenzene	Not detected	70		ug/kg	69.5	95-63-6	
sec-Butylbenzene	Not detected	70		ug/kg	69.5	135-98-8	
p-Isopropyltoluene	Not detected	100		ug/kg	69.5	99-87-6	
1,3-Dichlorobenzene	Not detected	100		ug/kg	69.5	541-73-1	
1,4-Dichlorobenzene	Not detected	100		ug/kg	69.5	106-46-7	
1,2-Dichlorobenzene	Not detected	100		ug/kg	69.5	95-50-1	
1,2,3-Trimethylbenzene	Not detected	70		ug/kg	69.5	526-73-8	
n-Butylbenzene	Not detected	70		ug/kg	69.5	104-51-8	
Hexachloroethane	Not detected	400		ug/kg	69.5	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	300		ug/kg	69.5	96-12-8	
1,2,4-Trichlorobenzene	Not detected	460		ug/kg	69.5	120-82-1	
1,2,3-Trichlorobenzene	Not detected	460		ug/kg	69.5	87-61-6	
Naphthalene	Not detected	300		ug/kg	69.5	91-20-3	
2-Methylnaphthalene	Not detected	100		ug/kg	69.5	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S47204.06

Sample Tag: SB-1 9-10

Collected Date/Time: 04/06/2023 11:25

Matrix: Soil

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	3.4	IR
1	4oz Glass	None	Yes	3.4	IR

Other / Misc.

Method: , Run Date: 04/07/23 17:00, Analyst: MMC

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Hold until notified*	Completed				1		

Lab Sample ID: S47204.07

Sample Tag: TMW-2

Collected Date/Time: 04/06/2023 10:45

Matrix: Groundwater

COC Reference: 153160

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	3.4	IR
1	125ml Plastic	HNO3	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
pH check for VOCs*	<2	N/A	04/11/23 10:17	ACK	
Metal Digestion	Completed	SW3015A	04/11/23 10:15	CCM	
Metal Digestion (Replicate 01)	Completed	SW3015A	04/18/23 10:10	CCM	

Metals
Method: E200.8, Run Date: 04/18/23 11:28, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead, Dissolved (Replicate 01)	0.011	0.003		mg/L	5		

Method: E200.8, Run Date: 04/11/23 13:04, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Cadmium, Dissolved	Not detected	0.0005		mg/L	5	7440-43-9	
Chromium, Dissolved	Not detected	0.005		mg/L	5	7440-47-3	
Lead, Dissolved	0.012	0.003		mg/L	5	7439-92-1	

Organics - Volatiles
Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 04/11/23 00:47, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	10		ug/L	1	60-29-7	
Acetone	286	50		ug/L	1	67-64-1	E
Methyl iodide	Not detected	1		ug/L	1	74-88-4	
Carbon disulfide	Not detected	5		ug/L	1	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	5		ug/L	1	1634-04-4	
Acrylonitrile	Not detected	2		ug/L	1	107-13-1	
2-Butanone (MEK)	Not detected	25		ug/L	1	78-93-3	
Dichlorodifluoromethane	Not detected	5		ug/L	1	75-71-8	
Chloromethane	Not detected	5		ug/L	1	74-87-3	
Vinyl chloride	Not detected	1		ug/L	1	75-01-4	
Bromomethane	Not detected	5		ug/L	1	74-83-9	
Chloroethane	Not detected	5		ug/L	1	75-00-3	
Trichlorofluoromethane	Not detected	1		ug/L	1	75-69-4	
1,1-Dichloroethene	Not detected	1		ug/L	1	75-35-4	
Methylene chloride	Not detected	5		ug/L	1	75-09-2	
trans-1,2-Dichloroethene	Not detected	1		ug/L	1	156-60-5	
1,1-Dichloroethane	Not detected	1		ug/L	1	75-34-3	
cis-1,2-Dichloroethene	Not detected	1		ug/L	1	156-59-2	
Tetrahydrofuran*	Not detected	90		ug/L	1	109-99-9	
Chloroform	Not detected	1		ug/L	1	67-66-3	
Bromochloromethane	Not detected	1		ug/L	1	74-97-5	
1,1,1-Trichloroethane	Not detected	1		ug/L	1	71-55-6	

