

DRAFT

FILL MATERIAL SAMPLING REPORT

5242 HARDING STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



FEBRUARY 12, 2026
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PREPARED FOR:
THE CITY OF DETROIT DEMOLITION DEPARTMENT
1301 THIRD STREET, SUITE 606
DETROIT, MICHIGAN 48226



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DETROIT, WAYNE COUNTY, MICHIGAN 48214

PREPARED BY: _____

OLIVIA MITCHELL

ENVIRONMENTAL SCIENTIST

REVIEWED BY: _____

MARK SCHULT, PhD, CPG

SENIOR PROJECT MANAGER

REVIEWED AND
APPROVED BY: _____

RYAN MONTRI, CPG

SENIOR PROJECT MANAGER

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 5242 Harding 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 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of brown to dark brown and gray silty clay 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 debris was observed in 5242 SB01 and 5242 SB02.
- Concentrations of arsenic were detected in soil samples 5242 SB02 (5-6')_20260116 and 5242 SB03 (3-4')_20260116 in excess of its respective Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and direct contact criteria (DCC).
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chloride, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, methylcyclohexane, naphthalene, phenanthrene, pyrene, and zinc were detected in soil samples 5242 SB01 (1-2')_20260116, 5242 SB02 (5-6')_20260116, and/or 5242 SB03 (3-4')_20260116 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- 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.

DRAFT

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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 5242 Harding 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, and February 25, 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, and February 25, 2026. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

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 5242 SB01, 5242 SB02, and 5242 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 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On February 25, 2026, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC and/or applicable Toxicity Characteristic Constituents and Regulatory Levels. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. The soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

3.4 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.

3.5 Analytical Methods

A total of three (3) soil samples designated 5242 SB01 (1-2')_20260116, 5242 SB02 (5-6')_20260116, and 5242 SB03 (3-4')_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, and individual TCLP analysis:

- 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.

3.6 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, and February 25, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of brown to dark brown and gray silty clay 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 debris was observed in 5242 SB01 and 5242 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 5242 SB01 (1-2') _20260116, 5242 SB02 (5-6') _20260116, and 5242 SB03 (3-4') _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 (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	5242 SB02 (5-6')_20260116 5242 SB03 (3-4')_20260116	GSIPC ² / 4,600 DWPC ³ / 4,600 DCC ⁴ / 7,600	9,420

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

Pesticides were analyzed following leach testing using USEPA method EPA 6020 B. Laboratory results are summarized and compared to 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261 - Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste in Table 2, TCLP Analytical Detection Summary Table. Upon comparison, the laboratory analytical results following TCLP testing were below laboratory method detection limits.

Copies of the laboratory analytical data report and chain of custody forms are included in Appendix E.

4.4 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 5242 SB01, 5242 SB02, and 5242 SB03 generally consisted of brown to dark brown and gray silty clay 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 debris was observed in 5242 SB01 and 5242 SB02.
- Concentrations of arsenic were detected in soil samples 5242 SB02 (5-6')_20260116 and 5242 SB03 (3-4')_20260116 in excess of its respective Part 201 GSIPC, DWPC, and DCC.
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chloride, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, methylcyclohexane, naphthalene, phenanthrene, pyrene, and zinc were detected in soil samples 5242 SB01 (1-2')_20260116, 5242 SB02 (5-6')_20260116, and/or 5242 SB03 (3-4')_20260116

at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.

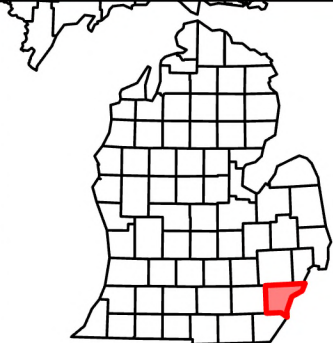
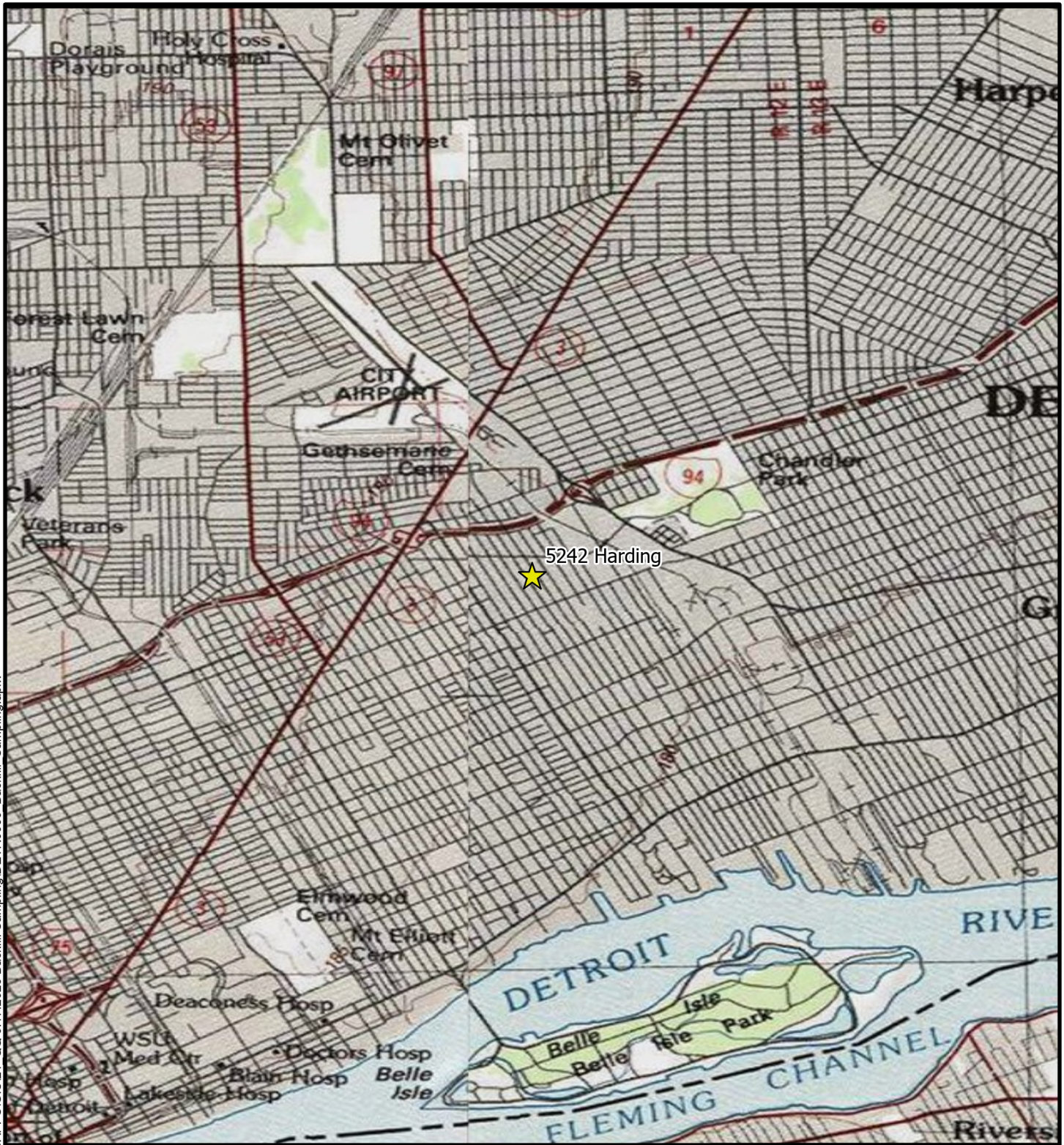
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- 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





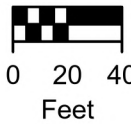
★ Site Location



FIGURE 1
SITE LOCATION

5242 Harding, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETRO060
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-  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

5242 Harding, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
5242 Harding, 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						
			Chloride	Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)
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
Units			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
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
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,600	4.40E+05 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M:1:2)	1.60E+05
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	NLV	NLV	NC	NLV	NLV	48,000	NC
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	22 ^(M)	NC
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC
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
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
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NC	NA	NA	NA	NC
Sample ID	Sample Depth (ft)	Sample Date								
5242 SB01	1.0 - 2.0	01/16/2026	43,800	5,350	87,900	12,900	10,800	11,800	43.7	38,700
5242 SB02	5.0 - 6.0	01/16/2026	42,400	9,420	138,000	17,200	18,800	26,600	65.7	79,400
5242 SB03	3.0 - 4.0	01/16/2026	<4,520	7,860	73,800	14,000	11,900	17,000	63.2	59,100

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.

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
5242 Harding, 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			Semivolatile Organic Compounds (SVOCs)														Volatile Organic Compounds (VOCs)	
			1-Methylnaphthalene	2-Methylnaphthalene	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Bis(2-ethylhexyl) phthalate	Chrysene	Fluoranthene	Indeno(1,2,3-Cd)Pyrene	Naphthalene	Phenanthrene	Pyrene	Methylcyclohexane
CAS Number			90-12-0	91-57-6	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	117-81-7	218-01-9	206-44-0	193-39-5	91-20-3	85-01-8	129-00-0	108-87-2
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
Statewide Default Background Levels			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Drinking Water Protection Criteria (DWPC)			NC	57,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	35,000	56,000	4.80E+05	NC
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,200	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	730	2,100	ID	NC
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	2.70E+06	1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	1.00E+09	NLV	2.50E+05	2.80E+06	1.00E+09	NC
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	1,700	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	67 ^(M)	1,700	2.50E+07	NC
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08	NC
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08	NC
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08	NC
Particulate Soil Inhalation Criteria (PSIC)			NC	6.70E+08	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	7.00E+08	ID	9.30E+09	ID	2.00E+08	6.70E+06	6.70E+09	NC
Direct Contact Criteria (DCC)			NC	8.10E+06	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.80E+06	2.00E+06	4.60E+07	20,000	1.60E+07	1.60E+06	2.90E+07	NC
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	NA	NC
Sample ID	Sample Depth (ft)	Sample Date																
5242 SB01	1.0 - 2.0	01/16/2026	<65.6	<46.3	<64.2	100	128	146	<69.8	<69	<377	<73.7	109	<63.4	<58.2	<42.4	109	<14.8
5242 SB02	5.0 - 6.0	01/16/2026	35.3	39.2	27.4	92.1	80.3	108	64.7	37.2	247	74.5	184	70.5	19.6	112	143	72.3
5242 SB03	3.0 - 4.0	01/16/2026	<13.6	<9.62	28.4	71.9	68.1	79.4	45.4	30.3	<78.2	53	146	62.4	<12.1	77.5	117	<16.7

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.

