

**DRAFT**

# FILL MATERIAL SAMPLING REPORT

5251 ST. CLAIR STREET  
DETROIT, WAYNE COUNTY, MICHIGAN 48214



FEBRUARY 12, 2026

PREPARED FOR:

**THE CITY OF DETROIT DEMOLITION DEPARTMENT**

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



# FILL MATERIAL SAMPLING REPORT

5251 ST. CLAIR STREET  
DETROIT, WAYNE COUNTY, MICHIGAN 48214

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## EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 5251 St. Clair Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

This Executive Summary is provided to summarize the results of the work performed at the Site. The Executive Summary is general in nature and should not be used to replace or be considered apart from the entirety of this report.

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Sample analyses associated with this work included volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

Pursuant to a request by the COD, MSG has completed sampling and analysis of fill material at the Site, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Results of this work, which are subject to the limitations presented in *Appendix A, Limitations*, incorporated by reference herewith, revealed the following:

- The stratigraphy encountered during soil boring advancement of 5251 SB01, 5251 SB02, and 5251 SB03 generally consisted of tan to dark brown and gray silty clay, sand, and gravel to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and/or slag debris was observed in 5251 SB01 and/or 5251 SB02.
- Concentrations of arsenic were detected in soil sample 5251 SB03 (5-6')\_20260116 in excess of Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and direct contact criteria (DCC).
- Concentrations of 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chloride, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 5251 SB01 (3-4')\_20260116, 5251 SB02 (1-2')\_20260116, and/or 5251 SB03 (5-6')\_20260116 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

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## 1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 5251 St. Clair Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on January 16, 2026. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

At the time of this investigation, the Site was vacant and formerly occupied by residential structures. Former Site building(s) had been demolished as part of the Blight Removal Program prior to commencement of this work.

## 2.0 PURPOSE AND SCOPE OF WORK

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (when necessary) based on encountered conditions and professional judgment of the MSG field geologist.

MSG performed the following scope of work in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025:

- Advanced three (3) onsite soil borings to a maximum depth of six feet below ground surface (bgs) utilizing a direct push drill rig at the locations depicted on Figure 2.
- Collected one (1) discrete soil sample for laboratory analysis from each soil boring at a depth of 1-2 feet bgs, 3-4 feet bgs, or 5-6 feet bgs, depending on the soil boring.
- Submitted soil samples to an independent analytical laboratory for chemical analysis.
- Prepared this report summarizing the activities and results of this work.

Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, sample analyses included volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Soil sample analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

## 3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on January 16, 2026. A daily field activity report prepared by MSG is presented in *Appendix B, Daily Field Report*.

### 3.1 Preliminary Site Work Activities

Prior to conducting subsurface soil sampling activities, MSG contacted the MISSDIG utility locating system to identify and physically mark underground utilities. If necessary, proposed soil boring locations were modified based on the results of the utility markings. Additionally, MSG reviewed readily available Site building records or documents to ensure that this scope of work was conducted on the correct property and in the areas of the former Site structure.

### 3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 5251 SB01, 5251 SB02, and 5251 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the completion of this work are provided in *Appendix C, Investigation Photographs*.

Soils were continuously profiled at each soil boring location from the ground surface to the termination depth of six feet bgs using a 5-foot long, closed-piston Macro-Core® sampling device. A new disposable high-density polyethylene (HDPE) liner was placed within the sampler between each 5-foot sample interval. The recovered soil samples were examined and logged in the field by the MSG field geologist. The soils were classified by MSG's field geologist in general accordance with *ASTM D 2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*. Soil descriptions were based on visual examination and interpretation by the field geologist.

Soil samples were examined for visual and olfactory indications of impact in accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and were continuously screened upon retrieval of each sample interval with a MiniRAE 10.6 electron volt (eV) photoionization detector (PID) calibrated with isobutylene span gas. The PID measures the concentration of airborne ionizable gasses and vapors and automatically displays any detected concentrations in parts per million (PPM). The PID measures total concentrations of VOC vapors present and cannot distinguish between individual VOC constituents. PID readings for each sample interval were recorded on the individual soil boring logs, which are included in *Appendix D, Soil Boring Logs*.

Soil samples were collected in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The soil samples were placed into appropriate pre-preserved and unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses. Soil samples collected for VOC analysis were placed in laboratory supplied pre-tared 40-milliliter (ml) vials with septum-sealed threaded caps that were pre-preserved with methanol provided by the analytical laboratory. Groundwater was not encountered during the investigation.

### 3.3 Decontamination

Before initiation of sampling and drilling activities and between each sampling/soil boring, equipment was cleaned to avoid the potential for cross-contamination during field activities. Pertinent equipment and tooling were thoroughly cleaned using a phosphate-free soap to remove chemical residue and caked-on soils. After sample collection was completed, each soil boring location was abandoned with the soil cuttings generated at each soil boring location and finished to match the original surface.

### 3.4 Analytical Methods

A total of three (3) soil samples designated 5251 SB01 (3-4') \_20260116, 5251 SB02 (1-2') \_20260116, and 5251 SB03 (5-6') \_20260116, were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025:

- VOCs by United States Environmental Protection Agency (USEPA) Method SW8260D;
- SVOCs by USEPA Method SW8270E;
- PCBs by USEPA Method SW8082A;
- 10 Michigan metals by USEPA Method SW6020B and SW7471B;
- Chloride by USEPA Method SW9056A;
- Herbicides by USEPA Method SW8151A; and
- Pesticides by USEPA Method SW8081B.

### 3.5 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was achieved in the field by using MSG's standard operating procedures (SOPs) for sample collection, sample screening, sample preservation, and chain-of-custody protocols to ensure sample integrity. Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, duplicate soil samples and field blanks were not collected.

Laboratory QC was achieved by using standard analytical methods, the analyses of spiked and laboratory quality control samples, and the use of internal laboratory quality assurance protocols. Review of the laboratory's QC data indicated the validity of the data and that it is able to be used for assessing soil samples collected during this work.

## 4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on January 16, 2026.

### 4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 5251 SB01, 5251 SB02, and 5251 SB03 generally consisted of tan to dark brown and gray silty clay, sand, and gravel to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and/or slag debris was observed in 5251 SB01 and 5251 SB02.

Groundwater was not encountered during soil boring activities completed as part of this investigation.

### 4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 5251 SB01 (3-4')\_20260116, 5251 SB02 (1-2')\_20260116, and 5251 SB03 (5-6')\_20260116, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

The analytical results and comparisons to applicable Part 201 GRCC are summarized in *Table 1, Soil Sample Analytical Detection Summary*. Copies of the laboratory analytical data reports and chain of custody forms are included in *Appendix E, Laboratory Analytical Reports and Chain of Custody Forms*.

A summary of the soil sample analytical detections in excess of Part 201 GRCC is provided below:

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ( $\mu\text{g}/\text{kg}^1$ )	Maximum Detected Concentration ( $\mu\text{g}/\text{kg}$ )
Arsenic	7440-38-2	5251 SB03 (5-6')_20260116	GSIPC <sup>2</sup> / 4,600 DWPC <sup>3</sup> / 4,600 DCC <sup>4</sup> / 7,600	11,000

<sup>1</sup> $\mu\text{g}/\text{kg}$  – micrograms per kilogram;

<sup>2</sup>GSIPC – Groundwater Surface Water Interface Protection Criteria

<sup>3</sup>DWPC – Drinking Water Protection Criteria

<sup>4</sup>DCC – Direct Contact Criteria

### 4.3 Exposure Evaluation

MSG has completed a preliminary evaluation for the Site and associated exposure pathways. Cleanup criteria are applicable if it is reasonable and relevant for the corresponding exposure pathway to be or become complete.

Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

## 5.0 FINDINGS

MSG has evaluated the analytical results of the fill material samples collected at the Site in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The findings of this investigation are presented below:

- The stratigraphy encountered during soil boring advancement of 5251 SB01, 5251 SB02, and 5251 SB03 generally consisted of tan to dark brown and gray silty clay, sand, and gravel to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and/or slag debris was observed in 5251 SB01 and/or 5251 SB02.
- Concentrations of arsenic were detected in soil sample 5251 SB03 (5-6')\_20260116 in excess of Part 201 GSIPC, DWPC, and DCC.
- Concentrations of 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chloride, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 5251 SB01 (3-4')\_20260116, 5251 SB02 (1-2')\_20260116, and/or 5251 SB03 (5-6')\_20260116 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

## FIGURES





Date Saved: 1/8/2026 11:31 AM Coordinate System: GCS WGS 1984  
 Path: W:\Projects\Projects A-E\DETR0060\ENG\APPSP\GIS\21\_QQ\_6.17.2025 Backfill Sampling\DETR0060\_Backfill\_Sampling.aprx



★ Site Location

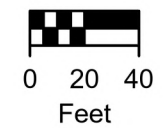
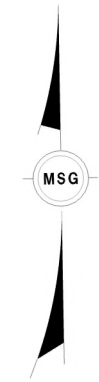


**FIGURE 1**  
 SITE LOCATION

5251 St Clair, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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Date Saved: 1/6/2026 8:15 PM  
Path: W:\Projects\Projects A-E\DETR0060\ENGAPPS\GIS\21\_QQ 6.17.2025 Backfill Sampling\DETR0060\_Backfill\_Sampling.aprx



- Sample Locations
- - - Parcels (Current)
- - - Subject Property

**Notes**  
• Parcel boundaries are approximate  
• Basemap Credits: SampleLocations:  
GPS\_Test:  
All Roads:  
Parcels (Current):  
Wayne - 2020 - 6in - 4-band:



**FIGURE 2**  
Site Layout

5251 St Clair, Detroit, MI

DATE 1/6/2026	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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## TABLE



**Table 1  
Soil Sample Analytical Detection Summary**

**Detroit Backfill Sampling  
5251 St Clair, Detroit, Michigan**

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 and Volatilization to Indoor Air Pathway Screening Levels Revised February 26, 2024	Inorganic Anions/Ions	Metals							Semivolatile Organic Compounds (SVOCs)												Volatile Organic Compounds (VOCs)			
	Chloride	Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	1-Methylnaphthalene	2-Methylnaphthalene	Anthracene	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	1,2,4-Trimethylbenzene		
CAS Number	16887-00-6	7440-38-2	7440-39-3	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	90-12-0	91-57-6	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	206-44-0	193-39-5	85-01-8	129-00-0	95-63-6		
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Statewide Default Background Levels	NC	5,800	75,000	18,000	32,000	21,000	130	47,000	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		
Drinking Water Protection Criteria (DWPC)	5.00E+06	4,600	1.30E+06	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	NC	57,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	56,000	4.80E+05	2,100		
Groundwater Surface Water Interface Protection Criteria (GSIPC)	NC	4,600	4.40E+05 <sup>(G)</sup>	3,300	75,000 <sup>(G)</sup>	6.00E+06 <sup>(G)</sup>	50 <sup>(M,1,2)</sup>	1.60E+05	NC	4,200	ID	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID	570		
Soil Volatilization to Indoor Air Inhalation (SVIIC)	NC	NLV	NLV	NC	NLV	NLV	48,000	NC	NC	2.70E+06	1.00E+09	NLV	NLV	ID	NLV	NLV	ID	1.00E+09	NLV	2.80E+06	1.00E+09	4.30E+06		
Soil Volatilization to Indoor Air Pathway (SVIAP)	NC	NC	NC	NC	NC	NC	22 <sup>(M)</sup>	NC	NC	1,700	1.30E+07	1.60E+05 <sup>(M)</sup>	NC	NC	NC	NC	NC	NC	NC	1,700	2.50E+07	150		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	2.10E+07		
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	5.00E+08		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	7.40E+08	NLV	1.60E+05	6.50E+08	5.00E+08		
Particulate Soil Inhalation Criteria (PSIC)	NC	7.20E+05	3.30E+08	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	NC	6.70E+08	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	ID	9.30E+09	ID	6.70E+06	6.70E+09	8.20E+10		
Direct Contact Criteria (DCC)	5.00E+05	7,600	3.70E+07	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	NC	8.10E+06	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.00E+06	4.60E+07	20,000	1.60E+06	2.90E+07	3.20E+07		
Soil Saturation Concentration Screening Levels (Csat)	NC	NA	NA	NC	NA	NA	NA	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10E+05		
Sample ID	Sample Depth (ft)	Sample Date																						
5251 SB01	3.0 - 4.0	01/16/2026	<b>67,200</b>	<b>4,370</b>	<b>30,800</b>	<b>10,000</b>	<b>11,300</b>	<b>30,000</b>	<b>43.6</b>	<b>41,400</b>	<132	<93	<129	<158	<112	<136	<140	<139	<148	<87.8	<127	<85	<b>201</b>	<b>44.7</b>
5251 SB02	1.0 - 2.0	01/16/2026	<b>27,600</b>	<b>3,370</b>	<b>74,200</b>	<b>16,700</b>	<b>11,900</b>	<b>28,100</b>	<b>35.1</b>	<b>42,300</b>	<b>106</b>	<b>125</b>	<b>115</b>	<b>384</b>	<b>355</b>	<b>442</b>	<b>326</b>	<b>182</b>	<b>240</b>	<b>499</b>	<b>326</b>	<b>259</b>	<b>566</b>	<30.7
5251 SB03	5.0 - 6.0	01/16/2026	<b>34,100</b>	<b>11,000</b>	<b>147,000</b>	<b>18,000</b>	<b>15,800</b>	<b>12,400</b>	<b>33.4</b>	<b>49,100</b>	<13.8	<9.75	<13.5	<16.6	<11.8	<14.3	<14.7	<14.5	<15.5	<9.2	<13.3	<8.91	<9.56	<32.2

**Notes**

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation Criteria/Screening Levels.

Exceeds PSIC, DCC, and/or Csat, likely exceeds others.

**Bold** indicates concentration above laboratory reporting limits.

NC = No Criteria; NA = Not Applicable; NLV = Not Likely to Volatize; NLL = Not Likely to Leach.

Part 201 GSIPC Hardness specific criteria (G) calculated using a regional hardness value of the lower portion of the lower peninsula, 150 mg CaCO3/L.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023.

# APPENDIX A

## LIMITATIONS



## LIMITATIONS

This investigation and related documentation are site-specific, which means they pertain to the environmental conditions of the Site only.

The Mannik & Smith Group, Inc. (MSG) performed its services associated with the investigation in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. In preparing this report, MSG may have relied on information obtained from or provided by others. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in these reports are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

Contaminants may be hidden in subsurface material, covered by pavement, vegetation, or other substances. Additionally, contamination may not be present in predictable locations. MSG has prepared a logical investigation program to reduce the client's risk of discovering unknown contamination. This risk may be reduced by more extensive exploration on the Site. Even with additional exploration, it is not possible to completely eliminate the risk of discovering contamination on the Site. It can not be assumed that samples collected and conditions observed are representative of an area that has not been sampled and/or tested.

Some environmental assessments are undertaken to satisfy "due diligence", "all appropriate inquiry," or other regulatory requirements provided in federal, state, or local law. Although MSG strives to investigate a site in accordance with the scope of work as defined by written agreement with a client, it cannot warrant that the work undertaken for this report with satisfy "due diligence", "all appropriate inquiry," or any other similar standard under any federal, state, or local law.

Due to changing environmental regulatory conditions and potential on-site activities after the completion of investigation, the client may rely upon the conditions within this investigation report for a period of six months from the report's issuance date.

**APPENDIX B**

DAILY FIELD REPORT





**DAILY FIELD REPORT**

**Client:** City of Detroit Demolition Department  
**Project:** Sampling and Analysis of Fill Material

**Report No.:** 1  
**Job No.:** DETR0060

**Date:** 01/16/2026 **Day:** Friday **Temp:** 25 (AM) 20 (PM)  
**MSG Personnel:** ZDK, BM **Cloud Cover:** 80% (AM) 100% (PM)  
**Precipitation:** Flurries (AM) None (PM)

**EGLE Personnel:** \_\_\_\_\_  
**MSG Hours On-Site:** ~1.25 hours

**Contractors Information**  
 Contractor: MSG No. Men and Type: 2; Operator/Geologist Equipment Type: Geoprobe 7822DT

**Summary of Work Performed:**  
 • Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs)  
 • Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).

**Field Notes:**  
 • 0830 – MSG on-site (5251 St Clair), all stakes were buried under snow had to locate with GPS and mark one that was not found  
 • 0850 – Start SB-01, End 0854  
 • 0855 – Start SB-02, End 0900  
 • 0905 – Start SB-03, End 0910  
 • 0920 – SB-01 sampled 5251 SB-01(3-4') \_20260116  
 • 0925 – SB-02 sampled 5251 SB-02(1-2') \_20260116  
 • 0930 – SB-03 sampled 5251 SB-03(5-6') \_20260116  
 • 0940 – MSG off-site

**Supporting Documentation**

Photograph Taken	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Samples Collected	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Boring/MW Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Photo Log Attached	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	COC Attached	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Field Notebook Taken	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**Problem Identification and Corrective Measures**  
 Resolved? Yes  No

**APPENDIX C**  
INVESTIGATION PHOTOGRAPHS





Photo 1: View of the Site pre-drilling, facing southwest.



Photo 2: View of the Site surroundings pre-drilling, facing south.



Photo 3: View of the Site surroundings pre-drilling, facing west.



Photo 4: Viewing soil recovery from 5251 SB-01, facing southwest.



Photo 5: Viewing soil recovery from 5251 SB-01, SB-02, and SB-03 (back to front), facing southwest.



Photo 6: View of the slag at 3' bgs in 5251 SB-02.



Photo 7: View of the Site after drilling, facing southwest.