E-Concentration exceeds calibration range



Lab Sample ID: S47204.07 (continued)

Sample Tag: TMW-2

Volatile Organics - DEQ List, Method: SW5030C/8260C, Run Date: 04/11/23 00:47, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4-Methyl-2-pentanone (MIBK)	Not detected	50		ug/L	1	108-10-1	
2-Hexanone	Not detected	50		ug/L	1	591-78-6	
Carbon tetrachloride	Not detected	1		ug/L	1	56-23-5	
Benzene	Not detected	1		ug/L	1	71-43-2	
1,2-Dichloroethane	Not detected	1		ug/L	1	107-06-2	
Trichloroethene	Not detected	1		ug/L	1	79-01-6	
1,2-Dichloropropane	Not detected	1		ug/L	1	78-87-5	
Bromodichloromethane	Not detected	1		ug/L	1	75-27-4	
Dibromomethane	Not detected	5		ug/L	1	74-95-3	
cis-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-01-5	
Toluene	Not detected	1		ug/L	1	108-88-3	
trans-1,3-Dichloropropene	Not detected	1		ug/L	1	10061-02-6	
1,1,2-Trichloroethane	Not detected	1		ug/L	1	79-00-5	
Tetrachloroethene	Not detected	1		ug/L	1	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	1		ug/L	1	110-57-6	
Dibromochloromethane	Not detected	5		ug/L	1	124-48-1	
1,2-Dibromoethane	Not detected	1		ug/L	1	106-93-4	
Chlorobenzene	Not detected	1		ug/L	1	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	1		ug/L	1	630-20-6	
Ethylbenzene	Not detected	1		ug/L	1	100-41-4	
p,m-Xylene*	Not detected	2		ug/L	1		
o-Xylene	Not detected	1		ug/L	1	95-47-6	
Styrene	Not detected	1		ug/L	1	100-42-5	
Isopropylbenzene	Not detected	5		ug/L	1	98-82-8	
Bromoform	Not detected	1		ug/L	1	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	1		ug/L	1	79-34-5	
1,2,3-Trichloropropane	Not detected	1		ug/L	1	96-18-4	
n-Propylbenzene	Not detected	1		ug/L	1	103-65-1	
Bromobenzene	Not detected	1		ug/L	1	108-86-1	
1,3,5-Trimethylbenzene	Not detected	1		ug/L	1	108-67-8	
tert-Butylbenzene	Not detected	1		ug/L	1	98-06-6	
1,2,4-Trimethylbenzene	Not detected	1		ug/L	1	95-63-6	
sec-Butylbenzene	Not detected	1		ug/L	1	135-98-8	
p-Isopropyltoluene	Not detected	5		ug/L	1	99-87-6	
1,3-Dichlorobenzene	Not detected	1		ug/L	1	541-73-1	
1,4-Dichlorobenzene	Not detected	1		ug/L	1	106-46-7	
1,2-Dichlorobenzene	Not detected	1		ug/L	1	95-50-1	
1,2,3-Trimethylbenzene	Not detected	1		ug/L	1	526-73-8	
n-Butylbenzene	Not detected	1		ug/L	1	104-51-8	
Hexachloroethane	Not detected	5		ug/L	1	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	5		ug/L	1	96-12-8	
1,2,4-Trichlorobenzene	Not detected	5		ug/L	1	120-82-1	
1,2,3-Trichlorobenzene	Not detected	5		ug/L	1	87-61-6	
Naphthalene	Not detected	5		ug/L	1	91-20-3	
2-Methylnaphthalene	Not detected	5		ug/L	1	91-57-6	

