

DRAFT

FILL MATERIAL SAMPLING REPORT

5224 HARDING STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48213



FEBRUARY 15, 2026
REVISED: APRIL 23, 2026

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



FILL MATERIAL SAMPLING REPORT

5224 HARDING STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48213

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 5224 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 5224 SB01, 5224 SB02, and 5224 SB03 generally consisted of tan to dark brown silty clay and gravely sand 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 5224 SB02.
- Concentrations of arsenic, chromium (Total), and zinc were detected in soil samples 5224 SB01 (1-2')_20260116 and/or 5224 SB03 (5-6')_20260116 in excess of Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), and/or direct contact criteria (DCC).
- Concentrations of 3 & 4-methylphenol, 4,4'-DDE, acenaphthylene, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, chloride, chrysene, copper, cresols (Total), fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and toluene were detected in soil samples 5224 SB01 (1-2')_20260116, 5224 SB02 (3-4')_20260116, and/or 5224 SB03 (5-6')_20260116 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of lead 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 and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or

surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 5224 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 April 6, 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 April 6, 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 5224 SB01, 5224 SB02, and 5224 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 April 6, 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 5224 SB01 (1-2')_20260116, 5224 SB02 (3-4')_20260116, and 5224 SB03 (5-6')_20260116, were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters

as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, 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.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 5224 SB01, 5224 SB02, and 5224 SB03 generally consisted of tan to dark brown silty clay and gravely sand 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 5224 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 5224 SB01 (1-2') _20260116, 5224 SB02 (3-4') _20260116, and 5224 SB03 (5-6') _20260116, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	5224 SB01 (1-2')_20260116 5224 SB03 (5-6')_20260116	GSIPC ² / 4,600 DWPC ³ / 4,600 DCC ⁴ / 7,600	15,900
Chromium (Total)	7440-47-3	5224 SB03 (5-6')_20260116	GSIPC / 3,300	21,000
Zinc	7440-66-6	5224 SB01 (1-2')_20260116	GSIPC / 1.60E+05	244,000

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

Lead was 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 5224 SB01, 5224 SB02, and 5224 SB03 generally consisted of tan to dark brown silty clay and gravely sand 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 5224 SB02.
- Concentrations of arsenic, chromium (Total), and zinc were detected in soil samples 5224 SB01 (1-2')_20260116 and/or 5224 SB03 (5-6')_20260116 in excess of Part 201 GSIPC, DWPC, and/or DCC.
- Concentrations of 3 & 4-methylphenol, 4,4'-DDE, acenaphthylene, anthracene, barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)

phthalate, chloride, chrysene, copper, cresols (Total), fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and toluene were detected in soil samples 5224 SB01 (1-2')_20260116, 5224 SB02 (3-4')_20260116, and/or 5224 SB03 (5-6')_20260116 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.

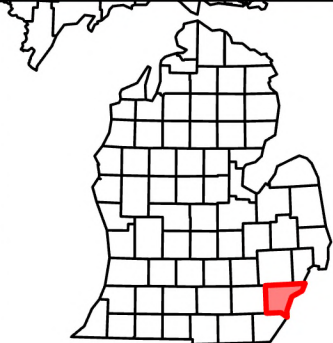
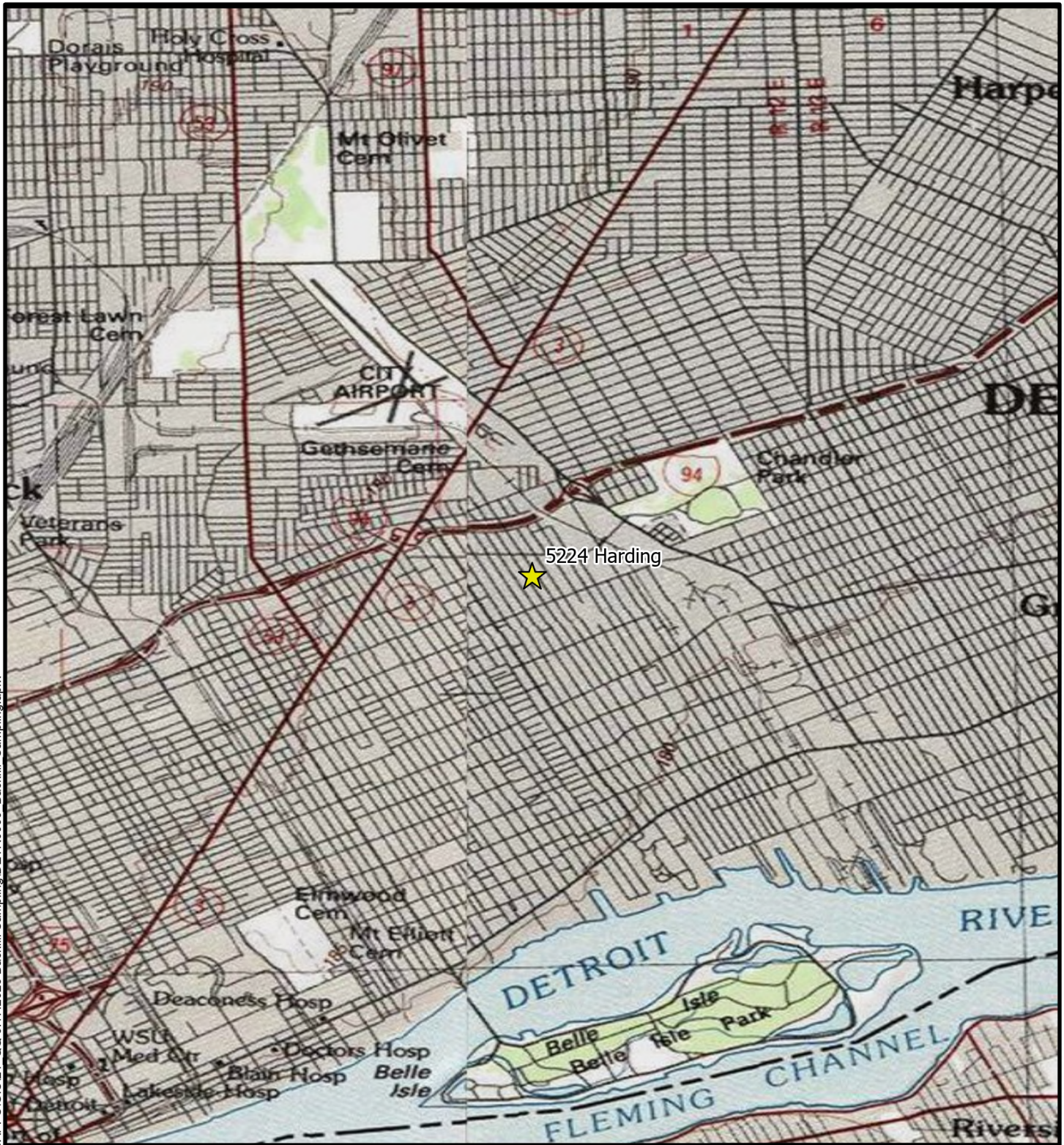
- TCLP laboratory analytical results revealed that concentrations of lead were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics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

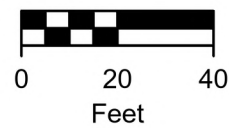


FIGURE 1
SITE LOCATION

5224 Harding, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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Date Saved: 4/6/2026 3:51 PM
Path: W:\Projects\Projects A-E\DETR0060\ENGAPPS\GIS\21_QQ 6.17.2025 Backfill Sampling\DETR0060_Backfill_Sampling.aprx



- Sample Locations
- Subject Property
- Parcels (Current)

Notes
• Parcel boundaries are approximate
• Basemap Credits: All Roads:
Parcels (Query):
Parcels (Current):
City_of_Detroit_Imagery_2015:



FIGURE 2
Site Layout

5224 HARDING, Detroit, MI

DATE 4/6/2026	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
5224 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							Pesticides
			Chloride	Arsenic (B)	Berium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	4,4'-DDE
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	72-55-9
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Statewide Default Background Levels			NC	5,800	75,000	18,000	32,000	21,000	130	47,000	NC
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	NLL
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	NLL
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	NLV	NLV	NC	NLV	NLV	48,000	NC	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	22 ^(M)	NC	39,000
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV
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	3.20E+07
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	45,000
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NC	NA	NA	NA	NC	NA
Sample ID	Sample Depth (ft)	Sample Date									
5224 SB01	1.0 - 2.0	01/16/2026	39,500	15,900	135,000	16,300	26,900	352,000	47.7	244,000	29
5224 SB02	3.0 - 4.0	01/16/2026	14,100	4,180	13,300	5,440	8,250	4,770	30.9	26,500	<17.7
5224 SB03	5.0 - 6.0	01/16/2026	<4,140	15,300	96,300	21,000	24,200	13,500	45.8	56,200	<20.4

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
5224 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)	
			3 & 4-Methylphenol	Acenaphthylene	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Bis(2-ethylhexyl) phthalate	Chrysene	Cresols Total	Fluoranthene	Indeno(1,2,3-Cd)Pyrene	Phenanthrene	Pyrene	Toluene
CAS Number			65794-96-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	117-81-7	218-01-9	1319-77-3	206-44-0	193-39-5	85-01-8	129-00-0	108-88-3
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	5,900	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7,400	7.30E+05	NLL	56,000	4.80E+05	16,000
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	ID	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	1000 ^(M,600)	5,500	NLL	2,100	ID	5,400
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	1.60E+06	1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	1.00E+09	NLV	2.80E+06	1.00E+09	3.30E+05
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,700	2.50E+07	3,700
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	2.20E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	1.60E+05	6.50E+08	2.80E+06
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	2.20E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	1.60E+05	6.50E+08	5.10E+06
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	2.20E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	NLV	7.40E+08	NLV	1.60E+05	6.50E+08	1.20E+07
Particulate Soil Inhalation Criteria (PSIC)			NC	2.30E+09	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	7.00E+08	ID	6.70E+09	9.30E+09	ID	6.70E+06	6.70E+09	2.70E+10
Direct Contact Criteria (DCC)			NC	1.60E+06	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.80E+06	2.00E+06	1.10E+07	4.60E+07	20,000	1.60E+06	2.90E+07	5.00E+07
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	NA	2.50E+05
Sample ID	Sample Depth (ft)	Sample Date																
5224 SB01	1.0 - 2.0	01/16/2026	767	<17	21.6	124	126	173	118	62.9	393	120	767	210	122	74.7	169	287
5224 SB02	3.0 - 4.0	01/16/2026	<19.6	7.91	<5.07	34.5	30.9	43.1	20.8	15.8	<29.7	26.6	<9.71	47.4	23.7	10.1	38.1	<28.9
5224 SB03	5.0 - 6.0	01/16/2026	<52.6	<16.7	<13.6	<16.7	<11.8	<14.4	<14.8	<14.6	<79.8	<15.6	<26.1	<9.27	<13.4	<8.98	<9.63	<35.8

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 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
5224 Harding, Detroit, Michigan

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 Metals
Maximum Concentration of Contaminants for the Toxicity Characteristic		Lead (B) 5.00
SAMPLE ID	SAMPLE DATE	
5224 TCLP SB01 (1-2') 20260406	4/6/2026	<0.00220

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>~1.0 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:					
1402 – MSG on-site (5224 Harding) 1405 – Start SB-01, End 1409 1410 – Start SB-02, End 1414 1416 – Start SB-03, End 1421 1430 – SB-01 sampled 5224 SB-01(1-2') _20260116 1435 – SB-02 sampled 5224 SB-02(3-4') _20260116 1440 – SB-03 sampled 5224 SB-03(5-6') _20260116 1500 – 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 ☐					



DAILY FIELD REPORT

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

Report No.: 2
Job No.: DETR0060

Date: <u>04/06/2026</u>	Day: <u>Monday</u>	Temp: <u>48° F</u> (AM) <u>N/A</u> (PM)	
MSG Personnel: <u>ERR, KW, JF</u>		Cloud Cover: <u>80%</u> (AM) <u>N/A</u> (PM)	
		Precipitation: <u>N/A</u> (AM) <u>N/A</u> (PM)	
EGLE Personnel: _____			
MSG Hours On-Site: <u>~0.5 hours</u>			
Contractors Information			
Contractor: MSG		No. Men and Type: 3; Geologist/Helper/Operator	
		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:			
- Advanced one soil boring to a maximum depth of 6 feet below ground surface (bgs) - Collected one soil sample from soil boring SB01 (1-2') to submit for TCLP analysis.			
Field Notes:			
0940 – ERR, KW, and JF on-site (5224 Harding) 0950 – Sampled 5224 TCLP SB01 (1-2')_20260406 1000 – MSG off-site			
Supporting Documentation			
Photograph Taken	Yes ☒ No ☐	Samples Collected	Yes ☒ No ☐
Photo Log Attached	☒ ☐	COC Attached	☒ ☐
		Boring/MW Logs	Yes ☒ No ☐
		Field Notebook Taken	☒ ☐
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 east.



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



Photo 4: Viewing the soil recovery from 5224 SB-01, facing southeast.



Photo 5: Viewing the soil recovery from 5224 SB-01 and SB-02 (back to front), facing southeast.



Photo 6: Viewing debris in 5224 SB-02 at 5' bgs, facing southeast.



Photo 7: Viewing the soil recovery from 5224 SB-01, SB-02, and SB-03 (back to front), facing southeast.



Photo 8: View of the Site after drilling, facing east.



Photo 9: Viewing of the Site at the time of TCLP soil sampling activities, facing east.



Photo 10: View of drilling 5224 TCLP SB01, facing south.



Photo 11: Viewing the soil recovery from 5524 TCLP SB01, facing west.



Photo 12: 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 SB01

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060_5224 Harding
DATE STARTED 01-16-2026 **COMPLETED** 01-16-2026
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct Push
EQUIPMENT GeoProbe 7822 DT **Operator**

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 5224 Harding, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY ZDK **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Tan, Gravelly SAND, Dry	0	Sample Collected 5224 SB-01 (1-2) 20260116 @ 1430
			1.5	Dark Brown, CLAY, Trace Silt, Dry		
			2.0	Brown and Gray Mottled, CLAY, Dry	0	
			2.5	Brown, CLAY, Trace Organics, Dry		
			3.0	Brown and Gray Mottled, CLAY, Dry	0	
			6.0	Terminated at 6.00 ft.	0	
ES		83				
5						
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 27, 2026

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

Re: **5224 Harding**

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

Work Order: **HN2600835**

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: 5224 Harding

Work Order: HN2600835
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: HN2600835

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

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3839619

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; Pentachlorophenol.

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

Parent Sample HN2600835-001: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: See QC report.

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.

Run ID: 3842647

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

EPA 8151A-S

Run ID: 3838451

Parent sample HN2600835-002: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: 2,4-D.

EPA 8082A-3546-S (High)

Run ID: 3831074

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

Run ID: 3833598

Surrogate DCP was elevated in the LCS and MB samples; however, it met acceptance criteria in all associated samples. Prep 2421581

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

Run ID: 3833440

Parent Sample HN2600835-003: QC-2422298-005 and -006: The MS/MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: see qc report

Parent Sample HN2600835-003: QC-2422298-005 and -006: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. tetrachloroethene
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)

Parent Sample HN2600835-003: QC-2422298-006: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: bromomethane

EPA 8081B-3546-S (High)**Run ID: 3837486**

HN2600835-003: 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: 4,4-DDT, Methoxychlor.