**APPENDIX D**  
SOIL BORING LOGS





The Mannik & Smith Group, Inc.  
 2365 Haggerty Road South, Canton, MI 48188  
 ph: (734) 397-3100 fax: (734) 397-3131  
 www.manniksmithgroup.com

**BOREHOLE NUMBER SB01**

Sheet 1 of 1

**CLIENT** City of Detroit  
**PROJECT NUMBER** DETR0060\_5251 St Clair  
**DATE STARTED** 01-16-2026 **COMPLETED** 01-16-2026  
**DRILLING CONTRACTOR** MSG  
**DRILLING METHOD** Direct Push  
**EQUIPMENT** GeoProbe 7822DT **Operator** BM

**PROJECT NAME** Backfill Soil Sampling  
**PROJECT LOCATION** 5251 St Clair, Detroit, MI  
**POSITION** \_\_\_\_\_  
**SURFACE ELEVATION** \_\_\_\_\_ **FINAL DEPTH** 6.0 ft  
**LOGGED BY** ZDK **CHECKED BY** PDH  
**REMARKS** \_\_\_\_\_

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Dark Brown, Gravelly SAND, Moist		
				1.0 Brown, CLAY, Trace Silt, Trace Gravel, Dry	0	
				3.0 Dark Brown, Gravelly SAND, Dry	0	
ES		58		- Concrete debris at 4' bgs	0	Collected Soil Sample 5251 SB01 (3-4') _20260116 at 0920
5				5.0 Dark Brown, CLAY, Trace Sand, Trace Gravel, Dry - Concrete debris at 5' bgs	0	
				6.0 Terminated at 6.00 ft.	0	
10						

**LEGEND:**

- ▽ AT TIME OF DRILLING    Not Encountered
- ▼ AT END OF DRILLING    \_\_\_\_\_
- ▽ AFTER DRILLING        \_\_\_\_\_



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**BOREHOLE NUMBER SB02**

Sheet 1 of 1

**CLIENT** City of Detroit  
**PROJECT NUMBER** DETR0060\_5251 St Clair  
**DATE STARTED** 01-16-2026 **COMPLETED** 01-16-2026  
**DRILLING CONTRACTOR** MSG  
**DRILLING METHOD** Direct Push  
**EQUIPMENT** GeoProbe 7822DT **Operator** BM

**PROJECT NAME** Backfill Soil Sampling  
**PROJECT LOCATION** 5251 St Clair, Detroit, MI  
**POSITION** \_\_\_\_\_  
**SURFACE ELEVATION** \_\_\_\_\_ **FINAL DEPTH** 6.0 ft  
**LOGGED BY** ZDK **CHECKED BY** PDH  
**REMARKS** \_\_\_\_\_

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, CLAY, Trace Sand, Moist		
			1.0	Dark Brown, Silty SAND, Trace Gravel, Dry	0	Collected Soil Sample 5251 SB02 (1-2') _20260116 at 0925
			3.0	Tan, CLAY, Trace Silt, Dry - Slag at 3' bgs	0	
5	ES	50			0	
			6.0	Terminated at 6.00 ft.	0	
10						

**LEGEND:**

- ▽ AT TIME OF DRILLING    Not Encountered
- ▼ AT END OF DRILLING    \_\_\_\_\_
- ▽ AFTER DRILLING        \_\_\_\_\_



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**BOREHOLE NUMBER SB03**

Sheet 1 of 1

<b>CLIENT</b> City of Detroit	<b>PROJECT NAME</b> Backfill Soil Sampling
<b>PROJECT NUMBER</b> DETR0060_5251 St Clair	<b>PROJECT LOCATION</b> 5251 St Clair, Detroit, MI
<b>DATE STARTED</b> 01-16-2026 <b>COMPLETED</b> 01-16-2026	<b>POSITION</b>
<b>DRILLING CONTRACTOR</b> MSG	<b>SURFACE ELEVATION</b> <b>FINAL DEPTH</b> 6.0 ft
<b>DRILLING METHOD</b> Direct Push	<b>LOGGED BY</b> ZDK <b>CHECKED BY</b> PDH
<b>EQUIPMENT</b> GeoProbe 7822DT <b>Operator</b> BM	<b>REMARKS</b>

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, SAND, Trace Clay, Dry		
			1.0	Tan, CLAY, Trace Silt, Dry	0	
					0	
			3.0	Dark Brown, Sandy CLAY, Dry	0	
			3.5	Brown and Gray Mottled, CLAY, Dry	0	
					0	
5					0	Collected Soil Sample SB03 (5-6')_20260116 at 0930
			6.0	Terminated at 6.00 ft.	0	
10						

**LEGEND:**

- ▽ AT TIME OF DRILLING Not Encountered
- ▼ AT END OF DRILLING \_\_\_\_\_
- ▽ AFTER DRILLING \_\_\_\_\_



## APPENDIX E

### LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.  
right partner.

January 26, 2026

Ryan Montri  
The Mannik & Smith Group, Inc.  
2365 Haggerty Road South  
Suite 100  
Canton, MI 48188

Re: **5251 St Clair**

Date Received: **01/17/2026**

Work Order: **HN2600839**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

**Kathy Jones-Gronda**

/S/ KATHY JONES-GRONDA

**Project Manager**



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair

**Work Order:** HN2600839  
**Date Received:** 17-Jan-2026

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

### Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 17-Jan-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

### WorkOrder: HN2600839

Soil/solid results are reported on a dry-weight basis, corrected using laboratory-determined percent moisture content, unless explicitly identified otherwise.

### Organics

#### EPA 8270E-FULL HN-3546-S

##### Run ID: 3839343

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 2,4-Dinitrophenol.

##### Run ID: 3836971

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-Methylphenol; Di-n-octyl phthalate.  
HN2600839-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2600839-002: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

#### EPA 8082A-3546-S (High)

##### Run ID: 3831074

QC-2421582-005/006: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: DCB

#### EPA 8260D-FULL HN-5035A-10mL-S

##### Run ID: 3833440

The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Chloroethane (Ethyl chloride), Dichlorodifluoromethane (Freon-12), Methyl bromide (Bromomethane), Vinyl chloride (Chloroethene)

#### EPA 8081B-3546-S (High)

##### Run ID: 3837308

HN2600839-001: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Heptachlor

HN2600839-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

HN2600839-002: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

**Run ID: 3837308**

HN2600839-002: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Heptachlor

**Metals**

**EPA 6020B-3050B-S**

**Run ID: 3836798**

Samples HN2600839-001 through -003: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

## SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



<b>CLIENT ID: 5251 SB01 (3-4')_20260116</b>	<b>Lab ID: HN2600839-001</b>
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Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	44.7		39.4	µg/kg	EPA 8260D
Arsenic	4.37		3.00	mg/kg	EPA 6020B
Barium	30.8		3.00	mg/kg	EPA 6020B
Chloride	67.2		11.4	mg/kg	EPA 9056A
Chromium	10.0		3.00	mg/kg	EPA 6020B
Copper	11.3		3.00	mg/kg	EPA 6020B
Lead	30.0		3.00	mg/kg	EPA 6020B
Mercury	0.0436		0.0200	mg/kg	EPA 7471B
Percent Moisture	10.9		0.1	%	EPA 3550C
Pyrene	201		183	µg/kg	EPA 8270E
Zinc	41.4		5.99	mg/kg	EPA 6020B

<b>CLIENT ID: 5251 SB02 (1-2')_20260116</b>	<b>Lab ID: HN2600839-002</b>
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	106		96.0	µg/kg	EPA 8270E
2-Methylnaphthalene	125		96.0	µg/kg	EPA 8270E
Anthracene	115		96.0	µg/kg	EPA 8270E
Arsenic	3.37		2.99	mg/kg	EPA 6020B
Barium	74.2		2.99	mg/kg	EPA 6020B
Benzo(a)anthracene	384		96.0	µg/kg	EPA 8270E
Benzo(a)pyrene	355		96.0	µg/kg	EPA 8270E
Benzo(b)fluoranthene	442		96.0	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	326		96.0	µg/kg	EPA 8270E
Benzo(k)fluoranthene	182		96.0	µg/kg	EPA 8270E
Chloride	27.6		13.0	mg/kg	EPA 9056A
Chromium	16.7		2.99	mg/kg	EPA 6020B
Chrysene	240		96.0	µg/kg	EPA 8270E
Copper	11.9		2.99	mg/kg	EPA 6020B
Fluoranthene	499		96.0	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	326		96.0	µg/kg	EPA 8270E
Lead	28.1		2.99	mg/kg	EPA 6020B
Mercury	0.0351		0.0200	mg/kg	EPA 7471B
Percent Moisture	13.5		0.1	%	EPA 3550C
Phenanthrene	259		96.0	µg/kg	EPA 8270E
Pyrene	566		96.0	µg/kg	EPA 8270E
Zinc	42.3		5.98	mg/kg	EPA 6020B

<b>CLIENT ID: 5251 SB03 (5-6')_20260116</b>	<b>Lab ID: HN2600839-003</b>
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	11.0		3.11	mg/kg	EPA 6020B
Barium	147		3.11	mg/kg	EPA 6020B

# SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

For a full listing of sample results, continue to the Sample Results section of this Report.



**CLIENT ID: 5251 SB03 (5-6')\_20260116** **Lab ID: HN2600839-003**

Analyte	Results	Flag	MRL	Units	Method
Chloride	34.1		12.0	mg/kg	EPA 9056A
Chromium	18.0		3.11	mg/kg	EPA 6020B
Copper	15.8		3.11	mg/kg	EPA 6020B
Lead	12.4		3.11	mg/kg	EPA 6020B
Mercury	0.0334		0.0200	mg/kg	EPA 7471B
Percent Moisture	15.2		0.1	%	EPA 3550C
Zinc	49.1		6.21	mg/kg	EPA 6020B

# SAMPLE SUMMARY



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Workorder:** HN2600839

<b>Laboratory Sample ID</b>	<b>Client Sample ID</b>	<b>Sample Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
HN2600839-001	5251 SB01 (3-4')_20260116	SOIL/SOLID	01/16/26 09:20	01/17/26 08:00
HN2600839-002	5251 SB02 (1-2')_20260116	SOIL/SOLID	01/16/26 09:25	01/17/26 08:00
HN2600839-003	5251 SB03 (5-6')_20260116	SOIL/SOLID	01/16/26 09:30	01/17/26 08:00



ALS Environmental

# Chain of Custody Form

Laboratory location: \_\_\_\_\_

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	5251 St Clair			A	VOCs (U.S. EPA Method 8260C (or Method 8260))										
Work Order		Project Number	DETR0060			B	SVOCs (U.S. EPA Method 8270D (or Method 8270))										
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group			C	PCBs (U.S. EPA Method 8082)										
Send Report To	Ryan Montri and Olivia Mitchell	Invoice Attn.				D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)										
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road			E	Chorides (U.S. EPA Method 9056A)										
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188			F	Pesticides (U.S. EPA Method 8081B (or Method 8081))										
Phone	734-397-3100	Phone	734-397-3100			G	Herbicides (U.S. EPA Method 8151A (or Method 8151))										
Fax		Fax				H											
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address	omitchell@manniksmithgroup.com			I											
						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	5251 SB01 ( 3-4 ')_2026 0116	01/16/26	0920	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
2	5251 SB02 ( 1-2 ')_2026 0116	01/16/26	0925	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
3	5251 SB03 ( 5-6 ')_2026 1116	01/16/26	0930	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign <i>Zachary Kipe</i> <i>Ann Kimm</i>		Shipment Method:	Required Turnaround Time: <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> Other
Relinquished by: <i>Zachary Kipe</i>	Date: 1/16/26	Time: 4:00pm	Received by: <i>[Signature]</i> 1/16 4:00pm
Relinquished by: <i>[Signature]</i>	Date: 1/16	Time: 1700	Received by (Laboratory): <i>[Signature]</i> 1/16 1700
Logged by (Laboratory): <i>GS</i>	Date: 1/17	Time: 08:00	Checked by (Laboratory): <i>[Signature]</i> 1/17 16:15
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035		Cooler Temp. 2.5°C	QC Package: (Check Box Below) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> TRRP-Checklist <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 CLP-Like Other: _____

Environmental Division  
Holland  
Work Order Reference  
**HN2600839**



Telephone : + 1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:  
<https://www.alsglobal.com/ALSGroupUSACorpTC>  
ALS copyright © 2024. All rights reserved.



ALS Holland  
3352 128<sup>th</sup> Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: BC

Date/Time: 1/17/26 08:00

Carrier Name: Q5

Shipping container/cooler in good condition? Yes / No / Not Present

Custody seals intact on shipping container/cooler? Yes / No / Not Present

Custody seals intact on sample bottles? Yes / No / Not Present

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 2.5°c

Thermometer(s): IP7

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 1/17/26

Water – VOA vials have zero headspace? Yes / No / No Vials

Water – pH acceptable upon receipt? Yes / No / N/A

pH strip lot #: \_\_\_\_\_ < 2 \_\_\_\_\_ > 12 \_\_\_\_\_ Other \_\_\_\_\_

pH adjusted (note adjustments below)? Yes / No / N/A

pH adjusted by: \_\_\_\_\_

Login Notes:

## REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
NC	Not Calculated
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

### Holland Laboratory Certifications<sup>1</sup>

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

<sup>1</sup> - Scope available upon request

# ANALYST SUMMARY



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair

**Work Order:** HN2600839

**Sample Name:** 5251 SB01 (3-4')\_20260116  
**Laboratory Code:** HN2600839-001  
**Sample Matrix:** SOIL/SOLID

**Date Collected:** 01/16/26  
**Date Received:** 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2422982		3830353	Nicole Maleski
EPA 6020B	EPA 3050B	001-AA	2426114	Weston Kotecki	3836798	Hunter Johnson
EPA 7471B	Method	001-AA	2427775	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2421588	Mya Harmer	3837308	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2426088	Willow Julien	3842877	Nathaniel Dietlin
EPA 8151A	Method	001-AA	2425155	Willow Julien	3838453	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	001-AA	2424862	Benjamin Farmer	3836971	Alexa Montague
EPA 9056A	EPA 9056A	001-AA	2422993	Kelsey Beaudette	3832077	Quoc Nguyen

**Sample Name:** 5251 SB02 (1-2')\_20260116  
**Laboratory Code:** HN2600839-002  
**Sample Matrix:** SOIL/SOLID

**Date Collected:** 01/16/26  
**Date Received:** 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AA	2422982		3830353	Nicole Maleski
EPA 6020B	EPA 3050B	002-AA	2426114	Weston Kotecki	3836798	Hunter Johnson
EPA 7471B	Method	002-AA	2427775	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2421588	Mya Harmer	3837308	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2421582	Mya Harmer	3831074	Madison VandenBer
EPA 8151A	Method	002-AA	2425155	Willow Julien	3838453	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	002-AA	2424862	Benjamin Farmer	3836971	Alexa Montague
EPA 9056A	EPA 9056A	002-AA	2422993	Kelsey Beaudette	3832077	Quoc Nguyen

**Sample Name:** 5251 SB03 (5-6')\_20260116  
**Laboratory Code:** HN2600839-003  
**Sample Matrix:** SOIL/SOLID

**Date Collected:** 01/16/26  
**Date Received:** 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AA	2422982		3830353	Nicole Maleski

# ANALYST SUMMARY



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair

**Work Order:** HN2600839

**Sample Name:** 5251 SB03 (5-6')\_20260116  
**Laboratory Code:** HN2600839-003  
**Sample Matrix:** SOIL/SOLID

**Date Collected:** 01/16/26  
**Date Received:** 01/17/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AA	2426114	Weston Kotecki	3836798	Hunter Johnson
EPA 7471B	Method	003-AA	2427775	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2421588	Mya Harmer	3833323	Sam Bruzan
EPA 8082A	EPA 3546	003-AA	2421582	Mya Harmer	3831074	Madison VandenBer
EPA 8151A	Method	003-AA	2425155	Willow Julien	3838453	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	003-AA	2424862	Benjamin Farmer	3836971	Alexa Montague
EPA 8270E	EPA 3546	003-AA	2424862	Benjamin Farmer	3839343	Alexa Montague
EPA 9056A	EPA 9056A	003-AA	2422993	Kelsey Beaudette	3832077	Quoc Nguyen

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<b>Chlorinated Herbicides by GC/ECD</b>								
2,4,5-T	EPA 8151A	<2.33	U	µg/kg	12.7	1	01/23/26 19:39	01/21/26 13:24
2,4,5-TP (Silvex)	EPA 8151A	<4.15	U	µg/kg	12.7	1	01/23/26 19:39	01/21/26 13:24
2,4-D	EPA 8151A	<6.76	U	µg/kg	25.3	1	01/23/26 19:39	01/21/26 13:24
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	<b>42.0</b>		<i>%REC</i>	<i>10-116</i>	<i>1</i>	<i>01/23/26 19:39</i>	<i>01/21/26 13:24</i>
<b>General Chemistry Parameters</b>								
Percent Moisture	EPA 3550C	<b>10.9</b>		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	<b>67.2</b>		mg/kg	11.4	1	01/21/26 00:37	01/20/26 11:58
<b>Metals</b>								
Arsenic	EPA 6020B	<b>4.37</b>		mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Barium	EPA 6020B	<b>30.8</b>		mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Cadmium	EPA 6020B	<0.180	U	mg/kg	1.20	10	01/22/26 17:41	01/22/26 11:09
Chromium	EPA 6020B	<b>10.0</b>		mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Copper	EPA 6020B	<b>11.3</b>		mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Lead	EPA 6020B	<b>30.0</b>		mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Selenium	EPA 6020B	<2.76	U	mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Silver	EPA 6020B	<0.395	U	mg/kg	3.00	10	01/22/26 17:41	01/22/26 11:09
Zinc	EPA 6020B	<b>41.4</b>		mg/kg	5.99	10	01/22/26 17:41	01/22/26 11:09
Mercury	EPA 7471B	<b>0.0436</b>		mg/kg	0.0200	1	01/26/26 13:12	01/23/26 13:25
<b>Organochlorine Pesticides by GC/ECD</b>								
4,4'-DDD	EPA 8081B	<176	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
4,4'-DDE	EPA 8081B	<182	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
4,4'-DDT	EPA 8081B	<183	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Aldrin	EPA 8081B	<179	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
alpha-BHC	EPA 8081B	<181	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
beta-BHC	EPA 8081B	<181	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<273	VU	µg/kg	689	10	01/21/26 12:06	01/19/26 10:31
cis-Chlordane	EPA 8081B	<184	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
delta-BHC	EPA 8081B	<180	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Dieldrin	EPA 8081B	<193	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<185	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Endosulfan II	EPA 8081B	<183	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<170	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Endrin	EPA 8081B	<223	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<175	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Endrin ketone	EPA 8081B	<168	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<181	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Heptachlor	EPA 8081B	<178	VU	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<182	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Methoxychlor	EPA 8081B	<184	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
Toxaphene	EPA 8081B	<298	VU	µg/kg	1650	10	01/21/26 12:06	01/19/26 10:31
trans-Chlordane	EPA 8081B	<183	U	µg/kg	276	10	01/21/26 12:06	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	<b>121</b>		<i>%REC</i>	<i>53-151</i>	<i>10</i>	<i>01/21/26 12:06</i>	<i>01/19/26 10:31</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	<b>79.0</b>		<i>%REC</i>	<i>67-127</i>	<i>10</i>	<i>01/21/26 12:06</i>	<i>01/19/26 10:31</i>

### Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<105	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1221	EPA 8082A	<105	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1232	EPA 8082A	<105	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1242	EPA 8082A	<105	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1248	EPA 8082A	<105	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1254	EPA 8082A	<85.5	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1260	EPA 8082A	<85.5	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1262	EPA 8082A	<85.5	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Aroclor 1268	EPA 8082A	<85.5	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
Total PCB	EPA 8082A	<85.5	U	µg/kg	306	1	01/24/26 02:48	01/22/26 08:37
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	<b>117</b>		<i>%REC</i>	<i>54-146</i>	<i>1</i>	<i>01/24/26 02:48</i>	<i>01/22/26 08:37</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	<b>89.6</b>		<i>%REC</i>	<i>58-140</i>	<i>1</i>	<i>01/24/26 02:48</i>	<i>01/22/26 08:37</i>

### Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<148	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<211	U	µg/kg	9130	10	01/22/26 23:40	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<656	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
1-Methylnaphthalene	EPA 8270E	<132	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<214	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,3,4,6-Tetrachlorophenol	EPA 8270E	<670	U	µg/kg	1830	10	01/22/26 23:40	01/21/26 20:32
2,4,5-Trichlorophenol	EPA 8270E	<542	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,4,6-Trichlorophenol	EPA 8270E	<243	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,4-Dichlorophenol	EPA 8270E	<492	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,4-Dimethylphenol	EPA 8270E	<470	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,4-Dinitrophenol	EPA 8270E	<6680	U	µg/kg	9130	10	01/22/26 23:40	01/21/26 20:32
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<594	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<233	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2-Chloronaphthalene	EPA 8270E	<128	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
2-Chlorophenol	EPA 8270E	<598	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<764	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2-Methylnaphthalene	EPA 8270E	<93.0	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
2-Methylphenol (o-Cresol)	EPA 8270E	<247	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2-Nitroaniline	EPA 8270E	<508	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
2-Nitrophenol	EPA 8270E	<261	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
3&4-Methylphenol	EPA 8270E	<498	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
3,3'-Dichlorobenzidine	EPA 8270E	<427	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
3-Nitroaniline	EPA 8270E	<531	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<501	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
4-Chloro-3-methylphenol	EPA 8270E	<261	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
4-Chloroaniline	EPA 8270E	<465	U	µg/kg	1830	10	01/22/26 23:40	01/21/26 20:32
4-Chlorophenyl phenylether	EPA 8270E	<253	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
4-Nitroaniline	EPA 8270E	<1420	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
4-Nitrophenol	EPA 8270E	<2140	U	µg/kg	9130	10	01/22/26 23:40	01/21/26 20:32
Acenaphthene	EPA 8270E	<132	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<159	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Acetophenone	EPA 8270E	<143	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Anthracene	EPA 8270E	<129	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Atrazine	EPA 8270E	<536	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Benzaldehyde	EPA 8270E	<1400	U	µg/kg	1830	10	01/22/26 23:40	01/21/26 20:32
Benzo(a)anthracene	EPA 8270E	<158	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Benzo(a)pyrene	EPA 8270E	<112	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Benzo(b)fluoranthene	EPA 8270E	<136	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Benzo(g,h,i)perylene	EPA 8270E	<140	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Benzo(k)fluoranthene	EPA 8270E	<139	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
bis(2-Chloroethoxy) methane	EPA 8270E	<579	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
bis(2-Chloroethyl) ether	EPA 8270E	<259	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Butyl benzyl phthalate	EPA 8270E	<1140	U	µg/kg	1830	10	01/22/26 23:40	01/21/26 20:32
Caprolactam	EPA 8270E	<825	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Carbazole	EPA 8270E	<269	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Chrysene	EPA 8270E	<148	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<756	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Dibenz(a,h) anthracene	EPA 8270E	<98.8	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Dibenzofuran	EPA 8270E	<134	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Diethyl phthalate	EPA 8270E	<311	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Dimethyl phthalate	EPA 8270E	<178	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Fluoranthene	EPA 8270E	<87.8	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Fluorene	EPA 8270E	<133	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Hexachlorobenzene	EPA 8270E	<266	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Hexachlorobutadiene	EPA 8270E	<215	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Hexachlorocyclopentadiene	EPA 8270E	<867	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Hexachloroethane	EPA 8270E	<379	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Indeno(1,2,3-cd) pyrene	EPA 8270E	<127	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Isophorone	EPA 8270E	<179	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
Methylphenol, Total	EPA 8270E	<247	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<117	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Nitrobenzene	EPA 8270E	<307	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
n-Nitrosodi-n-propylamine	EPA 8270E	<151	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
N-Nitrosodiphenylamine	EPA 8270E	<529	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Pentachlorophenol	EPA 8270E	<726	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Phenanthrene	EPA 8270E	<85.0	U	µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Phenol	EPA 8270E	<459	U	µg/kg	905	10	01/22/26 23:40	01/21/26 20:32
Pyrene	EPA 8270E	<b>201</b>		µg/kg	183	10	01/22/26 23:40	01/21/26 20:32
Pyridine	EPA 8270E	<1800	U	µg/kg	4570	10	01/22/26 23:40	01/21/26 20:32
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<b>79.6</b>		<i>%REC</i>	<i>48-94</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<b>68.4</b>		<i>%REC</i>	<i>50-103</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<b>73.2</b>		<i>%REC</i>	<i>43-105</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<b>76.4</b>		<i>%REC</i>	<i>55-111</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<b>80.6</b>		<i>%REC</i>	<i>47-100</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<b>66.6</b>		<i>%REC</i>	<i>49-110</i>	<i>10</i>	<i>01/22/26 23:40</i>	<i>01/21/26 20:32</i>

### Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<17.9	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<17.4	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<25.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<16.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<14.4	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<12.8	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<47.3	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<16.5	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<44.7	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<b>44.7</b>		µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<36.3	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<23.2	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<14.9	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB01 (3-4')\_20260116

**Lab ID:** HN2600839-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<23.2	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<29.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<27.8	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<27.2	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<22.0	U	µg/kg	78.8	1	01/21/26 07:13	01/19/26 15:35
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<32.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<93.8	U	µg/kg	263	1	01/21/26 07:13	01/19/26 15:35
2-Hexanone	EPA 8260D	<19.5	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<36.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Acetone	EPA 8260D	<117	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
Benzene	EPA 8260D	<19.1	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Bromochloromethane	EPA 8260D	<20.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<22.1	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Bromoform	EPA 8260D	<16.6	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Carbon disulfide	EPA 8260D	<20.4	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<15.4	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Chlorobenzene	EPA 8260D	<13.1	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<22.1	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<110	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
Chloroform	EPA 8260D	<14.4	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<25.3	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<29.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Cyclohexane	EPA 8260D	<30.2	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<47.7	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
Ethylbenzene	EPA 8260D	<28.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<24.9	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
m+p-Xylene	EPA 8260D	<52.5	U	µg/kg	78.8	1	01/21/26 07:13	01/19/26 15:35
Methyl acetate	EPA 8260D	<47.2	U	µg/kg	328	1	01/21/26 07:13	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<75.4	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:20  
**Date Received:** 01/17/26 08:00

**CLIENT ID: 5251 SB01 (3-4')\_20260116**

**Lab ID: HN2600839-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution	Date	Date
						Factor	Analyzed	Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<108	U	µg/kg	131	1	01/21/26 07:13	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<28.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<15.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<105	U	µg/kg	328	1	01/21/26 07:13	01/19/26 15:35
o-Xylene	EPA 8260D	<15.2	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Styrene	EPA 8260D	<15.6	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<23.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Toluene	EPA 8260D	<32.5	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Total Xylene	EPA 8260D	<15.2	U	µg/kg	118	1	01/21/26 07:13	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<32.5	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<22.0	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<17.7	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<20.1	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<26.2	U	µg/kg	39.4	1	01/21/26 07:13	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	<b>102</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:13</i>	<i>01/19/26 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	<b>104</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:13</i>	<i>01/19/26 15:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	<b>99.8</b>		<i>%REC</i>	<i>72-120</i>	<i>1</i>	<i>01/21/26 07:13</i>	<i>01/19/26 15:35</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	<b>94.4</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:13</i>	<i>01/19/26 15:35</i>

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<b>Chlorinated Herbicides by GC/ECD</b>								
2,4,5-T	EPA 8151A	<2.57	U	µg/kg	14.0	1	01/23/26 19:54	01/21/26 13:24
2,4,5-TP (Silvex)	EPA 8151A	<4.59	U	µg/kg	14.0	1	01/23/26 19:54	01/21/26 13:24
2,4-D	EPA 8151A	<7.47	U	µg/kg	28.0	1	01/23/26 19:54	01/21/26 13:24
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	<b>46.0</b>		<i>%REC</i>	<i>10-116</i>	<i>1</i>	<i>01/23/26 19:54</i>	<i>01/21/26 13:24</i>
<b>General Chemistry Parameters</b>								
Percent Moisture	EPA 3550C	<b>13.5</b>		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	<b>27.6</b>		mg/kg	13.0	1	01/21/26 00:45	01/20/26 11:58
<b>Metals</b>								
Arsenic	EPA 6020B	<b>3.37</b>		mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Barium	EPA 6020B	<b>74.2</b>		mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Cadmium	EPA 6020B	<0.179	U	mg/kg	1.20	10	01/22/26 17:43	01/22/26 11:09
Chromium	EPA 6020B	<b>16.7</b>		mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Copper	EPA 6020B	<b>11.9</b>		mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Lead	EPA 6020B	<b>28.1</b>		mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Selenium	EPA 6020B	<2.75	U	mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Silver	EPA 6020B	<0.395	U	mg/kg	2.99	10	01/22/26 17:43	01/22/26 11:09
Zinc	EPA 6020B	<b>42.3</b>		mg/kg	5.98	10	01/22/26 17:43	01/22/26 11:09
Mercury	EPA 7471B	<b>0.0351</b>		mg/kg	0.0200	1	01/26/26 13:14	01/23/26 13:25
<b>Organochlorine Pesticides by GC/ECD</b>								
4,4'-DDD	EPA 8081B	<173	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
4,4'-DDE	EPA 8081B	<178	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
4,4'-DDT	EPA 8081B	<180	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Aldrin	EPA 8081B	<176	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
alpha-BHC	EPA 8081B	<178	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
beta-BHC	EPA 8081B	<178	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<269	VU	µg/kg	677	10	01/21/26 12:21	01/19/26 10:31
cis-Chlordane	EPA 8081B	<181	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
delta-BHC	EPA 8081B	<177	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Dieldrin	EPA 8081B	<189	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<182	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Endosulfan II	EPA 8081B	<179	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<167	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Endrin	EPA 8081B	<219	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<172	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Endrin ketone	EPA 8081B	<165	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<178	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Heptachlor	EPA 8081B	<175	VU	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<179	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Methoxychlor	EPA 8081B	<181	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
Toxaphene	EPA 8081B	<293	VU	µg/kg	1630	10	01/21/26 12:21	01/19/26 10:31
trans-Chlordane	EPA 8081B	<180	U	µg/kg	271	10	01/21/26 12:21	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	<b>112</b>		<i>%REC</i>	<i>53-151</i>	<i>10</i>	<i>01/21/26 12:21</i>	<i>01/19/26 10:31</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	<b>80.0</b>		<i>%REC</i>	<i>67-127</i>	<i>10</i>	<i>01/21/26 12:21</i>	<i>01/19/26 10:31</i>

### Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<61.9	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1221	EPA 8082A	<61.9	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1232	EPA 8082A	<61.9	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1242	EPA 8082A	<61.9	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1248	EPA 8082A	<61.9	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1254	EPA 8082A	<50.4	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1260	EPA 8082A	<50.4	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1262	EPA 8082A	<50.4	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Aroclor 1268	EPA 8082A	<50.4	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
Total PCB	EPA 8082A	<50.4	U	µg/kg	181	1	01/20/26 05:03	01/19/26 08:17
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	<b>110</b>		<i>%REC</i>	<i>54-146</i>	<i>1</i>	<i>01/20/26 05:03</i>	<i>01/19/26 08:17</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	<b>88.3</b>		<i>%REC</i>	<i>58-140</i>	<i>1</i>	<i>01/20/26 05:03</i>	<i>01/19/26 08:17</i>

### Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<77.9	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<111	U	µg/kg	4790	5	01/23/26 00:01	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<344	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
1-Methylnaphthalene	EPA 8270E	<b>106</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<112	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,3,4,6-Tetrachlorophenol	EPA 8270E	<351	U	µg/kg	960	5	01/23/26 00:01	01/21/26 20:32
2,4,5-Trichlorophenol	EPA 8270E	<284	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,4,6-Trichlorophenol	EPA 8270E	<128	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,4-Dichlorophenol	EPA 8270E	<258	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,4-Dimethylphenol	EPA 8270E	<247	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,4-Dinitrophenol	EPA 8270E	<3510	U	µg/kg	4790	5	01/23/26 00:01	01/21/26 20:32
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<312	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<123	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2-Chloronaphthalene	EPA 8270E	<67.1	U	µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
2-Chlorophenol	EPA 8270E	<314	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<401	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2-Methylnaphthalene	EPA 8270E	<b>125</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
2-Methylphenol (o-Cresol)	EPA 8270E	<130	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2-Nitroaniline	EPA 8270E	<267	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
2-Nitrophenol	EPA 8270E	<137	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
3&4-Methylphenol	EPA 8270E	<262	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
3,3'-Dichlorobenzidine	EPA 8270E	<224	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
3-Nitroaniline	EPA 8270E	<279	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<263	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
4-Chloro-3-methylphenol	EPA 8270E	<137	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
4-Chloroaniline	EPA 8270E	<244	U	µg/kg	960	5	01/23/26 00:01	01/21/26 20:32
4-Chlorophenyl phenylether	EPA 8270E	<133	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
4-Nitroaniline	EPA 8270E	<744	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
4-Nitrophenol	EPA 8270E	<1120	U	µg/kg	4790	5	01/23/26 00:01	01/21/26 20:32
Acenaphthene	EPA 8270E	<69.4	U	µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<83.2	U	µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Acetophenone	EPA 8270E	<75.2	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Anthracene	EPA 8270E	<b>115</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Atrazine	EPA 8270E	<281	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Benzaldehyde	EPA 8270E	<737	U	µg/kg	960	5	01/23/26 00:01	01/21/26 20:32
Benzo(a)anthracene	EPA 8270E	<b>384</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Benzo(a)pyrene	EPA 8270E	<b>355</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Benzo(b)fluoranthene	EPA 8270E	<b>442</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Benzo(g,h,i)perylene	EPA 8270E	<b>326</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Benzo(k)fluoranthene	EPA 8270E	<b>182</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
bis(2-Chloroethoxy) methane	EPA 8270E	<304	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
bis(2-Chloroethyl) ether	EPA 8270E	<136	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Butyl benzyl phthalate	EPA 8270E	<601	U	µg/kg	960	5	01/23/26 00:01	01/21/26 20:32
Caprolactam	EPA 8270E	<433	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Carbazole	EPA 8270E	<141	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Chrysene	EPA 8270E	<b>240</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<397	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Dibenz(a,h) anthracene	EPA 8270E	<51.8	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Dibenzofuran	EPA 8270E	<70.5	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Diethyl phthalate	EPA 8270E	<163	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Dimethyl phthalate	EPA 8270E	<93.6	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Fluoranthene	EPA 8270E	<b>499</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Fluorene	EPA 8270E	<69.7	U	µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Hexachlorobenzene	EPA 8270E	<140	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Hexachlorobutadiene	EPA 8270E	<113	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Hexachlorocyclopentadiene	EPA 8270E	<455	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Hexachloroethane	EPA 8270E	<199	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Indeno(1,2,3-cd) pyrene	EPA 8270E	<b>326</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Isophorone	EPA 8270E	<93.7	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
Methylphenol, Total	EPA 8270E	<130	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<61.3	U	µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Nitrobenzene	EPA 8270E	<161	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
n-Nitrosodi-n-propylamine	EPA 8270E	<79.2	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
N-Nitrosodiphenylamine	EPA 8270E	<278	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Pentachlorophenol	EPA 8270E	<381	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Phenanthrene	EPA 8270E	<b>259</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Phenol	EPA 8270E	<241	U	µg/kg	475	5	01/23/26 00:01	01/21/26 20:32
Pyrene	EPA 8270E	<b>566</b>		µg/kg	96.0	5	01/23/26 00:01	01/21/26 20:32
Pyridine	EPA 8270E	<945	U	µg/kg	2400	5	01/23/26 00:01	01/21/26 20:32
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<b>75.9</b>		<i>%REC</i>	<i>48-94</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<b>71.3</b>		<i>%REC</i>	<i>50-103</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<b>73.4</b>		<i>%REC</i>	<i>43-105</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<b>79.2</b>		<i>%REC</i>	<i>55-111</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<b>77.7</b>		<i>%REC</i>	<i>47-100</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<b>67.8</b>		<i>%REC</i>	<i>49-110</i>	<i>5</i>	<i>01/23/26 00:01</i>	<i>01/21/26 20:32</i>

### Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<19.0	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<18.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<26.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<17.8	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<15.3	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<13.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<50.3	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<17.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<47.5	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<30.7	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<38.6	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<24.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<15.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB02 (1-2')\_20260116

**Lab ID:** HN2600839-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<24.6	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<30.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<29.6	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<28.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<23.4	U	µg/kg	83.8	1	01/21/26 07:32	01/19/26 15:35
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<34.1	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<99.8	U	µg/kg	279	1	01/21/26 07:32	01/19/26 15:35
2-Hexanone	EPA 8260D	<20.8	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<39.1	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Acetone	EPA 8260D	<124	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
Benzene	EPA 8260D	<20.3	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Bromochloromethane	EPA 8260D	<21.3	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<23.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Bromoform	EPA 8260D	<17.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Carbon disulfide	EPA 8260D	<21.7	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<16.4	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Chlorobenzene	EPA 8260D	<13.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<23.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<117	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
Chloroform	EPA 8260D	<15.4	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<26.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<31.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Cyclohexane	EPA 8260D	<32.1	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<50.7	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
Ethylbenzene	EPA 8260D	<29.7	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<26.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
m+p-Xylene	EPA 8260D	<55.9	U	µg/kg	83.8	1	01/21/26 07:32	01/19/26 15:35
Methyl acetate	EPA 8260D	<50.2	U	µg/kg	349	1	01/21/26 07:32	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<80.2	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:25  
**Date Received:** 01/17/26 08:00

**CLIENT ID: 5251 SB02 (1-2')\_20260116**

**Lab ID: HN2600839-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<115	U	µg/kg	140	1	01/21/26 07:32	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<30.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<16.0	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<111	U	µg/kg	349	1	01/21/26 07:32	01/19/26 15:35
o-Xylene	EPA 8260D	<16.2	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Styrene	EPA 8260D	<16.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<25.2	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Toluene	EPA 8260D	<34.5	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Total Xylene	EPA 8260D	<16.2	U	µg/kg	126	1	01/21/26 07:32	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<34.6	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<23.4	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<18.8	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<21.4	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<27.9	U	µg/kg	41.9	1	01/21/26 07:32	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	<b>101</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:32</i>	<i>01/19/26 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	<b>102</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:32</i>	<i>01/19/26 15:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	<b>96.8</b>		<i>%REC</i>	<i>72-120</i>	<i>1</i>	<i>01/21/26 07:32</i>	<i>01/19/26 15:35</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	<b>95.4</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:32</i>	<i>01/19/26 15:35</i>

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<b>Chlorinated Herbicides by GC/ECD</b>								
2,4,5-T	EPA 8151A	<2.66	U	µg/kg	14.4	1	01/23/26 20:09	01/21/26 13:24
2,4,5-TP (Silvex)	EPA 8151A	<4.73	U	µg/kg	14.4	1	01/23/26 20:09	01/21/26 13:24
2,4-D	EPA 8151A	<7.71	U	µg/kg	28.9	1	01/23/26 20:09	01/21/26 13:24
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	<b>46.0</b>		<i>%REC</i>	<i>10-116</i>	<i>1</i>	<i>01/23/26 20:09</i>	<i>01/21/26 13:24</i>
<b>General Chemistry Parameters</b>								
Percent Moisture	EPA 3550C	<b>15.2</b>		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	<b>34.1</b>		mg/kg	12.0	1	01/21/26 00:53	01/20/26 11:58
<b>Metals</b>								
Arsenic	EPA 6020B	<b>11.0</b>		mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Barium	EPA 6020B	<b>147</b>		mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Cadmium	EPA 6020B	<0.186	U	mg/kg	1.24	10	01/22/26 17:48	01/22/26 11:09
Chromium	EPA 6020B	<b>18.0</b>		mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Copper	EPA 6020B	<b>15.8</b>		mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Lead	EPA 6020B	<b>12.4</b>		mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Selenium	EPA 6020B	<2.86	U	mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Silver	EPA 6020B	<0.410	U	mg/kg	3.11	10	01/22/26 17:48	01/22/26 11:09
Zinc	EPA 6020B	<b>49.1</b>		mg/kg	6.21	10	01/22/26 17:48	01/22/26 11:09
Mercury	EPA 7471B	<b>0.0334</b>		mg/kg	0.0200	1	01/26/26 13:16	01/23/26 13:25
<b>Organochlorine Pesticides by GC/ECD</b>								
4,4'-DDD	EPA 8081B	<18.0	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
4,4'-DDE	EPA 8081B	<18.6	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
4,4'-DDT	EPA 8081B	<18.7	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Aldrin	EPA 8081B	<18.3	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
alpha-BHC	EPA 8081B	<18.5	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
beta-BHC	EPA 8081B	<18.5	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<27.9	U	µg/kg	70.4	1	01/20/26 09:57	01/19/26 10:31
cis-Chlordane	EPA 8081B	<18.8	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
delta-BHC	EPA 8081B	<18.4	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Dieldrin	EPA 8081B	<19.7	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.9	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Endosulfan II	EPA 8081B	<18.7	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<17.3	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Endrin	EPA 8081B	<22.8	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<17.8	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Endrin ketone	EPA 8081B	<17.1	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<18.5	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Heptachlor	EPA 8081B	<18.2	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<18.6	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Methoxychlor	EPA 8081B	<18.8	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
Toxaphene	EPA 8081B	<30.4	U	µg/kg	169	1	01/20/26 09:57	01/19/26 10:31
trans-Chlordane	EPA 8081B	<18.7	U	µg/kg	28.2	1	01/20/26 09:57	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	<b>107</b>		<i>%REC</i>	<i>53-151</i>	<i>1</i>	<i>01/20/26 09:57</i>	<i>01/19/26 10:31</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	<b>84.3</b>		<i>%REC</i>	<i>67-127</i>	<i>1</i>	<i>01/20/26 09:57</i>	<i>01/19/26 10:31</i>

### Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<64.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1221	EPA 8082A	<64.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1232	EPA 8082A	<64.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1242	EPA 8082A	<64.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1248	EPA 8082A	<64.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1254	EPA 8082A	<52.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1260	EPA 8082A	<52.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1262	EPA 8082A	<52.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Aroclor 1268	EPA 8082A	<52.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
Total PCB	EPA 8082A	<52.4	U	µg/kg	188	1	01/20/26 05:15	01/19/26 08:17
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	<b>95.9</b>		<i>%REC</i>	<i>54-146</i>	<i>1</i>	<i>01/20/26 05:15</i>	<i>01/19/26 08:17</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	<b>92.2</b>		<i>%REC</i>	<i>58-140</i>	<i>1</i>	<i>01/20/26 05:15</i>	<i>01/19/26 08:17</i>

### Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.6	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<22.1	U	µg/kg	958	1	01/22/26 21:33	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<68.7	U	µg/kg	479	1	01/22/26 21:33	01/21/26 20:32
1-Methylnaphthalene	EPA 8270E	<13.8	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<22.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,3,4,6-Tetrachlorophenol	EPA 8270E	<70.2	U	µg/kg	192	1	01/22/26 21:33	01/21/26 20:32
2,4,5-Trichlorophenol	EPA 8270E	<56.8	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,4,6-Trichlorophenol	EPA 8270E	<25.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,4-Dichlorophenol	EPA 8270E	<51.6	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,4-Dimethylphenol	EPA 8270E	<49.3	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,4-Dinitrophenol	EPA 8270E	<701	U	µg/kg	958	1	01/22/26 21:33	01/21/26 20:32
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<62.3	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<24.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2-Chloronaphthalene	EPA 8270E	<13.4	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
2-Chlorophenol	EPA 8270E	<62.7	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<80.1	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2-Methylnaphthalene	EPA 8270E	<9.75	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
2-Methylphenol (o-Cresol)	EPA 8270E	<25.9	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2-Nitroaniline	EPA 8270E	<53.2	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
2-Nitrophenol	EPA 8270E	<27.3	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
3&4-Methylphenol	EPA 8270E	<52.2	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
3,3'-Dichlorobenzidine	EPA 8270E	<44.7	U	µg/kg	479	1	01/23/26 18:29	01/21/26 20:32
3-Nitroaniline	EPA 8270E	<55.6	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<52.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
4-Chloro-3-methylphenol	EPA 8270E	<27.3	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
4-Chloroaniline	EPA 8270E	<48.7	U	µg/kg	192	1	01/22/26 21:33	01/21/26 20:32
4-Chlorophenyl phenylether	EPA 8270E	<26.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
4-Nitroaniline	EPA 8270E	<149	U	µg/kg	479	1	01/22/26 21:33	01/21/26 20:32
4-Nitrophenol	EPA 8270E	<224	U	µg/kg	958	1	01/22/26 21:33	01/21/26 20:32
Acenaphthene	EPA 8270E	<13.9	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<16.6	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Acetophenone	EPA 8270E	<15.0	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Anthracene	EPA 8270E	<13.5	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Atrazine	EPA 8270E	<56.2	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Benzaldehyde	EPA 8270E	<147	U	µg/kg	192	1	01/22/26 21:33	01/21/26 20:32
Benzo(a)anthracene	EPA 8270E	<16.6	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Benzo(a)pyrene	EPA 8270E	<11.8	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Benzo(b)fluoranthene	EPA 8270E	<14.3	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Benzo(g,h,i)perylene	EPA 8270E	<14.7	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Benzo(k)fluoranthene	EPA 8270E	<14.5	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
bis(2-Chloroethoxy) methane	EPA 8270E	<60.7	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
bis(2-Chloroethyl) ether	EPA 8270E	<27.1	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Butyl benzyl phthalate	EPA 8270E	<120	U	µg/kg	192	1	01/23/26 18:29	01/21/26 20:32
Caprolactam	EPA 8270E	<86.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Carbazole	EPA 8270E	<28.2	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Chrysene	EPA 8270E	<15.5	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<79.3	U	µg/kg	94.9	1	01/23/26 18:29	01/21/26 20:32
Dibenz(a,h) anthracene	EPA 8270E	<10.4	U	µg/kg	94.9	1	01/23/26 18:29	01/21/26 20:32
Dibenzofuran	EPA 8270E	<14.1	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Diethyl phthalate	EPA 8270E	<32.6	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Dimethyl phthalate	EPA 8270E	<18.7	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Fluoranthene	EPA 8270E	<9.20	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Fluorene	EPA 8270E	<13.9	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Hexachlorobenzene	EPA 8270E	<27.9	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Hexachlorobutadiene	EPA 8270E	<22.6	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Hexachlorocyclopentadiene	EPA 8270E	<90.9	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Hexachloroethane	EPA 8270E	<39.7	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Indeno(1,2,3-cd) pyrene	EPA 8270E	<13.3	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Isophorone	EPA 8270E	<18.7	U	µg/kg	479	1	01/22/26 21:33	01/21/26 20:32
Methylphenol, Total	EPA 8270E	<25.9	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<12.2	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Nitrobenzene	EPA 8270E	<32.2	U	µg/kg	479	1	01/22/26 21:33	01/21/26 20:32
n-Nitrosodi-n-propylamine	EPA 8270E	<15.8	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
N-Nitrosodiphenylamine	EPA 8270E	<55.5	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Pentachlorophenol	EPA 8270E	<76.1	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Phenanthrene	EPA 8270E	<8.91	U	µg/kg	19.2	1	01/22/26 21:33	01/21/26 20:32
Phenol	EPA 8270E	<48.1	U	µg/kg	94.9	1	01/22/26 21:33	01/21/26 20:32
Pyrene	EPA 8270E	<9.56	U	µg/kg	19.2	1	01/23/26 18:29	01/21/26 20:32
Pyridine	EPA 8270E	<189	U	µg/kg	479	1	01/22/26 21:33	01/21/26 20:32
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<b>67.3</b>		<i>%REC</i>	<i>48-94</i>	<i>1</i>	<i>01/22/26 21:33</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<b>77.0</b>		<i>%REC</i>	<i>50-103</i>	<i>1</i>	<i>01/22/26 21:33</i>	<i>01/21/26 20:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<b>70.7</b>		<i>%REC</i>	<i>43-105</i>	<i>1</i>	<i>01/22/26 21:33</i>	<i>01/21/26 20:32</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<b>91.0</b>		<i>%REC</i>	<i>55-111</i>	<i>1</i>	<i>01/23/26 18:29</i>	<i>01/21/26 20:32</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<b>92.9</b>		<i>%REC</i>	<i>47-100</i>	<i>1</i>	<i>01/22/26 21:33</i>	<i>01/21/26 20:32</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<b>69.3</b>		<i>%REC</i>	<i>49-110</i>	<i>1</i>	<i>01/22/26 21:33</i>	<i>01/21/26 20:32</i>

### Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<19.9	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<19.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<27.8	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<18.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<16.0	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<14.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<52.7	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<18.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<49.8	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<32.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<40.4	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<25.8	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<16.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<25.8	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<32.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<31.0	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	<30.3	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<24.5	U	µg/kg	87.8	1	01/21/26 07:52	01/19/26 15:35
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	<35.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<104	U	µg/kg	293	1	01/21/26 07:52	01/19/26 15:35
2-Hexanone	EPA 8260D	<21.8	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<40.9	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Acetone	EPA 8260D	<130	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
Benzene	EPA 8260D	<21.3	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Bromochloromethane	EPA 8260D	<22.3	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<24.6	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Bromoform	EPA 8260D	<18.5	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Carbon disulfide	EPA 8260D	<22.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<17.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Chlorobenzene	EPA 8260D	<14.6	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<24.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<123	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
Chloroform	EPA 8260D	<16.1	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<28.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<33.1	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Cyclohexane	EPA 8260D	<33.6	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<53.1	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
Ethylbenzene	EPA 8260D	<31.1	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<27.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
m+p-Xylene	EPA 8260D	<58.5	U	µg/kg	87.8	1	01/21/26 07:52	01/19/26 15:35
Methyl acetate	EPA 8260D	<52.6	U	µg/kg	366	1	01/21/26 07:52	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<84.0	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35

# Analytical Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 09:30  
**Date Received:** 01/17/26 08:00

**CLIENT ID:** 5251 SB03 (5-6')\_20260116

**Lab ID:** HN2600839-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<120	U	µg/kg	146	1	01/21/26 07:52	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<32.0	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<16.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<116	U	µg/kg	366	1	01/21/26 07:52	01/19/26 15:35
o-Xylene	EPA 8260D	<17.0	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Styrene	EPA 8260D	<17.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<26.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Toluene	EPA 8260D	<36.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Total Xylene	EPA 8260D	<17.0	U	µg/kg	132	1	01/21/26 07:52	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<36.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<24.5	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<19.7	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<22.4	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<29.2	U	µg/kg	43.9	1	01/21/26 07:52	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	<b>101</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:52</i>	<i>01/19/26 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	<b>98.2</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:52</i>	<i>01/19/26 15:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	<b>94.8</b>		<i>%REC</i>	<i>72-120</i>	<i>1</i>	<i>01/21/26 07:52</i>	<i>01/19/26 15:35</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	<b>95.7</b>		<i>%REC</i>	<i>80-120</i>	<i>1</i>	<i>01/21/26 07:52</i>	<i>01/19/26 15:35</i>



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2425155

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3838453

**Chlorinated Herbicides by GC/ECD**

**MB** CLIENT ID: Method Blank Lab ID: QC-2425155-001

**Method:** EPA 8151A **Dilution:** 1 **Analysis Date:** 01/23/26 17:53  
**Prep Date:** 01/21/26 13:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00							U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00							U
2,4-D	<2.67	µg/kg	10.0							U
Surr: DCAA	53.0	µg/kg		50		106	10-116			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2425155-002

**Method:** EPA 8151A **Dilution:** 1 **Analysis Date:** 01/23/26 18:08  
**Prep Date:** 01/21/26 13:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	36.0	µg/kg	5.00	50		72.0	10-119			
2,4,5-TP (Silvex)	34.0	µg/kg	5.00	50		68.0	10-101			
2,4-D	33.0	µg/kg	10.0	50		66.0	10-128			
Surr: DCAA	49.0	µg/kg		50		98.0	10-116			

**MS** CLIENT ID: Batch QC Lab ID: QC-2425155-005

**Method:** EPA 8151A **Dilution:** 1 **Analysis Date:** 01/23/26 18:23  
**Prep Date:** 01/21/26 13:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	30.6	µg/kg	5.14	49.31	<0.907	62.0	10-119			
2,4,5-TP (Silvex)	27.6	µg/kg	5.14	49.31	<1.62	56.0	10-101			
2,4-D	29.6	µg/kg	10.3	49.31	<2.63	60.0	10-128			
Surr: DCAA	43.4	µg/kg		49.31		88.0	10-116			

**MSD** CLIENT ID: Batch QC Lab ID: QC-2425155-006

**Method:** EPA 8151A **Dilution:** 1 **Analysis Date:** 01/23/26 18:38  
**Prep Date:** 01/21/26 13:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	31.7	µg/kg	5.16	49.48	<0.920	64.0	10-119	3.52	30	
2,4,5-TP (Silvex)	27.7	µg/kg	5.16	49.48	<1.64	56.0	10-101	0.346	30	
2,4-D	31.7	µg/kg	10.3	49.48	<2.67	64.0	10-128	6.80	30	
Surr: DCAA	42.6	µg/kg		49.48		86.0	10-116	1.95	30	