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Pesticides						
		Chlordane	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		0.03	0.02	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE							
5242 TCLP SB01 (1-2') 20260225	2/25/2026	<0.00000794	<0.00000844	<0.00000825	<0.00000754	<0.00000787	<0.00000981	<0.000109

Notes:
Bold indicates concentration above method detection limits.
Exceeds Maximum Concentration of Contaminates for the Toxicity Characteristic

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 REPORTS





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>01/16/2026</u>	Day: <u>Friday</u>	Temp: <u>25</u> (AM) <u>20</u> (PM)	
MSG Personnel: <u>ZDK, BM</u>		Cloud Cover: <u>80%</u> (AM) <u>100%</u> (PM)	
		Precipitation: <u>Flurries</u> (AM) <u>None</u> (PM)	
EGLE Personnel: _____			
MSG Hours On-Site: <u>~1.25 hours</u>			
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:			
1250 – MSG on-site (5242 Harding) 1305 – Start SB-01, End 1309 1309 – Start SB-02, End 1312 1315 – Start SB-03, End 1319 1335 – SB-01 sampled 5242 SB-01(1-2') _20260116 1340 – SB-02 sampled 5242 SB-02(5-6') _20260116 1345 – SB-03 sampled 5242 SB-03(3-4') _20260116 1400 – MSG off-site			
Supporting Documentation			
Photograph Taken	Yes ☒ No ☐	Samples Collected	Yes ☒ No ☐
Photo Log Attached	Yes ☒ No ☐	COC Attached	Yes ☒ No ☐
		Boring/MW Logs	Yes ☒ No ☐
		Field Notebook Taken	Yes ☒ No ☐
Problem Identification and Corrective Measures			
Resolved? Yes ☐ No ☐			



DAILY FIELD REPORT

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

Report No.: 2
Job No.: DETR0060

Date: 02/25/2026	Day: Thursday	Temp: N/A (AM) 37° (PM)			
MSG Personnel: WRD, MCW	Cloud Cover: N/A (AM) 100% (PM)	Precipitation: N/A (AM) None (PM)			
EGLE Personnel:					
MSG Hours On-Site: ~0.75 hours					
Contractors Information					
Contractor: MSG	No. Men and Type: 2; Operator/Geologist	Equipment Type: Geoprobe 7822DT			
Summary of Work Performed:					
- Advanced one onsite soil boring to a depth of 6 feet below ground surface (bgs) - Collected soil sample from soil boring (1'-2' interval) to submit for TCLP analysis.					
Field Notes:					
1248 – MSG on-site (5242 Harding) 1255 – Unloaded equipment and marked out boring location 1308 – Start SB-01, End 1309 1313 – 5242 TCLP SB01 (1-2')_20260225 sampled 1325 – Packed up equipment 1328 – MSG off-site					
Supporting Documentation					
Photograph Taken	Yes ☒ No ☐	Samples Collected	Yes ☒ No ☐	Boring/MW Logs	Yes ☒ No ☐
Photo Log Attached	Yes ☒ No ☐	COC Attached	Yes ☒ No ☐	Field Notebook Taken	Yes ☒ No ☐
Problem Identification and Corrective Measures					
Resolved? Yes ☐ No ☐					

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



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



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



Photo 4: Viewing the soil recovery from 5242 SB-01, facing east.



Photo 5: Viewing the soil recovery from 5242 SB-01 and SB-02 (back to front), facing east.



Photo 6: Viewing the soil recovery from 5242 SB-01, SB-02, and SB-03 (back to front), facing east.



Photo 7: View of the Site at the time of TCLP soil sampling activities, facing northeast

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 SB03

Sheet 1 of 1

CLIENT City of Detroit

PROJECT NAME Backfill Soil Sampling

PROJECT NUMBER DETR0060_5242 Harding

PROJECT LOCATION 5242 Harding, Detroit, MI

DATE STARTED 01-16-2026 **COMPLETED** 01-16-2026

POSITION

DRILLING CONTRACTOR MSG

SURFACE ELEVATION **FINAL DEPTH** 6.0 ft

DRILLING METHOD Direct Push

LOGGED BY ZDK **CHECKED BY**

EQUIPMENT GeoProbe 7822DT **Operator** BM

REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, CLAY, Trace Gravel, Dry	0	
				2.0	0	
				Gray, CLAY, Trace Silt, Dry		
ES		83		3.5	0	Collected Soil Sample 5242 SB03 (3-4') _20260116 at 1345
				Gray and Brown Mottled, CLAY, Dry - Dark Brown at 3.5' bgs	0	
5					0	
				6.0	0	
				Terminated at 6.00 ft.		
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: **5242 Harding**

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

Work Order: **HN2600836**

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/ **DALE SCHIPPER** on behalf of PM listed above

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding

Work Order: HN2600836
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: HN2600836

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

Organics

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 8082A-3546-S (High)

Run ID: 3833598

The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes; results should be considered estimated: Decachlorobiphenyl (surrogate)

Run ID: 3831074

HN2600836-001: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

EPA 8270E-FULL HN-3546-S

Run ID: 3839619

The Continuing Calibration Verification did not meet acceptance criteria with high bias; however, the sample results were non-detect for the following analytes: bis(2-Chloroethyl)ether.

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: 4-Chloroaniline; Benzidine; Benzoic acid; Pentachlorophenol.

The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results should be considered estimated: 3,3'-Dimethylbenzidine; Benzaldehyde

EPA 8081B-3546-S (High)

Run ID: 3833201

HN2600836-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Metals

HN2600836-001: Reporting limits are elevated due to sample dilution for high concentrations of non-target analytes: see Analytical Report

HN2600836-002: Reporting limits are elevated due to sample dilution for high concentrations of non-target analytes: see Analytical Report

HN2600836-003: Reporting limits are elevated due to sample dilution for high concentrations of non-target analytes: see Analytical Report

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: 5242 SB01 (1-2')_20260116	Lab ID: HN2600836-001
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.35		3.37	mg/kg	EPA 6020B
Barium	87.9		3.37	mg/kg	EPA 6020B
Benzo(a)anthracene	100		91.1	µg/kg	EPA 8270E
Benzo(a)pyrene	128		91.1	µg/kg	EPA 8270E
Benzo(b)fluoranthene	146		91.1	µg/kg	EPA 8270E
Chloride	43.8		11.9	mg/kg	EPA 9056A
Chromium	12.9		3.37	mg/kg	EPA 6020B
Copper	10.8		3.37	mg/kg	EPA 6020B
Fluoranthene	109		91.1	µg/kg	EPA 8270E
Lead	11.8		3.37	mg/kg	EPA 6020B
Mercury	0.0437		0.0212	mg/kg	EPA 7471B
Percent Moisture	11.2		0.1	%	EPA 3550C
Pyrene	109		91.1	µg/kg	EPA 8270E
Zinc	38.7		6.73	mg/kg	EPA 6020B

CLIENT ID: 5242 SB02 (5-6')_20260116	Lab ID: HN2600836-002
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	35.3		19.6	µg/kg	EPA 8270E
2-Methylnaphthalene	39.2		19.6	µg/kg	EPA 8270E
Anthracene	27.4		19.6	µg/kg	EPA 8270E
Arsenic	9.42		3.55	mg/kg	EPA 6020B
Barium	138		3.55	mg/kg	EPA 6020B
Benzo(a)anthracene	92.1		19.6	µg/kg	EPA 8270E
Benzo(a)pyrene	80.3		19.6	µg/kg	EPA 8270E
Benzo(b)fluoranthene	108		19.6	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	64.7		19.6	µg/kg	EPA 8270E
Benzo(k)fluoranthene	37.2		19.6	µg/kg	EPA 8270E
Chloride	42.4		12.8	mg/kg	EPA 9056A
Chromium	17.2		3.55	mg/kg	EPA 6020B
Chrysene	74.5		19.6	µg/kg	EPA 8270E
Copper	18.8		3.55	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	247		97.0	µg/kg	EPA 8270E
Fluoranthene	184		19.6	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	70.5		19.6	µg/kg	EPA 8270E
Lead	26.6		3.55	mg/kg	EPA 6020B
Mercury	0.0657		0.0225	mg/kg	EPA 7471B
Methylcyclohexane	72.3		43.8	µg/kg	EPA 8260D
Naphthalene	19.6		19.6	µg/kg	EPA 8270E
Percent Moisture	18.5		0.1	%	EPA 3550C
Phenanthrene	112		19.6	µg/kg	EPA 8270E

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: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Results	Flag	MRL	Units	Method
Pyrene	143		19.6	µg/kg	EPA 8270E
Zinc	79.4		7.11	mg/kg	EPA 6020B