Metals**EPA 6020B-3050B-S****Run ID: 3836793**

Samples HN2600835-001 through -003: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 5224 SB01 (1-2')_20260116			Lab ID: HN2600835-001		
--------------------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
3&4-Methylphenol	767	S	97.3	µg/kg	EPA 8270E
4,4'-DDE	29.0		28.9	µg/kg	EPA 8081B
Anthracene	21.6		19.7	µg/kg	EPA 8270E
Arsenic	15.9		3.52	mg/kg	EPA 6020B
Barium	135		3.52	mg/kg	EPA 6020B
Benzo(a)anthracene	124		19.7	µg/kg	EPA 8270E
Benzo(a)pyrene	126		19.7	µg/kg	EPA 8270E
Benzo(b)fluoranthene	173		19.7	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	118		19.7	µg/kg	EPA 8270E
Benzo(k)fluoranthene	62.9		19.7	µg/kg	EPA 8270E
Chloride	39.5		12.6	mg/kg	EPA 9056A
Chromium	16.3		3.52	mg/kg	EPA 6020B
Chrysene	120		19.7	µg/kg	EPA 8270E
Copper	26.9		3.52	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	393		97.3	µg/kg	EPA 8270E
Fluoranthene	210		19.7	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	122		19.7	µg/kg	EPA 8270E
Lead	352		3.52	mg/kg	EPA 6020B
Mercury	0.0477		0.0204	mg/kg	EPA 7471B
Methylphenol, Total	767	S	97.3	µg/kg	EPA 8270E
Percent Moisture	19.8		0.1	%	EPA 3550C
Phenanthrene	74.7		19.7	µg/kg	EPA 8270E
Pyrene	169		19.7	µg/kg	EPA 8270E
Toluene	287		45.4	µg/kg	EPA 8260D
Zinc	244		70.3	mg/kg	EPA 6020B

CLIENT ID: 5224 SB02 (3-4')_20260116			Lab ID: HN2600835-002		
--------------------------------------	--	--	-----------------------	--	--

Analyte	Results	Flag	MRL	Units	Method
Acenaphthylene	7.91		7.19	µg/kg	EPA 8270E
Arsenic	4.18		2.74	mg/kg	EPA 6020B
Barium	13.3		2.74	mg/kg	EPA 6020B
Benzo(a)anthracene	34.5		7.19	µg/kg	EPA 8270E
Benzo(a)pyrene	30.9		7.19	µg/kg	EPA 8270E
Benzo(b)fluoranthene	43.1		7.19	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	20.8		7.19	µg/kg	EPA 8270E
Benzo(k)fluoranthene	15.8		7.19	µg/kg	EPA 8270E
Chloride	14.1		11.1	mg/kg	EPA 9056A
Chromium	5.44		2.74	mg/kg	EPA 6020B
Chrysene	26.6		7.19	µg/kg	EPA 8270E
Copper	8.25		2.74	mg/kg	EPA 6020B

SAMPLE DETECTION SUMMARY

This form includes only detections above the limits as presented.

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



CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Results	Flag	MRL	Units	Method
Fluoranthene	47.4		7.19	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	23.7		7.19	µg/kg	EPA 8270E
Lead	4.77		2.74	mg/kg	EPA 6020B
Mercury	0.0309		0.0200	mg/kg	EPA 7471B
Percent Moisture	7.9		0.1	%	EPA 3550C
Phenanthrene	10.1		7.19	µg/kg	EPA 8270E
Pyrene	38.1		7.19	µg/kg	EPA 8270E
Zinc	26.5		5.48	mg/kg	EPA 6020B

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Results	Flag	MRL	Units	Method
Arsenic	15.3		3.68	mg/kg	EPA 6020B
Barium	96.3		3.68	mg/kg	EPA 6020B
Chromium	21.0		3.68	mg/kg	EPA 6020B
Copper	24.2		3.68	mg/kg	EPA 6020B
Lead	13.5		3.68	mg/kg	EPA 6020B
Mercury	0.0458		0.0210	mg/kg	EPA 7471B
Percent Moisture	19.6		0.1	%	EPA 3550C
Zinc	56.2		7.36	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Workorder: HN2600835

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2600835-001	5224 SB01 (1-2')_20260116	SOIL/SOLID	01/16/26 14:30	01/17/26 08:00
HN2600835-002	5224 SB02 (3-4')_20260116	SOIL/SOLID	01/16/26 14:35	01/17/26 08:00
HN2600835-003	5224 SB03 (5-6')_20260116	SOIL/SOLID	01/16/26 14:40	01/17/26 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	5224 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	5224 SB01 (1-2 ')_2026						01/16/26	1430	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
2	5224 SB02 (3-4 ')_2026						01/16/26	1435	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
3	5224 SB03 (5-6 ')_2026						01/16/26	1440	Soil	7	3	✓	✓	✓	✓	✓	✓	✓						
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Sampler(s): Please Print & Sign Zachary Kippe Anna Kaim							Shipment Method:				Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____													
Relinquished by:		Date:		Time:		Received by:		Notes:																
Zachary Kippe MSW Anna Kaim		1/16		4:00pm		[Signature]		1/16 4:00pm																
Relinquished by:		Date:		Time:		Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)														
[Signature]		1/16		1700		[Signature]		1/16 1700				☐ Level II: Standard QC TRRP-Checklist												
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):				☐ Level III: Std QC + Raw Data TRRP Level IV														
[Signature]		1/17		08:00		[Signature]				☐ Level IV: SW846 CLP-Like														
		1/17		15:45						☐ Other: _____														
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-S035																								

Environmental Division
Holland
Work Order Reference
HN2600835

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:

BC

Date/Time:

1/17/26 08:00

Carrier Name:

Q5

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not Present

Custody seals intact on sample bottles?

Yes / No / Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

2.5 °C

Thermometer(s):

187

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

1/17/26

Water – VOA vials have zero headspace?

Yes / No / No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

pH strip lot #: _____ < 2 _____ > 12 _____ Other _____

pH adjusted (note adjustments below)?

Yes / No / N/A

pH adjusted by:

Login Notes:

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HN-SHT-160-R01, Sample Receipt Checklist

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

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding

Work Order: HN2600835

Sample Name: 5224 SB01 (1-2')_20260116
Laboratory Code: HN2600835-001
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 6020B	EPA 3050B	001-AA	2426113	Weston Kotecki	3838280	Hunter Johnson
EPA 7471B	Method	001-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	001-AA	2421584	Mya Harmer	3833201	Madison VandenBer
EPA 8082A	EPA 3546	001-AA	2421581	Mya Harmer	3831072	Madison VandenBer
EPA 8151A	Method	001-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AB	2422019	Jonathan Vazquez	3833440	John Garvale
EPA 8270E	EPA 3546	001-AA	2424522	Rachel Plantinga	3839619	Taryn Van Wyngarde
EPA 8270E	EPA 3546	001-AA	2424522	Rachel Plantinga	3842647	Alexa Montague
EPA 9056A	EPA 9056A	001-AA	2422266	Kelsey Beaudette	3832077	Quoc Nguyen

Sample Name: 5224 SB02 (3-4')_20260116
Laboratory Code: HN2600835-002
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	2421584	Mya Harmer	3833270	Sam Bruzan
EPA 8082A	EPA 3546	002-AA	2421581	Mya Harmer	3831072	Madison VandenBer
EPA 8151A	Method	002-AA	2423622	Willow Julien	3838451	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AB	2422019	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

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding

Work Order: HN2600835

Sample Name: 5224 SB03 (5-6')_20260116
Laboratory Code: HN2600835-003
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
EPA 6020B	EPA 3050B	003-AA	2426113	Weston Kotecki	3836793	Hunter Johnson
EPA 7471B	Method	003-AA	2427774	Maxx Richey	3842171	Maxx Richey
EPA 8081B	EPA 3546	003-AA	2421588	Mya Harmer	3837486	Nathaniel Dietlin
EPA 8082A	EPA 3546	003-AA	2426088	Willow Julien	3842877	Nathaniel Dietlin
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

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<6.63	U	µg/kg	36.0	1	01/22/26 21:39	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<11.8	U	µg/kg	36.0	1	01/22/26 21:39	01/20/26 15:08
2,4-D	EPA 8151A	<19.2	U	µg/kg	72.1	1	01/22/26 21:39	01/20/26 15:08
Surr: DCAA	EPA 8151A	80.0		%REC	10-116	1	01/22/26 21:39	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	19.8		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	39.5		mg/kg	12.6	1	01/20/26 21:39	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	15.9		mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Barium	EPA 6020B	135		mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Cadmium	EPA 6020B	<0.211	U	mg/kg	1.41	10	01/22/26 17:01	01/22/26 09:47
Chromium	EPA 6020B	16.3		mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Copper	EPA 6020B	26.9		mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Lead	EPA 6020B	352		mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Selenium	EPA 6020B	<3.23	U	mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Silver	EPA 6020B	<0.464	U	mg/kg	3.52	10	01/22/26 17:01	01/22/26 09:47
Zinc	EPA 6020B	244		mg/kg	70.3	100	01/23/26 12:35	01/22/26 09:47
Mercury	EPA 7471B	0.0477		mg/kg	0.0204	1	01/26/26 14:11	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.5	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
4,4'-DDE	EPA 8081B	29.0		µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
4,4'-DDT	EPA 8081B	<19.2	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Aldrin	EPA 8081B	<18.8	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
alpha-BHC	EPA 8081B	<19.0	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
beta-BHC	EPA 8081B	<19.0	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Chlordane, Technical	EPA 8081B	<28.6	U	µg/kg	72.2	1	01/21/26 01:17	01/19/26 08:04
cis-Chlordane	EPA 8081B	<19.3	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
delta-BHC	EPA 8081B	<18.9	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Dieldrin	EPA 8081B	<20.2	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<19.4	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Endosulfan II	EPA 8081B	<19.1	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Endosulfan sulfate	EPA 8081B	<17.8	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Endrin	EPA 8081B	<23.4	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Endrin aldehyde	EPA 8081B	<18.3	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Endrin ketone	EPA 8081B	<17.6	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
gamma-BHC (Lindane)	EPA 8081B	<19.0	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Heptachlor	EPA 8081B	<18.6	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Heptachlor epoxide	EPA 8081B	<19.1	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Methoxychlor	EPA 8081B	<19.3	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
Toxaphene	EPA 8081B	<31.2	U	µg/kg	173	1	01/21/26 01:17	01/19/26 08:04
trans-Chlordane	EPA 8081B	<19.2	U	µg/kg	28.9	1	01/21/26 01:17	01/19/26 08:04
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	115		%REC	53-151	1	01/21/26 01:17	01/19/26 08:04
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	88.6		%REC	67-127	1	01/21/26 01:17	01/19/26 08:04

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<66.0	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1221	EPA 8082A	<66.0	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1232	EPA 8082A	<66.0	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1242	EPA 8082A	<66.0	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1248	EPA 8082A	<66.0	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1254	EPA 8082A	<53.8	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1260	EPA 8082A	<53.8	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1262	EPA 8082A	<53.8	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Aroclor 1268	EPA 8082A	<53.8	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
Total PCB	EPA 8082A	<53.8	U	µg/kg	193	1	01/20/26 10:09	01/19/26 07:47
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	124		%REC	54-146	1	01/20/26 10:09	01/19/26 07:47
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	108		%REC	58-140	1	01/20/26 10:09	01/19/26 07:47

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.9	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<22.7	U	µg/kg	982	1	01/23/26 19:25	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<70.5	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	<14.2	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<23.0	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<72.0	U	µg/kg	197	1	01/23/26 19:25	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<58.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<26.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<52.9	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<50.5	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<718	U	µg/kg	982	1	01/23/26 19:25	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<63.8	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<25.1	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<13.7	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<64.3	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<82.1	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	<9.99	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<26.6	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<54.6	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<28.0	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	767	S	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<45.9	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<57.0	SU	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<53.8	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<28.0	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<49.9	U	µg/kg	197	1	01/23/26 19:25	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<27.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<152	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<230	U	µg/kg	982	1	01/23/26 19:25	01/21/26 11:02
Acenaphthene	EPA 8270E	<14.2	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<17.0	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Acetophenone	EPA 8270E	<15.4	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Anthracene	EPA 8270E	21.6		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Atrazine	EPA 8270E	<57.6	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Benzaldehyde	EPA 8270E	<151	U	µg/kg	197	1	01/26/26 22:17	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	124		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	126		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	173		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	118		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	62.9		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<62.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<27.8	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<123	U	µg/kg	197	1	01/23/26 19:25	01/21/26 11:02
Caprolactam	EPA 8270E	<88.7	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Carbazole	EPA 8270E	<29.0	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Chrysene	EPA 8270E	120		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	393		µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<10.6	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Dibenzofuran	EPA 8270E	<14.4	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<33.4	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<19.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Fluoranthene	EPA 8270E	210		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Fluorene	EPA 8270E	<14.3	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<28.6	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<23.1	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<93.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Hexachloroethane	EPA 8270E	<40.7	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	122		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Isophorone	EPA 8270E	<19.2	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
Methylphenol, Total	EPA 8270E	767	S	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<12.6	U	µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Nitrobenzene	EPA 8270E	<33.0	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<16.2	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<56.9	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<78.1	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Phenanthrene	EPA 8270E	74.7		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Phenol	EPA 8270E	<49.4	U	µg/kg	97.3	1	01/23/26 19:25	01/21/26 11:02
Pyrene	EPA 8270E	169		µg/kg	19.7	1	01/23/26 19:25	01/21/26 11:02
Pyridine	EPA 8270E	<193	U	µg/kg	491	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	78.7		%REC	48-94	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	74.6		%REC	50-103	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	74.3		%REC	43-105	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	78.0		%REC	55-111	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	72.1		%REC	47-100	1	01/23/26 19:25	01/21/26 11:02
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	75.9		%REC	49-110	1	01/23/26 19:25	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<20.6	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,1,2,2-Tetrachloroethane	EPA 8260D	<20.0	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<28.8	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,1,2-Trichloroethane	EPA 8260D	<19.3	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,1-Dichloroethane	EPA 8260D	<16.6	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,1-Dichloroethylene	EPA 8260D	<14.7	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,2,3-Trichlorobenzene	EPA 8260D	<54.5	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
1,2,3-Trichloropropane	EPA 8260D	<19.0	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,2,4-Trichlorobenzene	EPA 8260D	<51.5	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
1,2,4-Trimethylbenzene	EPA 8260D	<33.3	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<41.8	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<26.7	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<17.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<26.7	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
1,2-Dichloropropane	EPA 8260D	<33.5	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,3,5-Trimethylbenzene	EPA 8260D	<32.1	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<31.4	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
1,3-Dichloropropene	EPA 8260D	<25.4	U	µg/kg	90.8	1	01/21/26 03:18	01/19/26 12:25
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<36.9	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<108	U	µg/kg	303	1	01/21/26 03:18	01/19/26 12:25
2-Hexanone	EPA 8260D	<22.5	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<42.3	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Acetone	EPA 8260D	<135	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
Benzene	EPA 8260D	<22.0	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Bromochloromethane	EPA 8260D	<23.1	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Bromodichloromethane	EPA 8260D	<25.4	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Bromoform	EPA 8260D	<19.1	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Carbon disulfide	EPA 8260D	<23.5	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Carbon tetrachloride	EPA 8260D	<17.8	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Chlorobenzene	EPA 8260D	<15.1	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Chlorodibromomethane	EPA 8260D	<25.5	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Chloroethane (Ethyl chloride)	EPA 8260D	<127	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
Chloroform	EPA 8260D	<16.6	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
cis-1,2-Dichloroethylene	EPA 8260D	<29.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
cis-1,3-Dichloropropene	EPA 8260D	<34.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Cyclohexane	EPA 8260D	<34.8	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<55.0	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
Ethylbenzene	EPA 8260D	<32.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Isopropylbenzene	EPA 8260D	<28.7	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
m+p-Xylene	EPA 8260D	<60.6	U	µg/kg	90.8	1	01/21/26 03:18	01/19/26 12:25
Methyl acetate	EPA 8260D	<54.4	U	µg/kg	378	1	01/21/26 03:18	01/19/26 12:25
Methyl bromide (Bromomethane)	EPA 8260D	<86.9	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:30
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB01 (1-2')_20260116