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422982

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3830353

**General Chemistry Parameters**

**MB** CLIENT ID: Method Blank Lab ID: QC-2422982-001

**Method:** EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16  
**Prep Date:** NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	<0.1	%	0.1							U

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2422982-002

**Method:** EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16  
**Prep Date:** NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	100	%	0.1	100		100	98-102			

**DUP** CLIENT ID: Batch QC Lab ID: QC-2422982-015

**Method:** EPA 3550C **Dilution:** 1 **Analysis Date:** 01/20/26 13:16  
**Prep Date:** NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	20.0	%	0.1		19.2			4.29	10	

**The following samples were analyzed in this batch:** HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422982

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 12:55  
**Date Received:** 01/17/26 08:00  
**Run ID:** 3833992

**General Chemistry Parameters**

**DUP** CLIENT ID: Batch QC Lab ID: QC-2422982-004

Method: EPA 3550C Dilution: 1 Analysis Date: 01/21/26 14:07  
 Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	17.6	%	0.1			<0.1		7.56	10	

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422993

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3832077

General Chemistry Parameters

**MB** CLIENT ID: Method Blank Lab ID: QC-2422993-001  
**Method:** EPA 9056A Dilution: 1 Analysis Date: 01/20/26 23:41  
 Prep Date: 01/20/26 11:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	<3.10	mg/kg	10.0							U

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2422993-002  
**Method:** EPA 9056A Dilution: 1 Analysis Date: 01/20/26 23:49  
 Prep Date: 01/20/26 11:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	95.1	mg/kg	10.0	100		95.1	87-110			

**MS** CLIENT ID: Batch QC Lab ID: QC-2422993-004  
**Method:** EPA 9056A Dilution: 1 Analysis Date: 01/21/26 00:05  
 Prep Date: 01/20/26 11:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	156	mg/kg	12.8	109.21	77.0	82.6	87-110			S

**MSD** CLIENT ID: Batch QC Lab ID: QC-2422993-005  
**Method:** EPA 9056A Dilution: 1 Analysis Date: 01/21/26 00:13  
 Prep Date: 01/20/26 11:59

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	140	mg/kg	13.5	115.08	77.0	64.3	87-110	11.0	15	S

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2426114

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3836798

**Metals**

**MB** CLIENT ID: Method Blank Lab ID: QC-2426114-001

**Method:** EPA 6020B **Dilution:** 1 **Analysis Date:** 01/22/26 17:28  
**Prep Date:** 01/22/26 11:10

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.0300	mg/kg	0.250							U
Barium	<0.230	mg/kg	0.250							U
Cadmium	<0.0150	mg/kg	0.100							U
Chromium	<0.110	mg/kg	0.250							U
Copper	<0.250	mg/kg	0.250							U
Lead	<0.120	mg/kg	0.250							U
Selenium	<0.230	mg/kg	0.250							U
Silver	<0.0330	mg/kg	0.250							U
Zinc	<0.490	mg/kg	0.500							U

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2426114-002

**Method:** EPA 6020B **Dilution:** 1 **Analysis Date:** 01/22/26 17:29  
**Prep Date:** 01/22/26 11:10

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.87	mg/kg	0.250	5		97.4	80-120			
Barium	5.42	mg/kg	0.250	5		108	80-120			
Cadmium	4.88	mg/kg	0.100	5		97.5	80-120			
Chromium	4.88	mg/kg	0.250	5		97.5	80-120			
Copper	4.78	mg/kg	0.250	5		95.6	80-120			
Lead	5.15	mg/kg	0.250	5		103	80-120			
Selenium	4.95	mg/kg	0.250	5		99.1	80-120			
Silver	4.90	mg/kg	0.250	5		98.0	80-120			
Zinc	4.87	mg/kg	0.500	5		97.5	80-120			

**MS** CLIENT ID: Batch QC Lab ID: QC-2426114-004

**Method:** EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 17:32  
**Prep Date:** 01/22/26 11:10

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	8.28	mg/kg	3.81	5.9524	3.36	95.0	75-125			
Barium	60.3	mg/kg	3.81	5	68.9	NC	75-125			O
Cadmium	6.00	mg/kg	1.53	5.9524	<0.179	99.5	75-125			
Chromium	20.6	mg/kg	3.81	5.9524	15.8	140	75-125			S
Copper	21.0	mg/kg	3.81	5.9524	19.6	96.3	75-125			
Lead	14.1	mg/kg	3.81	5.9524	11.7	82.8	75-125			
Selenium	6.33	mg/kg	3.81	5.9524	<2.74	99.4	75-125			
Silver	6.28	mg/kg	3.81	5.9524	<0.393	105	75-125			
Zinc	51.6	mg/kg	7.63	5	54.4	NC	75-125			O

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2426114

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3836798

**MSD** CLIENT ID: Batch QC Lab ID: QC-2426114-005

**Method:** EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 17:34  
**Prep Date:** 01/22/26 11:10

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.93	mg/kg	3.86	6.0241	3.36	121	75-125	18.1	20	
Barium	78.9	mg/kg	3.86	5	68.9	NC	75-125	26.7	20	OR
Cadmium	7.02	mg/kg	1.54	6.0241	<0.181	115	75-125	15.6	20	
Chromium	21.9	mg/kg	3.86	6.0241	15.8	159	75-125	5.92	20	S
Copper	28.2	mg/kg	3.86	6.0241	19.6	215	75-125	29.3	20	RS
Lead	19.2	mg/kg	3.86	6.0241	11.7	167	75-125	30.9	20	RS
Selenium	7.23	mg/kg	3.86	6.0241	<2.77	113	75-125	13.3	20	
Silver	6.54	mg/kg	3.86	6.0241	<0.398	108	75-125	3.98	20	
Zinc	57.2	mg/kg	7.72	5	54.4	NC	75-125	10.3	20	O

**PDS** CLIENT ID: Batch QC Lab ID: QC-2426114-007

**Method:** EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 17:37  
**Prep Date:** 01/22/26 11:10

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	66.9	mg/kg	3.91	61.05	3.36	105	75-125			
Barium	123	mg/kg	3.91	61.05	68.9	113	75-125			
Cadmium	61.0	mg/kg	1.56	61.05	<0.183	99.7	75-125			
Chromium	73.7	mg/kg	3.91	61.05	15.8	101	75-125			
Copper	76.0	mg/kg	3.91	61.05	19.6	99.5	75-125			
Lead	74.1	mg/kg	3.91	61.05	11.7	106	75-125			
Selenium	62.4	mg/kg	3.91	61.05	<2.81	101	75-125			
Silver	50.6	mg/kg	3.91	61.05	<0.403	82.9	75-125			
Zinc	104	mg/kg	7.82	61.05	54.4	101	75-125			

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2427775

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3842171

**Metals**

**MB** CLIENT ID: Method Blank Lab ID: QC-2427775-001

**Method:** EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 15:27  
**Prep Date:** 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	<0.0136	mg/kg	0.0200							U

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2427775-002

**Method:** EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 12:15  
**Prep Date:** 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.200	mg/kg	0.0200	0.1665		120	80-120			

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2427775

**Work Order:** HN2600839  
**Date Collected:** 01/12/26 13:45  
**Date Received:** 01/12/26 16:10  
**Run ID:** 3842737

**Metals**

**MS** CLIENT ID: Batch QC Lab ID: QC-2427775-004

**Method:** EPA 7471B **Dilution:** 100 **Analysis Date:** 01/26/26 15:24  
**Prep Date:** 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	8.60	mg/kg	2.18	0.1665	18.6	NC	75-125			O

**MSD** CLIENT ID: Batch QC Lab ID: QC-2427775-005

**Method:** EPA 7471B **Dilution:** 100 **Analysis Date:** 01/26/26 15:25  
**Prep Date:** 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	9.07	mg/kg	2.16	0.1665	18.6	NC	75-125	5.31	35	O

**The following samples were analyzed in this batch:** HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2421588

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833323

**Organochlorine Pesticides by GC/ECD**

**MB** CLIENT ID: Method Blank Lab ID: QC-2421588-001

**Method:** EPA 8081B **Dilution:** 1 **Analysis Date:** 01/20/26 05:31  
**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0							U
4,4'-DDE	<6.59	µg/kg	10.0							U
4,4'-DDT	<6.65	µg/kg	10.0							U
Aldrin	<6.50	µg/kg	10.0							U
alpha-BHC	<6.58	µg/kg	10.0							U
beta-BHC	<6.57	µg/kg	10.0							U
Chlordane, Technical	<9.92	µg/kg	25.0							U
cis-Chlordane	<6.68	µg/kg	10.0							U
delta-BHC	<6.55	µg/kg	10.0							U
Dieldrin	<6.99	µg/kg	10.0							U
Endosulfan I	<6.72	µg/kg	10.0							U
Endosulfan II	<6.62	µg/kg	10.0							U
Endosulfan sulfate	<6.15	µg/kg	10.0							U
Endrin	<8.09	µg/kg	10.0							U
Endrin aldehyde	<6.34	µg/kg	10.0							U
Endrin ketone	<6.08	µg/kg	10.0							U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0							U
Heptachlor	<6.45	µg/kg	10.0							U
Heptachlor epoxide	<6.62	µg/kg	10.0							U
Methoxychlor	<6.69	µg/kg	10.0							U
Toxaphene	<10.8	µg/kg	60.0							U
trans-Chlordane	<6.64	µg/kg	10.0							U
<i>Surr: Decachlorobiphenyl</i>	<b>41.9</b>	µg/kg		33.33		126	53-151			
<i>Surr: Tetrachloro-m-xylene</i>	<b>32.5</b>	µg/kg		33.33		97.6	67-127			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2421588-002

**Method:** EPA 8081B **Dilution:** 1 **Analysis Date:** 01/20/26 05:46  
**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	32.7	µg/kg	10.0	33.33		98.1	55-141			
4,4'-DDE	32.0	µg/kg	10.0	33.33		96.1	55-143			
4,4'-DDT	32.6	µg/kg	10.0	33.33		97.9	50-144			
Aldrin	34.2	µg/kg	10.0	33.33		103	57-141			
alpha-BHC	33.6	µg/kg	10.0	33.33		101	58-144			
beta-BHC	34.1	µg/kg	10.0	33.33		102	55-147			
cis-Chlordane	32.5	µg/kg	10.0	33.33		97.5	58-142			
delta-BHC	34.3	µg/kg	10.0	33.33		103	59-142			
Dieldrin	32.6	µg/kg	10.0	33.33		98.0	59-142			
Endosulfan I	30.5	µg/kg	10.0	33.33		91.4	57-145			
Endosulfan II	33.0	µg/kg	10.0	33.33		99.0	58-138			
Endosulfan sulfate	32.3	µg/kg	10.0	33.33		96.9	54-136			
Endrin	34.3	µg/kg	10.0	33.33		103	45-150			

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2421588

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833323

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2421588-002

**Method:** EPA 8081B

**Dilution:** 1

**Analysis Date:** 01/20/26 05:46

**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	37.3	µg/kg	10.0	33.33		112	41-147			
Endrin ketone	34.1	µg/kg	10.0	33.33		102	54-146			
gamma-BHC (Lindane)	33.8	µg/kg	10.0	33.33		101	58-145			
Heptachlor	41.0	µg/kg	10.0	33.33		123	51-145			
Heptachlor epoxide	33.1	µg/kg	10.0	33.33		99.4	59-143			
Methoxychlor	32.4	µg/kg	10.0	33.33		97.1	43-144			
trans-Chlordane	32.7	µg/kg	10.0	33.33		98.2	56-145			
Surr: Decachlorobiphenyl	38.8	µg/kg		33.33		117	51-151			
Surr: Tetrachloro-m-xylene	31.9	µg/kg		33.33		95.8	67-127			

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2421588

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 14:40  
**Date Received:** 01/17/26 08:00  
**Run ID:** 3837486

**Organochlorine Pesticides by GC/ECD**

**MS** CLIENT ID: Batch QC Lab ID: QC-2421588-005

**Method:** EPA 8081B **Dilution:** 1 **Analysis Date:** 01/21/26 15:03  
**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	65.8	µg/kg	30.6	81.959	<15.7	80.3	55-141			
4,4'-DDE	66.6	µg/kg	30.6	81.959	<16.2	81.3	55-143			
4,4'-DDT	51.9	µg/kg	30.6	81.959	<16.4	63.3	50-144			
Aldrin	72.2	µg/kg	30.6	81.959	<16.0	88.1	57-141			
alpha-BHC	72.2	µg/kg	30.6	81.959	<16.2	88.1	58-144			
beta-BHC	72.6	µg/kg	30.6	81.959	<16.1	88.6	55-147			
cis-Chlordane	69.7	µg/kg	30.6	81.959	<16.4	85.1	58-142			
delta-BHC	72.1	µg/kg	30.6	81.959	<16.1	88.0	59-142			
Dieldrin	68.4	µg/kg	30.6	81.959	<17.2	83.5	59-142			
Endosulfan I	60.5	µg/kg	30.6	81.959	<16.5	73.8	57-145			
Endosulfan II	71.2	µg/kg	30.6	81.959	<16.3	86.9	58-138			
Endosulfan sulfate	63.8	µg/kg	30.6	81.959	<15.1	77.8	54-135			
Endrin	63.1	µg/kg	30.6	81.959	<19.9	77.0	45-150			
Endrin aldehyde	71.1	µg/kg	30.6	81.959	<15.6	86.8	41-147			
Endrin ketone	64.1	µg/kg	30.6	81.959	<15.0	78.2	54-146			
gamma-BHC (Lindane)	71.1	µg/kg	30.6	81.959	<16.1	86.8	58-145			
Heptachlor	67.5	µg/kg	30.6	81.959	<15.9	82.4	51-145			
Heptachlor epoxide	70.8	µg/kg	30.6	81.959	<16.3	86.4	59-143			
Methoxychlor	50.1	µg/kg	30.6	81.959	<16.4	61.1	43-144			
trans-Chlordane	70.0	µg/kg	30.6	81.959	<16.3	85.4	56-145			
Surr: Decachlorobiphenyl	<b>71.0</b>	µg/kg		81.959		86.6	53-151			
Surr: Tetrachloro-m-xylene	<b>68.6</b>	µg/kg		81.959		83.7	67-127			

**MSD** CLIENT ID: Batch QC Lab ID: QC-2421588-006

**Method:** EPA 8081B **Dilution:** 1 **Analysis Date:** 01/21/26 15:18  
**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	70.5	µg/kg	29.3	78.485	<15.0	89.9	55-141	6.90	20	
4,4'-DDE	71.7	µg/kg	29.3	78.485	<15.5	91.4	55-143	7.32	20	
4,4'-DDT	56.0	µg/kg	29.3	78.485	<15.7	71.3	50-144	7.57	20	
Aldrin	78.1	µg/kg	29.3	78.485	<15.3	99.5	57-141	7.84	20	
alpha-BHC	77.8	µg/kg	29.3	78.485	<15.5	99.2	58-144	7.54	20	
beta-BHC	77.0	µg/kg	29.3	78.485	<15.5	98.1	55-147	5.85	20	
cis-Chlordane	74.5	µg/kg	29.3	78.485	<15.7	94.9	58-142	6.62	20	
delta-BHC	76.9	µg/kg	29.3	78.485	<15.4	98.0	59-142	6.38	20	
Dieldrin	73.6	µg/kg	29.3	78.485	<16.5	93.8	59-142	7.30	20	
Endosulfan I	71.0	µg/kg	29.3	78.485	<15.8	90.4	57-145	15.9	20	
Endosulfan II	73.0	µg/kg	29.3	78.485	<15.6	93.1	58-138	2.56	20	
Endosulfan sulfate	65.9	µg/kg	29.3	78.485	<14.5	83.9	54-135	3.22	20	
Endrin	72.7	µg/kg	29.3	78.485	<19.1	92.7	45-150	14.2	20	
Endrin aldehyde	73.6	µg/kg	29.3	78.485	<14.9	93.8	41-147	3.43	20	
Endrin ketone	66.4	µg/kg	29.3	78.485	<14.3	84.6	54-146	3.54	20	

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2421588

**Work Order:** HN2600839  
**Date Collected:** 01/16/26 14:40  
**Date Received:** 01/17/26 08:00  
**Run ID:** 3837486

**MSD** CLIENT ID: Batch QC Lab ID: QC-2421588-006

**Method:** EPA 8081B **Dilution:** 1 **Analysis Date:** 01/21/26 15:18  
**Prep Date:** 01/19/26 10:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
gamma-BHC (Lindane)	76.3	µg/kg	29.3	78.485	<15.5	97.3	58-145	7.09	20	
Heptachlor	76.1	µg/kg	29.3	78.485	<15.2	97.0	51-145	12.0	20	
Heptachlor epoxide	75.2	µg/kg	29.3	78.485	<15.6	95.8	59-143	6.00	20	
Methoxychlor	51.3	µg/kg	29.3	78.485	<15.7	65.4	43-144	2.47	20	
trans-Chlordane	74.4	µg/kg	29.3	78.485	<15.6	94.8	56-145	6.17	20	
Surr: Decachlorobiphenyl	75.0	µg/kg		78.485		95.5	53-151	5.45	30	
Surr: Tetrachloro-m-xylene	71.4	µg/kg		78.485		91.0	67-127	4.09	30	

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2421582

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833598

**Polychlorinated Biphenyls (PCBs) by GC/ECD**

**MB** CLIENT ID: Method Blank Lab ID: QC-2421582-001

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 17:14  
**Prep Date:** 01/19/26 08:18

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	<22.9	µg/kg	66.7							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	50.3	µg/kg		33.3		151	54-146			S
Surr: Tetrachloro-m-xylene	37.8	µg/kg		33.3		113	58-140			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2421582-002

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 17:26  
**Prep Date:** 01/19/26 08:18