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Results	Flag	MRL	Units	Method
Anthracene	28.4		18.9	µg/kg	EPA 8270E
Arsenic	7.86		3.63	mg/kg	EPA 6020B
Barium	73.8		3.63	mg/kg	EPA 6020B
Benzo(a)anthracene	71.9		18.9	µg/kg	EPA 8270E
Benzo(a)pyrene	68.1		18.9	µg/kg	EPA 8270E
Benzo(b)fluoranthene	79.4		18.9	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	45.4		18.9	µg/kg	EPA 8270E
Benzo(k)fluoranthene	30.3		18.9	µg/kg	EPA 8270E
Chromium	14.0		3.63	mg/kg	EPA 6020B
Chrysene	53.0		18.9	µg/kg	EPA 8270E
Copper	11.9		3.63	mg/kg	EPA 6020B
Fluoranthene	146		18.9	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	62.4		18.9	µg/kg	EPA 8270E
Lead	17.0		3.63	mg/kg	EPA 6020B
Mercury	0.0632		0.0221	mg/kg	EPA 7471B
Percent Moisture	19.2		0.1	%	EPA 3550C
Phenanthrene	77.5		18.9	µg/kg	EPA 8270E
Pyrene	117		18.9	µg/kg	EPA 8270E
Zinc	59.1		7.26	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Workorder: HN2600836

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2600836-001	5242 SB01 (1-2')_20260116	SOIL/SOLID	01/16/26 13:35	01/17/26 08:00
HN2600836-002	5242 SB02 (5-6')_20260116	SOIL/SOLID	01/16/26 13:40	01/17/26 08:00
HN2600836-003	5242 SB03 (3-4')_20260116	SOIL/SOLID	01/16/26 13:45	01/17/26 08:00

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 Certifications¹

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

¹ - Scope available upon request

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<3.20	U	µg/kg	17.4	1	01/22/26 22:25	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<5.70	U	µg/kg	17.4	1	01/22/26 22:25	01/20/26 15:08
2,4-D	EPA 8151A	<9.28	U	µg/kg	34.7	1	01/22/26 22:25	01/20/26 15:08
Surr: DCAA	EPA 8151A	72.0		%REC	10-116	1	01/22/26 22:25	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	11.2		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	43.8		mg/kg	11.9	1	01/20/26 22:03	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	5.35		mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Barium	EPA 6020B	87.9		mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Cadmium	EPA 6020B	<0.202	U	mg/kg	1.35	10	01/22/26 17:09	01/22/26 09:47
Chromium	EPA 6020B	12.9		mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Copper	EPA 6020B	10.8		mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Lead	EPA 6020B	11.8		mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Selenium	EPA 6020B	<3.10	U	mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Silver	EPA 6020B	<0.444	U	mg/kg	3.37	10	01/22/26 17:09	01/22/26 09:47
Zinc	EPA 6020B	38.7		mg/kg	6.73	10	01/22/26 17:09	01/22/26 09:47
Mercury	EPA 7471B	0.0437		mg/kg	0.0212	1	01/26/26 14:16	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<169	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
4,4'-DDE	EPA 8081B	<174	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
4,4'-DDT	EPA 8081B	<176	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Aldrin	EPA 8081B	<172	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
alpha-BHC	EPA 8081B	<174	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
beta-BHC	EPA 8081B	<174	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<262	U	µg/kg	661	10	01/21/26 03:29	01/19/26 10:31
cis-Chlordane	EPA 8081B	<177	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
delta-BHC	EPA 8081B	<173	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Dieldrin	EPA 8081B	<185	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<178	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Endosulfan II	EPA 8081B	<175	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<163	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Endrin	EPA 8081B	<214	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<168	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Endrin ketone	EPA 8081B	<161	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<173	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Heptachlor	EPA 8081B	<171	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<175	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Methoxychlor	EPA 8081B	<177	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
Toxaphene	EPA 8081B	<285	U	µg/kg	1590	10	01/21/26 03:29	01/19/26 10:31
trans-Chlordane	EPA 8081B	<176	U	µg/kg	264	10	01/21/26 03:29	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	113		%REC	53-151	10	01/21/26 03:29	01/19/26 10:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	85.0		%REC	67-127	10	01/21/26 03:29	01/19/26 10:31

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<60.4	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1221	EPA 8082A	<60.4	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1232	EPA 8082A	<60.4	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1242	EPA 8082A	<60.4	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1248	EPA 8082A	<60.4	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1254	EPA 8082A	<49.2	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1260	EPA 8082A	<49.2	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1262	EPA 8082A	<49.2	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Aroclor 1268	EPA 8082A	<49.2	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
Total PCB	EPA 8082A	<49.2	U	µg/kg	176	1	01/20/26 02:42	01/19/26 08:17
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	56.8		%REC	54-146	1	01/20/26 02:42	01/19/26 08:17
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	40.2	S	%REC	58-140	1	01/20/26 02:42	01/19/26 08:17

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<73.9	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<105	U	µg/kg	4550	5	01/23/26 23:56	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<327	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	<65.6	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<107	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<334	U	µg/kg	911	5	01/23/26 23:56	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<270	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<121	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<245	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<234	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<3330	U	µg/kg	4550	5	01/23/26 23:56	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<296	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<116	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<63.7	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<298	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<380	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	<46.3	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<123	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<253	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<130	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	<248	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<213	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<264	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<250	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<130	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<231	U	µg/kg	911	5	01/23/26 23:56	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<126	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<706	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<1070	U	µg/kg	4550	5	01/23/26 23:56	01/21/26 11:02
Acenaphthene	EPA 8270E	<65.9	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<79.0	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Acetophenone	EPA 8270E	<71.3	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Anthracene	EPA 8270E	<64.2	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Atrazine	EPA 8270E	<267	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Benzaldehyde	EPA 8270E	<700	U	µg/kg	911	5	01/23/26 23:56	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	100		µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	128		µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	146		µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	<69.8	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	<69.0	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<288	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<129	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<570	U	µg/kg	911	5	01/23/26 23:56	01/21/26 11:02
Caprolactam	EPA 8270E	<411	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Carbazole	EPA 8270E	<134	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Chrysene	EPA 8270E	<73.7	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<377	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<49.2	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Dibenzofuran	EPA 8270E	<67.0	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<155	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<88.8	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Fluoranthene	EPA 8270E	109		µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Fluorene	EPA 8270E	<66.1	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<133	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<107	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<432	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Hexachloroethane	EPA 8270E	<189	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	<63.4	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Isophorone	EPA 8270E	<89.0	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
Methylphenol, Total	EPA 8270E	<123	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<58.2	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Nitrobenzene	EPA 8270E	<153	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<75.2	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<264	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<362	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Phenanthrene	EPA 8270E	<42.4	U	µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Phenol	EPA 8270E	<229	U	µg/kg	451	5	01/23/26 23:56	01/21/26 11:02
Pyrene	EPA 8270E	109		µg/kg	91.1	5	01/23/26 23:56	01/21/26 11:02
Pyridine	EPA 8270E	<897	U	µg/kg	2280	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	80.9		%REC	48-94	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	74.5		%REC	50-103	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	71.8		%REC	43-105	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	85.9		%REC	55-111	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	68.8		%REC	47-100	5	01/23/26 23:56	01/21/26 11:02
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	72.9		%REC	49-110	5	01/23/26 23:56	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<17.7	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<17.2	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<24.7	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<16.5	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<14.2	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<12.6	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<46.7	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<16.3	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<44.1	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<28.5	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<35.8	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<22.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<14.8	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<22.9	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<28.7	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<27.5	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<26.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<21.7	U	µg/kg	77.9	1	01/21/26 04:17	01/19/26 15:35
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<31.6	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<92.7	U	µg/kg	260	1	01/21/26 04:17	01/19/26 15:35
2-Hexanone	EPA 8260D	<19.3	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<36.3	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Acetone	EPA 8260D	<116	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
Benzene	EPA 8260D	<18.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Bromochloromethane	EPA 8260D	<19.8	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<21.8	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Bromoform	EPA 8260D	<16.4	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Carbon disulfide	EPA 8260D	<20.2	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<15.2	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Chlorobenzene	EPA 8260D	<12.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<21.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<109	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
Chloroform	EPA 8260D	<14.3	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<25.0	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<29.3	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Cyclohexane	EPA 8260D	<29.8	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<47.1	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
Ethylbenzene	EPA 8260D	<27.6	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<24.6	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
m+p-Xylene	EPA 8260D	<51.9	U	µg/kg	77.9	1	01/21/26 04:17	01/19/26 15:35
Methyl acetate	EPA 8260D	<46.6	U	µg/kg	324	1	01/21/26 04:17	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<74.5	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:35
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB01 (1-2')_20260116