Lab ID: HN2600835-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<124	U	µg/kg	151	1	01/21/26 03:18	01/19/26 12:25
Methyl tert-butyl ether (MTBE)	EPA 8260D	<33.1	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Methylcyclohexane	EPA 8260D	<17.3	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Methylene chloride (Dichloromethane)	EPA 8260D	<121	U	µg/kg	378	1	01/21/26 03:18	01/19/26 12:25
o-Xylene	EPA 8260D	<17.6	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Styrene	EPA 8260D	<18.0	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<27.4	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Toluene	EPA 8260D	287		µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Total Xylene	EPA 8260D	<17.6	U	µg/kg	136	1	01/21/26 03:18	01/19/26 12:25
trans-1,2-Dichloroethylene	EPA 8260D	<37.5	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
trans-1,3-Dichloropropylene	EPA 8260D	<25.4	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Trichloroethene (Trichloroethylene)	EPA 8260D	<20.4	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<23.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
Vinyl chloride (Chloroethene)	EPA 8260D	<30.2	U	µg/kg	45.4	1	01/21/26 03:18	01/19/26 12:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	101		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:18</i>	<i>01/19/26 12:25</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:18</i>	<i>01/19/26 12:25</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	98.5		%REC	<i>72-120</i>	<i>1</i>	<i>01/21/26 03:18</i>	<i>01/19/26 12:25</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.7		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:18</i>	<i>01/19/26 12:25</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<0.998	U	µg/kg	5.43	1	01/22/26 21:54	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<1.78	U	µg/kg	5.43	1	01/22/26 21:54	01/20/26 15:08
2,4-D	EPA 8151A	<2.90	U	µg/kg	10.9	1	01/22/26 21:54	01/20/26 15:08
Surr: DCAA	EPA 8151A	70.0		%REC	10-116	1	01/22/26 21:54	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	7.9		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	14.1		mg/kg	11.1	1	01/20/26 21:47	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	4.18		mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Barium	EPA 6020B	13.3		mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Cadmium	EPA 6020B	<0.164	U	mg/kg	1.10	10	01/22/26 17:03	01/22/26 09:47
Chromium	EPA 6020B	5.44		mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Copper	EPA 6020B	8.25		mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Lead	EPA 6020B	4.77		mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Selenium	EPA 6020B	<2.52	U	mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Silver	EPA 6020B	<0.362	U	mg/kg	2.74	10	01/22/26 17:03	01/22/26 09:47
Zinc	EPA 6020B	26.5		mg/kg	5.48	10	01/22/26 17:03	01/22/26 09:47
Mercury	EPA 7471B	0.0309		mg/kg	0.0200	1	01/26/26 14:13	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<17.2	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
4,4'-DDE	EPA 8081B	<17.7	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
4,4'-DDT	EPA 8081B	<17.9	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Aldrin	EPA 8081B	<17.5	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
alpha-BHC	EPA 8081B	<17.7	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
beta-BHC	EPA 8081B	<17.7	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Chlordane, Technical	EPA 8081B	<26.7	U	µg/kg	67.3	1	01/20/26 08:28	01/19/26 08:04
cis-Chlordane	EPA 8081B	<18.0	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
delta-BHC	EPA 8081B	<17.6	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Dieldrin	EPA 8081B	<18.8	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.1	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Endosulfan II	EPA 8081B	<17.8	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Endosulfan sulfate	EPA 8081B	<16.6	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Endrin	EPA 8081B	<21.8	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Endrin aldehyde	EPA 8081B	<17.1	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Endrin ketone	EPA 8081B	<16.4	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
gamma-BHC (Lindane)	EPA 8081B	<17.7	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Heptachlor	EPA 8081B	<17.4	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Heptachlor epoxide	EPA 8081B	<17.8	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Methoxychlor	EPA 8081B	<18.0	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
Toxaphene	EPA 8081B	<29.1	U	µg/kg	162	1	01/20/26 08:28	01/19/26 08:04
trans-Chlordane	EPA 8081B	<17.9	U	µg/kg	26.9	1	01/20/26 08:28	01/19/26 08:04
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	123		%REC	53-151	1	01/20/26 08:28	01/19/26 08:04
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	92.8		%REC	67-127	1	01/20/26 08:28	01/19/26 08:04

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<61.5	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1221	EPA 8082A	<61.5	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1232	EPA 8082A	<61.5	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1242	EPA 8082A	<61.5	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1248	EPA 8082A	<61.5	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1254	EPA 8082A	<50.1	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1260	EPA 8082A	<50.1	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1262	EPA 8082A	<50.1	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Aroclor 1268	EPA 8082A	<50.1	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
Total PCB	EPA 8082A	<50.1	U	µg/kg	179	1	01/20/26 10:21	01/19/26 07:47
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	123		%REC	54-146	1	01/20/26 10:21	01/19/26 07:47
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	104		%REC	58-140	1	01/20/26 10:21	01/19/26 07:47

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.83	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<8.29	U	µg/kg	359	1	01/23/26 19:05	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<25.8	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	<5.17	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<8.42	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<26.3	U	µg/kg	71.9	1	01/23/26 19:05	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<21.3	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<9.56	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<19.3	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<18.5	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<263	U	µg/kg	359	1	01/23/26 19:05	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<23.3	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<9.17	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<5.02	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<23.5	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<30.0	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	<3.65	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<9.71	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<20.0	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<10.2	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	<19.6	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<16.8	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<20.9	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<19.7	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<10.2	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<18.3	U	µg/kg	71.9	1	01/23/26 19:05	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<9.93	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<55.7	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<84.2	U	µg/kg	359	1	01/23/26 19:05	01/21/26 11:02
Acenaphthene	EPA 8270E	<5.20	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	7.91		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Acetophenone	EPA 8270E	<5.63	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Anthracene	EPA 8270E	<5.07	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Atrazine	EPA 8270E	<21.1	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Benzaldehyde	EPA 8270E	<55.2	U	µg/kg	71.9	1	01/23/26 19:05	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	34.5		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	30.9		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	43.1		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	20.8		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	15.8		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<22.8	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<10.2	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<45.0	U	µg/kg	71.9	1	01/23/26 19:05	01/21/26 11:02
Caprolactam	EPA 8270E	<32.4	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Carbazole	EPA 8270E	<10.6	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Chrysene	EPA 8270E	26.6		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<29.7	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<3.88	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Dibenzofuran	EPA 8270E	<5.28	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<12.2	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<7.01	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Fluoranthene	EPA 8270E	47.4		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Fluorene	EPA 8270E	<5.22	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<10.5	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<8.46	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<34.1	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Hexachloroethane	EPA 8270E	<14.9	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	23.7		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Isophorone	EPA 8270E	<7.02	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
Methylphenol, Total	EPA 8270E	<9.71	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.59	U	µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Nitrobenzene	EPA 8270E	<12.1	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<5.93	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<20.8	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<28.5	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Phenanthrene	EPA 8270E	10.1		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Phenol	EPA 8270E	<18.0	U	µg/kg	35.6	1	01/23/26 19:05	01/21/26 11:02
Pyrene	EPA 8270E	38.1		µg/kg	7.19	1	01/23/26 19:05	01/21/26 11:02
Pyridine	EPA 8270E	<70.7	U	µg/kg	180	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	80.4		%REC	48-94	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	75.0		%REC	50-103	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	73.5		%REC	43-105	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	86.0		%REC	55-111	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	73.9		%REC	47-100	1	01/23/26 19:05	01/21/26 11:02
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	78.7		%REC	49-110	1	01/23/26 19:05	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<15.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,1,2,2-Tetrachloroethane	EPA 8260D	<15.5	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<22.2	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,1,2-Trichloroethane	EPA 8260D	<14.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,1-Dichloroethane	EPA 8260D	<12.8	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,1-Dichloroethylene	EPA 8260D	<11.4	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,2,3-Trichlorobenzene	EPA 8260D	<42.1	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
1,2,3-Trichloropropane	EPA 8260D	<14.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,2,4-Trichlorobenzene	EPA 8260D	<39.7	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
1,2,4-Trimethylbenzene	EPA 8260D	<25.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<32.3	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<20.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<13.3	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<20.6	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
1,2-Dichloropropane	EPA 8260D	<25.8	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,3,5-Trimethylbenzene	EPA 8260D	<24.8	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<24.2	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
1,3-Dichloropropene	EPA 8260D	<19.6	U	µg/kg	70.1	1	01/21/26 03:37	01/19/26 12:25
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<28.5	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<83.4	U	µg/kg	234	1	01/21/26 03:37	01/19/26 12:25
2-Hexanone	EPA 8260D	<17.4	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<32.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Acetone	EPA 8260D	<104	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
Benzene	EPA 8260D	<17.0	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Bromochloromethane	EPA 8260D	<17.8	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Bromodichloromethane	EPA 8260D	<19.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Bromoform	EPA 8260D	<14.8	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Carbon disulfide	EPA 8260D	<18.1	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Carbon tetrachloride	EPA 8260D	<13.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Chlorobenzene	EPA 8260D	<11.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Chlorodibromomethane	EPA 8260D	<19.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Chloroethane (Ethyl chloride)	EPA 8260D	<98.2	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
Chloroform	EPA 8260D	<12.8	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
cis-1,2-Dichloroethylene	EPA 8260D	<22.5	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
cis-1,3-Dichloropropene	EPA 8260D	<26.4	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Cyclohexane	EPA 8260D	<26.8	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<42.4	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
Ethylbenzene	EPA 8260D	<24.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Isopropylbenzene	EPA 8260D	<22.1	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
m+p-Xylene	EPA 8260D	<46.7	U	µg/kg	70.1	1	01/21/26 03:37	01/19/26 12:25
Methyl acetate	EPA 8260D	<42.0	U	µg/kg	292	1	01/21/26 03:37	01/19/26 12:25
Methyl bromide (Bromomethane)	EPA 8260D	<67.1	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:35
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB02 (3-4')_20260116

Lab ID: HN2600835-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<95.8	U	µg/kg	117	1	01/21/26 03:37	01/19/26 12:25
Methyl tert-butyl ether (MTBE)	EPA 8260D	<25.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Methylcyclohexane	EPA 8260D	<13.4	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Methylene chloride (Dichloromethane)	EPA 8260D	<93.0	U	µg/kg	292	1	01/21/26 03:37	01/19/26 12:25
o-Xylene	EPA 8260D	<13.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Styrene	EPA 8260D	<13.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<21.1	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Toluene	EPA 8260D	<28.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Total Xylene	EPA 8260D	<13.6	U	µg/kg	105	1	01/21/26 03:37	01/19/26 12:25
trans-1,2-Dichloroethylene	EPA 8260D	<28.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
trans-1,3-Dichloropropylene	EPA 8260D	<19.6	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Trichloroethene (Trichloroethylene)	EPA 8260D	<15.7	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<17.9	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
Vinyl chloride (Chloroethene)	EPA 8260D	<23.3	U	µg/kg	35.1	1	01/21/26 03:37	01/19/26 12:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:37</i>	<i>01/19/26 12:25</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:37</i>	<i>01/19/26 12:25</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	99.6		%REC	<i>72-120</i>	<i>1</i>	<i>01/21/26 03:37</i>	<i>01/19/26 12:25</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.8		%REC	<i>80-120</i>	<i>1</i>	<i>01/21/26 03:37</i>	<i>01/19/26 12:25</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.83	U	µg/kg	15.4	1	01/22/26 22:10	01/20/26 15:08
2,4,5-TP (Silvex)	EPA 8151A	<5.04	U	µg/kg	15.4	1	01/22/26 22:10	01/20/26 15:08
2,4-D	EPA 8151A	<8.21	U	µg/kg	30.7	1	01/22/26 22:10	01/20/26 15:08
Surr: DCAA	EPA 8151A	62.0		%REC	10-116	1	01/22/26 22:10	01/20/26 15:08
General Chemistry Parameters								
Percent Moisture	EPA 3550C	19.6		%	0.1	1	01/20/26 13:16	NA
Chloride	EPA 9056A	<4.14	U	mg/kg	13.4	1	01/20/26 21:55	01/19/26 15:22
Metals								
Arsenic	EPA 6020B	15.3		mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Barium	EPA 6020B	96.3		mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Cadmium	EPA 6020B	<0.221	U	mg/kg	1.47	10	01/22/26 17:08	01/22/26 09:47
Chromium	EPA 6020B	21.0		mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Copper	EPA 6020B	24.2		mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Lead	EPA 6020B	13.5		mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Selenium	EPA 6020B	<3.39	U	mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Silver	EPA 6020B	<0.486	U	mg/kg	3.68	10	01/22/26 17:08	01/22/26 09:47
Zinc	EPA 6020B	56.2		mg/kg	7.36	10	01/22/26 17:08	01/22/26 09:47
Mercury	EPA 7471B	0.0458		mg/kg	0.0210	1	01/26/26 14:15	01/23/26 13:25
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<19.8	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
4,4'-DDE	EPA 8081B	<20.4	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
4,4'-DDT	EPA 8081B	<20.6	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Aldrin	EPA 8081B	<20.1	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
alpha-BHC	EPA 8081B	<20.4	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
beta-BHC	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Chlordane, Technical	EPA 8081B	<30.7	U	µg/kg	77.3	1	01/21/26 02:16	01/19/26 10:31
cis-Chlordane	EPA 8081B	<20.7	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
delta-BHC	EPA 8081B	<20.2	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Dieldrin	EPA 8081B	<21.6	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<20.8	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Endosulfan II	EPA 8081B	<20.5	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Endosulfan sulfate	EPA 8081B	<19.0	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Endrin	EPA 8081B	<25.0	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Endrin aldehyde	EPA 8081B	<19.6	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Endrin ketone	EPA 8081B	<18.8	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
gamma-BHC (Lindane)	EPA 8081B	<20.3	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Heptachlor	EPA 8081B	<20.0	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Heptachlor epoxide	EPA 8081B	<20.5	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Methoxychlor	EPA 8081B	<20.7	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
Toxaphene	EPA 8081B	<33.4	U	µg/kg	186	1	01/21/26 02:16	01/19/26 10:31
trans-Chlordane	EPA 8081B	<20.5	U	µg/kg	30.9	1	01/21/26 02:16	01/19/26 10:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	99.0		%REC	53-151	1	01/21/26 02:16	01/19/26 10:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	90.8		%REC	67-127	1	01/21/26 02:16	01/19/26 10:31

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<69.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1221	EPA 8082A	<69.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1232	EPA 8082A	<69.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1242	EPA 8082A	<69.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1248	EPA 8082A	<69.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1254	EPA 8082A	<56.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1260	EPA 8082A	<56.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1262	EPA 8082A	<56.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Aroclor 1268	EPA 8082A	<56.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
Total PCB	EPA 8082A	<56.7	U	µg/kg	203	1	01/24/26 02:24	01/22/26 08:37
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	90.6		%REC	54-146	1	01/24/26 02:24	01/22/26 08:37
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	97.2		%REC	58-140	1	01/24/26 02:24	01/22/26 08:37