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	804	µg/kg	66.7	833		96.5	71-135			
Aroclor 1260	843	µg/kg	66.7	833		101	67-135			
Surr: Decachlorobiphenyl	49.0	µg/kg		33.3		147	54-146			S
Surr: Tetrachloro-m-xylene	33.1	µg/kg		33.3		99.3	58-140			

The following samples were analyzed in this batch: HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2426088

**Work Order:** HN2600839  
**Date Collected:** 01/12/26 08:00  
**Date Received:** 01/16/26 14:45  
**Run ID:** 3842864

**Polychlorinated Biphenyls (PCBs) by GC/ECD**

**MS** CLIENT ID: Batch QC Lab ID: QC-2426088-005

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/22/26 21:20  
**Prep Date:** 01/22/26 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1550	µg/kg	184	1973.9	<54.2	78.5	71-135			
Aroclor 1260	1530	µg/kg	184	1973.9	<44.1	77.5	67-135			
Surr: Decachlorobiphenyl	73.9	µg/kg		78.91		93.6	54-146			
Surr: Tetrachloro-m-xylene	65.0	µg/kg		78.91		82.4	58-140			

**MSD** CLIENT ID: Batch QC Lab ID: QC-2426088-006

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/22/26 21:32  
**Prep Date:** 01/22/26 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1570	µg/kg	184	1964.6	<53.9	80.1	71-135	1.54	20	
Aroclor 1260	1570	µg/kg	184	1964.6	<43.9	79.9	67-135	2.61	20	
Surr: Decachlorobiphenyl	78.9	µg/kg		78.538		100	54-146	6.60	30	
Surr: Tetrachloro-m-xylene	63.2	µg/kg		78.538		80.5	58-140	2.81	30	

The following samples were analyzed in this batch: HN2600839-001



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2426088

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3842877

**Polychlorinated Biphenyls (PCBs) by GC/ECD**

**MB** CLIENT ID: Method Blank Lab ID: QC-2426088-001

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/23/26 19:45  
**Prep Date:** 01/22/26 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	<22.9	µg/kg	66.7							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	<b>40.9</b>	µg/kg		33.3		123	54-146			
Surr: Tetrachloro-m-xylene	<b>33.8</b>	µg/kg		33.3		102	58-140			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2426088-002

**Method:** EPA 8082A **Dilution:** 1 **Analysis Date:** 01/23/26 19:56  
**Prep Date:** 01/22/26 08:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	684	µg/kg	66.7	833		82.1	71-135			
Aroclor 1260	725	µg/kg	66.7	833		87.0	67-135			
Surr: Decachlorobiphenyl	<b>37.9</b>	µg/kg		33.3		114	54-146			
Surr: Tetrachloro-m-xylene	<b>28.4</b>	µg/kg		33.3		85.4	58-140			

The following samples were analyzed in this batch: HN2600839-001



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

## Semivolatile Organic Compounds by GC-MS

**MB** CLIENT ID: Method Blank Lab ID: QC-2424862-001

**Method:** EPA 8270E

**Dilution:** 1

**Analysis Date:** 01/23/26 14:21

**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	<5.41	µg/kg	33.0							U
1,2,4,5-Tetrachlorobenzene	<7.69	µg/kg	333							U
1,4-Dioxane (1,4- Diethyleneoxide)	<23.9	µg/kg	167							U
1-Methylnaphthalene	<4.80	µg/kg	6.67							U
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<7.81	µg/kg	33.0							U
2,3,4,6-Tetrachlorophenol	<24.4	µg/kg	67.0							U
2,4,5-Trichlorophenol	<19.8	µg/kg	33.0							U
2,4,6-Trichlorophenol	<8.87	µg/kg	33.0							U
2,4-Dichlorophenol	<17.9	µg/kg	33.0							U
2,4-Dimethylphenol	<17.1	µg/kg	33.0							U
2,4-Dinitrophenol	<244	µg/kg	333							U
2,4-Dinitrotoluene (2,4-DNT)	<21.6	µg/kg	33.0							U
2,6-Dinitrotoluene (2,6-DNT)	<8.51	µg/kg	33.0							U
2-Chloronaphthalene	<4.66	µg/kg	6.67							U
2-Chlorophenol	<21.8	µg/kg	33.0							U
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<27.8	µg/kg	33.0							U
2-Methylnaphthalene	<3.39	µg/kg	6.67							U
2-Methylphenol (o-Cresol)	<9.01	µg/kg	33.0							U
2-Nitroaniline	<18.5	µg/kg	33.0							U
2-Nitrophenol	<9.50	µg/kg	33.0							U
3&4-Methylphenol	<18.2	µg/kg	33.0							U
3,3'-Dichlorobenzidine	<15.6	µg/kg	167							U
3-Nitroaniline	<19.4	µg/kg	33.0							U
4-Bromophenyl phenyl ether (BDE-3)	<18.3	µg/kg	33.0							U
4-Chloro-3-methylphenol	<9.50	µg/kg	33.0							U
4-Chloroaniline	<16.9	µg/kg	67.0							U
4-Chlorophenyl phenylether	<9.21	µg/kg	33.0							U
4-Nitroaniline	<51.7	µg/kg	167							U
4-Nitrophenol	<78.1	µg/kg	333							U
Acenaphthene	<4.82	µg/kg	6.67							U
Acenaphthylene	<5.78	µg/kg	6.67							U
Acetophenone	<5.22	µg/kg	33.0							U
Anthracene	<4.70	µg/kg	6.67							U
Atrazine	<19.5	µg/kg	33.0							U
Benzaldehyde	<51.2	µg/kg	67.0							U
Benzo(a)anthracene	<5.76	µg/kg	6.67							U
Benzo(a)pyrene	<4.09	µg/kg	6.67							U
Benzo(b)fluoranthene	<4.97	µg/kg	6.67							U
Benzo(g,h,i)perylene	<5.11	µg/kg	6.67							U
Benzo(k)fluoranthene	<5.05	µg/kg	6.67							U
bis(2-Chloroethoxy)methane	<21.1	µg/kg	33.0							U
bis(2-Chloroethyl) ether	<9.44	µg/kg	33.0							U



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**MB** CLIENT ID: Method Blank Lab ID: QC-2424862-001

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 14:21  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0							U
Caprolactam	<30.1	µg/kg	33.0							U
Carbazole	<9.82	µg/kg	33.0							U
Chrysene	<5.39	µg/kg	6.67							U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0							U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0							U
Dibenzofuran	<4.90	µg/kg	33.0							U
Diethyl phthalate	<11.3	µg/kg	33.0							U
Dimethyl phthalate	<6.50	µg/kg	33.0							U
Fluoranthene	<3.20	µg/kg	6.67							U
Fluorene	<4.84	µg/kg	6.67							U
Hexachlorobenzene	<9.70	µg/kg	33.0							U
Hexachlorobutadiene	<7.85	µg/kg	33.0							U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0							U
Hexachloroethane	<13.8	µg/kg	33.0							U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67							U
Isophorone	<6.51	µg/kg	167							U
Methylphenol, Total	<9.01	µg/kg	67.0							U
Naphthalene	<4.26	µg/kg	6.67							U
Nitrobenzene	<11.2	µg/kg	167							U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0							U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0							U
Pentachlorophenol	<26.5	µg/kg	33.0							U
Phenanthrene	<3.10	µg/kg	6.67							U
Phenol	<16.7	µg/kg	33.0							U
Pyrene	<3.33	µg/kg	6.67							U
Pyridine	<65.6	µg/kg	167							U
Surr: 2,4,6-Tribromophenol	<b>2400</b>	µg/kg		3333		72.0	48-94			
Surr: 2-Fluorobiphenyl	<b>2440</b>	µg/kg		3333		73.1	50-103			
Surr: 2-Fluorophenol	<b>2560</b>	µg/kg		3333		76.7	43-105			
Surr: 4-Terphenyl-d14	<b>3350</b>	µg/kg		3333		100	55-111			
Surr: Nitrobenzene-d5	<b>3050</b>	µg/kg		3333		91.4	47-100			
Surr: Phenol-d6	<b>2520</b>	µg/kg		3333		75.7	49-110			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2424862-002

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 14:42  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1030	µg/kg	33.0	1333		77.6	57-101			
1,2,4,5-Tetrachlorobenzene	1050	µg/kg	333	1333		79.1	54-98			
1-Methylnaphthalene	1030	µg/kg	6.67	1333		77.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1030	µg/kg	33.0	1333		77.1	50-101			
2,3,4,6-Tetrachlorophenol	1060	µg/kg	67.0	1333		79.8	48-103			



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**LCS**      **CLIENT ID: Laboratory Control Sample**      **Lab ID: QC-2424862-002**

**Method:** EPA 8270E

**Dilution:** 1

**Analysis Date:** 01/23/26 14:42

**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1040	µg/kg	33.0	1333		77.9	54-98			
2,4,6-Trichlorophenol	1000	µg/kg	33.0	1333		75.1	56-97			
2,4-Dichlorophenol	1050	µg/kg	33.0	1333		79.1	54-99			
2,4-Dimethylphenol	893	µg/kg	33.0	1333		67.0	47-102			
2,4-Dinitrophenol	975	µg/kg	333	1333		73.1	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1030	µg/kg	33.0	1333		77.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1030	µg/kg	33.0	1333		77.5	62-103			
2-Chloronaphthalene	993	µg/kg	6.67	1333		74.5	57-101			
2-Chlorophenol	993	µg/kg	33.0	1333		74.5	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1180	µg/kg	33.0	1333		88.8	42-104			
2-Methylnaphthalene	1030	µg/kg	6.67	1333		77.4	55-102			
2-Methylphenol (o-Cresol)	935	µg/kg	33.0	1333		70.2	54-103			
2-Nitroaniline	1180	µg/kg	33.0	1333		88.2	57-103			
2-Nitrophenol	1210	µg/kg	33.0	1333		90.4	52-102			
3&4-Methylphenol	962	µg/kg	33.0	1333		72.2	56-103			
3,3'-Dichlorobenzidine	829	µg/kg	167	1333		62.2	41-91			
3-Nitroaniline	687	µg/kg	33.0	1333		51.6	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1090	µg/kg	33.0	1333		82.0	63-104			
4-Chloro-3-methylphenol	1110	µg/kg	33.0	1333		82.9	57-103			
4-Chloroaniline	1060	µg/kg	67.0	1333		79.8	32-99			
4-Chlorophenyl phenylether	972	µg/kg	33.0	1333		72.9	62-100			
4-Nitroaniline	538	µg/kg	167	1333		40.4	19-124			
4-Nitrophenol	961	µg/kg	333	1333		72.1	44-106			
Acenaphthene	1000	µg/kg	6.67	1333		75.3	60-101			
Acenaphthylene	1040	µg/kg	6.67	1333		77.9	59-101			
Acetophenone	964	µg/kg	33.0	1333		72.3	54-102			
Anthracene	1070	µg/kg	6.67	1333		80.2	63-96			
Atrazine	1010	µg/kg	33.0	1333		75.5	60-110			
Benzaldehyde	223	µg/kg	67.0	1333		16.8	10-143			
Benzo(a)anthracene	1170	µg/kg	6.67	1333		87.5	66-102			
Benzo(a)pyrene	1120	µg/kg	6.67	1333		84.3	66-105			
Benzo(b)fluoranthene	1160	µg/kg	6.67	1333		87.0	67-105			
Benzo(g,h,i)perylene	1120	µg/kg	6.67	1333		83.9	59-110			
Benzo(k)fluoranthene	1050	µg/kg	6.67	1333		78.5	68-106			
bis(2-Chloroethoxy)methane	1030	µg/kg	33.0	1333		77.1	54-102			
bis(2-Chloroethyl) ether	949	µg/kg	33.0	1333		71.2	51-101			
Butyl benzyl phthalate	1220	µg/kg	67.0	1333		91.4	59-107			
Caprolactam	1070	µg/kg	33.0	1333		80.6	49-103			
Carbazole	1040	µg/kg	33.0	1333		78.2	63-103			
Chrysene	1150	µg/kg	6.67	1333		86.5	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1300	µg/kg	33.0	1333		97.5	63-101			
Dibenz(a,h) anthracene	1140	µg/kg	33.0	1333		85.7	61-109			
Dibenzofuran	997	µg/kg	33.0	1333		74.8	61-101			
Diethyl phthalate	1030	µg/kg	33.0	1333		77.0	63-105			

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2424862-002

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 14:42  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1010	µg/kg	33.0	1333		75.5	64-104			
Fluoranthene	1040	µg/kg	6.67	1333		78.1	66-105			
Fluorene	986	µg/kg	6.67	1333		74.0	62-101			
Hexachlorobenzene	1070	µg/kg	33.0	1333		80.1	61-104			
Hexachlorobutadiene	1060	µg/kg	33.0	1333		79.8	52-99			
Hexachlorocyclopentadiene	941	µg/kg	33.0	1333		70.6	39-106			
Hexachloroethane	1000	µg/kg	33.0	1333		75.0	59-99			
Indeno(1,2,3-cd) pyrene	1180	µg/kg	6.67	1333		88.4	57-114			
Isophorone	1090	µg/kg	167	1333		82.0	55-101			
Methylphenol, Total	1900	µg/kg	67.0	2667		71.1	54-103			
Naphthalene	1060	µg/kg	6.67	1333		79.6	54-99			
Nitrobenzene	1130	µg/kg	167	1333		84.4	53-100			
n-Nitrosodi-n-propylamine	1030	µg/kg	33.0	1333		77.1	52-104			
N-Nitrosodiphenylamine	1090	µg/kg	33.0	1333		82.1	61-104			
Pentachlorophenol	1050	µg/kg	33.0	1333		78.6	35-100			
Phenanthrene	1100	µg/kg	6.67	1333		82.6	64-101			
Phenol	961	µg/kg	33.0	1333		72.1	51-107			
Pyrene	1230	µg/kg	6.67	1333		92.2	62-114			
Pyridine	716	µg/kg	167	1333		53.7	40-84			
Surr: 2,4,6-Tribromophenol	2600	µg/kg		3333		77.9	48-94			
Surr: 2-Fluorobiphenyl	2470	µg/kg		3333		74.2	50-103			
Surr: 2-Fluorophenol	2450	µg/kg		3333		73.5	43-105			
Surr: 4-Terphenyl-d14	3020	µg/kg		3333		90.7	55-111			
Surr: Nitrobenzene-d5	2970	µg/kg		3333		89.0	47-100			
Surr: Phenol-d6	2510	µg/kg		3333		75.2	49-110			

**MS** CLIENT ID: Batch QC Lab ID: QC-2424862-005

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 15:02  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2570	µg/kg	85.4	3219.8	<13.1	79.9	57-101			
1,2,4,5-Tetrachlorobenzene	2680	µg/kg	862	3219.8	<18.6	83.2	54-98			
1-Methylnaphthalene	2660	µg/kg	17.3	3219.8	<11.6	82.6	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2650	µg/kg	85.4	3219.8	<18.9	82.3	50-101			
2,3,4,6-Tetrachlorophenol	2620	µg/kg	173	3219.8	<59.0	81.3	48-103			
2,4,5-Trichlorophenol	2760	µg/kg	85.4	3219.8	<47.7	85.8	54-98			
2,4,6-Trichlorophenol	2620	µg/kg	85.4	3219.8	<21.4	81.4	56-97			
2,4-Dichlorophenol	2680	µg/kg	85.4	3219.8	<43.3	83.3	54-99			
2,4-Dimethylphenol	2480	µg/kg	85.4	3219.8	<41.4	77.2	47-102			
2,4-Dinitrophenol	3300	µg/kg	862	3219.8	<589	102	10-100			S
2,4-Dinitrotoluene (2,4-DNT)	2550	µg/kg	85.4	3219.8	<52.3	79.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	2720	µg/kg	85.4	3219.8	<20.6	84.5	62-103			
2-Chloronaphthalene	2620	µg/kg	17.3	3219.8	<11.3	81.3	57-101			



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**MS** CLIENT ID: Batch QC Lab ID: QC-2424862-005