Lab ID: HN2600836-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<106	U	µg/kg	130	1	01/21/26 04:17	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<28.4	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<14.8	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<103	U	µg/kg	324	1	01/21/26 04:17	01/19/26 15:35
o-Xylene	EPA 8260D	<15.1	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Styrene	EPA 8260D	<15.4	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<23.4	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Toluene	EPA 8260D	<32.1	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Total Xylene	EPA 8260D	<15.1	U	µg/kg	117	1	01/21/26 04:17	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<32.1	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<21.7	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<17.5	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<19.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<25.9	U	µg/kg	38.9	1	01/21/26 04:17	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:17</i>	<i>01/19/26 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:17</i>	<i>01/19/26 15:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	99.4		%REC	<i>72-120</i>	<i>1</i>	<i>01/21/26 04:17</i>	<i>01/19/26 15:35</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.4		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:17</i>	<i>01/19/26 15:35</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<6.44	U	µg/kg	35.0	1	01/22/26 22:40	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<11.5	U	µg/kg	35.0	1	01/22/26 22:40	01/20/26 15:08
2,4-D	EPA 8151A	<18.7	U	µg/kg	70.0	1	01/22/26 22:40	01/20/26 15:08
Surr: DCAA	EPA 8151A	82.0		%REC	10-116	1	01/22/26 22:40	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.5		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	42.4		mg/kg	12.8	1	01/20/26 22:11	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	9.42		mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Barium	EPA 6020B	138		mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Cadmium	EPA 6020B	<0.213	U	mg/kg	1.42	10	01/22/26 17:11	01/22/26 09:47
Chromium	EPA 6020B	17.2		mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Copper	EPA 6020B	18.8		mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Lead	EPA 6020B	26.6		mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Selenium	EPA 6020B	<3.27	U	mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Silver	EPA 6020B	<0.469	U	mg/kg	3.55	10	01/22/26 17:11	01/22/26 09:47
Zinc	EPA 6020B	79.4		mg/kg	7.11	10	01/22/26 17:11	01/22/26 09:47
Mercury	EPA 7471B	0.0657		mg/kg	0.0225	1	01/26/26 14:18	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.8	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
4,4'-DDE	EPA 8081B	<19.3	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
4,4'-DDT	EPA 8081B	<19.5	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Aldrin	EPA 8081B	<19.1	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
alpha-BHC	EPA 8081B	<19.3	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
beta-BHC	EPA 8081B	<19.3	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<29.1	U	µg/kg	73.4	1	01/21/26 02:30	01/19/26 10:31
cis-Chlordane	EPA 8081B	<19.6	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
delta-BHC	EPA 8081B	<19.2	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Dieldrin	EPA 8081B	<20.5	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<19.7	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Endosulfan II	EPA 8081B	<19.4	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<18.1	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Endrin	EPA 8081B	<23.7	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<18.6	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Endrin ketone	EPA 8081B	<17.9	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<19.3	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Heptachlor	EPA 8081B	<18.9	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<19.4	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Methoxychlor	EPA 8081B	<19.6	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
Toxaphene	EPA 8081B	<31.7	U	µg/kg	176	1	01/21/26 02:30	01/19/26 10:31
trans-Chlordane	EPA 8081B	<19.5	U	µg/kg	29.3	1	01/21/26 02:30	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	77.9		%REC	53-151	1	01/21/26 02:30	01/19/26 10:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	71.9		%REC	67-127	1	01/21/26 02:30	01/19/26 10:31

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<67.1	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1221	EPA 8082A	<67.1	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1232	EPA 8082A	<67.1	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1242	EPA 8082A	<67.1	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1248	EPA 8082A	<67.1	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1254	EPA 8082A	<54.6	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1260	EPA 8082A	<54.6	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1262	EPA 8082A	<54.6	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Aroclor 1268	EPA 8082A	<54.6	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
Total PCB	EPA 8082A	<54.6	U	µg/kg	196	1	01/20/26 02:53	01/19/26 08:17
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	60.6		%REC	54-146	1	01/20/26 02:53	01/19/26 08:17
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	84.7		%REC	58-140	1	01/20/26 02:53	01/19/26 08:17

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<22.6	U	µg/kg	979	1	01/23/26 20:06	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<70.3	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	35.3		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<23.0	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<71.7	U	µg/kg	196	1	01/23/26 20:06	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<58.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<26.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<52.7	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<50.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<716	U	µg/kg	979	1	01/23/26 20:06	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<63.6	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<25.0	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<13.7	U	µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<64.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<81.8	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	39.2		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<26.5	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<54.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<27.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	<53.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<45.7	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<56.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<53.7	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<27.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<49.8	U	µg/kg	196	1	01/23/26 20:06	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<27.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<152	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<229	U	µg/kg	979	1	01/23/26 20:06	01/21/26 11:02
Acenaphthene	EPA 8270E	<14.2	U	µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<17.0	U	µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Acetophenone	EPA 8270E	<15.3	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Anthracene	EPA 8270E	27.4		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Atrazine	EPA 8270E	<57.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Benzaldehyde	EPA 8270E	<150	U	µg/kg	196	1	01/23/26 20:06	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	92.1		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	80.3		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	108		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	64.7		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	37.2		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<62.0	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<27.7	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<123	U	µg/kg	196	1	01/23/26 20:06	01/21/26 11:02
Caprolactam	EPA 8270E	<88.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Carbazole	EPA 8270E	<28.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Chrysene	EPA 8270E	74.5		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	247		µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<10.6	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Dibenzofuran	EPA 8270E	<14.4	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<33.3	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<19.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Fluoranthene	EPA 8270E	184		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Fluorene	EPA 8270E	<14.2	U	µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<28.5	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<23.1	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<92.9	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Hexachloroethane	EPA 8270E	<40.6	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	70.5		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Isophorone	EPA 8270E	<19.1	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
Methylphenol, Total	EPA 8270E	<26.5	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	19.6		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Nitrobenzene	EPA 8270E	<32.9	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<16.2	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<56.7	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<77.8	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Phenanthrene	EPA 8270E	112		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Phenol	EPA 8270E	<49.2	U	µg/kg	97.0	1	01/23/26 20:06	01/21/26 11:02
Pyrene	EPA 8270E	143		µg/kg	19.6	1	01/23/26 20:06	01/21/26 11:02
Pyridine	EPA 8270E	<193	U	µg/kg	490	1	01/23/26 20:06	01/21/26 11:02
Surr: 2,4,6-Tribromophenol	EPA 8270E	90.2		%REC	48-94	1	01/23/26 20:06	01/21/26 11:02
Surr: 2-Fluorobiphenyl	EPA 8270E	77.9		%REC	50-103	1	01/23/26 20:06	01/21/26 11:02
Surr: 2-Fluorophenol	EPA 8270E	78.7		%REC	43-105	1	01/23/26 20:06	01/21/26 11:02
Surr: 4-Terphenyl-d14	EPA 8270E	88.6		%REC	55-111	1	01/23/26 20:06	01/21/26 11:02
Surr: Nitrobenzene-d5	EPA 8270E	77.6		%REC	47-100	1	01/23/26 20:06	01/21/26 11:02
Surr: Phenol-d6	EPA 8270E	85.1		%REC	49-110	1	01/23/26 20:06	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<19.9	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<19.3	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<27.8	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<18.6	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<16.0	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<14.2	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<52.6	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<18.3	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<49.7	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<32.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<40.3	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<25.8	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<16.6	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

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 04:36	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<32.3	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<31.0	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<30.3	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<24.5	U	µg/kg	87.6	1	01/21/26 04:36	01/19/26 15:35
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<35.6	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<104	U	µg/kg	292	1	01/21/26 04:36	01/19/26 15:35
2-Hexanone	EPA 8260D	<21.7	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<40.8	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Acetone	EPA 8260D	<130	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
Benzene	EPA 8260D	<21.2	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Bromochloromethane	EPA 8260D	<22.3	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<24.5	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Bromoform	EPA 8260D	<18.4	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Carbon disulfide	EPA 8260D	<22.7	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<17.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Chlorobenzene	EPA 8260D	<14.5	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<24.6	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<123	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
Chloroform	EPA 8260D	<16.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<28.2	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<33.0	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Cyclohexane	EPA 8260D	<33.6	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<53.0	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35
Ethylbenzene	EPA 8260D	<31.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<27.7	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
m+p-Xylene	EPA 8260D	<58.4	U	µg/kg	87.6	1	01/21/26 04:36	01/19/26 15:35
Methyl acetate	EPA 8260D	<52.5	U	µg/kg	365	1	01/21/26 04:36	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<83.8	U	µg/kg	146	1	01/21/26 04:36	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:40
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB02 (5-6')_20260116

Lab ID: HN2600836-002

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 04:36	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<32.0	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Methylcyclohexane	EPA 8260D	72.3		µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<116	U	µg/kg	365	1	01/21/26 04:36	01/19/26 15:35
o-Xylene	EPA 8260D	<16.9	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Styrene	EPA 8260D	<17.4	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<26.4	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Toluene	EPA 8260D	<36.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Total Xylene	EPA 8260D	<16.9	U	µg/kg	131	1	01/21/26 04:36	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<36.2	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<24.5	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<19.6	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<22.4	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<29.1	U	µg/kg	43.8	1	01/21/26 04:36	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:36</i>	<i>01/19/26 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	104		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:36</i>	<i>01/19/26 15:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	100		%REC	<i>72-120</i>	<i>1</i>	<i>01/21/26 04:36</i>	<i>01/19/26 15:35</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.9		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 04:36</i>	<i>01/19/26 15:35</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<3.49	U	µg/kg	19.0	1	01/22/26 22:55	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<6.23	U	µg/kg	19.0	1	01/22/26 22:55	01/20/26 15:08
2,4-D	EPA 8151A	<10.1	U	µg/kg	38.0	1	01/22/26 22:55	01/20/26 15:08
Surr: DCAA	EPA 8151A	68.0		%REC	10-116	1	01/22/26 22:55	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	19.2		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	<4.52	U	mg/kg	14.6	1	01/20/26 22:19	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	7.86		mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Barium	EPA 6020B	73.8		mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Cadmium	EPA 6020B	<0.218	U	mg/kg	1.45	10	01/22/26 17:13	01/22/26 09:47
Chromium	EPA 6020B	14.0		mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Copper	EPA 6020B	11.9		mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Lead	EPA 6020B	17.0		mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Selenium	EPA 6020B	<3.34	U	mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Silver	EPA 6020B	<0.479	U	mg/kg	3.63	10	01/22/26 17:13	01/22/26 09:47
Zinc	EPA 6020B	59.1		mg/kg	7.26	10	01/22/26 17:13	01/22/26 09:47
Mercury	EPA 7471B	0.0632		mg/kg	0.0221	1	01/26/26 12:54	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.8	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
4,4'-DDE	EPA 8081B	<19.4	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
4,4'-DDT	EPA 8081B	<19.6	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Aldrin	EPA 8081B	<19.1	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
alpha-BHC	EPA 8081B	<19.4	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
beta-BHC	EPA 8081B	<19.3	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<29.2	U	µg/kg	73.5	1	01/21/26 02:45	01/19/26 10:31
cis-Chlordane	EPA 8081B	<19.6	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
delta-BHC	EPA 8081B	<19.3	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Dieldrin	EPA 8081B	<20.6	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<19.8	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Endosulfan II	EPA 8081B	<19.5	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<18.1	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Endrin	EPA 8081B	<23.8	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<18.6	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Endrin ketone	EPA 8081B	<17.9	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<19.3	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Heptachlor	EPA 8081B	<19.0	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<19.5	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Methoxychlor	EPA 8081B	<19.7	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
Toxaphene	EPA 8081B	<31.8	U	µg/kg	176	1	01/21/26 02:45	01/19/26 10:31
trans-Chlordane	EPA 8081B	<19.5	U	µg/kg	29.4	1	01/21/26 02:45	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	94.3		%REC	53-151	1	01/21/26 02:45	01/19/26 10:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	77.6		%REC	67-127	1	01/21/26 02:45	01/19/26 10:31