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 04/12/23 15:29, Analyst: KAG

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Diethyl ether	Not detected	50		ug/L	5	60-29-7	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S47204.07 (continued)

Sample Tag: TMW-2

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 04/12/23 15:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Acetone	130	130		ug/L	5	67-64-1	Y
Methyl iodide	Not detected	5		ug/L	5	74-88-4	Y
Carbon disulfide	Not detected	30		ug/L	5	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	30		ug/L	5	1634-04-4	Y
Acrylonitrile	Not detected	10		ug/L	5	107-13-1	Y
2-Butanone (MEK)	Not detected	130		ug/L	5	78-93-3	Y
Dichlorodifluoromethane	Not detected	30		ug/L	5	75-71-8	Y
Chloromethane	Not detected	30		ug/L	5	74-87-3	Y
Vinyl chloride	Not detected	5		ug/L	5	75-01-4	Y
Bromomethane	Not detected	30		ug/L	5	74-83-9	Y
Chloroethane	Not detected	30		ug/L	5	75-00-3	Y
Trichlorofluoromethane	Not detected	5		ug/L	5	75-69-4	Y
1,1-Dichloroethene	Not detected	5		ug/L	5	75-35-4	Y
Methylene chloride	Not detected	30		ug/L	5	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	5		ug/L	5	156-60-5	Y
1,1-Dichloroethane	Not detected	5		ug/L	5	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	5		ug/L	5	156-59-2	Y
Tetrahydrofuran*	Not detected	450		ug/L	5	109-99-9	Y
Chloroform	Not detected	5		ug/L	5	67-66-3	Y
Bromochloromethane	Not detected	5		ug/L	5	74-97-5	Y
1,1,1-Trichloroethane	Not detected	5		ug/L	5	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	250		ug/L	5	108-10-1	Y
2-Hexanone	Not detected	250		ug/L	5	591-78-6	Y
Carbon tetrachloride	Not detected	5		ug/L	5	56-23-5	Y
Benzene	Not detected	5		ug/L	5	71-43-2	Y
1,2-Dichloroethane	Not detected	5		ug/L	5	107-06-2	Y
Trichloroethene	Not detected	5		ug/L	5	79-01-6	Y
1,2-Dichloropropane	Not detected	5		ug/L	5	78-87-5	Y
Bromodichloromethane	Not detected	5		ug/L	5	75-27-4	Y
Dibromomethane	Not detected	30		ug/L	5	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	5		ug/L	5	10061-01-5	Y
Toluene	Not detected	5		ug/L	5	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	5		ug/L	5	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	5		ug/L	5	79-00-5	Y
Tetrachloroethene	Not detected	5		ug/L	5	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	5		ug/L	5	110-57-6	Y
Dibromochloromethane	Not detected	30		ug/L	5	124-48-1	Y
1,2-Dibromoethane	Not detected	5		ug/L	5	106-93-4	Y
Chlorobenzene	Not detected	5		ug/L	5	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	5		ug/L	5	630-20-6	Y
Ethylbenzene	Not detected	5		ug/L	5	100-41-4	Y
p,m-Xylene*	Not detected	10		ug/L	5		Y
o-Xylene	Not detected	5		ug/L	5	95-47-6	Y
Styrene	Not detected	5		ug/L	5	100-42-5	Y
Isopropylbenzene	Not detected	30		ug/L	5	98-82-8	Y
Bromoform	Not detected	5		ug/L	5	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	5		ug/L	5	79-34-5	Y
1,2,3-Trichloropropane	Not detected	5		ug/L	5	96-18-4	Y
n-Propylbenzene	Not detected	5		ug/L	5	103-65-1	Y

Y-Elevated reporting limit due to high target concentration



Lab Sample ID: S47204.07 (continued)