**Method:** EPA 8270E

**Dilution:** 1

**Analysis Date:** 01/23/26 15:02

**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	2590	µg/kg	85.4	3219.8	<52.7	80.6	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	3250	µg/kg	85.4	3219.8	<67.2	101	42-104			
2-Methylnaphthalene	2630	µg/kg	17.3	3219.8	<8.19	81.8	55-102			
2-Methylphenol (o-Cresol)	2480	µg/kg	85.4	3219.8	<21.8	77.1	54-103			
2-Nitroaniline	2990	µg/kg	85.4	3219.8	<44.7	92.8	57-103			
2-Nitrophenol	3170	µg/kg	85.4	3219.8	<22.9	98.4	52-102			
3&4-Methylphenol	2430	µg/kg	85.4	3219.8	<43.9	75.4	56-103			
3,3'-Dichlorobenzidine	1740	µg/kg	431	3219.8	<37.6	54.2	41-91			
3-Nitroaniline	2710	µg/kg	85.4	3219.8	<46.7	84.1	35-107			
4-Bromophenyl phenyl ether (BDE-3)	2800	µg/kg	85.4	3219.8	<44.1	86.9	63-104			
4-Chloro-3-methylphenol	2760	µg/kg	85.4	3219.8	<22.9	85.8	57-103			
4-Chloroaniline	2600	µg/kg	173	3219.8	<40.9	80.6	32-99			
4-Chlorophenyl phenylether	2520	µg/kg	85.4	3219.8	<22.2	78.2	62-100			
4-Nitroaniline	2530	µg/kg	431	3219.8	<125	78.7	19-124			
4-Nitrophenol	2570	µg/kg	862	3219.8	<189	79.7	44-106			
Acenaphthene	2560	µg/kg	17.3	3219.8	<11.6	79.5	60-101			
Acenaphthylene	2650	µg/kg	17.3	3219.8	<14.0	82.4	59-101			
Acetophenone	2490	µg/kg	85.4	3219.8	<12.6	77.3	54-102			
Anthracene	2730	µg/kg	17.3	3219.8	<11.4	84.9	63-96			
Atrazine	2530	µg/kg	85.4	3219.8	<47.2	78.7	60-110			
Benzaldehyde	3420	µg/kg	173	3219.8	<124	106	10-143			
Benzo(a)anthracene	3010	µg/kg	17.3	3219.8	<13.9	93.5	66-102			
Benzo(a)pyrene	2860	µg/kg	17.3	3219.8	<9.88	88.7	66-105			
Benzo(b)fluoranthene	2810	µg/kg	17.3	3219.8	<12.0	87.2	67-105			
Benzo(g,h,i)perylene	2970	µg/kg	17.3	3219.8	<12.3	92.4	59-110			
Benzo(k)fluoranthene	2730	µg/kg	17.3	3219.8	<12.2	84.8	68-106			
bis(2-Chloroethoxy)methane	2650	µg/kg	85.4	3219.8	<51.0	82.3	54-102			
bis(2-Chloroethyl) ether	2510	µg/kg	85.4	3219.8	<22.8	77.9	51-101			
Butyl benzyl phthalate	3070	µg/kg	173	3219.8	<101	95.2	59-107			
Caprolactam	2740	µg/kg	85.4	3219.8	<72.7	85.1	49-103			
Carbazole	2700	µg/kg	85.4	3219.8	<23.7	84.0	63-103			
Chrysene	2990	µg/kg	17.3	3219.8	<13.7	92.9	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3260	µg/kg	85.4	3219.8	<66.6	101	63-101			
Dibenz(a,h) anthracene	3070	µg/kg	85.4	3219.8	<8.70	95.3	61-109			
Dibenzofuran	2600	µg/kg	85.4	3219.8	<11.8	80.8	61-101			
Diethyl phthalate	2600	µg/kg	85.4	3219.8	<27.4	80.7	63-105			
Dimethyl phthalate	2560	µg/kg	85.4	3219.8	<15.7	79.5	64-104			
Fluoranthene	2660	µg/kg	17.3	3219.8	<7.73	82.6	66-105			
Fluorene	2510	µg/kg	17.3	3219.8	<11.7	78.1	62-101			
Hexachlorobenzene	2740	µg/kg	85.4	3219.8	<23.4	85.2	61-104			
Hexachlorobutadiene	2720	µg/kg	85.4	3219.8	<19.0	84.6	52-99			
Hexachlorocyclopentadiene	2300	µg/kg	85.4	3219.8	<78.7	71.5	39-106			
Hexachloroethane	2620	µg/kg	85.4	3219.8	<33.3	81.4	59-99			
Indeno(1,2,3-cd) pyrene	3100	µg/kg	17.3	3219.8	<11.2	96.4	57-114			

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

MS		CLIENT ID: Batch QC			Lab ID: QC-2424862-005					
Method: EPA 8270E		Dilution: 1			Analysis Date: 01/23/26 15:02					
					Prep Date: 01/21/26 20:33					
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	2720	µg/kg	431	3219.8	<15.7	84.5	55-101			
Methylphenol, Total	4910	µg/kg	85.4	6442	<21.8	76.2	54-103			
Naphthalene	2630	µg/kg	17.3	3219.8	<10.3	81.6	54-99			
Nitrobenzene	2810	µg/kg	431	3219.8	<27.1	87.4	53-100			
n-Nitrosodi-n-propylamine	2590	µg/kg	85.4	3219.8	<13.3	80.4	52-104			
N-Nitrosodiphenylamine	2790	µg/kg	85.4	3219.8	<46.6	86.6	61-104			
Pentachlorophenol	2920	µg/kg	85.4	3219.8	<64.0	90.8	35-100			
Phenanthrene	2810	µg/kg	17.3	3219.8	<7.49	87.2	64-101			
Phenol	2490	µg/kg	85.4	3219.8	<40.4	77.3	51-107			
Pyrene	3140	µg/kg	17.3	3219.8	<8.03	97.4	52-114			
Pyridine	1070	µg/kg	431	3219.8	<158	33.1	40-84			S
Surr: 2,4,6-Tribromophenol	<b>6430</b>	µg/kg		8050.7		79.9	48-94			
Surr: 2-Fluorobiphenyl	<b>6080</b>	µg/kg		8050.7		75.5	50-103			
Surr: 2-Fluorophenol	<b>6050</b>	µg/kg		8050.7		75.2	43-105			
Surr: 4-Terphenyl-d14	<b>7340</b>	µg/kg		8050.7		91.1	55-111			
Surr: Nitrobenzene-d5	<b>7380</b>	µg/kg		8050.7		91.7	47-100			
Surr: Phenol-d6	<b>6290</b>	µg/kg		8050.7		78.2	49-110			

MSD		CLIENT ID: Batch QC			Lab ID: QC-2424862-006					
Method: EPA 8270E		Dilution: 1			Analysis Date: 01/23/26 15:23					
					Prep Date: 01/21/26 20:33					
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2690	µg/kg	85.4	3219.8	<13.1	83.6	57-101	4.47	30	
1,2,4,5-Tetrachlorobenzene	2800	µg/kg	862	3219.8	<18.6	87.1	54-98	4.52	30	
1-Methylnaphthalene	2810	µg/kg	17.3	3219.8	<11.6	87.4	56-100	5.71	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2820	µg/kg	85.4	3219.8	<18.9	87.5	50-101	6.12	30	
2,3,4,6-Tetrachlorophenol	2980	µg/kg	173	3219.8	<59.0	92.6	48-103	13.0	30	
2,4,5-Trichlorophenol	2920	µg/kg	85.4	3219.8	<47.7	90.6	54-98	5.50	30	
2,4,6-Trichlorophenol	2910	µg/kg	85.4	3219.8	<21.4	90.3	56-97	10.4	30	
2,4-Dichlorophenol	2950	µg/kg	85.4	3219.8	<43.3	91.5	54-99	9.44	30	
2,4-Dimethylphenol	2650	µg/kg	85.4	3219.8	<41.4	82.4	47-102	6.52	30	
2,4-Dinitrophenol	3590	µg/kg	862	3219.8	<589	112	10-100	8.50	30	S
2,4-Dinitrotoluene (2,4-DNT)	2770	µg/kg	85.4	3219.8	<52.3	86.2	62-105	8.34	30	
2,6-Dinitrotoluene (2,6-DNT)	2840	µg/kg	85.4	3219.8	<20.6	88.3	62-103	4.46	30	
2-Chloronaphthalene	2760	µg/kg	17.3	3219.8	<11.3	85.9	57-101	5.51	30	
2-Chlorophenol	2690	µg/kg	85.4	3219.8	<52.7	83.5	52-102	3.60	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	3510	µg/kg	85.4	3219.8	<67.2	109	42-104	7.58	30	S
2-Methylnaphthalene	2740	µg/kg	17.3	3219.8	<8.19	85.0	55-102	3.78	30	
2-Methylphenol (o-Cresol)	2640	µg/kg	85.4	3219.8	<21.8	82.0	54-103	6.16	30	
2-Nitroaniline	3130	µg/kg	85.4	3219.8	<44.7	97.1	57-103	4.58	30	
2-Nitrophenol	3250	µg/kg	85.4	3219.8	<22.9	101	52-102	2.56	30	
3&4-Methylphenol	2560	µg/kg	85.4	3219.8	<43.9	79.5	56-103	5.29	30	
3,3'-Dichlorobenzidine	1900	µg/kg	431	3219.8	<37.6	58.9	41-91	8.40	30	

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**MSD** CLIENT ID: Batch QC Lab ID: QC-2424862-006

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 15:23  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	2840	µg/kg	85.4	3219.8	<46.7	88.3	35-107	4.93	30	
4-Bromophenyl phenyl ether (BDE-3)	3040	µg/kg	85.4	3219.8	<44.1	94.5	63-104	8.38	30	
4-Chloro-3-methylphenol	2880	µg/kg	85.4	3219.8	<22.9	89.5	57-103	4.28	30	
4-Chloroaniline	2490	µg/kg	173	3219.8	<40.9	77.4	32-99	4.05	30	
4-Chlorophenyl phenylether	2660	µg/kg	85.4	3219.8	<22.2	82.6	62-100	5.41	30	
4-Nitroaniline	2460	µg/kg	431	3219.8	<125	76.5	19-124	2.77	30	
4-Nitrophenol	2720	µg/kg	862	3219.8	<189	84.4	44-106	5.73	30	
Acenaphthene	2710	µg/kg	17.3	3219.8	<11.6	84.1	60-101	5.69	30	
Acenaphthylene	2810	µg/kg	17.3	3219.8	<14.0	87.4	59-101	5.95	30	
Acetophenone	2680	µg/kg	85.4	3219.8	<12.6	83.3	54-102	7.54	30	
Anthracene	2970	µg/kg	17.3	3219.8	<11.4	92.2	63-96	8.25	30	
Atrazine	2630	µg/kg	85.4	3219.8	<47.2	81.6	60-110	3.62	30	
Benzaldehyde	4000	µg/kg	173	3219.8	<124	124	10-143	15.8	30	
Benzo(a)anthracene	3140	µg/kg	17.3	3219.8	<13.9	97.5	66-102	4.19	30	
Benzo(a)pyrene	3030	µg/kg	17.3	3219.8	<9.88	94.1	66-105	5.91	30	
Benzo(b)fluoranthene	3030	µg/kg	17.3	3219.8	<12.0	94.1	67-105	7.56	30	
Benzo(g,h,i)perylene	3140	µg/kg	17.3	3219.8	<12.3	97.5	59-110	5.37	30	
Benzo(k)fluoranthene	2730	µg/kg	17.3	3219.8	<12.2	84.9	68-106	0.118	30	
bis(2-Chloroethoxy)methane	2820	µg/kg	85.4	3219.8	<51.0	87.5	54-102	6.12	30	
bis(2-Chloroethyl) ether	2770	µg/kg	85.4	3219.8	<22.8	85.9	51-101	9.77	30	
Butyl benzyl phthalate	3250	µg/kg	173	3219.8	<101	101	59-107	5.81	30	
Caprolactam	2850	µg/kg	85.4	3219.8	<72.7	88.6	49-103	4.03	30	
Carbazole	2870	µg/kg	85.4	3219.8	<23.7	89.0	63-103	5.84	30	
Chrysene	3080	µg/kg	17.3	3219.8	<13.7	95.6	66-105	2.81	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3410	µg/kg	85.4	3219.8	<66.6	106	63-101	4.53	30	S
Dibenz(a,h) anthracene	3270	µg/kg	85.4	3219.8	<8.70	101	61-109	6.20	30	
Dibenzofuran	2790	µg/kg	85.4	3219.8	<11.8	86.6	61-101	6.93	30	
Diethyl phthalate	2710	µg/kg	85.4	3219.8	<27.4	84.1	63-105	4.13	30	
Dimethyl phthalate	2730	µg/kg	85.4	3219.8	<15.7	84.9	64-104	6.57	30	
Fluoranthene	2840	µg/kg	17.3	3219.8	<7.73	88.3	66-105	6.67	30	
Fluorene	2720	µg/kg	17.3	3219.8	<11.7	84.4	62-101	7.82	30	
Hexachlorobenzene	2940	µg/kg	85.4	3219.8	<23.4	91.4	61-104	6.97	30	
Hexachlorobutadiene	2900	µg/kg	85.4	3219.8	<19.0	90.2	52-99	6.41	30	
Hexachlorocyclopentadiene	2500	µg/kg	85.4	3219.8	<78.7	77.6	39-106	8.18	30	
Hexachloroethane	2610	µg/kg	85.4	3219.8	<33.3	81.2	59-99	0.246	30	
Indeno(1,2,3-cd) pyrene	3400	µg/kg	17.3	3219.8	<11.2	106	57-114	9.11	30	
Isophorone	2910	µg/kg	431	3219.8	<15.7	90.4	55-101	6.69	30	
Methylphenol, Total	5200	µg/kg	85.4	6442	<21.8	80.7	54-103	5.73	30	
Naphthalene	2840	µg/kg	17.3	3219.8	<10.3	88.2	54-99	7.72	30	
Nitrobenzene	3000	µg/kg	431	3219.8	<27.1	93.3	53-100	6.53	30	
n-Nitrosodi-n-propylamine	2760	µg/kg	85.4	3219.8	<13.3	85.8	52-104	6.50	30	
N-Nitrosodiphenylamine	3000	µg/kg	85.4	3219.8	<46.6	93.0	61-104	7.13	30	
Pentachlorophenol	3310	µg/kg	85.4	3219.8	<64.0	103	35-100	12.4	30	S
Phenanthrene	2950	µg/kg	17.3	3219.8	<7.49	91.6	64-101	4.92	30	
Phenol	2520	µg/kg	85.4	3219.8	<40.4	78.2	51-107	1.22	30	

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2424862

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3839343

**MSD** CLIENT ID: Batch QC Lab ID: QC-2424862-006

**Method:** EPA 8270E **Dilution:** 1 **Analysis Date:** 01/23/26 15:23  
**Prep Date:** 01/21/26 20:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	3220	µg/kg	17.3	3219.8	<8.03	100	52-114	2.69	30	
Pyridine	931	µg/kg	431	3219.8	<158	28.9	40-84	13.5	30	S
<i>Surr: 2,4,6-Tribromophenol</i>	<b>6890</b>	µg/kg		8050.7		85.5	48-94	6.82	30	
<i>Surr: 2-Fluorobiphenyl</i>	<b>6500</b>	µg/kg		8050.7		80.7	50-103	6.61	30	
<i>Surr: 2-Fluorophenol</i>	<b>6400</b>	µg/kg		8050.7		79.4	43-105	5.48	30	
<i>Surr: 4-Terphenyl-d14</i>	<b>7480</b>	µg/kg		8050.7		92.9	55-111	1.91	30	
<i>Surr: Nitrobenzene-d5</i>	<b>7690</b>	µg/kg		8050.7		95.5	47-100	4.02	30	
<i>Surr: Phenol-d6</i>	<b>6550</b>	µg/kg		8050.7		81.3	49-110	3.94	30	

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**Volatile Organic Compounds by GC-MS**

**MB** CLIENT ID: Method Blank Lab ID: QC-2422298-001

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 02:19

**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	<13.6	µg/kg	30.0							U
1,1,2,2-Tetrachloroethane	<13.2	µg/kg	30.0							U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<19.0	µg/kg	30.0							U
1,1,2-Trichloroethane	<12.8	µg/kg	30.0							U
1,1-Dichloroethane	<10.9	µg/kg	30.0							U
1,1-Dichloroethylene	<9.72	µg/kg	30.0							U
1,2,3-Trichlorobenzene	<36.0	µg/kg	100							U
1,2,3-Trichloropropane	<12.6	µg/kg	30.0							U
1,2,4-Trichlorobenzene	<34.0	µg/kg	100							U
1,2,4-Trimethylbenzene	<22.0	µg/kg	30.0							U
1,2-Dibromo-3-chloropropane (DBCP)	<27.6	µg/kg	100							U
1,2-Dibromoethane (EDB, Ethylene dibromide)	<17.6	µg/kg	30.0							U
1,2-Dichlorobenzene (o-Dichlorobenzene)	<11.4	µg/kg	30.0							U
1,2-Dichloroethane (Ethylene dichloride)	<26.3	µg/kg	100							U
1,2-Dichloropropane	<22.1	µg/kg	30.0							U
1,3,5-Trimethylbenzene	<21.2	µg/kg	100							U
1,3-Dichlorobenzene (m-Dichlorobenzene)	<20.7	µg/kg	30.0							U
1,3-Dichloropropene	<16.8	µg/kg	60.0							U
1,4-Dichlorobenzene (p-Dichlorobenzene)	<24.4	µg/kg	30.0							U
2-Butanone (Methyl ethyl ketone, MEK)	<71.4	µg/kg	200							U
2-Hexanone	<14.9	µg/kg	30.0							U
4-Methyl-2-pentanone (MIBK)	<28.0	µg/kg	30.0							U
Acetone	<89.0	µg/kg	100							U
Benzene	<14.5	µg/kg	30.0							U
Bromochloromethane	<15.3	µg/kg	30.0							U
Bromodichloromethane	<16.8	µg/kg	30.0							U
Bromoform	<12.6	µg/kg	30.0							U
Carbon disulfide	<15.5	µg/kg	30.0							U
Carbon tetrachloride	<11.7	µg/kg	30.0							U
Chlorobenzene	<9.96	µg/kg	30.0							U
Chlorodibromomethane	<16.8	µg/kg	30.0							U
Chloroethane (Ethyl chloride)	<84.0	µg/kg	100							U
Chloroform	<11.0	µg/kg	30.0							U
cis-1,2-Dichloroethylene	<19.3	µg/kg	30.0							U
cis-1,3-Dichloropropene	<22.6	µg/kg	30.0							U
Cyclohexane	<23.0	µg/kg	100							U
Dichlorodifluoromethane (Freon-12)	<36.3	µg/kg	100							U
Ethylbenzene	<21.3	µg/kg	30.0							U



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**MB** CLIENT ID: Method Blank Lab ID: QC-2422298-001

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 02:19  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	999	µg/kg		1000		99.9	80-120			
Surr: 4-Bromofluorobenzene	1060	µg/kg		1000		106	80-120			
Surr: Dibromofluoromethane	970	µg/kg		1000		97.0	72-120			
Surr: Toluene-d8	1000	µg/kg		1000		100	80-120			