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<67.2	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1221	EPA 8082A	<67.2	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1232	EPA 8082A	<67.2	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1242	EPA 8082A	<67.2	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1248	EPA 8082A	<67.2	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1254	EPA 8082A	<54.8	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1260	EPA 8082A	<54.8	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1262	EPA 8082A	<54.8	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Aroclor 1268	EPA 8082A	<54.8	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
Total PCB	EPA 8082A	<54.8	U	µg/kg	196	1	01/20/26 03:05	01/19/26 08:17
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	88.3		%REC	54-146	1	01/20/26 03:05	01/19/26 08:17
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	91.6		%REC	58-140	1	01/20/26 03:05	01/19/26 08:17

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.3	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<21.8	U	µg/kg	945	1	01/23/26 20:27	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<67.8	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	<13.6	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<22.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<69.3	U	µg/kg	189	1	01/23/26 20:27	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<56.0	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<25.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<50.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<48.6	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<691	U	µg/kg	945	1	01/23/26 20:27	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<61.4	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<24.1	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<13.2	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<61.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<79.0	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	<9.62	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<25.6	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<52.5	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<27.0	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	<51.6	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<44.1	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<54.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<51.8	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<27.0	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<48.1	U	µg/kg	189	1	01/23/26 20:27	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<26.1	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<147	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<221	U	µg/kg	945	1	01/23/26 20:27	01/21/26 11:02
Acenaphthene	EPA 8270E	<13.7	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<16.4	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Acetophenone	EPA 8270E	<14.8	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Anthracene	EPA 8270E	28.4		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Atrazine	EPA 8270E	<55.4	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Benzaldehyde	EPA 8270E	<145	U	µg/kg	189	1	01/23/26 20:27	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	71.9		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	68.1		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	79.4		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	45.4		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	30.3		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<59.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<26.8	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<118	U	µg/kg	189	1	01/23/26 20:27	01/21/26 11:02
Caprolactam	EPA 8270E	<85.3	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Carbazole	EPA 8270E	<27.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Chrysene	EPA 8270E	53.0		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<78.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<10.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Dibenzofuran	EPA 8270E	<13.9	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<32.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<18.4	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Fluoranthene	EPA 8270E	146		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Fluorene	EPA 8270E	<13.7	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<27.5	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<22.3	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<89.7	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Hexachloroethane	EPA 8270E	<39.2	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	62.4		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Isophorone	EPA 8270E	<18.5	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
Methylphenol, Total	EPA 8270E	<25.6	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<12.1	U	µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Nitrobenzene	EPA 8270E	<31.8	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<15.6	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<54.8	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<75.1	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Phenanthrene	EPA 8270E	77.5		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Phenol	EPA 8270E	<47.5	U	µg/kg	93.6	1	01/23/26 20:27	01/21/26 11:02
Pyrene	EPA 8270E	117		µg/kg	18.9	1	01/23/26 20:27	01/21/26 11:02
Pyridine	EPA 8270E	<186	U	µg/kg	473	1	01/23/26 20:27	01/21/26 11:02
Surr: 2,4,6-Tribromophenol	EPA 8270E	81.3		%REC	48-94	1	01/23/26 20:27	01/21/26 11:02
Surr: 2-Fluorobiphenyl	EPA 8270E	72.8		%REC	50-103	1	01/23/26 20:27	01/21/26 11:02
Surr: 2-Fluorophenol	EPA 8270E	73.5		%REC	43-105	1	01/23/26 20:27	01/21/26 11:02
Surr: 4-Terphenyl-d14	EPA 8270E	83.2		%REC	55-111	1	01/23/26 20:27	01/21/26 11:02
Surr: Nitrobenzene-d5	EPA 8270E	70.3		%REC	47-100	1	01/23/26 20:27	01/21/26 11:02
Surr: Phenol-d6	EPA 8270E	77.7		%REC	49-110	1	01/23/26 20:27	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<19.8	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<19.3	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<27.7	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<18.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<16.0	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<14.2	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<52.5	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<18.3	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<49.6	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<32.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<40.3	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<25.7	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<16.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<25.7	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<32.2	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<30.9	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<30.2	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<24.4	U	µg/kg	87.5	1	01/21/26 04:56	01/19/26 15:35
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<35.5	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<104	U	µg/kg	292	1	01/21/26 04:56	01/19/26 15:35
2-Hexanone	EPA 8260D	<21.7	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<40.8	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Acetone	EPA 8260D	<130	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
Benzene	EPA 8260D	<21.2	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Bromochloromethane	EPA 8260D	<22.3	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<24.5	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Bromoform	EPA 8260D	<18.4	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Carbon disulfide	EPA 8260D	<22.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<17.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Chlorobenzene	EPA 8260D	<14.5	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<24.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<122	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
Chloroform	EPA 8260D	<16.0	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<28.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<33.0	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Cyclohexane	EPA 8260D	<33.5	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<52.9	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35
Ethylbenzene	EPA 8260D	<31.0	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<27.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
m+p-Xylene	EPA 8260D	<58.3	U	µg/kg	87.5	1	01/21/26 04:56	01/19/26 15:35
Methyl acetate	EPA 8260D	<52.4	U	µg/kg	365	1	01/21/26 04:56	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<83.7	U	µg/kg	146	1	01/21/26 04:56	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2600836
Date Collected: 01/16/26 13:45
Date Received: 01/17/26 08:00

CLIENT ID: 5242 SB03 (3-4')_20260116

Lab ID: HN2600836-003

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 04:56	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<31.9	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<16.7	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<116	U	µg/kg	365	1	01/21/26 04:56	01/19/26 15:35
o-Xylene	EPA 8260D	<16.9	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Styrene	EPA 8260D	<17.3	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<26.3	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Toluene	EPA 8260D	<36.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Total Xylene	EPA 8260D	<16.9	U	µg/kg	131	1	01/21/26 04:56	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<36.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<24.4	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<19.6	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<22.4	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<29.1	U	µg/kg	43.7	1	01/21/26 04:56	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	01/21/26 04:56	01/19/26 15:35
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	01/21/26 04:56	01/19/26 15:35
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	101		%REC	72-120	1	01/21/26 04:56	01/19/26 15:35
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.4		%REC	80-120	1	01/21/26 04:56	01/19/26 15:35



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2423622

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3838451

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2423622-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:06

Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<1.23	µg/kg	6.67	0		NC	0-0			U
2,4,5-TP (Silvex)	<2.19	µg/kg	6.67	0		NC	0-0			U
2,4-D	<3.56	µg/kg	13.3	0		NC	0-0			U
Surr: DCAA	53.3	µg/kg		50		80.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2423622-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:21

Prep Date: 01/20/26 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	46.7	µg/kg	6.67	66.667		70.0	10-119			
2,4,5-TP (Silvex)	41.3	µg/kg	6.67	66.667		62.0	10-101			
2,4-D	44.0	µg/kg	13.3	66.667		66.0	10-128			
Surr: DCAA	50.7	µg/kg		66.667		76.0	10-116			

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422266

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3832077

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2422266-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 19:37
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	<3.10	mg/kg	10.0	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422266-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 19:46
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	93.6	mg/kg	10.0	100		93.6	87-110			

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422982

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3830353

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2422982-001
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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	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422982-002
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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: 5242 SB03 (3-4')_20260116	Lab ID: QC-2422982-015
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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	0	19.2	NC	0-0	4.29	10	

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3836793

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2426113-001
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Method: EPA 6020B

Dilution: 1

Analysis Date: 01/22/26 16:32

Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	<0.0300	mg/kg	0.250	0		NC	0-0			U
Barium	<0.230	mg/kg	0.250	0		NC	0-0			U
Cadmium	<0.0150	mg/kg	0.100	0		NC	0-0			U
Chromium	<0.110	mg/kg	0.250	0		NC	0-0			U
Copper	<0.250	mg/kg	0.250	0		NC	0-0			U
Lead	<0.120	mg/kg	0.250	0		NC	0-0			U
Selenium	<0.230	mg/kg	0.250	0		NC	0-0			U
Silver	<0.0330	mg/kg	0.250	0		NC	0-0			U
Zinc	<0.490	mg/kg	0.500	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2426113-002
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Method: EPA 6020B

Dilution: 1

Analysis Date: 01/22/26 16:33

Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.80	mg/kg	0.250	5		95.9	80-120			
Barium	5.18	mg/kg	0.250	5		104	80-120			
Cadmium	4.78	mg/kg	0.100	5		95.6	80-120			
Chromium	4.79	mg/kg	0.250	5		95.8	80-120			
Copper	4.73	mg/kg	0.250	5		94.5	80-120			
Lead	5.05	mg/kg	0.250	5		101	80-120			
Selenium	4.80	mg/kg	0.250	5		96.0	80-120			
Silver	4.82	mg/kg	0.250	5		96.4	80-120			
Zinc	4.70	mg/kg	0.500	5		93.9	80-120			

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2427774

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3842171

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2427774-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 15:30
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	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2427774-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 15:32
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.170	mg/kg	0.0200	0.1665		102	80-120			