Sample Tag: TMW-2

Volatile Organics - DEQ List (Replicate 01), Method: SW5030C/8260C, Run Date: 04/12/23 15:29, Analyst: KAG (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Bromobenzene	Not detected	5		ug/L	5	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	5		ug/L	5	108-67-8	Y
tert-Butylbenzene	Not detected	5		ug/L	5	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	5		ug/L	5	95-63-6	Y
sec-Butylbenzene	Not detected	5		ug/L	5	135-98-8	Y
p-Isopropyltoluene	Not detected	30		ug/L	5	99-87-6	Y
1,3-Dichlorobenzene	Not detected	5		ug/L	5	541-73-1	Y
1,4-Dichlorobenzene	Not detected	5		ug/L	5	106-46-7	Y
1,2-Dichlorobenzene	Not detected	5		ug/L	5	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	5		ug/L	5	526-73-8	Y
n-Butylbenzene	Not detected	5		ug/L	5	104-51-8	Y
Hexachloroethane	Not detected	30		ug/L	5	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	30		ug/L	5	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	30		ug/L	5	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	30		ug/L	5	87-61-6	Y
Naphthalene	Not detected	30		ug/L	5	91-20-3	Y
2-Methylnaphthalene	Not detected	30		ug/L	5	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Login Checklist

Lab Set ID:S47204

Attention: Aaron Snow

Address: PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Client:PME02 (PM Environmental, Inc. - Berkley)

Project: 01-13624-0-0002 / St. Patrick's Senior Ctr

Submitted:04/07/2023 10:00 Login User: MMC

Phone: O:248-414-1424 FAX:

Email: aaron.snow@pmenv.com

Selection	Description	Note
-----------	-------------	------

Sample Receiving

- | | | |
|-----|--|--|
| 01. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 3.4 |
| 02. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S47204 Submitted: 04/07/2023 10:00

Client: PME02 (PM Environmental, Inc. - Berkley)

Project: 01-13624-0-0002 / St. Patrick's Senior Ctr

Initial Preservation Check: 04/07/2023 11:15 MMC

Preservation Recheck (E200.8): N/A

Attention: Aaron Snow

Address: PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Phone: O:248-414-1424 FAX:

Email: aaron.snow@pmenv.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S47204.07	125ml Plastic HNO3	<2			



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1 153160

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Aaron Snow
 COMPANY: PM Environmental
 ADDRESS: 4080 W. Eleven Mile Rd.
 CITY: Berkley STATE: MI ZIP CODE: 48072
 PHONE NO. CELL NO. P.O. NO. E-MAIL ADDRESS: Aaron.Snow@pmenv.com
 QUOTE NO.

CONTACT NAME: SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO. E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: 01-13024-0-0002 / St. Patrick's Senior Ctr SAMPLER(S) - PLEASE PRINT/SIGN NAME: Laura Smoody, Aaron Snow
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE

# Containers & Preservatives		VOCs	PNAs	PCBs	Cd	Cr	Pb
NONE	HCl						
HNO ₃	H ₂ SO ₄						
NaOH	MeOH						
OTHER							

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives														
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER								
47204.01	4/6/23	1000	SB-3 2-3	S	2	1														
.02		1005	SB-3 9-10	S	2	1														
.03		1035	SB-2 6-7	S	2	1														
.04		1040	SB-2 10-11	S	2	1														
.05		1120	SB-1 2.5-3.5	S	2	1														
.06		1125	SB-1 9-10	S	2	1														
.07		1045	TMW-2	GW	3	1	X													

HOLD

HOLD

~~HOLD~~ RUN no PCBs/PNAs

RELINQUISHED BY: Laura Smoody Sampler DATE: 04/06/2023 TIME: 1410
 RECEIVED BY: PM Cold Storage DATE: 04/06/2023 TIME: 1400
 RELINQUISHED BY: [Signature] DATE: 4/11/23 TIME: 0815
 RECEIVED BY: [Signature]