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2422298-002

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 01:20  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	903	µg/kg	30.0	1000		90.3	75-121			
1,1,2,2-Tetrachloroethane	904	µg/kg	30.0	1000		90.4	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	854	µg/kg	30.0	1000		85.4	62-129			
1,1,2-Trichloroethane	916	µg/kg	30.0	1000		91.6	80-123			
1,1-Dichloroethane	846	µg/kg	30.0	1000		84.6	74-124			
1,1-Dichloroethylene	835	µg/kg	30.0	1000		83.5	68-131			
1,2,3-Trichlorobenzene	966	µg/kg	100	1000		96.6	60-135			
1,2,3-Trichloropropane	920	µg/kg	30.0	1000		92.0	77-121			
1,2,4-Trichlorobenzene	949	µg/kg	100	1000		94.9	63-130			
1,2,4-Trimethylbenzene	898	µg/kg	30.0	1000		89.8	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	875	µg/kg	100	1000		87.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	920	µg/kg	30.0	1000		92.0	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	946	µg/kg	30.0	1000		94.6	77-122			



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2422298-002

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 01:20

**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	927	µg/kg	100	1000		92.7	70-130			
1,2-Dichloropropane	867	µg/kg	30.0	1000		86.7	71-130			
1,3,5-Trimethylbenzene	928	µg/kg	100	1000		92.8	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	936	µg/kg	30.0	1000		93.6	78-121			
1,3-Dichloropropene	1680	µg/kg	60.0	2000		84.2	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	943	µg/kg	30.0	1000		94.3	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	967	µg/kg	200	1000		96.7	47-164			
2-Hexanone	986	µg/kg	30.0	1000		98.6	70-137			
4-Methyl-2-pentanone (MIBK)	1470	µg/kg	30.0	1000		147	57-200			
Acetone	956	µg/kg	100	1000		95.6	52-190			
Benzene	922	µg/kg	30.0	1000		92.2	78-122			
Bromochloromethane	848	µg/kg	30.0	1000		84.8	68-130			
Bromodichloromethane	902	µg/kg	30.0	1000		90.2	75-125			
Bromoform	858	µg/kg	30.0	1000		85.8	59-120			
Carbon disulfide	934	µg/kg	30.0	1000		93.4	60-163			
Carbon tetrachloride	866	µg/kg	30.0	1000		86.6	69-123			
Chlorobenzene	902	µg/kg	30.0	1000		90.2	79-120			
Chlorodibromomethane	894	µg/kg	30.0	1000		89.4	57-123			
Chloroethane (Ethyl chloride)	629	µg/kg	100	1000		62.9	38-132			
Chloroform	849	µg/kg	30.0	1000		84.9	72-122			
cis-1,2-Dichloroethylene	867	µg/kg	30.0	1000		86.7	74-125			
cis-1,3-Dichloropropene	862	µg/kg	30.0	1000		86.2	62-124			
Dichlorodifluoromethane (Freon-12)	472	µg/kg	100	1000		47.2	28-137			
Ethylbenzene	937	µg/kg	30.0	1000		93.7	75-121			
Isopropylbenzene	922	µg/kg	30.0	1000		92.2	74-121			
m+p-Xylene	1890	µg/kg	60.0	2000		94.7	67-129			
Methyl acetate	757	µg/kg	250	1000		75.7	61-125			
Methyl bromide (Bromomethane)	592	µg/kg	100	1000		59.2	31-169			
Methyl chloride (Chloromethane)	544	µg/kg	100	1000		54.4	24-119			
Methyl tert-butyl ether (MTBE)	876	µg/kg	30.0	1000		87.6	79-139			
Methylene chloride (Dichloromethane)	874	µg/kg	250	1000		87.4	62-135			
o-Xylene	940	µg/kg	30.0	1000		94.0	75-120			
Styrene	908	µg/kg	30.0	1000		90.8	74-126			
Tetrachloroethylene (Perchloroethylene)	1200	µg/kg	30.0	1000		120	76-128			
Toluene	895	µg/kg	30.0	1000		89.5	76-120			
Total Xylene	2830	µg/kg	90.0	3000		94.5	67-129			
trans-1,2-Dichloroethylene	862	µg/kg	30.0	1000		86.2	72-127			
trans-1,3-Dichloropropylene	822	µg/kg	30.0	1000		82.2	66-120			
Trichloroethene (Trichloroethylene)	934	µg/kg	30.0	1000		93.4	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	624	µg/kg	30.0	1000		62.4	51-115			
Vinyl chloride (Chloroethene)	550	µg/kg	30.0	1000		55.0	43-128			



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**LCS** CLIENT ID: Laboratory Control Sample Lab ID: QC-2422298-002

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 01:20  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	992	µg/kg		1000		99.2	80-120			
Surr: 4-Bromofluorobenzene	1000	µg/kg		1000		100	80-120			
Surr: Dibromofluoromethane	1020	µg/kg		1000		102	72-120			
Surr: Toluene-d8	973	µg/kg		1000		97.3	80-120			

**MS** CLIENT ID: Batch QC Lab ID: QC-2422298-005

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 10:09  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	940	µg/kg	43.4	968.05	<13.2	97.1	75-121			
1,1,2,2-Tetrachloroethane	734	µg/kg	43.4	968.05	<12.8	75.8	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	755	µg/kg	43.4	968.05	<18.4	78.0	62-129			
1,1,2-Trichloroethane	899	µg/kg	43.4	968.05	<12.3	92.9	80-123			
1,1-Dichloroethane	879	µg/kg	43.4	968.05	<10.6	90.8	74-124			
1,1-Dichloroethylene	766	µg/kg	43.4	968.05	<9.41	79.1	68-131			
1,2,3-Trichlorobenzene	923	µg/kg	145	968.05	<34.8	95.4	60-135			
1,2,3-Trichloropropane	914	µg/kg	43.4	968.05	<12.2	94.4	77-121			
1,2,4-Trichlorobenzene	915	µg/kg	145	968.05	<32.9	94.5	63-130			
1,2,4-Trimethylbenzene	951	µg/kg	43.4	968.05	<21.3	98.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	792	µg/kg	145	968.05	<26.7	81.8	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	920	µg/kg	43.4	968.05	<17.1	95.0	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	932	µg/kg	43.4	968.05	<11.0	96.2	77-122			
1,2-Dichloroethane (Ethylene dichloride)	956	µg/kg	145	968.05	<25.5	98.8	70-130			
1,2-Dichloropropane	917	µg/kg	43.4	968.05	<21.4	94.8	71-130			
1,3,5-Trimethylbenzene	988	µg/kg	145	968.05	<20.5	102	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	939	µg/kg	43.4	968.05	<20.1	97.0	78-121			
1,3-Dichloropropene	1660	µg/kg	86.8	1936.1	<16.2	85.8	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	927	µg/kg	43.4	968.05	<23.6	95.8	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	975	µg/kg	289	968.05	<69.1	101	47-164			
2-Hexanone	1050	µg/kg	43.4	968.05	<14.4	109	70-137			
4-Methyl-2-pentanone (MIBK)	1290	µg/kg	43.4	968.05	<27.1	133	57-200			
Acetone	1490	µg/kg	145	968.05	<86.2	154	52-190			
Benzene	965	µg/kg	43.4	968.05	<14.1	99.7	78-122			
Bromochloromethane	877	µg/kg	43.4	968.05	<14.8	90.6	68-130			
Bromodichloromethane	948	µg/kg	43.4	968.05	<16.3	98.0	75-125			
Bromoform	864	µg/kg	43.4	968.05	<12.2	89.3	59-120			
Carbon disulfide	730	µg/kg	43.4	968.05	<15.0	75.4	60-163			
Carbon tetrachloride	912	µg/kg	43.4	968.05	<11.4	94.2	69-123			
Chlorobenzene	939	µg/kg	43.4	968.05	<9.64	97.0	79-120			



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**MS** CLIENT ID: Batch QC Lab ID: QC-2422298-005

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 10:09  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	883	µg/kg	43.4	968.05	<16.3	91.2	57-123			
Chloroethane (Ethyl chloride)	292	µg/kg	145	968.05	<81.3	30.2	38-132			S
Chloroform	902	µg/kg	43.4	968.05	<10.6	93.2	72-122			
cis-1,2-Dichloroethylene	863	µg/kg	43.4	968.05	<18.7	89.2	74-125			
cis-1,3-Dichloropropene	863	µg/kg	43.4	968.05	<21.9	89.2	62-124			
Dichlorodifluoromethane (Freon-12)	211	µg/kg	145	968.05	<35.2	21.8	28-137			S
Ethylbenzene	989	µg/kg	43.4	968.05	<20.6	102	75-121			
Isopropylbenzene	990	µg/kg	43.4	968.05	<18.3	102	74-121			
m+p-Xylene	1990	µg/kg	86.8	1936.1	<38.7	103	67-129			
Methyl acetate	916	µg/kg	362	968.05	<34.8	94.6	61-125			
Methyl bromide (Bromomethane)	152	µg/kg	145	968.05	<55.5	15.7	31-169			S
Methyl chloride (Chloromethane)	302	µg/kg	145	968.05	<79.4	31.2	24-119			
Methyl tert-butyl ether (MTBE)	830	µg/kg	43.4	968.05	<21.2	85.7	79-139			
Methylene chloride (Dichloromethane)	524	µg/kg	362	968.05	<77.1	54.1	62-135			S
o-Xylene	976	µg/kg	43.4	968.05	<11.2	101	75-120			
Styrene	942	µg/kg	43.4	968.05	<11.5	97.3	74-126			
Tetrachloroethylene (Perchloroethylene)	1790	µg/kg	43.4	968.05	<17.5	184	76-128			S
Toluene	942	µg/kg	43.4	968.05	<23.9	97.3	76-120			
Total Xylene	2960	µg/kg	130	2904.2	<11.2	102	67-129			
trans-1,2-Dichloroethylene	846	µg/kg	43.4	968.05	<24.0	87.4	72-127			
trans-1,3-Dichloropropylene	797	µg/kg	43.4	968.05	<16.2	82.4	66-120			
Trichloroethene (Trichloroethylene)	1100	µg/kg	43.4	968.05	<13.0	114	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	514	µg/kg	43.4	968.05	<14.8	53.1	51-115			
Vinyl chloride (Chloroethene)	335	µg/kg	43.4	968.05	<19.3	34.6	43-128			S
Surr: 1,2-Dichloroethane-d4	943	µg/kg		968.05		97.4	80-120			
Surr: 4-Bromofluorobenzene	980	µg/kg		968.05		101	80-120			
Surr: Dibromofluoromethane	941	µg/kg		968.05		97.2	72-120			
Surr: Toluene-d8	942	µg/kg		968.05		97.3	80-120			

**MSD** CLIENT ID: Batch QC Lab ID: QC-2422298-006

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 10:28  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	971	µg/kg	43.4	968.05	<13.6	100	75-121	3.29	30	
1,1,2,2-Tetrachloroethane	724	µg/kg	43.4	968.05	<13.2	74.8	79-125	1.33	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	789	µg/kg	43.4	968.05	<19.0	81.6	62-129	4.51	30	
1,1,2-Trichloroethane	904	µg/kg	43.4	968.05	<12.8	93.4	80-123	0.483	30	
1,1-Dichloroethane	900	µg/kg	43.4	968.05	<10.9	93.0	74-124	2.34	30	
1,1-Dichloroethylene	800	µg/kg	43.4	968.05	<9.72	82.6	68-131	4.39	30	
1,2,3-Trichlorobenzene	858	µg/kg	145	968.05	<36.0	88.6	60-135	7.28	30	
1,2,3-Trichloropropane	891	µg/kg	43.4	968.05	<12.6	92.0	77-121	2.52	30	
1,2,4-Trichlorobenzene	857	µg/kg	145	968.05	<34.0	88.5	63-130	6.56	30	

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

<b>MSD</b>	<b>CLIENT ID: Batch QC</b>	<b>Lab ID: QC-2422298-006</b>
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**Method:** EPA 8260D      **Dilution:** 1      **Analysis Date:** 01/21/26 10:28  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	961	µg/kg	43.4	968.05	<22.0	99.2	64-126	1.06	30	
1,2-Dibromo-3-chloropropane (DBCP)	758	µg/kg	145	968.05	<27.6	78.4	55-135	4.31	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	949	µg/kg	43.4	968.05	<17.6	98.0	63-155	3.11	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	885	µg/kg	43.4	968.05	<11.4	91.4	77-122	5.11	30	
1,2-Dichloroethane (Ethylene dichloride)	940	µg/kg	145	968.05	<26.3	97.2	70-130	1.63	30	
1,2-Dichloropropane	877	µg/kg	43.4	968.05	<22.1	90.6	71-130	4.53	30	
1,3,5-Trimethylbenzene	1000	µg/kg	145	968.05	<21.2	104	66-130	1.41	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	882	µg/kg	43.4	968.05	<20.7	91.1	78-121	6.27	30	
1,3-Dichloropropene	1660	µg/kg	86.8	1936.1	<16.8	85.6	62-124	0.204	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	880	µg/kg	43.4	968.05	<24.4	91.0	78-122	5.14	30	
2-Butanone (Methyl ethyl ketone, MEK)	1030	µg/kg	289	968.05	<71.4	106	47-164	5.50	30	
2-Hexanone	1040	µg/kg	43.4	968.05	<14.9	108	70-137	1.11	30	
4-Methyl-2-pentanone (MIBK)	1240	µg/kg	43.4	968.05	<28.0	128	57-200	3.99	30	
Acetone	1440	µg/kg	145	968.05	<89.0	149	52-190	3.57	30	
Benzene	950	µg/kg	43.4	968.05	<14.5	98.1	78-122	1.62	30	
Bromochloromethane	918	µg/kg	43.4	968.05	<15.3	94.8	68-130	4.64	30	
Bromodichloromethane	938	µg/kg	43.4	968.05	<16.8	96.8	75-125	1.13	30	
Bromoform	877	µg/kg	43.4	968.05	<12.6	90.6	59-120	1.45	30	
Carbon disulfide	743	µg/kg	43.4	968.05	<15.5	76.8	60-163	1.84	30	
Carbon tetrachloride	935	µg/kg	43.4	968.05	<11.7	96.6	69-123	2.41	30	
Chlorobenzene	945	µg/kg	43.4	968.05	<9.96	97.6	79-120	0.616	30	
Chlorodibromomethane	907	µg/kg	43.4	968.05	<16.8	93.6	57-123	2.60	30	
Chloroethane (Ethyl chloride)	285	µg/kg	145	968.05	<84.0	29.4	38-132	2.68	30	S
Chloroform	936	µg/kg	43.4	968.05	<11.0	96.6	72-122	3.63	30	
cis-1,2-Dichloroethylene	884	µg/kg	43.4	968.05	<19.3	91.3	74-125	2.38	30	
cis-1,3-Dichloropropene	841	µg/kg	43.4	968.05	<22.6	86.8	62-124	2.61	30	
Dichlorodifluoromethane (Freon-12)	199	µg/kg	145	968.05	<36.3	20.6	28-137	5.90	30	S
Ethylbenzene	992	µg/kg	43.4	968.05	<21.3	102	75-121	0.244	30	
Isopropylbenzene	1000	µg/kg	43.4	968.05	<19.0	103	74-121	1.12	30	
m+p-Xylene	2010	µg/kg	86.8	1936.1	<40.0	104	67-129	1.31	30	
Methyl acetate	981	µg/kg	362	968.05	<35.9	101	61-125	6.89	30	
Methyl bromide (Bromomethane)	209	µg/kg	145	968.05	<57.4	21.6	31-169	31.6	30	RS
Methyl chloride (Chloromethane)	326	µg/kg	145	968.05	<82.0	33.7	24-119	7.86	30	
Methyl tert-butyl ether (MTBE)	865	µg/kg	43.4	968.05	<21.9	89.4	79-139	4.17	30	
Methylene chloride (Dichloromethane)	600	µg/kg	362	968.05	<79.6	62.0	62-135	13.5	30	
o-Xylene	993	µg/kg	43.4	968.05	<11.6	103	75-120	1.72	30	
Styrene	945	µg/kg	43.4	968.05	<11.9	97.6	74-126	0.359	30	
Tetrachloroethylene (Perchloroethylene)	1800	µg/kg	43.4	968.05	<18.1	186	76-128	0.810	30	S
Toluene	957	µg/kg	43.4	968.05	<24.7	98.9	76-120	1.63	30	
Total Xylene	3010	µg/kg	130	2904.2	<11.6	104	67-129	1.44	30	

QA/QC Report



**Client:** The Mannik & Smith Group, Inc.  
**Project:** 5251 St Clair  
**Matrix:** SOIL/SOLID  
**QC Lot:** 2422298

**Work Order:** HN2600839  
**Date Collected:** NA  
**Date Received:** NA  
**Run ID:** 3833440

**MSD** CLIENT ID: Batch QC Lab ID: QC-2422298-006

**Method:** EPA 8260D **Dilution:** 1 **Analysis Date:** 01/21/26 10:28  
**Prep Date:** 01/19/26 15:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	867	µg/kg	43.4	968.05	<24.8	89.6	72-127	2.54	30	
trans-1,3-Dichloropropylene	816	µg/kg	43.4	968.05	<16.8	84.3	66-120	2.34	30	
Trichloroethene (Trichloroethylene)	1100	µg/kg	43.4	968.05	<13.4	114	75-122	0.0880	30	
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	521	µg/kg	43.4	968.05	<15.3	53.8	51-115	1.31	30	
Vinyl chloride (Chloroethene)	347	µg/kg	43.4	968.05	<19.9	35.8	43-128	3.40	30	S
Surr: 1,2-Dichloroethane-d4	963	µg/kg		968.05		99.5	80-120	2.13	30	
Surr: 4-Bromofluorobenzene	998	µg/kg		968.05		103	80-120	1.81	30	
Surr: Dibromofluoromethane	944	µg/kg		968.05		97.6	72-120	0.308	30	
Surr: Toluene-d8	939	µg/kg		968.05		97.0	80-120	0.257	30	

The following samples were analyzed in this batch: HN2600839-001, HN2600839-002, HN2600839-003