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2427775

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3842171

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2427775-001
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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	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2427775-002
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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: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3833323

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2421588-001
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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	0		NC	0-0			U
4,4'-DDE	<6.59	µg/kg	10.0	0		NC	0-0			U
4,4'-DDT	<6.65	µg/kg	10.0	0		NC	0-0			U
Aldrin	<6.50	µg/kg	10.0	0		NC	0-0			U
alpha-BHC	<6.58	µg/kg	10.0	0		NC	0-0			U
beta-BHC	<6.57	µg/kg	10.0	0		NC	0-0			U
Chlordane, Technical	<9.92	µg/kg	25.0	0		NC	0-0			U
cis-Chlordane	<6.68	µg/kg	10.0	0		NC	0-0			U
delta-BHC	<6.55	µg/kg	10.0	0		NC	0-0			U
Dieldrin	<6.99	µg/kg	10.0	0		NC	0-0			U
Endosulfan I	<6.72	µg/kg	10.0	0		NC	0-0			U
Endosulfan II	<6.62	µg/kg	10.0	0		NC	0-0			U
Endosulfan sulfate	<6.15	µg/kg	10.0	0		NC	0-0			U
Endrin	<8.09	µg/kg	10.0	0		NC	0-0			U
Endrin aldehyde	<6.34	µg/kg	10.0	0		NC	0-0			U
Endrin ketone	<6.08	µg/kg	10.0	0		NC	0-0			U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0	0		NC	0-0			U
Heptachlor	<6.45	µg/kg	10.0	0		NC	0-0			U
Heptachlor epoxide	<6.62	µg/kg	10.0	0		NC	0-0			U
Methoxychlor	<6.69	µg/kg	10.0	0		NC	0-0			U
Toxaphene	<10.8	µg/kg	60.0	0		NC	0-0			U
trans-Chlordane	<6.64	µg/kg	10.0	0		NC	0-0			U
Surr: Decachlorobiphenyl	41.9	µg/kg		33.33		126	53-151			
Surr: Tetrachloro-m-xylene	32.5	µg/kg		33.33		97.6	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421588-002
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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: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3833323

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421588-002
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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			
<i>Surr: Decachlorobiphenyl</i>	38.8	<i>µg/kg</i>		33.33		117	<i>51-151</i>			
<i>Surr: Tetrachloro-m-xylene</i>	31.9	<i>µg/kg</i>		33.33		95.8	<i>67-127</i>			

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2421582

Work Order: HN2600836
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
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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	0		NC	0-0			U
Aroclor 1221	<22.9	µg/kg	66.7	0		NC	0-0			U
Aroclor 1232	<22.9	µg/kg	66.7	0		NC	0-0			U
Aroclor 1242	<22.9	µg/kg	66.7	0		NC	0-0			U
Aroclor 1248	<22.9	µg/kg	66.7	0		NC	0-0			U
Aroclor 1254	<18.6	µg/kg	66.7	0		NC	0-0			U
Aroclor 1260	<18.6	µg/kg	66.7	0		NC	0-0			U
Aroclor 1262	<18.6	µg/kg	66.7	0		NC	0-0			U
Aroclor 1268	<18.6	µg/kg	66.7	0		NC	0-0			U
Total PCB	<18.6	µg/kg	66.7	0		NC	0-0			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
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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: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3839619

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2424522-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/23/26 17:42**Prep Date:** 01/21/26 11:03

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3839619

MB	CLIENT ID: Method Blank	Lab ID: QC-2424522-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/23/26 17:42**Prep Date:** 01/21/26 11:03

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	0		NC	0-0			U
Caprolactam	<30.1	µg/kg	33.0	0		NC	0-0			U
Carbazole	<9.82	µg/kg	33.0	0		NC	0-0			U
Chrysene	<5.39	µg/kg	6.67	0		NC	0-0			U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0	0		NC	0-0			U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0	0		NC	0-0			U
Dibenzofuran	<4.90	µg/kg	33.0	0		NC	0-0			U
Diethyl phthalate	<11.3	µg/kg	33.0	0		NC	0-0			U
Dimethyl phthalate	<6.50	µg/kg	33.0	0		NC	0-0			U
Fluoranthene	<3.20	µg/kg	6.67	0		NC	0-0			U
Fluorene	<4.84	µg/kg	6.67	0		NC	0-0			U
Hexachlorobenzene	<9.70	µg/kg	33.0	0		NC	0-0			U
Hexachlorobutadiene	<7.85	µg/kg	33.0	0		NC	0-0			U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0	0		NC	0-0			U
Hexachloroethane	<13.8	µg/kg	33.0	0		NC	0-0			U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67	0		NC	0-0			U
Isophorone	<6.51	µg/kg	167	0		NC	0-0			U
Methylphenol, Total	<9.01	µg/kg	67.0	0		NC	0-0			U
Naphthalene	<4.26	µg/kg	6.67	0		NC	0-0			U
Nitrobenzene	<11.2	µg/kg	167	0		NC	0-0			U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0	0		NC	0-0			U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0	0		NC	0-0			U
Pentachlorophenol	<26.5	µg/kg	33.0	0		NC	0-0			U
Phenanthrene	<3.10	µg/kg	6.67	0		NC	0-0			U
Phenol	<16.7	µg/kg	33.0	0		NC	0-0			U
Pyrene	<3.33	µg/kg	6.67	0		NC	0-0			U
Pyridine	<65.6	µg/kg	167	0		NC	0-0			U
Surr: 2,4,6-Tribromophenol	2580	µg/kg		3333		77.4	48-94			
Surr: 2-Fluorobiphenyl	2470	µg/kg		3333		74.2	50-103			
Surr: 2-Fluorophenol	2470	µg/kg		3333		74.0	43-105			
Surr: 4-Terphenyl-d14	2890	µg/kg		3333		86.7	55-111			
Surr: Nitrobenzene-d5	2520	µg/kg		3333		75.6	47-100			
Surr: Phenol-d6	2590	µg/kg		3333		77.6	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2424522-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/23/26 18:03**Prep Date:** 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1150	µg/kg	33.0	1333		86.3	57-101			
1,2,4,5-Tetrachlorobenzene	1170	µg/kg	333	1333		88.1	54-98			
1-Methylnaphthalene	1130	µg/kg	6.67	1333		84.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1050	µg/kg	33.0	1333		79.1	50-101			
2,3,4,6-Tetrachlorophenol	1130	µg/kg	67.0	1333		84.8	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3839619

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2424522-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:03

Prep Date: 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1010	µg/kg	33.0	1333		75.5	54-98			
2,4,6-Trichlorophenol	921	µg/kg	33.0	1333		69.1	56-97			
2,4-Dichlorophenol	1040	µg/kg	33.0	1333		78.1	54-99			
2,4-Dimethylphenol	864	µg/kg	33.0	1333		64.8	47-102			
2,4-Dinitrophenol	483	µg/kg	333	1333		36.3	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1100	µg/kg	33.0	1333		82.4	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1130	µg/kg	33.0	1333		85.1	62-103			
2-Chloronaphthalene	1040	µg/kg	6.67	1333		77.7	57-101			
2-Chlorophenol	1040	µg/kg	33.0	1333		77.8	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	953	µg/kg	33.0	1333		71.5	42-104			
2-Methylnaphthalene	1110	µg/kg	6.67	1333		83.5	55-102			
2-Methylphenol (o-Cresol)	984	µg/kg	33.0	1333		73.8	54-103			
2-Nitroaniline	1020	µg/kg	33.0	1333		76.2	57-103			
2-Nitrophenol	1150	µg/kg	33.0	1333		86.6	52-102			
3&4-Methylphenol	1010	µg/kg	33.0	1333		75.5	56-103			
3,3'-Dichlorobenzidine	856	µg/kg	167	1333		64.2	41-91			
3-Nitroaniline	587	µg/kg	33.0	1333		44.0	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1170	µg/kg	33.0	1333		87.5	63-104			
4-Chloro-3-methylphenol	1110	µg/kg	33.0	1333		83.0	57-103			
4-Chloroaniline	1140	µg/kg	67.0	1333		85.5	32-99			
4-Chlorophenyl phenylether	1110	µg/kg	33.0	1333		83.1	62-100			
4-Nitroaniline	637	µg/kg	167	1333		47.8	19-124			
4-Nitrophenol	594	µg/kg	333	1333		44.6	44-106			
Acenaphthene	1080	µg/kg	6.67	1333		80.9	60-101			
Acenaphthylene	1070	µg/kg	6.67	1333		80.4	59-101			
Acetophenone	1060	µg/kg	33.0	1333		79.7	54-102			
Anthracene	1070	µg/kg	6.67	1333		80.5	63-96			
Atrazine	1130	µg/kg	33.0	1333		85.1	60-110			
Benzaldehyde	239	µg/kg	67.0	1333		17.9	10-143			
Benzo(a)anthracene	1190	µg/kg	6.67	1333		89.2	66-102			
Benzo(a)pyrene	1190	µg/kg	6.67	1333		89.3	66-105			
Benzo(b)fluoranthene	1160	µg/kg	6.67	1333		86.8	67-105			
Benzo(g,h,i)perylene	1250	µg/kg	6.67	1333		93.6	59-110			
Benzo(k)fluoranthene	1170	µg/kg	6.67	1333		88.1	68-106			
bis(2-Chloroethoxy)methane	1120	µg/kg	33.0	1333		83.8	54-102			
bis(2-Chloroethyl) ether	945	µg/kg	33.0	1333		70.9	51-101			
Butyl benzyl phthalate	1110	µg/kg	67.0	1333		83.3	59-107			
Caprolactam	953	µg/kg	33.0	1333		71.5	49-103			
Carbazole	1150	µg/kg	33.0	1333		86.1	63-103			
Chrysene	1210	µg/kg	6.67	1333		91.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1180	µg/kg	33.0	1333		88.6	63-101			
Dibenz(a,h) anthracene	1260	µg/kg	33.0	1333		94.9	61-109			
Dibenzofuran	1060	µg/kg	33.0	1333		79.8	61-101			
Diethyl phthalate	1120	µg/kg	33.0	1333		83.7	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3839619

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2424522-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 01/23/26 18:03		Prep Date: 01/21/26 11:03			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Dimethyl phthalate	1120	µg/kg	33.0	1333		84.1	64-104		
Fluoranthene	1200	µg/kg	6.67	1333		89.7	66-105		
Fluorene	1110	µg/kg	6.67	1333		83.6	62-101		
Hexachlorobenzene	1230	µg/kg	33.0	1333		92.2	61-104		
Hexachlorobutadiene	1080	µg/kg	33.0	1333		81.3	52-99		
Hexachlorocyclopentadiene	814	µg/kg	33.0	1333		61.1	39-106		
Hexachloroethane	1030	µg/kg	33.0	1333		77.6	59-99		
Indeno(1,2,3-cd) pyrene	1310	µg/kg	6.67	1333		97.9	57-114		
Isophorone	1050	µg/kg	167	1333		78.8	55-101		
Methylphenol, Total	1990	µg/kg	67.0	2667		74.6	54-103		
Naphthalene	1100	µg/kg	6.67	1333		82.8	54-99		
Nitrobenzene	1030	µg/kg	167	1333		77.1	53-100		
n-Nitrosodi-n-propylamine	1040	µg/kg	33.0	1333		78.3	52-104		
N-Nitrosodiphenylamine	1080	µg/kg	33.0	1333		80.7	61-104		
Pentachlorophenol	516	µg/kg	33.0	1333		38.7	35-100		
Phenanthrene	1200	µg/kg	6.67	1333		90.2	64-101		
Phenol	905	µg/kg	33.0	1333		67.9	51-107		
Pyrene	1150	µg/kg	6.67	1333		86.4	62-114		
Pyridine	589	µg/kg	167	1333		44.2	40-84		
Surr: 2,4,6-Tribromophenol	3060	µg/kg		3333		91.7	48-94		
Surr: 2-Fluorobiphenyl	2590	µg/kg		3333		77.7	50-103		
Surr: 2-Fluorophenol	2510	µg/kg		3333		75.4	43-105		
Surr: 4-Terphenyl-d14	2950	µg/kg		3333		88.5	55-111		
Surr: Nitrobenzene-d5	2630	µg/kg		3333		78.8	47-100		
Surr: Phenol-d6	2680	µg/kg		3333		80.5	49-110		

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600836
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
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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	0		NC	0-0			U
1,1,2,2-Tetrachloroethane	<13.2	µg/kg	30.0	0		NC	0-0			U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<19.0	µg/kg	30.0	0		NC	0-0			U
1,1,2-Trichloroethane	<12.8	µg/kg	30.0	0		NC	0-0			U
1,1-Dichloroethane	<10.9	µg/kg	30.0	0		NC	0-0			U
1,1-Dichloroethylene	<9.72	µg/kg	30.0	0		NC	0-0			U
1,2,3-Trichlorobenzene	<36.0	µg/kg	100	0		NC	0-0			U
1,2,3-Trichloropropane	<12.6	µg/kg	30.0	0		NC	0-0			U
1,2,4-Trichlorobenzene	<34.0	µg/kg	100	0		NC	0-0			U
1,2,4-Trimethylbenzene	<22.0	µg/kg	30.0	0		NC	0-0			U
1,2-Dibromo-3-chloropropane (DBCP)	<27.6	µg/kg	100	0		NC	0-0			U
1,2-Dibromoethane (EDB, Ethylene dibromide)	<17.6	µg/kg	30.0	0		NC	0-0			U
1,2-Dichlorobenzene (o-Dichlorobenzene)	<11.4	µg/kg	30.0	0		NC	0-0			U
1,2-Dichloroethane (Ethylene dichloride)	<26.3	µg/kg	100	0		NC	0-0			U
1,2-Dichloropropane	<22.1	µg/kg	30.0	0		NC	0-0			U
1,3,5-Trimethylbenzene	<21.2	µg/kg	100	0		NC	0-0			U
1,3-Dichlorobenzene (m-Dichlorobenzene)	<20.7	µg/kg	30.0	0		NC	0-0			U
1,3-Dichloropropene	<16.8	µg/kg	60.0	0		NC	0-0			U
1,4-Dichlorobenzene (p-Dichlorobenzene)	<24.4	µg/kg	30.0	0		NC	0-0			U
2-Butanone (Methyl ethyl ketone, MEK)	<71.4	µg/kg	200	0		NC	0-0			U
2-Hexanone	<14.9	µg/kg	30.0	0		NC	0-0			U
4-Methyl-2-pentanone (MIBK)	<28.0	µg/kg	30.0	0		NC	0-0			U
Acetone	<89.0	µg/kg	100	0		NC	0-0			U
Benzene	<14.5	µg/kg	30.0	0		NC	0-0			U
Bromochloromethane	<15.3	µg/kg	30.0	0		NC	0-0			U
Bromodichloromethane	<16.8	µg/kg	30.0	0		NC	0-0			U
Bromoform	<12.6	µg/kg	30.0	0		NC	0-0			U
Carbon disulfide	<15.5	µg/kg	30.0	0		NC	0-0			U
Carbon tetrachloride	<11.7	µg/kg	30.0	0		NC	0-0			U
Chlorobenzene	<9.96	µg/kg	30.0	0		NC	0-0			U
Chlorodibromomethane	<16.8	µg/kg	30.0	0		NC	0-0			U
Chloroethane (Ethyl chloride)	<84.0	µg/kg	100	0		NC	0-0			U
Chloroform	<11.0	µg/kg	30.0	0		NC	0-0			U
cis-1,2-Dichloroethylene	<19.3	µg/kg	30.0	0		NC	0-0			U
cis-1,3-Dichloropropene	<22.6	µg/kg	30.0	0		NC	0-0			U
Cyclohexane	<23.0	µg/kg	100	0		NC	0-0			U
Dichlorodifluoromethane (Freon-12)	<36.3	µg/kg	100	0		NC	0-0			U
Ethylbenzene	<21.3	µg/kg	30.0	0		NC	0-0			U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3833440

MB	CLIENT ID: Method Blank	Lab ID: QC-2422298-001
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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	0		NC	0-0			U
m+p-Xylene	<40.0	µg/kg	60.0	0		NC	0-0			U
Methyl acetate	<35.9	µg/kg	250	0		NC	0-0			U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100	0		NC	0-0			U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100	0		NC	0-0			U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0	0		NC	0-0			U
Methylcyclohexane	<11.4	µg/kg	30.0	0		NC	0-0			U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250	0		NC	0-0			U
o-Xylene	<11.6	µg/kg	30.0	0		NC	0-0			U
Styrene	<11.9	µg/kg	30.0	0		NC	0-0			U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0	0		NC	0-0			U
Toluene	<24.7	µg/kg	30.0	0		NC	0-0			U
Total Xylene	<11.6	µg/kg	90.0	0		NC	0-0			U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0	0		NC	0-0			U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0	0		NC	0-0			U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0	0		NC	0-0			U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0	0		NC	0-0			U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0	0		NC	0-0			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
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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: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3833440

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422298-002
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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: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600836
Date Collected: NA
Date Received: NA
Run ID: 3833440

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

The following samples were analyzed in this batch: HN2600836-001, HN2600836-002, HN2600836-003

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding

Work Order: HN2600836

Sample Name: 5242 SB01 (1-2')_20260116
Laboratory Code: HN2600836-001
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	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	001-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2421588	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2421582	Mya Harmer	3831074	Madison VandenBer
EPA 8151A	Method	001-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	001-AA	2424522	Rachel Plantinga	3839619	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	001-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

Sample Name: 5242 SB02 (5-6')_20260116
Laboratory Code: HN2600836-002
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	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	002-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	002-AA	2421588	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	002-AA	2421582	Mya Harmer	3831074	Madison VandenBer
EPA 8151A	Method	002-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	002-AA	2424522	Rachel Plantinga	3839619	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	002-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

Sample Name: 5242 SB03 (3-4')_20260116
Laboratory Code: HN2600836-003
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: 5242 Harding

Work Order: HN2600836

Sample Name: 5242 SB03 (3-4')_20260116
Laboratory Code: HN2600836-003
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	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	003-AA	2427775	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2421588	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	003-AA	2421582	Mya Harmer	3831074	Madison VandenBer
EPA 8151A	Method	003-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AB	2422298	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	003-AA	2424522	Rachel Plantinga	3839619	Taryn Van Wyngarde
EPA 9056A	EPA 9056A	003-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis													
Purchase Order		Project Name	5242 Harding					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	5242 SB01 (1-2 ')_2026	01/16/26	1335	Soil	7	3	✓	✓	✓	✓	✓	✓	✓							
2	5242 SB02 (5-6 ')_2026	01/16/26	1340	Soil	7	3	✓	✓	✓	✓	✓	✓	✓							
3	5242 SB03 (3-4 ')_2026	01/16/26	1345	Soil	7	3	✓	✓	✓	✓	✓	✓	✓							
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler(s): Please Print & Sign Zachary Kippe		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Other: _____	
Relinquished by: Zachary Kippe	Date: 1/16	Time: 4:00pm	Received by: Nate	Date: 1/16	Time: 4:00pm	Notes:	
Relinquished by: [Signature]	Date: 1/16	Time: 1700	Received by (Laboratory): [Signature]	Date: 1/16	Time: 1700	Cooler Temp. 2.5°C	QC Package: (Check Box Below)
Logged by (Laboratory): BC	Date: 1/17	Time: 15:50	Checked by (Laboratory):			Level II: Standard QC	TRRP-Checklist
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Level III: Std QC + Raw Data	TRRP Level IV
						Level IV: SW846 CLP-Like	
						Other:	

Environmental Division
Holland
Work Order Reference
HN2600836

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>

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by:	<u>BC</u>
Date/Time:	<u>1/17/26 08:00</u>
Carrier Name:	<u>Q5</u>
Shipping container/cooler in good condition?	<u>Yes</u> / No / Not Present
Custody seals intact on shipping container/cooler?	Yes / No / <u>Not</u> Present
Custody seals intact on sample bottles?	Yes / No / <u>Not</u> Present
Chain of Custody present?	<u>Yes</u> / No
COC signed when relinquished and received?	<u>Yes</u> / No
COC agrees with sample labels?	<u>Yes</u> / No
Samples in proper container/bottle?	<u>Yes</u> / No
Sample containers intact?	<u>Yes</u> / No
Sufficient sample volume for indicated test?	<u>Yes</u> / No
All samples received within holding time?	<u>Yes</u> / No
Container/Temp Blank temperature in compliance?	<u>Yes</u> / No
Temperature(s) (°C):	<u>2.5°c</u>
Thermometer(s):	<u>127</u>
Sample(s) received on ice?	<u>Yes</u> / No
Matrix/Matrices:	<u>Soil</u>
Cooler(s)/Kit(s):	<u>1</u>
Date/Time sample(s) sent to storage:	<u>1/17/26</u>
Water – VOA vials have zero headspace?	Yes / No / <u>No</u> Vials
Water – pH acceptable upon receipt?	Yes / No / <u>N/A</u>
pH strip lot #: _____	< 2 _____ > 12 _____ Other _____
pH adjusted (note adjustments below)?	Yes / No / <u>N/A</u>
pH adjusted by:	_____
Login Notes:	

--	--

HN-SHT-160-R01, Sample Receipt Checklist



right solutions.
right partner.

March 06, 2026

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

Re: **5242 Harding**

Date Received: **02/26/2026**

Work Order: **HN2602929**

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: 5242 Harding

Work Order: HN2602929
Date Received: 26-Feb-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

1 soil/solid sample was received for analysis at ALS Environmental on 26-Feb-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: HN2602929

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

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Workorder: HN2602929

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2602929-001	5242 TCLP SB01 (1-2') _20260225	SOIL/SOLID	02/25/26 13:13	02/26/26 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information							Project Information							Parameter/Method Request for Analysis						
Purchase Order							Project Name	5242 Harding						A	TCLP Pesticides					
Work Order							Project Number	DETR0060						B						
Company Name	Mannik Smith Group						Bill To Company	Mannik Smith Group						C						
Send Report To	Ryan Montri and Olivia Mitchell						Invoice Attn							D						
Address	2365 South Haggerty Road						Address	2365 South Haggerty Road						E						
City/State/Zip	Canton, Mi 48188						City/State/Zip	Canton, Mi 48188						F						
Phone	734-397-3100						Phone	734-397-3100						G						
Fax							Fax							H						
e-Mail Address	montri@mannaiksmithgroup.com						e-Mail Address	omitchell@mannaiksmithgroup.com						I						
														J						
No.	Sample Description						Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E				
1	5242 TCLP SB01 (1-2')_20260225						2/25/26	13 13	Soil	NA	1	X								
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s): Please Print & Sign WILEY DAVENPORT							Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:							
Relinquished by:		Date:		Time:		Received by:		Notes:												
		2/25/26		14 13				QS to BH 2/26/26 0800												
Relinquished by:		Date:		Time:		Received by (Laboratory):		Cooler Temp.												
		2/25		1700		OS 2/25 1700		1R6 25c												
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):		QC Package: (Check Box Below)												
BH		2/26/26		1013				☐ Level II: Standard QC ☐ TRRP-Checklist												
								☐ Level III: Std QC + Raw Data ☐ TRRP Level IV												
								☐ Level IV: SW846 CLP-Like												
								Other: _____												
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																				

Environmental Division
Holland
Work Order Reference
HN2602929

Telephone : +1 616 399 6070

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: BH

Date/Time: 2/26/26 0800

Carrier Name: QS

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): 2.5/2.5

Thermometer(s): 186

Sample(s) received on ice? (Yes) / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 2/26/26 1013

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 Method criteria
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.

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
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	12/08/2025	12/31/2026
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	1/1/2026	12/31/2026
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	12/10/2025	12/31/2026
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	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding

Work Order: HN2602929

Sample Name: 5242 TCLP SB01 (1-2')_20260225
Laboratory Code: HN2602929-001
Sample Matrix: SOIL/SOLID

Date Collected: 02/25/26
Date Received: 02/26/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 8081B	EPA 3511	001-AC	2477594	Mac Peterson	3923232	Nathaniel Dietlin

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID

Work Order: HN2602929
Date Collected: 02/25/26 13:13
Date Received: 02/26/26 08:00

CLIENT ID: 5242 TCLP SB01 (1-2')_20260225

Lab ID: HN2602929-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Organochlorine Pesticides by GC/ECD								
Chlordane (NOS)	EPA 8081B	<0.00794	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Chlordane, Technical	EPA 8081B	<0.0337	U	µg/L	0.496	1	03/05/26 14:22	03/04/26 13:40
cis-Chlordane	EPA 8081B	<0.00794	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Endrin	EPA 8081B	<0.00844	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
gamma-BHC (Lindane)	EPA 8081B	<0.00825	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Heptachlor	EPA 8081B	<0.00754	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Heptachlor epoxide	EPA 8081B	<0.00787	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Methoxychlor	EPA 8081B	<0.00981	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
Toxaphene	EPA 8081B	<0.109	U	µg/L	1.98	1	03/05/26 14:22	03/04/26 13:40
trans-Chlordane	EPA 8081B	<0.00794	U	µg/L	0.00992	1	03/05/26 14:22	03/04/26 13:40
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	92.6		%REC	<i>42-148</i>	<i>1</i>	<i>03/05/26 14:22</i>	<i>03/04/26 13:40</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	81.4		%REC	<i>57-141</i>	<i>1</i>	<i>03/05/26 14:22</i>	<i>03/04/26 13:40</i>



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2477594

Work Order: HN2602929
Date Collected: NA
Date Received: NA
Run ID: 3922711

TCLP Organochlorine Pesticides by GC/ECD

MB CLIENT ID: Method Blank Lab ID: QC-MRG2-2477594001

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 18:55

Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	<0.0100	µg/L	0.0100							U
Chlordane, Technical	<0.0340	µg/L	0.500							U
cis-Chlordane	<0.00800	µg/L	0.0100							U
Endrin	<0.00851	µg/L	0.0100							U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100							U
Heptachlor	<0.00760	µg/L	0.0100							U
Heptachlor epoxide	<0.00796	µg/L	0.0100							U
Methoxychlor	<0.00989	µg/L	0.0100							U
Toxaphene	<0.110	µg/L	2.00							U
trans-Chlordane	<0.00800	µg/L	0.0100							U
Surr: Decachlorobiphenyl	0.276	µg/L		0.25		110	0.42-148			
Surr: Tetrachloro-m-xylene	0.178	µg/L		0.25		71.0	57-141			

LCS CLIENT ID: Laboratory Control Sample Lab ID: QC-MRG2-2477594002

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:10

Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.467	µg/L	0.0100	0.4		117	63-165			
cis-Chlordane	0.235	µg/L	0.0100	0.2		118	63-164			
Endrin	0.246	µg/L	0.0100	0.2		123	43-176			
gamma-BHC (Lindane)	0.215	µg/L	0.0100	0.2		108	63-158			
Heptachlor	0.207	µg/L	0.0100	0.2		104	47-166			
Heptachlor epoxide	0.243	µg/L	0.0100	0.2		122	63-164			
Methoxychlor	0.238	µg/L	0.0100	0.2		119	36-176			
trans-Chlordane	0.232	µg/L	0.0100	0.2		116	63-165			
Surr: Decachlorobiphenyl	0.280	µg/L		0.25		112	42-148			
Surr: Tetrachloro-m-xylene	0.209	µg/L		0.25		83.7	57-141			

DLCS CLIENT ID: Laboratory Control Sample Duplicate Lab ID: QC-MRG2-2477594003

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:24

Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane (NOS)	0.460	µg/L	0.0100	0.4		115	63-165	1.47	20	
cis-Chlordane	0.232	µg/L	0.0100	0.2		116	63-164	1.28	20	
Endrin	0.239	µg/L	0.0100	0.2		119	43-176	3.14	20	
gamma-BHC (Lindane)	0.208	µg/L	0.0100	0.2		104	63-158	3.31	20	
Heptachlor	0.205	µg/L	0.0100	0.2		102	47-166	1.17	20	
Heptachlor epoxide	0.239	µg/L	0.0100	0.2		119	63-164	1.99	20	
Methoxychlor	0.230	µg/L	0.0100	0.2		115	36-176	3.68	20	
trans-Chlordane	0.228	µg/L	0.0100	0.2		114	63-165	1.65	20	
Surr: Decachlorobiphenyl	0.280	µg/L		0.25		112	42-148	0.143	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5242 Harding
Matrix: SOIL/SOLID
QC Lot: 2477594

Work Order: HN2602929
Date Collected: NA
Date Received: NA
Run ID: 3922711

DLCS	CLIENT ID: Laboratory Control Sample Duplicate	Lab ID: QC-MRG2-2477594003
-------------	---	-----------------------------------

Method: EPA 8081B **Dilution:** 1 **Analysis Date:** 03/04/26 19:24
Prep Date: 03/04/26 13:41

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: Tetrachloro-m-xylene	0.234	µg/L		0.25		93.4	57-141	11.0	30	

The following samples were analyzed in this batch: HN2602929-001