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<15.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<22.3	U	µg/kg	964	1	01/23/26 19:46	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<69.2	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
1-Methylnaphthalene	EPA 8270E	<13.9	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<22.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,3,4,6-Tetrachlorophenol	EPA 8270E	<70.7	U	µg/kg	193	1	01/23/26 19:46	01/21/26 11:02
2,4,5-Trichlorophenol	EPA 8270E	<57.2	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,4,6-Trichlorophenol	EPA 8270E	<25.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,4-Dichlorophenol	EPA 8270E	<51.9	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,4-Dimethylphenol	EPA 8270E	<49.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,4-Dinitrophenol	EPA 8270E	<706	U	µg/kg	964	1	01/23/26 19:46	01/21/26 11:02
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<62.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<24.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2-Chloronaphthalene	EPA 8270E	<13.5	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
2-Chlorophenol	EPA 8270E	<63.2	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<80.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2-Methylnaphthalene	EPA 8270E	<9.82	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
2-Methylphenol (o-Cresol)	EPA 8270E	<26.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2-Nitroaniline	EPA 8270E	<53.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
2-Nitrophenol	EPA 8270E	<27.5	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
3&4-Methylphenol	EPA 8270E	<52.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
3,3'-Dichlorobenzidine	EPA 8270E	<45.1	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
3-Nitroaniline	EPA 8270E	<56.0	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<52.9	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
4-Chloro-3-methylphenol	EPA 8270E	<27.5	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
4-Chloroaniline	EPA 8270E	<49.1	U	µg/kg	193	1	01/23/26 19:46	01/21/26 11:02
4-Chlorophenyl phenylether	EPA 8270E	<26.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
4-Nitroaniline	EPA 8270E	<150	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
4-Nitrophenol	EPA 8270E	<226	U	µg/kg	964	1	01/23/26 19:46	01/21/26 11:02
Acenaphthene	EPA 8270E	<14.0	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<16.7	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Acetophenone	EPA 8270E	<15.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Anthracene	EPA 8270E	<13.6	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Atrazine	EPA 8270E	<56.6	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Benzaldehyde	EPA 8270E	<148	U	µg/kg	193	1	01/23/26 19:46	01/21/26 11:02
Benzo(a)anthracene	EPA 8270E	<16.7	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Benzo(a)pyrene	EPA 8270E	<11.8	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Benzo(b)fluoranthene	EPA 8270E	<14.4	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Benzo(g,h,i)perylene	EPA 8270E	<14.8	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Benzo(k)fluoranthene	EPA 8270E	<14.6	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
bis(2-Chloroethoxy) methane	EPA 8270E	<61.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
bis(2-Chloroethyl) ether	EPA 8270E	<27.3	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Butyl benzyl phthalate	EPA 8270E	<121	U	µg/kg	193	1	01/23/26 19:46	01/21/26 11:02
Caprolactam	EPA 8270E	<87.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Carbazole	EPA 8270E	<28.4	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Chrysene	EPA 8270E	<15.6	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<79.8	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Dibenz(a,h) anthracene	EPA 8270E	<10.4	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Dibenzofuran	EPA 8270E	<14.2	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Diethyl phthalate	EPA 8270E	<32.8	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Dimethyl phthalate	EPA 8270E	<18.8	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Fluoranthene	EPA 8270E	<9.27	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Fluorene	EPA 8270E	<14.0	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Hexachlorobenzene	EPA 8270E	<28.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Hexachlorobutadiene	EPA 8270E	<22.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Hexachlorocyclopentadiene	EPA 8270E	<91.5	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Hexachloroethane	EPA 8270E	<40.0	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Indeno(1,2,3-cd) pyrene	EPA 8270E	<13.4	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Isophorone	EPA 8270E	<18.9	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
Methylphenol, Total	EPA 8270E	<26.1	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<12.3	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Nitrobenzene	EPA 8270E	<32.4	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
n-Nitrosodi-n-propylamine	EPA 8270E	<15.9	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
N-Nitrosodiphenylamine	EPA 8270E	<55.9	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Pentachlorophenol	EPA 8270E	<76.7	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Phenanthrene	EPA 8270E	<8.98	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Phenol	EPA 8270E	<48.5	U	µg/kg	95.6	1	01/23/26 19:46	01/21/26 11:02
Pyrene	EPA 8270E	<9.63	U	µg/kg	19.3	1	01/23/26 19:46	01/21/26 11:02
Pyridine	EPA 8270E	<190	U	µg/kg	483	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	85.6		%REC	48-94	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	74.9		%REC	50-103	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	76.2		%REC	43-105	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	87.8		%REC	55-111	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	73.8		%REC	47-100	1	01/23/26 19:46	01/21/26 11:02
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	80.6		%REC	49-110	1	01/23/26 19:46	01/21/26 11:02

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<19.7	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,1,2,2-Tetrachloroethane	EPA 8260D	<19.2	SU	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<27.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,1,2-Trichloroethane	EPA 8260D	<18.4	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,1-Dichloroethane	EPA 8260D	<15.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,1-Dichloroethylene	EPA 8260D	<14.1	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,2,3-Trichlorobenzene	EPA 8260D	<52.1	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
1,2,3-Trichloropropane	EPA 8260D	<18.2	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,2,4-Trichlorobenzene	EPA 8260D	<49.2	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
1,2,4-Trimethylbenzene	EPA 8260D	<31.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<40.0	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<25.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<16.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<25.5	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
1,2-Dichloropropane	EPA 8260D	<32.0	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,3,5-Trimethylbenzene	EPA 8260D	<30.7	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<30.0	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
1,3-Dichloropropene	EPA 8260D	<24.2	U	µg/kg	86.8	1	01/21/26 03:57	01/19/26 15:35
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<35.3	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<103	U	µg/kg	289	1	01/21/26 03:57	01/19/26 15:35
2-Hexanone	EPA 8260D	<21.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<40.4	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Acetone	EPA 8260D	<129	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
Benzene	EPA 8260D	<21.0	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Bromochloromethane	EPA 8260D	<22.1	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Bromodichloromethane	EPA 8260D	<24.3	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Bromoform	EPA 8260D	<18.3	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Carbon disulfide	EPA 8260D	<22.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Carbon tetrachloride	EPA 8260D	<17.0	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Chlorobenzene	EPA 8260D	<14.4	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Chlorodibromomethane	EPA 8260D	<24.4	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Chloroethane (Ethyl chloride)	EPA 8260D	<122	SU	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
Chloroform	EPA 8260D	<15.9	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
cis-1,2-Dichloroethylene	EPA 8260D	<27.9	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
cis-1,3-Dichloropropene	EPA 8260D	<32.7	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Cyclohexane	EPA 8260D	<33.2	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<52.5	SU	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
Ethylbenzene	EPA 8260D	<30.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Isopropylbenzene	EPA 8260D	<27.4	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
m+p-Xylene	EPA 8260D	<57.9	U	µg/kg	86.8	1	01/21/26 03:57	01/19/26 15:35
Methyl acetate	EPA 8260D	<52.0	U	µg/kg	362	1	01/21/26 03:57	01/19/26 15:35
Methyl bromide (Bromomethane)	EPA 8260D	<83.0	SU	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00

CLIENT ID: 5224 SB03 (5-6')_20260116

Lab ID: HN2600835-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<119	U	µg/kg	145	1	01/21/26 03:57	01/19/26 15:35
Methyl tert-butyl ether (MTBE)	EPA 8260D	<31.7	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Methylcyclohexane	EPA 8260D	<16.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Methylene chloride (Dichloromethane)	EPA 8260D	<115	SU	µg/kg	362	1	01/21/26 03:57	01/19/26 15:35
o-Xylene	EPA 8260D	<16.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Styrene	EPA 8260D	<17.2	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<26.1	SU	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Toluene	EPA 8260D	<35.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Total Xylene	EPA 8260D	<16.8	U	µg/kg	130	1	01/21/26 03:57	01/19/26 15:35
trans-1,2-Dichloroethylene	EPA 8260D	<35.8	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
trans-1,3-Dichloropropylene	EPA 8260D	<24.2	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Trichloroethene (Trichloroethylene)	EPA 8260D	<19.5	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<22.2	U	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
Vinyl chloride (Chloroethene)	EPA 8260D	<28.8	SU	µg/kg	43.4	1	01/21/26 03:57	01/19/26 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	01/21/26 03:57	01/19/26 15:35
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	01/21/26 03:57	01/19/26 15:35
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	97.8		%REC	72-120	1	01/21/26 03:57	01/19/26 15:35
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	96.8		%REC	80-120	1	01/21/26 03:57	01/19/26 15:35



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2423622

Work Order: HN2600835
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							U
2,4,5-TP (Silvex)	<2.19	µg/kg	6.67							U
2,4-D	<3.56	µg/kg	13.3							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			

MS	CLIENT ID: 5224 SB02 (3-4')_20260116	Lab ID: QC-2423622-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:36
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	23.8	µg/kg	5.39	49.643	<0.913	48.0	10-119			
2,4,5-TP (Silvex)	17.9	µg/kg	5.39	49.643	<1.63	36.0	10-101			
2,4-D	25.8	µg/kg	10.8	49.643	<2.65	52.0	10-128			
Surr: DCAA	31.8	µg/kg		49.643		64.0	10-116			

MSD	CLIENT ID: 5224 SB02 (3-4')_20260116	Lab ID: QC-2423622-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/22/26 18:51
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	24.8	µg/kg	5.39	49.665	<0.920	50.0	10-119	4.13	30	
2,4,5-TP (Silvex)	22.8	µg/kg	5.39	49.665	<1.64	46.0	10-101	24.4	30	
2,4-D	47.7	µg/kg	10.8	49.665	<2.67	96.0	10-128	59.5	30	R
Surr: DCAA	33.8	µg/kg		49.665		68.0	10-116	6.11	30	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422266

Work Order: HN2600835
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							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			

MS	CLIENT ID: Batch QC	Lab ID: QC-2422266-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 20:02
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	170	mg/kg	12.0	103.75	70.6	105	87-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422266-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/20/26 20:10
Prep Date: 01/19/26 15:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	170	mg/kg	11.9	102.83	70.6	106	87-110	0.119	15	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422982

Work Order: HN2600835
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							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: Batch QC	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		19.2			4.29	10	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422982

Work Order: HN2600835
Date Collected: 01/16/26 12:55
Date Received: 01/17/26 08:00
Run ID: 3833992

General Chemistry Parameters

DUP	CLIENT ID: Batch QC	Lab ID: QC-2422982-004
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Method: EPA 3550C**Dilution:** 1**Analysis Date:** 01/21/26 14:07**Prep Date:** NA

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

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600835
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							U
Barium	<0.230	mg/kg	0.250							U
Cadmium	<0.0150	mg/kg	0.100							U
Chromium	<0.110	mg/kg	0.250							U
Copper	<0.250	mg/kg	0.250							U
Lead	<0.120	mg/kg	0.250							U
Selenium	<0.230	mg/kg	0.250							U
Silver	<0.0330	mg/kg	0.250							U
Zinc	<0.490	mg/kg	0.500							U

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

MS	CLIENT ID: Batch QC	Lab ID: QC-2426113-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/22/26 16:37
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.70	mg/kg	3.37	5.8207	6.33	72.6	75-125			S
Barium	77.9	mg/kg	3.37	5	80.1	NC	75-125			O
Cadmium	5.40	mg/kg	1.35	5.8207	0.510	85.2	75-125			
Chromium	15.2	mg/kg	3.37	5.8207	15.2	35.5	75-125			S
Copper	17.3	mg/kg	3.37	5	30.1	NC	75-125			O
Lead	39.2	mg/kg	3.37	5	93.2	NC	75-125			O
Selenium	5.37	mg/kg	3.37	5.8207	<2.68	81.0	75-125			
Silver	5.14	mg/kg	3.37	5.8207	<0.384	86.3	75-125			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3836793

MSD	CLIENT ID: Batch QC	Lab ID: QC-2426113-005
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Method: EPA 6020B

Dilution: 10

Analysis Date: 01/22/26 16:38

Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.97	mg/kg	3.43	5.9312	6.33	75.8	75-125	2.76	20	
Barium	72.8	mg/kg	3.43	5	80.1	NC	75-125	6.85	20	O
Cadmium	5.55	mg/kg	1.37	5.9312	0.510	86.1	75-125	2.64	20	
Chromium	17.7	mg/kg	3.43	5.9312	15.2	77.9	75-125	15.5	20	
Copper	18.2	mg/kg	3.43	5	30.1	NC	75-125	5.28	20	O
Lead	43.5	mg/kg	3.43	5	93.2	NC	75-125	10.4	20	O
Selenium	5.69	mg/kg	3.43	5.9312	<2.73	85.0	75-125	5.88	20	
Silver	5.23	mg/kg	3.43	5.9312	<0.391	86.1	75-125	1.60	20	

PDS	CLIENT ID: Batch QC	Lab ID: QC-2426113-007
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Method: EPA 6020B

Dilution: 10

Analysis Date: 01/22/26 16:42

Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	60.3	mg/kg	3.36	58.005	6.33	94.5	75-125			
Barium	126	mg/kg	3.36	58.005	80.1	98.4	75-125			
Cadmium	52.6	mg/kg	1.34	58.005	0.510	89.9	75-125			
Chromium	65.0	mg/kg	3.36	58.005	15.2	89.4	75-125			
Copper	76.3	mg/kg	3.36	58.005	30.1	86.7	75-125			
Lead	135	mg/kg	3.36	58.005	93.2	93.6	75-125			
Selenium	53.4	mg/kg	3.36	58.005	<2.67	91.0	75-125			
Silver	42.5	mg/kg	3.36	58.005	<0.383	73.1	75-125			S

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2426113

Work Order: HN2600835
Date Collected: 01/16/26 09:15
Date Received: 01/17/26 08:00
Run ID: 3838280

Metals

MS	CLIENT ID: Batch QC	Lab ID: QC-2426113-004
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Method: EPA 6020B **Dilution:** 100 **Analysis Date:** 01/23/26 12:46
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Zinc	<57.0	mg/kg	67.4	5	125	NC	75-125			OU

MSD	CLIENT ID: Batch QC	Lab ID: QC-2426113-005
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Method: EPA 6020B **Dilution:** 100 **Analysis Date:** 01/23/26 12:47
Prep Date: 01/22/26 09:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Zinc	79.9	mg/kg	68.7	5	125	NC	75-125	NC		O

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2427774

Work Order: HN2600835
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							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			

MS	CLIENT ID: Batch QC	Lab ID: QC-2427774-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 13:28
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.383	mg/kg	0.0200	0.13647	0.316	85.9	75-125			E

MSD	CLIENT ID: Batch QC	Lab ID: QC-2427774-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/26/26 13:31
Prep Date: 01/23/26 13:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.307	mg/kg	0.0200	0.13179	0.316	31.4	75-125	22.0	35	ES

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833270

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2421584-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/20/26 05:01**Prep Date:** 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0							U
4,4'-DDE	<6.59	µg/kg	10.0							U
4,4'-DDT	<6.65	µg/kg	10.0							U
Aldrin	<6.50	µg/kg	10.0							U
alpha-BHC	<6.58	µg/kg	10.0							U
beta-BHC	<6.57	µg/kg	10.0							U
Chlordane, Technical	<9.92	µg/kg	25.0							U
cis-Chlordane	<6.68	µg/kg	10.0							U
delta-BHC	<6.55	µg/kg	10.0							U
Dieldrin	<6.99	µg/kg	10.0							U
Endosulfan I	<6.72	µg/kg	10.0							U
Endosulfan II	<6.62	µg/kg	10.0							U
Endosulfan sulfate	<6.15	µg/kg	10.0							U
Endrin	<8.09	µg/kg	10.0							U
Endrin aldehyde	<6.34	µg/kg	10.0							U
Endrin ketone	<6.08	µg/kg	10.0							U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0							U
Heptachlor	<6.45	µg/kg	10.0							U
Heptachlor epoxide	<6.62	µg/kg	10.0							U
Methoxychlor	<6.69	µg/kg	10.0							U
Toxaphene	<10.8	µg/kg	60.0							U
trans-Chlordane	<6.64	µg/kg	10.0							U
Surr: Decachlorobiphenyl	45.6	µg/kg		33.33		137	53-151			
Surr: Tetrachloro-m-xylene	34.4	µg/kg		33.33		103	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421584-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/20/26 05:16**Prep Date:** 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	31.0	µg/kg	10.0	33.33		92.9	55-141			
4,4'-DDE	30.6	µg/kg	10.0	33.33		92.0	55-143			
4,4'-DDT	31.1	µg/kg	10.0	33.33		93.3	50-144			
Aldrin	33.0	µg/kg	10.0	33.33		99.0	57-141			
alpha-BHC	31.9	µg/kg	10.0	33.33		95.6	58-144			
beta-BHC	32.9	µg/kg	10.0	33.33		98.7	55-147			
cis-Chlordane	31.3	µg/kg	10.0	33.33		94.0	58-142			
delta-BHC	33.0	µg/kg	10.0	33.33		99.2	59-142			
Dieldrin	31.3	µg/kg	10.0	33.33		93.8	59-142			
Endosulfan I	28.1	µg/kg	10.0	33.33		84.3	57-145			
Endosulfan II	31.4	µg/kg	10.0	33.33		94.2	58-138			
Endosulfan sulfate	30.6	µg/kg	10.0	33.33		91.8	54-136			
Endrin	31.8	µg/kg	10.0	33.33		95.5	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833270

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421584-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 05:16

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	35.7	µg/kg	10.0	33.33		107	41-147			
Endrin ketone	32.5	µg/kg	10.0	33.33		97.6	54-146			
gamma-BHC (Lindane)	32.4	µg/kg	10.0	33.33		97.2	58-145			
Heptachlor	39.0	µg/kg	10.0	33.33		117	51-145			
Heptachlor epoxide	31.9	µg/kg	10.0	33.33		95.8	59-143			
Methoxychlor	30.6	µg/kg	10.0	33.33		91.9	43-144			
trans-Chlordane	31.7	µg/kg	10.0	33.33		95.1	56-145			
Surr: Decachlorobiphenyl	37.5	µg/kg		33.33		113	51-151			
Surr: Tetrachloro-m-xylene	30.3	µg/kg		33.33		90.9	67-127			

MS	CLIENT ID: 5224 SB02 (3-4')_20260116	Lab ID: QC-2421584-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 07:59

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	73.7	µg/kg	25.6	78.485	<15.0	94.0	55-141			
4,4'-DDE	74.0	µg/kg	25.6	78.485	<15.5	94.3	55-143			
4,4'-DDT	76.0	µg/kg	25.6	78.485	<15.7	96.8	50-144			
Aldrin	74.9	µg/kg	25.6	78.485	<15.3	95.4	57-141			
alpha-BHC	73.4	µg/kg	25.6	78.485	<15.5	93.6	58-144			
beta-BHC	75.4	µg/kg	25.6	78.485	<15.5	96.0	55-147			
cis-Chlordane	75.6	µg/kg	25.6	78.485	<15.7	96.4	58-142			
delta-BHC	75.9	µg/kg	25.6	78.485	<15.4	96.7	59-142			
Dieldrin	75.4	µg/kg	25.6	78.485	<16.5	96.1	59-142			
Endosulfan I	65.8	µg/kg	25.6	78.485	<15.8	83.8	57-145			
Endosulfan II	75.0	µg/kg	25.6	78.485	<15.6	95.6	58-138			
Endosulfan sulfate	73.0	µg/kg	25.6	78.485	<14.5	93.0	54-135			
Endrin	78.6	µg/kg	25.6	78.485	<19.1	100	45-150			
Endrin aldehyde	88.9	µg/kg	25.6	78.485	<14.9	113	41-147			
Endrin ketone	77.4	µg/kg	25.6	78.485	<14.3	98.6	54-146			
gamma-BHC (Lindane)	74.3	µg/kg	25.6	78.485	<15.5	94.7	58-145			
Heptachlor	90.2	µg/kg	25.6	78.485	<15.2	115	51-145			
Heptachlor epoxide	75.7	µg/kg	25.6	78.485	<15.6	96.5	59-143			
Methoxychlor	76.6	µg/kg	25.6	78.485	<15.7	97.6	43-144			
trans-Chlordane	75.3	µg/kg	25.6	78.485	<15.6	96.0	56-145			
Surr: Decachlorobiphenyl	88.3	µg/kg		78.485		113	53-151			
Surr: Tetrachloro-m-xylene	70.6	µg/kg		78.485		90.0	67-127			

MSD	CLIENT ID: 5224 SB02 (3-4')_20260116	Lab ID: QC-2421584-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 08:14

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	69.9	µg/kg	25.3	77.512	<14.9	90.2	55-141	5.38	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421584

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833270

MSD	CLIENT ID: 5224 SB02 (3-4')_20260116	Lab ID: QC-2421584-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/20/26 08:14

Prep Date: 01/19/26 08:05

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	70.5	µg/kg	25.3	77.512	<15.3	91.0	55-143	4.81	20	
4,4'-DDT	72.8	µg/kg	25.3	77.512	<15.5	93.9	50-144	4.34	20	
Aldrin	72.3	µg/kg	25.3	77.512	<15.1	93.3	57-141	3.53	20	
alpha-BHC	69.1	µg/kg	25.3	77.512	<15.3	89.2	58-144	6.06	20	
beta-BHC	71.9	µg/kg	25.3	77.512	<15.3	92.7	55-147	4.75	20	
cis-Chlordane	71.8	µg/kg	25.3	77.512	<15.5	92.6	58-142	5.22	20	
delta-BHC	72.3	µg/kg	25.3	77.512	<15.2	93.3	59-142	4.83	20	
Dieldrin	71.2	µg/kg	25.3	77.512	<16.3	91.9	59-142	5.72	20	
Endosulfan I	63.3	µg/kg	25.3	77.512	<15.6	81.6	57-145	3.91	20	
Endosulfan II	70.9	µg/kg	25.3	77.512	<15.4	91.5	58-138	5.63	20	
Endosulfan sulfate	70.4	µg/kg	25.3	77.512	<14.3	90.8	54-135	3.64	20	
Endrin	74.4	µg/kg	25.3	77.512	<18.8	96.0	45-150	5.48	20	
Endrin aldehyde	82.9	µg/kg	25.3	77.512	<14.7	107	41-147	6.97	20	
Endrin ketone	74.1	µg/kg	25.3	77.512	<14.1	95.6	54-146	4.34	20	
gamma-BHC (Lindane)	70.5	µg/kg	25.3	77.512	<15.3	90.9	58-145	5.29	20	
Heptachlor	86.8	µg/kg	25.3	77.512	<15.0	112	51-145	3.85	20	
Heptachlor epoxide	71.6	µg/kg	25.3	77.512	<15.4	92.4	59-143	5.64	20	
Methoxychlor	75.1	µg/kg	25.3	77.512	<15.5	96.9	43-144	1.97	20	
trans-Chlordane	72.3	µg/kg	25.3	77.512	<15.4	93.3	56-145	4.10	20	
Surr: Decachlorobiphenyl	84.7	µg/kg		77.512		109	53-151	4.18	30	
Surr: Tetrachloro-m-xylene	66.4	µg/kg		77.512		85.7	67-127	6.20	30	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600835
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							U
4,4'-DDE	<6.59	µg/kg	10.0							U
4,4'-DDT	<6.65	µg/kg	10.0							U
Aldrin	<6.50	µg/kg	10.0							U
alpha-BHC	<6.58	µg/kg	10.0							U
beta-BHC	<6.57	µg/kg	10.0							U
Chlordane, Technical	<9.92	µg/kg	25.0							U
cis-Chlordane	<6.68	µg/kg	10.0							U
delta-BHC	<6.55	µg/kg	10.0							U
Dieldrin	<6.99	µg/kg	10.0							U
Endosulfan I	<6.72	µg/kg	10.0							U
Endosulfan II	<6.62	µg/kg	10.0							U
Endosulfan sulfate	<6.15	µg/kg	10.0							U
Endrin	<8.09	µg/kg	10.0							U
Endrin aldehyde	<6.34	µg/kg	10.0							U
Endrin ketone	<6.08	µg/kg	10.0							U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0							U
Heptachlor	<6.45	µg/kg	10.0							U
Heptachlor epoxide	<6.62	µg/kg	10.0							U
Methoxychlor	<6.69	µg/kg	10.0							U
Toxaphene	<10.8	µg/kg	60.0							U
trans-Chlordane	<6.64	µg/kg	10.0							U
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: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833323

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2421588-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 01/20/26 05:46		Prep Date: 01/19/26 10:32			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	37.3	µg/kg	10.0	33.33		112	41-147		
Endrin ketone	34.1	µg/kg	10.0	33.33		102	54-146		
gamma-BHC (Lindane)	33.8	µg/kg	10.0	33.33		101	58-145		
Heptachlor	41.0	µg/kg	10.0	33.33		123	51-145		
Heptachlor epoxide	33.1	µg/kg	10.0	33.33		99.4	59-143		
Methoxychlor	32.4	µg/kg	10.0	33.33		97.1	43-144		
trans-Chlordane	32.7	µg/kg	10.0	33.33		98.2	56-145		
Surr: Decachlorobiphenyl	38.8	µg/kg		33.33		117	51-151		
Surr: Tetrachloro-m-xylene	31.9	µg/kg		33.33		95.8	67-127		
The following samples were analyzed in this batch: HN2600835-003									



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00
Run ID: 3837486

Organochlorine Pesticides by GC/ECD

MS CLIENT ID: 5224 SB03 (5-6')_20260116 Lab ID: QC-2421588-005

Method: EPA 8081B

Dilution: 1

Analysis Date: 01/21/26 15:03

Prep Date: 01/19/26 10:32

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

MSD CLIENT ID: 5224 SB03 (5-6')_20260116 Lab ID: QC-2421588-006

Method: EPA 8081B

Dilution: 1

Analysis Date: 01/21/26 15:18

Prep Date: 01/19/26 10:32

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421588

Work Order: HN2600835
Date Collected: 01/16/26 14:40
Date Received: 01/17/26 08:00
Run ID: 3837486

MSD		CLIENT ID: 5224 SB03 (5-6')_20260116				Lab ID: QC-2421588-006			
Method: EPA 8081B		Dilution: 1		Analysis Date: 01/21/26 15:18		Prep Date: 01/19/26 10:32			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
gamma-BHC (Lindane)	76.3	µg/kg	29.3	78.485	<15.5	97.3	58-145	7.09	20
Heptachlor	76.1	µg/kg	29.3	78.485	<15.2	97.0	51-145	12.0	20
Heptachlor epoxide	75.2	µg/kg	29.3	78.485	<15.6	95.8	59-143	6.00	20
Methoxychlor	51.3	µg/kg	29.3	78.485	<15.7	65.4	43-144	2.47	20
trans-Chlordane	74.4	µg/kg	29.3	78.485	<15.6	94.8	56-145	6.17	20
Surr: Decachlorobiphenyl	75.0	µg/kg		78.485		95.5	53-151	5.45	30
Surr: Tetrachloro-m-xylene	71.4	µg/kg		78.485		91.0	67-127	4.09	30

The following samples were analyzed in this batch: HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421581

Work Order: HN2600835
Date Collected: 01/16/26 13:43
Date Received: 01/17/26 08:00
Run ID: 3831072

Polychlorinated Biphenyls (PCBs) by GC/ECD

MS	CLIENT ID: Batch QC	Lab ID: QC-2421581-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 05:27
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1890	µg/kg	187	1977.1	<54.3	95.5	71-135			
Aroclor 1260	1810	µg/kg	187	1977.1	<44.2	91.7	67-135			
Surr: Decachlorobiphenyl	90.8	µg/kg		79.035		115	54-146			
Surr: Tetrachloro-m-xylene	76.1	µg/kg		79.035		96.2	58-140			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2421581-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/20/26 05:38
Prep Date: 01/19/26 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1980	µg/kg	185	1958.5	<53.7	101	71-135	4.86	20	
Aroclor 1260	1820	µg/kg	185	1958.5	<43.8	92.7	67-135	0.120	20	
Surr: Decachlorobiphenyl	90.7	µg/kg		78.292		116	54-146	0.120	30	
Surr: Tetrachloro-m-xylene	79.6	µg/kg		78.292		102	58-140	4.52	30	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421581

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833598

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2421581-001
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Method: EPA 8082A	Dilution: 1	Analysis Date: 01/20/26 17:38
Prep Date: 01/19/26 07:48		

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	<22.9	µg/kg	66.7							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	54.1	µg/kg		33.3		163	54-146			S
Surr: Tetrachloro-m-xylene	37.8	µg/kg		33.3		114	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2421581-002
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Method: EPA 8082A	Dilution: 1	Analysis Date: 01/20/26 17:50
Prep Date: 01/19/26 07:48		

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	814	µg/kg	66.7	833		97.7	71-135			
Aroclor 1260	857	µg/kg	66.7	833		103	67-135			
Surr: Decachlorobiphenyl	49.9	µg/kg		33.3		150	54-146			S
Surr: Tetrachloro-m-xylene	33.3	µg/kg		33.3		99.9	58-140			

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2421582

Work Order: HN2600835
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							U
Aroclor 1221	<22.9	µg/kg	66.7							U
Aroclor 1232	<22.9	µg/kg	66.7							U
Aroclor 1242	<22.9	µg/kg	66.7							U
Aroclor 1248	<22.9	µg/kg	66.7							U
Aroclor 1254	<18.6	µg/kg	66.7							U
Aroclor 1260	<18.6	µg/kg	66.7							U
Aroclor 1262	<18.6	µg/kg	66.7							U
Aroclor 1268	<18.6	µg/kg	66.7							U
Total PCB	<18.6	µg/kg	66.7							U
Surr: Decachlorobiphenyl	50.3	µg/kg		33.3		151	54-146			S
Surr: Tetrachloro-m-xylene	37.8	µg/kg		33.3		113	58-140			

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



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2426088

Work Order: HN2600835
Date Collected: 01/12/26 08:00
Date Received: 01/16/26 14:45
Run ID: 3842864

Polychlorinated Biphenyls (PCBs) by GC/ECD

MS	CLIENT ID: Batch QC	Lab ID: QC-2426088-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/22/26 21:20
Prep Date: 01/22/26 08:38

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

MSD	CLIENT ID: Batch QC	Lab ID: QC-2426088-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/22/26 21:32
Prep Date: 01/22/26 08:38

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

The following samples were analyzed in this batch: HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2426088

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3842877

Polychlorinated Biphenyls (PCBs) by GC/ECD

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

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

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

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

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

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

The following samples were analyzed in this batch: HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
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							U
1,2,4,5-Tetrachlorobenzene	<7.69	µg/kg	333							U
1,4-Dioxane (1,4- Diethyleneoxide)	<23.9	µg/kg	167							U
1-Methylnaphthalene	<4.80	µg/kg	6.67							U
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<7.81	µg/kg	33.0							U
2,3,4,6-Tetrachlorophenol	<24.4	µg/kg	67.0							U
2,4,5-Trichlorophenol	<19.8	µg/kg	33.0							U
2,4,6-Trichlorophenol	<8.87	µg/kg	33.0							U
2,4-Dichlorophenol	<17.9	µg/kg	33.0							U
2,4-Dimethylphenol	<17.1	µg/kg	33.0							U
2,4-Dinitrophenol	<244	µg/kg	333							U
2,4-Dinitrotoluene (2,4-DNT)	<21.6	µg/kg	33.0							U
2,6-Dinitrotoluene (2,6-DNT)	<8.51	µg/kg	33.0							U
2-Chloronaphthalene	<4.66	µg/kg	6.67							U
2-Chlorophenol	<21.8	µg/kg	33.0							U
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<27.8	µg/kg	33.0							U
2-Methylnaphthalene	<3.39	µg/kg	6.67							U
2-Methylphenol (o-Cresol)	<9.01	µg/kg	33.0							U
2-Nitroaniline	<18.5	µg/kg	33.0							U
2-Nitrophenol	<9.50	µg/kg	33.0							U
3&4-Methylphenol	<18.2	µg/kg	33.0							U
3,3'-Dichlorobenzidine	<15.6	µg/kg	167							U
3-Nitroaniline	<19.4	µg/kg	33.0							U
4-Bromophenyl phenyl ether (BDE-3)	<18.3	µg/kg	33.0							U
4-Chloro-3-methylphenol	<9.50	µg/kg	33.0							U
4-Chloroaniline	<16.9	µg/kg	67.0							U
4-Chlorophenyl phenylether	<9.21	µg/kg	33.0							U
4-Nitroaniline	<51.7	µg/kg	167							U
4-Nitrophenol	<78.1	µg/kg	333							U
Acenaphthene	<4.82	µg/kg	6.67							U
Acenaphthylene	<5.78	µg/kg	6.67							U
Acetophenone	<5.22	µg/kg	33.0							U
Anthracene	<4.70	µg/kg	6.67							U
Atrazine	<19.5	µg/kg	33.0							U
Benzaldehyde	<51.2	µg/kg	67.0							U
Benzo(a)anthracene	<5.76	µg/kg	6.67							U
Benzo(a)pyrene	<4.09	µg/kg	6.67							U
Benzo(b)fluoranthene	<4.97	µg/kg	6.67							U
Benzo(g,h,i)perylene	<5.11	µg/kg	6.67							U
Benzo(k)fluoranthene	<5.05	µg/kg	6.67							U
bis(2-Chloroethoxy)methane	<21.1	µg/kg	33.0							U
bis(2-Chloroethyl) ether	<9.44	µg/kg	33.0							U



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
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							U
Caprolactam	<30.1	µg/kg	33.0							U
Carbazole	<9.82	µg/kg	33.0							U
Chrysene	<5.39	µg/kg	6.67							U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0							U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0							U
Dibenzofuran	<4.90	µg/kg	33.0							U
Diethyl phthalate	<11.3	µg/kg	33.0							U
Dimethyl phthalate	<6.50	µg/kg	33.0							U
Fluoranthene	<3.20	µg/kg	6.67							U
Fluorene	<4.84	µg/kg	6.67							U
Hexachlorobenzene	<9.70	µg/kg	33.0							U
Hexachlorobutadiene	<7.85	µg/kg	33.0							U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0							U
Hexachloroethane	<13.8	µg/kg	33.0							U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67							U
Isophorone	<6.51	µg/kg	167							U
Methylphenol, Total	<9.01	µg/kg	67.0							U
Naphthalene	<4.26	µg/kg	6.67							U
Nitrobenzene	<11.2	µg/kg	167							U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0							U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0							U
Pentachlorophenol	<26.5	µg/kg	33.0							U
Phenanthrene	<3.10	µg/kg	6.67							U
Phenol	<16.7	µg/kg	33.0							U
Pyrene	<3.33	µg/kg	6.67							U
Pyridine	<65.6	µg/kg	167							U
Surr: 2,4,6-Tribromophenol	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	33.0	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			



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
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: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
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
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			

MS	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:23

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)	1120	µg/kg	40.3	1306	<5.30	85.6	57-101			
1,2,4,5-Tetrachlorobenzene	1180	µg/kg	407	1306	<7.53	90.4	54-98			
1-Methylnaphthalene	1130	µg/kg	8.14	1306	<4.70	85.9	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1030	µg/kg	40.3	1306	<7.65	78.7	50-101			
2,3,4,6-Tetrachlorophenol	1150	µg/kg	81.4	1306	<23.9	87.7	48-103			
2,4,5-Trichlorophenol	1080	µg/kg	40.3	1306	<19.4	82.8	54-98			
2,4,6-Trichlorophenol	971	µg/kg	40.3	1306	<8.69	74.4	56-97			
2,4-Dichlorophenol	1060	µg/kg	40.3	1306	<17.6	81.3	54-99			
2,4-Dimethylphenol	747	µg/kg	40.3	1306	<16.8	57.2	47-102			
2,4-Dinitrophenol	<239	µg/kg	407	1306	<239	18.1	10-100			U
2,4-Dinitrotoluene (2,4-DNT)	1040	µg/kg	40.3	1306	<21.2	79.4	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1100	µg/kg	40.3	1306	<8.34	84.1	62-103			
2-Chloronaphthalene	1070	µg/kg	8.14	1306	<4.57	81.6	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3839619

MS	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:23

Prep Date: 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	1040	µg/kg	40.3	1306	<21.4	79.3	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	856	µg/kg	40.3	1306	<27.3	65.5	42-104			
2-Methylnaphthalene	1080	µg/kg	8.14	1306	<3.32	82.1	55-102			
2-Methylphenol (o-Cresol)	978	µg/kg	40.3	1306	<8.83	74.9	54-103			
2-Nitroaniline	1010	µg/kg	40.3	1306	<18.1	77.1	57-103			
2-Nitrophenol	1200	µg/kg	40.3	1306	<9.31	92.1	52-102			
3&4-Methylphenol	969	µg/kg	40.3	1306	767	27.1	56-103			S
3,3'-Dichlorobenzidine	909	µg/kg	203	1306	<15.2	69.6	41-91			
3-Nitroaniline	389	µg/kg	40.3	1306	<19.0	29.8	35-107			S
4-Bromophenyl phenyl ether (BDE-3)	1200	µg/kg	40.3	1306	<17.9	91.6	63-104			
4-Chloro-3-methylphenol	1070	µg/kg	40.3	1306	<9.31	82.1	57-103			
4-Chloroaniline	952	µg/kg	81.4	1306	<16.6	72.9	32-99			
4-Chlorophenyl phenylether	1090	µg/kg	40.3	1306	<9.02	83.5	62-100			
4-Nitroaniline	577	µg/kg	203	1306	<50.7	44.2	19-124			
4-Nitrophenol	788	µg/kg	407	1306	<76.5	60.3	44-106			
Acenaphthene	1080	µg/kg	8.14	1306	<4.72	83.0	60-101			
Acenaphthylene	1080	µg/kg	8.14	1306	<5.66	82.7	59-101			
Acetophenone	1030	µg/kg	40.3	1306	<5.11	79.2	54-102			
Anthracene	1090	µg/kg	8.14	1306	21.6	82.1	63-96			
Atrazine	1080	µg/kg	40.3	1306	<19.1	83.1	60-110			
Benzo(a)anthracene	1240	µg/kg	8.14	1306	124	87.4	66-102			
Benzo(a)pyrene	1240	µg/kg	8.14	1306	126	87.1	66-105			
Benzo(b)fluoranthene	1220	µg/kg	8.14	1306	173	82.8	67-105			
Benzo(g,h,i)perylene	1270	µg/kg	8.14	1306	118	90.1	59-110			
Benzo(k)fluoranthene	1120	µg/kg	8.14	1306	62.9	82.3	68-106			
bis(2-Chloroethoxy)methane	1030	µg/kg	40.3	1306	<20.7	78.7	54-102			
bis(2-Chloroethyl) ether	937	µg/kg	40.3	1306	<9.25	71.8	51-101			
Butyl benzyl phthalate	1060	µg/kg	81.4	1306	<40.9	81.3	59-107			
Caprolactam	941	µg/kg	40.3	1306	<29.5	72.1	49-103			
Carbazole	1130	µg/kg	40.3	1306	35.4	84.7	63-103			
Chrysene	1220	µg/kg	8.14	1306	120	86.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1170	µg/kg	40.3	1306	393	65.4	63-101			
Dibenz(a,h) anthracene	1310	µg/kg	40.3	1306	35.4	98.2	61-109			
Dibenzofuran	1060	µg/kg	40.3	1306	<4.80	80.9	61-101			
Diethyl phthalate	1080	µg/kg	40.3	1306	<11.1	82.5	63-105			
Dimethyl phthalate	1060	µg/kg	40.3	1306	<6.37	81.0	64-104			
Fluoranthene	1260	µg/kg	8.14	1306	210	83.8	66-105			
Fluorene	1100	µg/kg	8.14	1306	<4.74	84.3	62-101			
Hexachlorobenzene	1260	µg/kg	40.3	1306	<9.50	96.8	61-104			
Hexachlorobutadiene	1170	µg/kg	40.3	1306	<7.69	89.3	52-99			
Hexachlorocyclopentadiene	771	µg/kg	40.3	1306	<31.9	59.1	39-106			
Hexachloroethane	1040	µg/kg	40.3	1306	<13.5	79.6	59-99			
Indeno(1,2,3-cd) pyrene	1380	µg/kg	8.14	1306	122	98.0	57-114			
Isophorone	1020	µg/kg	203	1306	<6.38	78.0	55-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3839619

MS	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:23

Prep Date: 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Methylphenol, Total	1950	µg/kg	40.3	2613	767	45.2	54-103			S
Naphthalene	1110	µg/kg	8.14	1306	<4.17	85.2	54-99			
Nitrobenzene	1030	µg/kg	203	1306	<11.0	79.0	53-100			
n-Nitrosodi-n-propylamine	1000	µg/kg	40.3	1306	<5.39	76.7	52-104			
N-Nitrosodiphenylamine	1120	µg/kg	40.3	1306	<18.9	84.1	61-104			
Pentachlorophenol	613	µg/kg	40.3	1306	<25.9	47.0	35-100			
Phenanthrene	1200	µg/kg	8.14	1306	74.7	87.6	64-101			
Phenol	885	µg/kg	40.3	1306	<16.4	67.8	51-107			
Pyrene	1080	µg/kg	8.14	1306	169	72.6	52-114			
Pyridine	737	µg/kg	203	1306	<64.3	56.5	40-84			
Surr: 2,4,6-Tribromophenol	3160	µg/kg		3265.5		96.8	48-94			S
Surr: 2-Fluorobiphenyl	2660	µg/kg		3265.5		81.5	50-103			
Surr: 2-Fluorophenol	2510	µg/kg		3265.5		76.8	43-105			
Surr: 4-Terphenyl-d14	2670	µg/kg		3265.5		81.7	55-111			
Surr: Nitrobenzene-d5	2680	µg/kg		3265.5		82.0	47-100			
Surr: Phenol-d6	2630	µg/kg		3265.5		80.7	49-110			

MSD	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:44

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)	1140	µg/kg	40.1	1300.1	<5.41	87.3	57-101	1.51	30	
1,2,4,5-Tetrachlorobenzene	1200	µg/kg	405	1300.1	<7.69	92.1	54-98	1.41	30	
1-Methylnaphthalene	1130	µg/kg	8.10	1300.1	<4.80	86.5	56-100	0.235	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1030	µg/kg	40.1	1300.1	<7.81	79.0	50-101	0.0757	30	
2,3,4,6-Tetrachlorophenol	1100	µg/kg	81.0	1300.1	<24.4	84.3	48-103	4.41	30	
2,4,5-Trichlorophenol	1080	µg/kg	40.1	1300.1	<19.8	82.8	54-98	0.396	30	
2,4,6-Trichlorophenol	977	µg/kg	40.1	1300.1	<8.87	75.1	56-97	0.548	30	
2,4-Dichlorophenol	1070	µg/kg	40.1	1300.1	<17.9	82.6	54-99	1.13	30	
2,4-Dimethylphenol	763	µg/kg	40.1	1300.1	<17.1	58.7	47-102	2.13	30	
2,4-Dinitrophenol	<244	µg/kg	405	1300.1	<244	17.4	10-100	0		U
2,4-Dinitrotoluene (2,4-DNT)	1070	µg/kg	40.1	1300.1	<21.6	82.6	62-105	3.50	30	
2,6-Dinitrotoluene (2,6-DNT)	1080	µg/kg	40.1	1300.1	<8.51	83.3	62-103	1.47	30	
2-Chloronaphthalene	1050	µg/kg	8.10	1300.1	<4.66	80.5	57-101	1.88	30	
2-Chlorophenol	1030	µg/kg	40.1	1300.1	<21.8	79.5	52-102	0.141	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	826	µg/kg	40.1	1300.1	<27.8	63.5	42-104	3.56	30	
2-Methylnaphthalene	1100	µg/kg	8.10	1300.1	<3.39	84.0	55-102	1.76	30	
2-Methylphenol (o-Cresol)	993	µg/kg	40.1	1300.1	<9.01	76.4	54-103	1.53	30	
2-Nitroaniline	1020	µg/kg	40.1	1300.1	<18.5	78.2	57-103	0.961	30	
2-Nitrophenol	1180	µg/kg	40.1	1300.1	<9.50	90.5	52-102	2.21	30	
3&4-Methylphenol	1010	µg/kg	40.1	1300.1	767	30.1	56-103	3.77	30	S
3,3'-Dichlorobenzidine	885	µg/kg	203	1300.1	<15.6	68.1	41-91	2.71	30	
3-Nitroaniline	376	µg/kg	40.1	1300.1	<19.4	28.9	35-107	3.52	30	S

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3839619

MSD	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:44

Prep Date: 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4-Bromophenyl phenyl ether (BDE-3)	1160	µg/kg	40.1	1300.1	<18.3	89.0	63-104	3.34	30	
4-Chloro-3-methylphenol	1110	µg/kg	40.1	1300.1	<9.50	85.7	57-103	3.78	30	
4-Chloroaniline	1050	µg/kg	81.0	1300.1	<16.9	81.1	32-99	10.1	30	
4-Chlorophenyl phenylether	1070	µg/kg	40.1	1300.1	<9.21	82.0	62-100	2.27	30	
4-Nitroaniline	519	µg/kg	203	1300.1	<51.7	39.9	19-124	10.6	30	
4-Nitrophenol	624	µg/kg	405	1300.1	<78.1	48.0	44-106	23.2	30	
Acenaphthene	1080	µg/kg	8.10	1300.1	<4.82	83.4	60-101	0.0249	30	
Acenaphthylene	1080	µg/kg	8.10	1300.1	<5.78	83.0	59-101	0.154	30	
Acetophenone	1040	µg/kg	40.1	1300.1	<5.22	79.8	54-102	0.299	30	
Anthracene	1130	µg/kg	8.10	1300.1	21.6	85.2	63-96	3.19	30	
Atrazine	1170	µg/kg	40.1	1300.1	<19.5	89.8	60-110	7.35	30	
Benzo(a)anthracene	1220	µg/kg	8.10	1300.1	124	85.9	66-102	1.99	30	
Benzo(a)pyrene	1220	µg/kg	8.10	1300.1	126	86.5	66-105	1.09	30	
Benzo(b)fluoranthene	1180	µg/kg	8.10	1300.1	173	80.1	67-105	3.28	30	
Benzo(g,h,i)perylene	1250	µg/kg	8.10	1300.1	118	88.7	59-110	1.90	30	
Benzo(k)fluoranthene	1170	µg/kg	8.10	1300.1	62.9	85.8	68-106	3.58	30	
bis(2-Chloroethoxy)methane	1030	µg/kg	40.1	1300.1	<21.1	79.0	54-102	0.0757	30	
bis(2-Chloroethyl) ether	931	µg/kg	40.1	1300.1	<9.44	71.6	51-101	0.665	30	
Butyl benzyl phthalate	1150	µg/kg	81.0	1300.1	<41.7	88.3	59-107	7.74	30	
Caprolactam	1000	µg/kg	40.1	1300.1	<30.1	76.9	49-103	6.06	30	
Carbazole	1110	µg/kg	40.1	1300.1	35.4	83.3	63-103	2.08	30	
Chrysene	1220	µg/kg	8.10	1300.1	120	86.3	66-105	0.189	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1230	µg/kg	40.1	1300.1	393	70.2	63-101	4.93	30	
Dibenz(a,h) anthracene	1290	µg/kg	40.1	1300.1	35.4	97.1	61-109	1.51	30	
Dibenzofuran	1070	µg/kg	40.1	1300.1	<4.90	82.3	61-101	1.26	30	
Diethyl phthalate	1120	µg/kg	40.1	1300.1	<11.3	86.4	63-105	4.10	30	
Dimethyl phthalate	1100	µg/kg	40.1	1300.1	<6.50	84.5	64-104	3.71	30	
Fluoranthene	1240	µg/kg	8.10	1300.1	210	82.0	66-105	2.23	30	
Fluorene	1110	µg/kg	8.10	1300.1	<4.84	85.6	62-101	1.13	30	
Hexachlorobenzene	1250	µg/kg	40.1	1300.1	<9.70	96.1	61-104	1.23	30	
Hexachlorobutadiene	1130	µg/kg	40.1	1300.1	<7.85	86.9	52-99	3.24	30	
Hexachlorocyclopentadiene	788	µg/kg	40.1	1300.1	<32.6	60.6	39-106	2.13	30	
Hexachloroethane	1040	µg/kg	40.1	1300.1	<13.8	79.8	59-99	0.142	30	
Indeno(1,2,3-cd) pyrene	1380	µg/kg	8.10	1300.1	122	98.6	57-114	0.0638	30	
Isophorone	1040	µg/kg	203	1300.1	<6.51	80.1	55-101	2.20	30	
Methylphenol, Total	2000	µg/kg	67.0	2601.1	767	47.4	54-103	2.65	30	S
Naphthalene	1100	µg/kg	8.10	1300.1	<4.26	84.8	54-99	0.868	30	
Nitrobenzene	1020	µg/kg	203	1300.1	<11.2	78.7	53-100	0.837	30	
n-Nitrosodi-n-propylamine	1040	µg/kg	40.1	1300.1	<5.50	79.7	52-104	3.38	30	
N-Nitrosodiphenylamine	1100	µg/kg	40.1	1300.1	<19.3	82.7	61-104	2.16	30	
Pentachlorophenol	547	µg/kg	40.1	1300.1	<26.5	42.1	35-100	11.3	30	
Phenanthrene	1140	µg/kg	8.10	1300.1	74.7	83.2	64-101	5.40	30	
Phenol	904	µg/kg	40.1	1300.1	<16.7	69.6	51-107	2.17	30	
Pyrene	1170	µg/kg	8.10	1300.1	169	79.6	52-114	7.70	30	
Pyridine	741	µg/kg	203	1300.1	<65.6	57.0	40-84	0.513	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2424522

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3839619

MSD	CLIENT ID: 5224 SB01 (1-2')_20260116	Lab ID: QC-2424522-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/23/26 18:44

Prep Date: 01/21/26 11:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 2,4,6-Tribromophenol	3140	µg/kg		3250.7		96.4	48-94	0.808	30	S
Surr: 2-Fluorobiphenyl	2590	µg/kg		3250.7		79.6	50-103	2.91	30	
Surr: 2-Fluorophenol	2430	µg/kg		3250.7		74.7	43-105	3.31	30	
Surr: 4-Terphenyl-d14	2920	µg/kg		3250.7		89.7	55-111	8.93	30	
Surr: Nitrobenzene-d5	2600	µg/kg		3250.7		79.9	47-100	3.00	30	
Surr: Phenol-d6	2610	µg/kg		3250.7		80.3	49-110	0.928	30	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2422019-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 15:20

Prep Date: 01/19/26 12:26

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

MB	CLIENT ID: Method Blank	Lab ID: QC-2422019-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 15:20

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isopropylbenzene	<19.0	µg/kg	30.0							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	1040	µg/kg		1000		104	80-120			
Surr: 4-Bromofluorobenzene	1030	µg/kg		1000		103	80-120			
Surr: Dibromofluoromethane	1020	µg/kg		1000		102	72-120			
Surr: Toluene-d8	958	µg/kg		1000		95.8	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	923	µg/kg	30.0	1000		92.3	75-121			
1,1,2,2-Tetrachloroethane	930	µg/kg	30.0	1000		93.0	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	956	µg/kg	30.0	1000		95.6	62-129			
1,1,2-Trichloroethane	936	µg/kg	30.0	1000		93.6	80-123			
1,1-Dichloroethane	873	µg/kg	30.0	1000		87.3	74-124			
1,1-Dichloroethylene	880	µg/kg	30.0	1000		88.0	68-131			
1,2,3-Trichlorobenzene	906	µg/kg	100	1000		90.6	60-135			
1,2,3-Trichloropropane	936	µg/kg	30.0	1000		93.6	77-121			
1,2,4-Trichlorobenzene	923	µg/kg	100	1000		92.3	63-130			
1,2,4-Trimethylbenzene	949	µg/kg	30.0	1000		94.9	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	825	µg/kg	100	1000		82.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	971	µg/kg	30.0	1000		97.1	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	902	µg/kg	30.0	1000		90.2	77-122			



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	948	µg/kg	100	1000		94.8	70-130			
1,2-Dichloropropane	876	µg/kg	30.0	1000		87.6	71-130			
1,3,5-Trimethylbenzene	981	µg/kg	100	1000		98.1	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	914	µg/kg	30.0	1000		91.4	78-121			
1,3-Dichloropropene	1790	µg/kg	60.0	2000		89.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	888	µg/kg	30.0	1000		88.8	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	976	µg/kg	200	1000		97.6	47-164			
2-Hexanone	984	µg/kg	30.0	1000		98.4	70-137			
4-Methyl-2-pentanone (MIBK)	1560	µg/kg	30.0	1000		156	57-200			
Acetone	942	µg/kg	100	1000		94.2	52-190			
Benzene	941	µg/kg	30.0	1000		94.1	78-122			
Bromochloromethane	903	µg/kg	30.0	1000		90.3	68-130			
Bromodichloromethane	930	µg/kg	30.0	1000		93.0	75-125			
Bromoform	904	µg/kg	30.0	1000		90.4	59-120			
Carbon disulfide	1010	µg/kg	30.0	1000		101	60-163			
Carbon tetrachloride	902	µg/kg	30.0	1000		90.2	69-123			
Chlorobenzene	934	µg/kg	30.0	1000		93.4	79-120			
Chlorodibromomethane	924	µg/kg	30.0	1000		92.4	57-123			
Chloroethane (Ethyl chloride)	646	µg/kg	100	1000		64.6	38-132			
Chloroform	896	µg/kg	30.0	1000		89.6	72-122			
cis-1,2-Dichloroethylene	896	µg/kg	30.0	1000		89.6	74-125			
cis-1,3-Dichloropropene	902	µg/kg	30.0	1000		90.2	62-124			
Dichlorodifluoromethane (Freon-12)	538	µg/kg	100	1000		53.8	28-137			
Ethylbenzene	976	µg/kg	30.0	1000		97.6	75-121			
Isopropylbenzene	974	µg/kg	30.0	1000		97.4	74-121			
m+p-Xylene	2010	µg/kg	60.0	2000		101	67-129			
Methyl acetate	868	µg/kg	250	1000		86.8	61-125			
Methyl bromide (Bromomethane)	653	µg/kg	100	1000		65.3	31-169			
Methyl chloride (Chloromethane)	576	µg/kg	100	1000		57.6	24-119			
Methyl tert-butyl ether (MTBE)	930	µg/kg	30.0	1000		93.0	79-139			
Methylene chloride (Dichloromethane)	807	µg/kg	250	1000		80.7	62-135			
o-Xylene	977	µg/kg	30.0	1000		97.7	75-120			
Styrene	944	µg/kg	30.0	1000		94.4	74-126			
Tetrachloroethylene (Perchloroethylene)	1320	µg/kg	30.0	1000		132	76-128			S
Toluene	925	µg/kg	30.0	1000		92.5	76-120			
Total Xylene	2990	µg/kg	90.0	3000		99.6	67-129			
trans-1,2-Dichloroethylene	901	µg/kg	30.0	1000		90.1	72-127			
trans-1,3-Dichloropropylene	884	µg/kg	30.0	1000		88.4	66-120			
Trichloroethene (Trichloroethylene)	938	µg/kg	30.0	1000		93.8	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	686	µg/kg	30.0	1000		68.6	51-115			
Vinyl chloride (Chloroethene)	611	µg/kg	30.0	1000		61.1	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422019-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 14:21

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	986	µg/kg		1000		98.6	80-120			
Surr: 4-Bromofluorobenzene	1010	µg/kg		1000		101	80-120			
Surr: Dibromofluoromethane	1010	µg/kg		1000		101	72-120			
Surr: Toluene-d8	992	µg/kg		1000		99.2	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2422019-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:10

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1000	µg/kg	41.2	1011.1	<13.8	99.0	75-121			
1,1,2,2-Tetrachloroethane	798	µg/kg	41.2	1011.1	<13.4	78.9	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	828	µg/kg	41.2	1011.1	<19.2	81.8	62-129			
1,1,2-Trichloroethane	954	µg/kg	41.2	1011.1	<12.9	94.4	80-123			
1,1-Dichloroethane	914	µg/kg	41.2	1011.1	<11.1	90.4	74-124			
1,1-Dichloroethylene	816	µg/kg	41.2	1011.1	<9.83	80.8	68-131			
1,2,3-Trichlorobenzene	892	µg/kg	137	1011.1	<36.4	88.2	60-135			
1,2,3-Trichloropropane	926	µg/kg	41.2	1011.1	<12.7	91.6	77-121			
1,2,4-Trichlorobenzene	905	µg/kg	137	1011.1	<34.4	89.5	63-130			
1,2,4-Trimethylbenzene	1000	µg/kg	41.2	1011.1	<22.2	98.9	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	803	µg/kg	137	1011.1	<27.9	79.4	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	968	µg/kg	41.2	1011.1	<17.8	95.8	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	910	µg/kg	41.2	1011.1	<11.5	90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	969	µg/kg	137	1011.1	<26.6	95.8	70-130			
1,2-Dichloropropane	936	µg/kg	41.2	1011.1	<22.4	92.6	71-130			
1,3,5-Trimethylbenzene	1040	µg/kg	137	1011.1	<21.4	103	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	928	µg/kg	41.2	1011.1	<21.0	91.8	78-121			
1,3-Dichloropropene	1810	µg/kg	82.4	2022.2	<16.9	89.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	946	µg/kg	41.2	1011.1	<24.7	93.6	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1190	µg/kg	275	1011.1	<72.2	118	47-164			
2-Hexanone	1200	µg/kg	41.2	1011.1	<15.0	118	70-137			
4-Methyl-2-pentanone (MIBK)	1380	µg/kg	41.2	1011.1	<28.3	136	57-200			
Acetone	1700	µg/kg	137	1011.1	<90.0	169	52-190			
Benzene	994	µg/kg	41.2	1011.1	<14.7	98.4	78-122			
Bromochloromethane	944	µg/kg	41.2	1011.1	<15.4	93.4	68-130			
Bromodichloromethane	975	µg/kg	41.2	1011.1	<17.0	96.4	75-125			
Bromoform	892	µg/kg	41.2	1011.1	<12.8	88.2	59-120			
Carbon disulfide	800	µg/kg	41.2	1011.1	<15.7	79.1	60-163			
Carbon tetrachloride	939	µg/kg	41.2	1011.1	<11.9	92.9	69-123			
Chlorobenzene	981	µg/kg	41.2	1011.1	<10.1	97.0	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

MS	CLIENT ID: Batch QC	Lab ID: QC-2422019-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:10

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	905	µg/kg	41.2	1011.1	<17.0	89.6	57-123			
Chloroethane (Ethyl chloride)	283	µg/kg	137	1011.1	<84.9	28.0	38-132			S
Chloroform	945	µg/kg	41.2	1011.1	<11.1	93.5	72-122			
cis-1,2-Dichloroethylene	951	µg/kg	41.2	1011.1	<19.5	94.0	74-125			
cis-1,3-Dichloropropene	945	µg/kg	41.2	1011.1	<22.9	93.5	62-124			
Dichlorodifluoromethane (Freon-12)	214	µg/kg	137	1011.1	<36.7	21.2	28-137			S
Ethylbenzene	1040	µg/kg	41.2	1011.1	<21.5	103	75-121			
Isopropylbenzene	1060	µg/kg	41.2	1011.1	<19.2	104	74-121			
m+p-Xylene	2110	µg/kg	82.4	2022.2	<40.4	105	67-129			
Methyl acetate	1020	µg/kg	344	1011.1	<36.3	101	61-125			
Methyl bromide (Bromomethane)	205	µg/kg	137	1011.1	<58.0	20.3	31-169			S
Methyl chloride (Chloromethane)	306	µg/kg	137	1011.1	<82.9	30.2	24-119			
Methyl tert-butyl ether (MTBE)	892	µg/kg	41.2	1011.1	<22.1	88.2	79-139			
Methylene chloride (Dichloromethane)	574	µg/kg	344	1011.1	<80.5	56.8	62-135			S
o-Xylene	1030	µg/kg	41.2	1011.1	<11.7	102	75-120			
Styrene	988	µg/kg	41.2	1011.1	<12.0	97.8	74-126			
Tetrachloroethylene (Perchloroethylene)	1900	µg/kg	41.2	1011.1	<18.3	188	76-128			S
Toluene	989	µg/kg	41.2	1011.1	<25.0	97.8	76-120			
Total Xylene	3140	µg/kg	124	3033.4	<11.7	104	67-129			
trans-1,2-Dichloroethylene	905	µg/kg	41.2	1011.1	<25.0	89.6	72-127			
trans-1,3-Dichloropropylene	860	µg/kg	41.2	1011.1	<16.9	85.0	66-120			
Trichloroethene (Trichloroethylene)	1130	µg/kg	41.2	1011.1	<13.6	112	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	552	µg/kg	41.2	1011.1	<15.5	54.6	51-115			
Vinyl chloride (Chloroethene)	355	µg/kg	41.2	1011.1	<20.2	35.1	43-128			S
Surr: 1,2-Dichloroethane-d4	1010	µg/kg		1011.1		99.6	80-120			
Surr: 4-Bromofluorobenzene	1040	µg/kg		1011.1		103	80-120			
Surr: Dibromofluoromethane	978	µg/kg		1011.1		96.8	72-120			
Surr: Toluene-d8	978	µg/kg		1011.1		96.7	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422019-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:30

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	988	µg/kg	41.2	1011.1	<13.8	97.8	75-121	1.22	30	
1,1,2,2-Tetrachloroethane	840	µg/kg	41.2	1011.1	<13.4	83.0	79-125	5.13	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	846	µg/kg	41.2	1011.1	<19.2	83.6	62-129	2.18	30	
1,1,2-Trichloroethane	994	µg/kg	41.2	1011.1	<12.9	98.4	80-123	4.10	30	
1,1-Dichloroethane	915	µg/kg	41.2	1011.1	<11.1	90.4	74-124	0.111	30	
1,1-Dichloroethylene	826	µg/kg	41.2	1011.1	<9.83	81.7	68-131	1.17	30	
1,2,3-Trichlorobenzene	992	µg/kg	137	1011.1	<36.4	98.2	60-135	10.7	30	
1,2,3-Trichloropropane	945	µg/kg	41.2	1011.1	<12.7	93.5	77-121	2.05	30	
1,2,4-Trichlorobenzene	993	µg/kg	137	1011.1	<34.4	98.2	63-130	9.27	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

MSD	CLIENT ID: Batch QC	Lab ID: QC-2422019-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/20/26 22:30

Prep Date: 01/19/26 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1040	µg/kg	41.2	1011.1	<22.2	102	64-126	3.48	30	
1,2-Dibromo-3-chloropropane (DBCP)	882	µg/kg	137	1011.1	<27.9	87.2	55-135	9.42	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	1010	µg/kg	41.2	1011.1	<17.8	99.9	63-155	4.24	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1010	µg/kg	41.2	1011.1	<11.5	100	77-122	10.9	30	
1,2-Dichloroethane (Ethylene dichloride)	975	µg/kg	137	1011.1	<26.6	96.4	70-130	0.624	30	
1,2-Dichloropropane	928	µg/kg	41.2	1011.1	<22.4	91.8	71-130	0.922	30	
1,3,5-Trimethylbenzene	1080	µg/kg	137	1011.1	<21.4	106	66-130	3.20	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1020	µg/kg	41.2	1011.1	<21.0	101	78-121	9.84	30	
1,3-Dichloropropene	1830	µg/kg	82.4	2022.2	<16.9	90.3	62-124	1.14	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1020	µg/kg	41.2	1011.1	<24.7	101	78-122	7.65	30	
2-Butanone (Methyl ethyl ketone, MEK)	1100	µg/kg	275	1011.1	<72.2	109	47-164	7.45	30	
2-Hexanone	1170	µg/kg	41.2	1011.1	<15.0	116	70-137	1.96	30	
4-Methyl-2-pentanone (MIBK)	1390	µg/kg	41.2	1011.1	<28.3	138	57-200	1.02	30	
Acetone	1640	µg/kg	137	1011.1	<90.0	162	52-190	3.93	30	
Benzene	997	µg/kg	41.2	1011.1	<14.7	98.6	78-122	0.254	30	
Bromochloromethane	936	µg/kg	41.2	1011.1	<15.4	92.6	68-130	0.914	30	
Bromodichloromethane	969	µg/kg	41.2	1011.1	<17.0	95.8	75-125	0.624	30	
Bromoform	930	µg/kg	41.2	1011.1	<12.8	92.0	59-120	4.16	30	
Carbon disulfide	804	µg/kg	41.2	1011.1	<15.7	79.5	60-163	0.504	30	
Carbon tetrachloride	969	µg/kg	41.2	1011.1	<11.9	95.8	69-123	3.13	30	
Chlorobenzene	1020	µg/kg	41.2	1011.1	<10.1	101	79-120	3.89	30	
Chlorodibromomethane	978	µg/kg	41.2	1011.1	<17.0	96.7	57-123	7.68	30	
Chloroethane (Ethyl chloride)	280	µg/kg	137	1011.1	<84.9	27.7	38-132	1.08	30	S
Chloroform	956	µg/kg	41.2	1011.1	<11.1	94.5	72-122	1.06	30	
cis-1,2-Dichloroethylene	947	µg/kg	41.2	1011.1	<19.5	93.7	74-125	0.373	30	
cis-1,3-Dichloropropene	923	µg/kg	41.2	1011.1	<22.9	91.2	62-124	2.44	30	
Dichlorodifluoromethane (Freon-12)	222	µg/kg	137	1011.1	<36.7	22.0	28-137	3.48	30	S
Ethylbenzene	1070	µg/kg	41.2	1011.1	<21.5	105	75-121	2.01	30	
Isopropylbenzene	1090	µg/kg	41.2	1011.1	<19.2	108	74-121	3.35	30	
m+p-Xylene	2170	µg/kg	82.4	2022.2	<40.4	108	67-129	2.81	30	
Methyl acetate	1000	µg/kg	344	1011.1	<36.3	99.4	61-125	1.50	30	
Methyl bromide (Bromomethane)	212	µg/kg	137	1011.1	<58.0	21.0	31-169	3.39	30	S
Methyl chloride (Chloromethane)	331	µg/kg	137	1011.1	<82.9	32.7	24-119	7.78	30	
Methyl tert-butyl ether (MTBE)	884	µg/kg	41.2	1011.1	<22.1	87.4	79-139	0.911	30	
Methylene chloride (Dichloromethane)	638	µg/kg	344	1011.1	<80.5	63.0	62-135	10.5	30	
o-Xylene	1070	µg/kg	41.2	1011.1	<11.7	106	75-120	4.43	30	
Styrene	1020	µg/kg	41.2	1011.1	<12.0	101	74-126	3.27	30	
Tetrachloroethylene (Perchloroethylene)	1940	µg/kg	41.2	1011.1	<18.3	192	76-128	2.08	30	S
Toluene	1020	µg/kg	41.2	1011.1	<25.0	101	76-120	2.77	30	
Total Xylene	3250	µg/kg	124	3033.4	<11.7	107	67-129	3.34	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422019

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833207

MSD		CLIENT ID: Batch QC				Lab ID: QC-2422019-006				
Method: EPA 8260D		Dilution: 1				Analysis Date: 01/20/26 22:30				
						Prep Date: 01/19/26 12:26				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	917	µg/kg	41.2	1011.1	<25.0	90.7	72-127	1.28	30	
trans-1,3-Dichloropropylene	903	µg/kg	41.2	1011.1	<16.9	89.4	66-120	4.93	30	
Trichloroethene (Trichloroethylene)	1110	µg/kg	41.2	1011.1	<13.6	110	75-122	1.99	30	
Trichlorofluoromethane	558	µg/kg	41.2	1011.1	<15.5	55.2	51-115	1.00	30	
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	366	µg/kg	41.2	1011.1	<20.2	36.2	43-128	2.95	30	S
Surr: 1,2-Dichloroethane-d4	993	µg/kg		1011.1		98.2	80-120	1.47	30	
Surr: 4-Bromofluorobenzene	1030	µg/kg		1011.1		102	80-120	0.979	30	
Surr: Dibromofluoromethane	987	µg/kg		1011.1		97.6	72-120	0.875	30	
Surr: Toluene-d8	998	µg/kg		1011.1		98.8	80-120	2.10	30	

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
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							U
1,1,2,2-Tetrachloroethane	<13.2	µg/kg	30.0							U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<19.0	µg/kg	30.0							U
1,1,2-Trichloroethane	<12.8	µg/kg	30.0							U
1,1-Dichloroethane	<10.9	µg/kg	30.0							U
1,1-Dichloroethylene	<9.72	µg/kg	30.0							U
1,2,3-Trichlorobenzene	<36.0	µg/kg	100							U
1,2,3-Trichloropropane	<12.6	µg/kg	30.0							U
1,2,4-Trichlorobenzene	<34.0	µg/kg	100							U
1,2,4-Trimethylbenzene	<22.0	µg/kg	30.0							U
1,2-Dibromo-3-chloropropane (DBCP)	<27.6	µg/kg	100							U
1,2-Dibromoethane (EDB, Ethylene dibromide)	<17.6	µg/kg	30.0							U
1,2-Dichlorobenzene (o-Dichlorobenzene)	<11.4	µg/kg	30.0							U
1,2-Dichloroethane (Ethylene dichloride)	<26.3	µg/kg	100							U
1,2-Dichloropropane	<22.1	µg/kg	30.0							U
1,3,5-Trimethylbenzene	<21.2	µg/kg	100							U
1,3-Dichlorobenzene (m-Dichlorobenzene)	<20.7	µg/kg	30.0							U
1,3-Dichloropropene	<16.8	µg/kg	60.0							U
1,4-Dichlorobenzene (p-Dichlorobenzene)	<24.4	µg/kg	30.0							U
2-Butanone (Methyl ethyl ketone, MEK)	<71.4	µg/kg	200							U
2-Hexanone	<14.9	µg/kg	30.0							U
4-Methyl-2-pentanone (MIBK)	<28.0	µg/kg	30.0							U
Acetone	<89.0	µg/kg	100							U
Benzene	<14.5	µg/kg	30.0							U
Bromochloromethane	<15.3	µg/kg	30.0							U
Bromodichloromethane	<16.8	µg/kg	30.0							U
Bromoform	<12.6	µg/kg	30.0							U
Carbon disulfide	<15.5	µg/kg	30.0							U
Carbon tetrachloride	<11.7	µg/kg	30.0							U
Chlorobenzene	<9.96	µg/kg	30.0							U
Chlorodibromomethane	<16.8	µg/kg	30.0							U
Chloroethane (Ethyl chloride)	<84.0	µg/kg	100							U
Chloroform	<11.0	µg/kg	30.0							U
cis-1,2-Dichloroethylene	<19.3	µg/kg	30.0							U
cis-1,3-Dichloropropene	<22.6	µg/kg	30.0							U
Cyclohexane	<23.0	µg/kg	100							U
Dichlorodifluoromethane (Freon-12)	<36.3	µg/kg	100							U
Ethylbenzene	<21.3	µg/kg	30.0							U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
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							U
m+p-Xylene	<40.0	µg/kg	60.0							U
Methyl acetate	<35.9	µg/kg	250							U
Methyl bromide (Bromomethane)	<57.4	µg/kg	100							U
Methyl chloride (Chloromethane)	<82.0	µg/kg	100							U
Methyl tert-butyl ether (MTBE)	<21.9	µg/kg	30.0							U
Methylcyclohexane	<11.4	µg/kg	30.0							U
Methylene chloride (Dichloromethane)	<79.6	µg/kg	250							U
o-Xylene	<11.6	µg/kg	30.0							U
Styrene	<11.9	µg/kg	30.0							U
Tetrachloroethylene (Perchloroethylene)	<18.1	µg/kg	30.0							U
Toluene	<24.7	µg/kg	30.0							U
Total Xylene	<11.6	µg/kg	90.0							U
trans-1,2-Dichloroethylene	<24.8	µg/kg	30.0							U
trans-1,3-Dichloropropylene	<16.8	µg/kg	30.0							U
Trichloroethene (Trichloroethylene)	<13.4	µg/kg	30.0							U
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<15.3	µg/kg	30.0							U
Vinyl chloride (Chloroethene)	<19.9	µg/kg	30.0							U
Surr: 1,2-Dichloroethane-d4	999	µg/kg		1000		99.9	80-120			
Surr: 4-Bromofluorobenzene	1060	µg/kg		1000		106	80-120			
Surr: Dibromofluoromethane	970	µg/kg		1000		97.0	72-120			
Surr: Toluene-d8	1000	µg/kg		1000		100	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422298-002
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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: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
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			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
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			

MS	CLIENT ID: 5224 SB03 (5-6')_20260116	Lab ID: QC-2422298-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/21/26 10:09

Prep Date: 01/19/26 15:36

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833440

MS	CLIENT ID: 5224 SB03 (5-6')_20260116	Lab ID: QC-2422298-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/21/26 10:09

Prep Date: 01/19/26 15:36

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

MSD	CLIENT ID: 5224 SB03 (5-6')_20260116	Lab ID: QC-2422298-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/21/26 10:28

Prep Date: 01/19/26 15:36

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833440

MSD	CLIENT ID: 5224 SB03 (5-6')_20260116	Lab ID: QC-2422298-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/21/26 10:28

Prep Date: 01/19/26 15:36

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



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2422298

Work Order: HN2600835
Date Collected: NA
Date Received: NA
Run ID: 3833440

MSD	CLIENT ID: 5224 SB03 (5-6')_20260116	Lab ID: QC-2422298-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/21/26 10:28

Prep Date: 01/19/26 15:36

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

The following samples were analyzed in this batch: HN2600835-001, HN2600835-002, HN2600835-003



right solutions.
right partner.

April 20, 2026

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

Re: **5224 Harding**

Date Received: **04/07/2026**

Work Order: **HN2605551**

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: 5224 Harding

Work Order: HN2605551
Date Received: 07-Apr-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 07-Apr-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.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Workorder: HN2605551

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2605551-001	5224 TCLP SB01 (1-2') _20260406	SOIL/SOLID	04/06/26 09:50	04/07/26 08:00

Chain of Custody Form

Page 1 of 1

Laboratory location:



Telephone : +1 616 399 6070

ALS Project Manager:								Work Order #:											
Project Information								Parameter/Method Request for Analysis											
Project Name		5224 Harding						A		TCLP Lead									
Project Number		DETR0060						B											
Group		Mannik Smith Group						C											
Invoice Attn:								D											
Address		2365 South Haggerty Road						E											
City/State/Zip		Canton, Mi 48188						F											
Phone		734-397-3100						G											
Fax								H											
e-Mail Address		montri@manniksmithgroup.com						I											
e-Mail Address		omitchell@manniksmithgroup.com						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	5224 TCLP SB01 (1-2')_2026 0406	4-6-26	0950	Soil	NA	1	X												
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Other				Results Due Date:							
Eric Robinson				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour															
Relinquished by:		Date:	Time:	Received by:		Notes:													
Eric Robinson		4/6/26	1445	[Signature]		QS to BH 4/7/26 0800													
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check Box Below)													
[Signature]		4/8/26	1700	[Signature]		Cooler Temp.													
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level II: Standard QC													
BH		4/7/26	1059	[Signature]		Level III: Std QC + Raw Data													
						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																			

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:

BH

Date/Time:

4/7/26 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):

1.5/1.5c

Thermometer(s):

186

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Dail

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

4/7/26 1059

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:

HN-SHT-160-R01, Sample Receipt Checklist

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: 5224 Harding

Work Order: HN2605551

Sample Name: 5224 TCLP SB01 (1-2')_20260406
Laboratory Code: HN2605551-001
Sample Matrix: SOIL/SOLID

Date Collected: 04/06/26
Date Received: 04/07/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AC	2543144	Chloe Patrick	4026696	Hunter Johnson

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID

Work Order: HN2605551
Date Collected: 04/06/26 09:50
Date Received: 04/07/26 08:00

CLIENT ID: 5224 TCLP SB01 (1-2')_20260406 **Lab ID:** HN2605551-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Lead	EPA 6020B	<0.00220	U	mg/L	0.0499	1	04/17/26 20:12	04/17/26 09:31

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 5224 Harding
Matrix: SOIL/SOLID
QC Lot: 2543144

Work Order: HN2605551
Date Collected: NA
Date Received: NA
Run ID: 4026696

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2543144-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:40
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	<0.00220	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2543144-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:41
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.01	mg/L	0.0499	1		101	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2543144-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:45
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.02	mg/L	0.0499	1	<0.00220	102	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2543144-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/17/26 19:46
Prep Date: 04/17/26 09:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Lead	1.03	mg/L	0.0499	1	<0.00220	103	75-125	1.49	20	

The following samples were analyzed in this batch: HN2605551-001