RELINQUISHED BY: [Signature] DATE: 4/11/23 TIME: 1000
 RECEIVED BY: [Signature] DATE: 4/7/23 TIME: 1000
 SEAL NO. SEAL INTACT YES NO INITIALS: _____ NOTES: TEMP. ON ARRIVAL: 3.4
 SEAL NO. SEAL INTACT YES NO INITIALS: _____



Analytical Laboratory Report

Report ID: S48421.01(01)
Generated on 05/11/2023

Report to

Attention: Aaron Snow
PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Phone: O:248-414-1424 C:248-760-4159 FAX:
Email: aaron.snow@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S48421.01
Project: 01-13624-0-0002 / St. Patrick's Senior Center
Collected Date(s): 05/09/2023
Submitted Date/Time: 05/10/2023 14:30
Sampled by: Monica Dostert
P.O. #: 01-13624-0-0002

Table of Contents

Cover Page (Page 1)
General Report Notes (Page 2)
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Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
SW3015A	SW 846 Method 3015A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48421.01	TMW-2	Groundwater	05/09/23 11:15



Analytical Laboratory Report

Lab Sample ID: S48421.01

Sample Tag: TMW-2

Collected Date/Time: 05/09/2023 11:15

Matrix: Groundwater

COC Reference: 160545

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	3.4	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	05/11/23 11:40	CCM	

Metals

Method: E200.8, Run Date: 05/11/23 13:20, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Lead, Dissolved	0.003	0.003		mg/L	5	7439-92-1	

Merit Laboratories Login Checklist

Lab Set ID:S48421

Attention: Aaron Snow

Address: PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Client:PME02 (PM Environmental, Inc. - Berkley)

Project: 01-13624-0-0002 / St. Patrick's Senior Center

Submitted:05/10/2023 14:30 Login User: MMC

Phone: O:248-414-1424 FAX:
Email: aaron.snow@pmenv.com

Selection	Description	Note
-----------	-------------	------

Sample Receiving

- | | | |
|-----|--|--|
| 01. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 3.4 |
| 02. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S48421 Submitted: 05/10/2023 14:30
Client: PME02 (PM Environmental, Inc. - Berkley)
Project: 01-13624-0-0002 / St. Patrick's Senior Center
Initial Preservation Check: 05/10/2023 15:16 MMC
Preservation Recheck (E200.8): N/A

Attention: Aaron Snow
Address: PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Phone: O:248-414-1424 FAX:
Email: aaron.snow@pmenv.com

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S48421.01	125ml Plastic HNO3	<2			



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

160545

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Aaron Snow
 COMPANY: PM Environmental
 ADDRESS: 4080 Will Mile Rd
 CITY: Berkley STATE: MI ZIP CODE: 48072
 PHONE NO.: CELL NO.: P.O. NO.:
 E-MAIL ADDRESS: aaron.snow@pmenv.com QUOTE NO.:

CONTACT NAME: [X] SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: E-MAIL ADDRESS:

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: 01-13024-0-0002 St. Patrick's Senior Center
 SAMPLER(S) - PLEASE PRINT/SIGN NAME: Monica Bostert
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other
 Special Instructions

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	Rad
	DATE	TIME											
48421.01	5/9/23	11:5	TMW-2	GWL	1			1					X

RELINQUISHED BY: [Signature] / PM DATE: 5/9/23 TIME: [Blank]
 SIGNATURE/ORGANIZATION: [Signature] / PM Storage
 RECEIVED BY: [Signature] DATE: 5/10/23 TIME: 11:30
 SIGNATURE/ORGANIZATION: [Signature]

RELINQUISHED BY: [Signature] DATE: 5/10/23 TIME: [Blank]
 SIGNATURE/ORGANIZATION: [Signature]
 SEAL NO.: [Blank] SEAL INTACT: YES [X] NO [] INITIALS: [Signature]
 SEAL NO.: [Blank] SEAL INTACT: YES [X] NO [] INITIALS: [Signature]
 NOTES: 5-10-23 1430
 TEMP. ON ARRIVAL: 3.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE