

DRAFT

FILL MATERIAL SAMPLING REPORT

8087 VANDERBILT STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48209



MARCH 25, 2026

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

8087 VANDERBILT STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48209

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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 8087 Vanderbilt 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 8087 SB01, 8087 SB02, and 8087 SB03 generally consisted of brown to dark brown 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, asphalt and/or brick debris were observed in 8087 SB01 and/or 8087 SB02.
- Concentrations of mercury were detected in soil sample 8087 SB01 (5-6')_20260218 in excess of Part 201 groundwater surface water interface protection criteria (GSIPC).
- Concentrations of mercury were detected in soil sample 8087 SB01 (5-6')_20260218 in excess of soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, naphthalene, phenanthrene, pyrene, and zinc were detected in soil samples 8087 DUP-1_20260218, 8087 SB01 (5-6')_20260218, 8087 SB02 (3-4')_20260218, and/or 8087 SB03 (1-2')_20260218 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the SVIAP is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

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

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

DRAFT

TABLE OF CONTENTS

Executive Summary	ES-1
1.0 Introduction	1
2.0 Purpose and Scope of Work	1
3.0 Site Assessment Methodology.....	1
3.1 Preliminary Site Work Activities	1
3.2 Soil Sample Collection.....	2
3.3 Decontamination.....	2
3.4 Analytical Methods	2
3.5 Quality Assurance/Quality Control.....	3
4.0 Summary of Results	3
4.1 Site Geology and Hydrogeology	3
4.2 Soil Sample Analytical Results	3
4.3 Exposure Evaluation.....	3
5.0 Findings	4
 Figures	
Figure 1	Site Location Map
Figure 2	Site Layout
 Table	
Table 1	Soil Sample Analytical Detection Summary
 Appendices	
Appendix A	Limitations
Appendix B	Daily Field Report
Appendix C	Investigation Photographs
Appendix D	Soil Boring Logs
Appendix E	Laboratory Analytical Reports and Chain of Custody Forms

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 8087 Vanderbilt 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 February 18, 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 February 18, 2026. A daily field activity report prepared by MSG is presented in *Appendix B, Daily Field Report*.

3.1 Preliminary Site Work Activities

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 8087 SB01, 8087 SB02, and 8087 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Decontamination

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

3.4 Analytical Methods

A total of four (4) soil samples designated 8087 DUP-1_20260218, 8087 SB01 (5-6')_20260218, 8087 SB02 (3-4')_20260218, and 8087 SB03 (1-2')_20260218 were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025:

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

3.5 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was achieved in the field by using MSG's standard operating procedures (SOPs) for sample collection, sample screening, sample preservation, and chain-of-custody protocols to ensure sample integrity. One (1) duplicate soil sample (8087 DUP-1_20260218) was collected by MSG, which corresponds with soil sample 8087 SB02 (3-4')_20260218. The data associated with the duplicate soil sample was used to demonstrate a generally acceptable degree of precision with respect to the analyzed parameters.

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 February 18, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 8087 SB01, 8087 SB02, and 8087 SB03 generally consisted of brown to dark brown sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, asphalt and/or brick debris were observed in 8087 SB01 and/or 8087 SB02.

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

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 8087 DUP-1_20260218, 8087 SB01 (5-6')_20260218, 8087 SB02 (3-4')_20260218, and 8087 SB03 (1-2')_20260218, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Mercury	7439-97-6	8087 SB01 (5-6')_20260218	GSIPC ² / 50(M;1.2)	266

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

²GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 Exposure Evaluation

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

Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered

during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore, the groundwater surface water exposure pathway can be considered not applicable. Since the building on site has been razed, the SVIAP is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

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 8087 SB01, 8087 SB02, and 8087 SB03 generally consisted of brown to dark brown sand to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, asphalt and/or brick debris were observed in 8087 SB01 and/or 8087 SB02.
- Concentrations of mercury were detected in soil sample 8087 SB01 (5-6')_20260218 in excess of Part 201 GSIPC.
- Concentrations of mercury were detected in soil sample 8087 SB01 (5-6')_20260218 in excess of SVIAP.
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, chromium (Total), chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, naphthalene, phenanthrene, pyrene, and zinc were detected in soil samples 8087 DUP-1_20260218, 8087 SB01 (5-6')_20260218, 8087 SB02 (3-4')_20260218, and/or 8087 SB03 (1-2')_20260218 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the 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. Since the building on site has been razed, the SVIAP is not currently complete, however, consideration may need to be given to this pathway if future construction is planned.

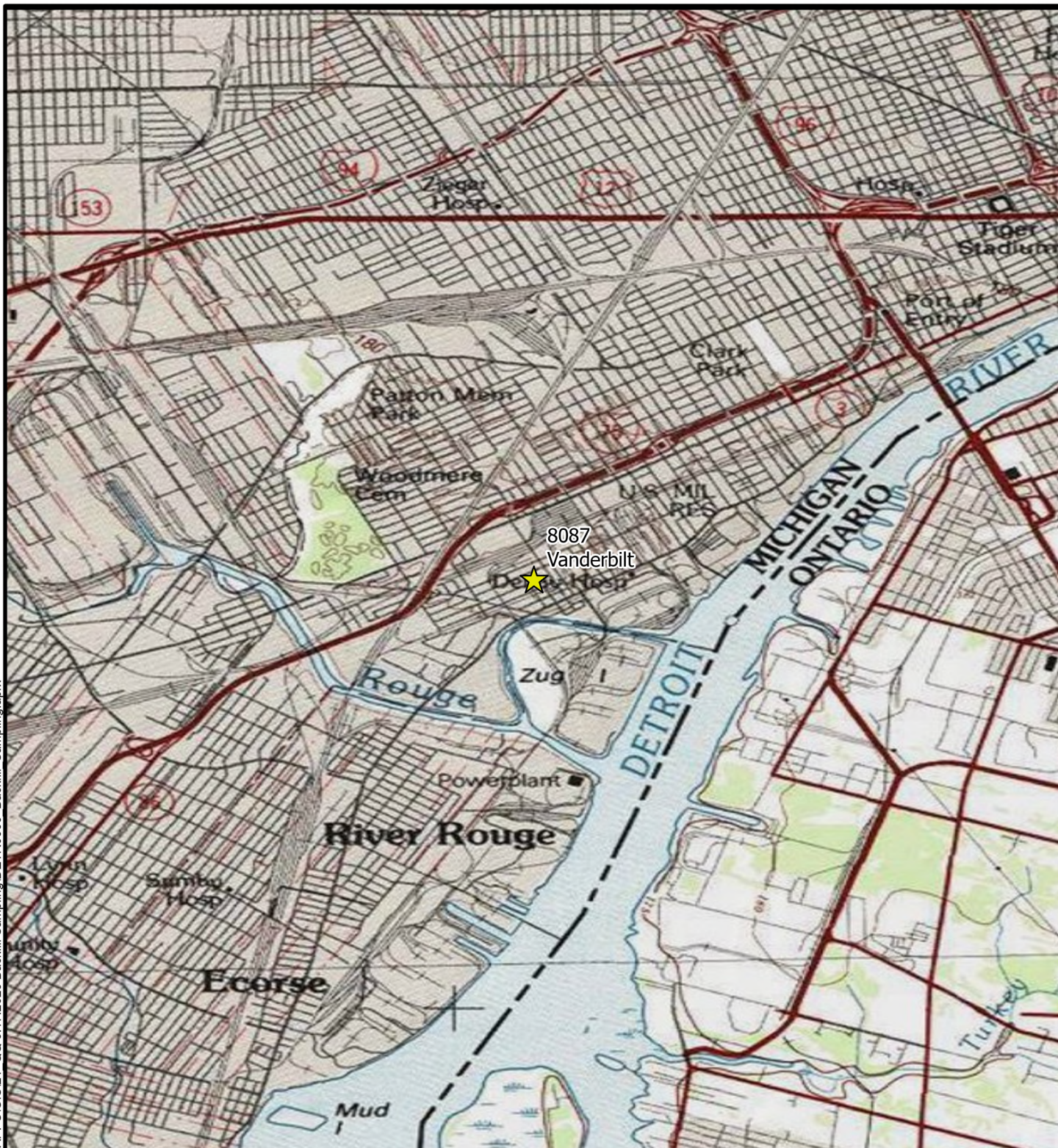
MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

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

FIGURES



Date Saved: 1/8/2026 11:31 AM Coordinate System: GCS WGS 1984
Path: W:\Projects\Projects A-E\DETROIT\060\ENG\APPS\GIS\21_QQ 6.17.2025 Backfill Sampling\DETRO060 Backfill Sampling.aprx



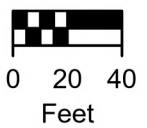
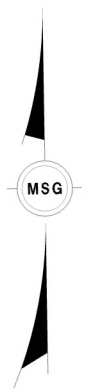
★ Site Location



FIGURE 1
SITE LOCATION

8087 Vanderbilt, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETRO060
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- Sample Locations
- - - Parcels (Current)
- - - Subject Property

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



FIGURE 2
Site Layout

8087 Vanderbilt, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
8087 Vanderbilt, 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			Metals						Semivolatile Organic Compounds (SVOCs)															
			Arsenic (B)	Barium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	1-Methylnaphthalene	2-Methylnaphthalene	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Bis(2-ethylhexyl) phthalate	Chrysene	Fluoranthene	Indeno(1,2,3-Cd)Pyrene	Naphthalene	Phenanthrene	Pyrene
CAS Number			7440-38-2	7440-39-3	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	90-12-0	91-57-6	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	117-81-7	218-01-9	206-44-0	193-39-5	91-20-3	85-01-8	129-00-0
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Statewide Default Background Levels			5,800	75,000	18,000	32,000	21,000	130	47,000	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Drinking Water Protection Criteria (DWPC)			4,600	1.30E+06	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	NC	57,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	35,000	56,000	4.80E+05
Groundwater Surface Water Interface Protection Criteria (GSIPC)			4,600	4.40E+05 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M,1,2)	1.60E+05	NC	4,200	ID	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	730	2,100	ID
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NLV	NLV	NC	NLV	NLV	48,000	NC	NC	2.70E+06	1.00E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	1.00E+09	NLV	2.50E+05	2.80E+06	1.00E+09
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	22 ^(M)	NC	NC	1,700	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	NC	67 ^(M)	1,700	2.50E+07
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NLV	NLV	NC	NLV	NLV	52,000	NC	NC	1.50E+06	1.40E+09	NLV	NLV	ID	NLV	NLV	NLV	ID	7.40E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Particulate Soil Inhalation Criteria (PSIC)			7.20E+05	3.30E+08	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	NC	6.70E+08	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	7.00E+08	ID	9.30E+09	ID	2.00E+08	6.70E+06	6.70E+09
Direct Contact Criteria (DCC)			7,600	3.70E+07	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	NC	8.10E+06	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.80E+06	2.00E+06	4.60E+07	20,000	1.60E+07	1.60E+06	2.90E+07
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NC	NA	NA	NA	NC	NC	NA	NA	NA	NA	NA	NA	NA	1.00E+07	NA	NA	NA	NA	NA	NA
Sample ID	Sample Depth (ft)	Sample Date																						
8087 SB01	5.0 - 6.0	02/18/2026	4,030	41,500	9,040	12,200	94,700	266	70,100	40.3	54.5	11.2	114	138	179	108	76.9	38.8	123	163	117	42.6	70.2	156
8087 SB02	3.0 - 4.0	02/18/2026	5,310	11,400	6,330	7,850	7,320	45	30,500	<4.93	<3.48	<4.83	<5.92	<4.2	<5.11	<5.25	<5.19	<28.3	<5.54	<3.29	<4.77	<4.38	<3.18	<3.42
8087 SB02 (DUP-1)	3.0 - 4.0	02/18/2026	4,650	9,680	5,210	7,640	4,240	<13.6	28,300	<4.99	<3.52	<4.89	<5.99	<4.25	<5.17	<5.31	<5.25	<28.7	<5.6	<3.33	<4.82	<4.43	<3.22	<3.46
8087 SB03	1.0 - 2.0	02/18/2026	3,950	8,410	4,150	5,810	4,240	<13.7	24,100	<4.89	<3.45	<4.79	<5.87	<4.17	<5.06	<5.21	<5.15	<28.1	<5.49	<3.26	<4.73	<4.34	<3.16	<3.39

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

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

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

Bold indicates concentration above laboratory reporting limits.

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

Part 201 GSIPC Hardness specific criteria (G) calculated using a regional hardness value

of the lower portion of the lower peninsula, 150 mg CaCO3/L.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1

through 299.50, updated October 12, 2023.

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORT





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>02/18/2026</u>	Day: <u>Wednesday</u>	Temp: <u>N/A</u> (AM) <u>50° F</u> (PM)
MSG Personnel: <u>SRK, RS</u>	Cloud Cover: <u>N/A</u> (AM) <u>100%</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 1 hours</u>		

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

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:
1416 – SRK and RS onsite (8087 Vanderbilt Street) 1418 – Unloaded and prepared equipment 1430 – Began drilling SB01 1432 – Finished drilling SB01 1434 – Began drilling SB02 1436 – Finished drilling SB02 1438 – Began drilling SB03 1440 – Finished drilling SB03 1440 – Sampled 8087 SB01 (5-6')_20260218 1455 – Sampled 8087 SB02 (3-4')_20260218 and 8087 DUP-1_20260218 1515 – Sampled 8087 SB03 (1-2')_20260218 1520 – Packed up equipment 1530 – MSG off site

Supporting Documentation					
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐
Photo Log Attached	Yes ☒	No ☐	COC Attached	Yes ☒	No ☐
				Boring/MW Logs	Yes ☒
				Field Note Book Taken	Yes ☒

Problem Identification and Corrective Measures
<u>N/A</u>
Resolved? Yes ☐ No ☐

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2: View of drilling at 8087 SB01, facing northwest.



Photo 3: Viewing 8087 SB01 soil recovery, facing southeast.



Photo 4: View of drilling at 8087 SB02, facing northwest.



Photo 5: Viewing 8087 SB02 soil recovery, facing southeast.



Photo 6: View of drilling at 8087 SB03, facing northwest.



Photo 7: Viewing 8087 SB03 soil recovery, facing southeast.

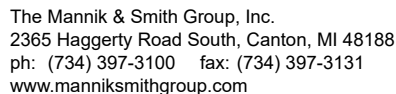


Photo 8: View of the Site post-drilling, facing southeast.

APPENDIX D

SOIL BORING LOGS





Sheet 1 of 1

PROJECT NAME Backfill Soil Sampling

PROJECT LOCATION 8087 Vanderbilt, Detroit, MI

POSITION

SURFACE ELEVATION **FINAL DEPTH** 6.0 ft

LOGGED BY SRK **CHECKED BY** PDH

REMARKS

LEGEND:

▼ AFTER DRILLING

CLIENT City of Detroit

PROJECT NAME Backfill Soil Sampling

PROJECT NUMBER DETR0060_8087 Vanderbilt

PROJECT LOCATION 8087 Vanderbilt, Detroit, MI

DATE STARTED	02-18-2026	COMPLETED	02-18-2026
---------------------	------------	------------------	------------

POSITION

DRILLING CONTRACTOR	MSG
---------------------	-----

SURFACE ELEVATION **FINAL DEPTH** 6.0 ft

DRILLING METHOD	Direct Push
------------------------	-------------

LOGGED BY SRK CHECKED BY PDH

EQUIPMENT	Geoprobe 7822 DT	Operator	RS
------------------	------------------	-----------------	----

REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Brown, SAND, Little Gravel, Trace Silt, Trace Clay, Trace Asphalt Debris, Moist		
				- Becomes Dry at 1.0' bgs	0	
					0	
ES		42			0	Collected Soil Sample 8087 SB02 (3-4')
					0	_20260218 at 1455 and 8087 DUP-1_20260218
5				- Becomes Moist at 5.0' bgs	0	
				6.0	0	
				Terminated at 6.00 ft.		
10						

LEGEND:

▽	AT TIME OF DRILLING	Not Encountered
---	---------------------	-----------------

▼ AT END OF DRILLING

▼ AFTER DRILLING

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

February 27, 2026

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

Re: **8087 Vanderbilt**

Date Received: **02/19/2026**

Work Order: **HN2602493**

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: 8087 Vanderbilt

Work Order: HN2602493
Date Received: 19-Feb-2026

CASE NARRATIVE

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

Sample Receipt

4 soil/solid samples were received for analysis at ALS Environmental on 19-Feb-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2602493

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: 3904096

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

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:

Benzaldehyde; Hexachlorocyclopentadiene.

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

Run ID: 3899494

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: dichlorodifluoromethane

QC-2460255-002: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: tetrachloroethylene

Metals

EPA 6020B-3050B-S

Run ID: 3900582

Samples HN2602493-001 through -004: 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: 8087 SB01 (5-6')_20260218	Lab ID: HN2602493-001
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	40.3		7.47	µg/kg	EPA 8270E
2-Methylnaphthalene	54.5		7.47	µg/kg	EPA 8270E
Anthracene	11.2		7.47	µg/kg	EPA 8270E
Arsenic	4.03		3.18	mg/kg	EPA 6020B
Barium	41.5		3.18	mg/kg	EPA 6020B
Benzo(a)anthracene	114		7.47	µg/kg	EPA 8270E
Benzo(a)pyrene	138		7.47	µg/kg	EPA 8270E
Benzo(b)fluoranthene	179		7.47	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	108		7.47	µg/kg	EPA 8270E
Benzo(k)fluoranthene	76.9		7.47	µg/kg	EPA 8270E
Chromium	9.04		3.18	mg/kg	EPA 6020B
Chrysene	123		7.47	µg/kg	EPA 8270E
Copper	12.2		3.18	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	38.8		37.0	µg/kg	EPA 8270E
Fluoranthene	163		7.47	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	117		7.47	µg/kg	EPA 8270E
Lead	94.7		3.18	mg/kg	EPA 6020B
Mercury	0.266		0.0226	mg/kg	EPA 7471B
Naphthalene	42.6		7.47	µg/kg	EPA 8270E
Percent Moisture	12.6		0.5	%	EPA 3550C
Phenanthrene	70.2		7.47	µg/kg	EPA 8270E
Pyrene	156		7.47	µg/kg	EPA 8270E
Zinc	70.1		6.36	mg/kg	EPA 6020B

CLIENT ID: 8087 SB02 (3-4')_20260218	Lab ID: HN2602493-002
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.31		2.97	mg/kg	EPA 6020B
Barium	11.4		2.97	mg/kg	EPA 6020B
Chromium	6.33		2.97	mg/kg	EPA 6020B
Copper	7.85		2.97	mg/kg	EPA 6020B
Lead	7.32		2.97	mg/kg	EPA 6020B
Mercury	0.0450		0.0200	mg/kg	EPA 7471B
Percent Moisture	5.7		0.5	%	EPA 3550C
Zinc	30.5		5.94	mg/kg	EPA 6020B

CLIENT ID: 8087 SB03 (1-2')_20260218	Lab ID: HN2602493-003
---	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.95		3.00	mg/kg	EPA 6020B
Barium	8.41		3.00	mg/kg	EPA 6020B
Chromium	4.15		3.00	mg/kg	EPA 6020B
Copper	5.81		3.00	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: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Results	Flag	MRL	Units	Method
Lead	4.24		3.00	mg/kg	EPA 6020B
Percent Moisture	4.7		0.5	%	EPA 3550C
Zinc	24.1		6.00	mg/kg	EPA 6020B

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.65		2.91	mg/kg	EPA 6020B
Barium	9.68		2.91	mg/kg	EPA 6020B
Chromium	5.21		2.91	mg/kg	EPA 6020B
Copper	7.64		2.91	mg/kg	EPA 6020B
Lead	4.24		2.91	mg/kg	EPA 6020B
Percent Moisture	5.7		0.5	%	EPA 3550C
Zinc	28.3		5.82	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Workorder: HN2602493

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2602493-001	8087 SB01 (5-6')_20260218	SOIL/SOLID	02/18/26 14:40	02/19/26 06:30
HN2602493-002	8087 SB02 (3-4')_20260218	SOIL/SOLID	02/18/26 14:55	02/19/26 06:30
HN2602493-003	8087 SB03 (1-2')_20260218	SOIL/SOLID	02/18/26 15:15	02/19/26 06:30
HN2602493-004	8087 DUP-1_20260218	SOIL/SOLID	02/18/26	02/19/26 06:30



Telephone : +1 616 399 6070

Environmental

ation:

Chain of Custody Form

Page 1 of 1

ALS Project Manager:							Work Order #:										
Project Information							Parameter/Method Request for Analysis										
Project Name: 8087 Vanderbilt							A VOCs (U.S. EPA Method 8260C (or Method 8260))										
Project Number: DETR0060							B SVOCs (U.S. EPA Method 8270D (or Method 8270))										
Bill To Company: Mannik Smith Group							C PCBs (U.S. EPA Method 8082)										
Invoice Attn:							D Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)										
Address: 2365 South Haggerty Road							E Chlorides (U.S. EPA Method 9056A)										
							F Pesticides (U.S. EPA Method 8081B (or Method 8081))										
City/State/Zip: Canton, Mi 48188							G Herbicides (U.S. EPA Method 8151A (or Method 8151))										
Phone: 734-397-3100							H										
Fax:							I										
e-Mail Address: rmontri@manniksmithgroup.com							J										
e-Mail Address: omitchell@manniksmithgroup.com																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	8087 SB01 (5-6')_20260218	2/18/26	1440	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
2	8087 SB02 (3-4')_20260218		1455	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
3	8087 SB03 (1-2')_20260218		1515	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
4	8087 DUP-1-20260218	2/18/26		Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>							Shipment Method:			Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by: <i>Shannon Kaczmarek</i>		Date: 2/18/26	Time: 1614	Received by: <i>[Signature]</i>		2/18 1614		Notes: Rec'd 2/19/26 0630 2020L									
Relinquished by: <i>[Signature]</i>		Date: 2/18/26	Time: 1700	Received by (Laboratory): <i>[Signature]</i>		2/18 1700		Cooler Temp. 12.6 2.4°C				QC Package: (Check Box Below)					
Logged by (Laboratory): DFS		Date: 2/19/26	Time: 0715	Checked by (Laboratory):								Level II: Standard QC		TRRP-Checklist			
												Level III: Std QC + Raw Data		TRRP Level IV			
												Level IV: SW846 CLP-Like					
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							Other:										

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: Diane F. Shaw

Date/Time: 2/19/26 0630

Carrier Name: Q S

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): 2.4 / 2.4 °C

Thermometer(s): 1 R6

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

Matrix/Matrices: Solid

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 2/19/26 0800

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: 8087 Vanderbilt

Work Order: HN2602493

Sample Name: 8087 SB01 (5-6')_20260218
Laboratory Code: HN2602493-001
Sample Matrix: SOIL/SOLID

Date Collected: 02/18/26
Date Received: 02/19/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2461232		3891865	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2465836	Weston Kotecki	3900582	Hunter Johnson
EPA 7471B	Method	001-AC	2465265	Maxx Richey	3902527	Maxx Richey
EPA 8081B	EPA 3546	001-AC	2465962	Benjamin Farmer	3906347	Madison VandenBer
EPA 8082A	EPA 3546	001-AC	2465961	Benjamin Farmer	3906660	Nathaniel Dietlin
EPA 8151A	Method	001-AC	2465824	Willow Julien	3902382	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AA	2460255	Jonathan Vazquez	3899494	Ali Cook
EPA 8270E	EPA 3546	001-AC	2467436	Mya Harmer	3904096	Sam Marcotte
EPA 9056A	EPA 9056A	001-AC	2462112	Sage Hansen	3894829	Katrina Grassel

Sample Name: 8087 SB02 (3-4')_20260218
Laboratory Code: HN2602493-002
Sample Matrix: SOIL/SOLID

Date Collected: 02/18/26
Date Received: 02/19/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2461232		3891865	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2465836	Weston Kotecki	3900582	Hunter Johnson
EPA 7471B	Method	002-AC	2465265	Maxx Richey	3902527	Maxx Richey
EPA 8081B	EPA 3546	002-AC	2465962	Benjamin Farmer	3906347	Madison VandenBer
EPA 8082A	EPA 3546	002-AC	2465961	Benjamin Farmer	3906660	Nathaniel Dietlin
EPA 8151A	Method	002-AC	2465824	Willow Julien	3902382	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AA	2460255	Jonathan Vazquez	3899494	Ali Cook
EPA 8270E	EPA 3546	002-AC	2467436	Mya Harmer	3904096	Sam Marcotte
EPA 9056A	EPA 9056A	002-AC	2462112	Sage Hansen	3894829	Katrina Grassel

Sample Name: 8087 SB03 (1-2')_20260218
Laboratory Code: HN2602493-003
Sample Matrix: SOIL/SOLID

Date Collected: 02/18/26
Date Received: 02/19/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2461232		3891865	Nicole Maleski

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt

Work Order: HN2602493

Sample Name: 8087 SB03 (1-2')_20260218
Laboratory Code: HN2602493-003
Sample Matrix: SOIL/SOLID

Date Collected: 02/18/26
Date Received: 02/19/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AC	2465836	Weston Kotecki	3900582	Hunter Johnson
EPA 7471B	Method	003-AC	2465831	Maxx Richey	3902527	Maxx Richey
EPA 8081B	EPA 3546	003-AC	2465962	Benjamin Farmer	3906347	Madison VandenBer
EPA 8082A	EPA 3546	003-AC	2465961	Benjamin Farmer	3906660	Nathaniel Dietlin
EPA 8151A	Method	003-AC	2465824	Willow Julien	3902382	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AA	2460255	Jonathan Vazquez	3899494	Ali Cook
EPA 8270E	EPA 3546	003-AC	2467436	Mya Harmer	3904096	Sam Marcotte
EPA 9056A	EPA 9056A	003-AC	2462112	Sage Hansen	3894829	Katrina Grassel

Sample Name: 8087 DUP-1_20260218
Laboratory Code: HN2602493-004
Sample Matrix: SOIL/SOLID

Date Collected: 02/18/26
Date Received: 02/19/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		004-AC	2461232		3891865	Nicole Maleski
EPA 6020B	EPA 3050B	004-AC	2465836	Weston Kotecki	3900582	Hunter Johnson
EPA 7471B	Method	004-AC	2465831	Maxx Richey	3902527	Maxx Richey
EPA 8081B	EPA 3546	004-AC	2465962	Benjamin Farmer	3906347	Madison VandenBer
EPA 8082A	EPA 3546	004-AC	2465961	Benjamin Farmer	3906660	Nathaniel Dietlin
EPA 8151A	Method	004-AC	2465824	Willow Julien	3902382	Kathy Malmyga
EPA 8260D	EPA 5035A	004-AA	2460255	Jonathan Vazquez	3899494	Ali Cook
EPA 8270E	EPA 3546	004-AC	2467436	Mya Harmer	3904096	Sam Marcotte
EPA 9056A	EPA 9056A	004-AC	2462112	Sage Hansen	3894829	Katrina Grassel

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<1.05	U	µg/kg	5.71	1	02/27/26 02:20	02/24/26 12:23
2,4,5-TP (Silvex)	EPA 8151A	<1.87	U	µg/kg	5.71	1	02/27/26 02:20	02/24/26 12:23
2,4-D	EPA 8151A	<3.05	U	µg/kg	11.4	1	02/27/26 02:20	02/24/26 12:23
Surr: DCAA	EPA 8151A	78.0		%REC	10-116	1	02/27/26 02:20	02/24/26 12:23
General Chemistry Parameters								
Percent Moisture	EPA 3550C	12.6		%	0.5	1	02/19/26 22:16	NA
Chloride	EPA 9056A	<3.49	U	mg/kg	11.3	1	02/21/26 08:12	02/20/26 15:49
Metals								
Arsenic	EPA 6020B	4.03		mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Barium	EPA 6020B	41.5		mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Cadmium	EPA 6020B	<0.191	U	mg/kg	1.27	10	02/24/26 22:02	02/24/26 09:28
Chromium	EPA 6020B	9.04		mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Copper	EPA 6020B	12.2		mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Lead	EPA 6020B	94.7		mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Selenium	EPA 6020B	<2.93	U	mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Silver	EPA 6020B	<0.420	U	mg/kg	3.18	10	02/24/26 22:02	02/24/26 09:28
Zinc	EPA 6020B	70.1		mg/kg	6.36	10	02/24/26 22:02	02/24/26 09:28
Mercury	EPA 7471B	0.266		mg/kg	0.0226	1	02/25/26 10:31	02/23/26 15:29
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<17.3	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
4,4'-DDE	EPA 8081B	<17.9	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
4,4'-DDT	EPA 8081B	<18.1	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Aldrin	EPA 8081B	<17.6	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
alpha-BHC	EPA 8081B	<17.9	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
beta-BHC	EPA 8081B	<17.8	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Chlordane, Technical	EPA 8081B	<26.9	U	µg/kg	67.9	1	02/25/26 18:57	02/24/26 14:36
cis-Chlordane	EPA 8081B	<18.1	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
delta-BHC	EPA 8081B	<17.8	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Dieldrin	EPA 8081B	<19.0	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36

Analytical Report



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Project: 8087 Vanderbilt
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Work Order: HN2602493
Date Collected: 02/18/26 14:40
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CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<18.2	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Endosulfan II	EPA 8081B	<18.0	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Endosulfan sulfate	EPA 8081B	<16.7	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Endrin	EPA 8081B	<22.0	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Endrin aldehyde	EPA 8081B	<17.2	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Endrin ketone	EPA 8081B	<16.5	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
gamma-BHC (Lindane)	EPA 8081B	<17.8	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Heptachlor	EPA 8081B	<17.5	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Heptachlor epoxide	EPA 8081B	<18.0	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Methoxychlor	EPA 8081B	<18.2	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
Toxaphene	EPA 8081B	<29.3	U	µg/kg	163	1	02/25/26 18:57	02/24/26 14:36
trans-Chlordane	EPA 8081B	<18.0	U	µg/kg	27.1	1	02/25/26 18:57	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	79.3		%REC	53-151	1	02/25/26 18:57	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	91.3		%REC	67-127	1	02/25/26 18:57	02/24/26 14:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<62.1	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1221	EPA 8082A	<62.1	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1232	EPA 8082A	<62.1	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1242	EPA 8082A	<62.1	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1248	EPA 8082A	<62.1	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1254	EPA 8082A	<50.5	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1260	EPA 8082A	<50.5	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1262	EPA 8082A	<50.5	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Aroclor 1268	EPA 8082A	<50.5	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
Total PCB	EPA 8082A	<50.5	U	µg/kg	181	1	02/25/26 21:08	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	85.1		%REC	54-146	1	02/25/26 21:08	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	89.6		%REC	58-140	1	02/25/26 21:08	02/24/26 14:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<6.06	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<8.61	U	µg/kg	373	1	02/25/26 19:17	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<26.8	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
1-Methylnaphthalene	EPA 8270E	40.3		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<8.75	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,3,4,6-Tetrachlorophenol	EPA 8270E	<27.4	U	µg/kg	74.7	1	02/25/26 19:17	02/25/26 09:15
2,4,5-Trichlorophenol	EPA 8270E	<22.1	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,4,6-Trichlorophenol	EPA 8270E	<9.94	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,4-Dichlorophenol	EPA 8270E	<20.1	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,4-Dimethylphenol	EPA 8270E	<19.2	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,4-Dinitrophenol	EPA 8270E	<273	U	µg/kg	373	1	02/25/26 19:17	02/25/26 09:15
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<24.3	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<9.54	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2-Chloronaphthalene	EPA 8270E	<5.22	U	µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
2-Chlorophenol	EPA 8270E	<24.4	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<31.2	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2-Methylnaphthalene	EPA 8270E	54.5		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
2-Methylphenol (o-Cresol)	EPA 8270E	<10.1	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2-Nitroaniline	EPA 8270E	<20.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
2-Nitrophenol	EPA 8270E	<10.6	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
3&4-Methylphenol	EPA 8270E	<20.4	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
3,3'-Dichlorobenzidine	EPA 8270E	<17.4	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
3-Nitroaniline	EPA 8270E	<21.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<20.5	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
4-Chloro-3-methylphenol	EPA 8270E	<10.6	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
4-Chloroaniline	EPA 8270E	<19.0	U	µg/kg	74.7	1	02/25/26 19:17	02/25/26 09:15
4-Chlorophenyl phenylether	EPA 8270E	<10.3	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
4-Nitroaniline	EPA 8270E	<57.9	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
4-Nitrophenol	EPA 8270E	<87.5	U	µg/kg	373	1	02/25/26 19:17	02/25/26 09:15
Acenaphthene	EPA 8270E	<5.40	U	µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<6.48	U	µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Acetophenone	EPA 8270E	<5.85	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Anthracene	EPA 8270E	11.2		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Atrazine	EPA 8270E	<21.9	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Benzaldehyde	EPA 8270E	<57.4	U	µg/kg	74.7	1	02/25/26 19:17	02/25/26 09:15
Benzo(a)anthracene	EPA 8270E	114		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Benzo(a)pyrene	EPA 8270E	138		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Benzo(b)fluoranthene	EPA 8270E	179		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Benzo(g,h,i)perylene	EPA 8270E	108		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Benzo(k)fluoranthene	EPA 8270E	76.9		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
bis(2-Chloroethoxy) methane	EPA 8270E	<23.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
bis(2-Chloroethyl) ether	EPA 8270E	<10.6	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Butyl benzyl phthalate	EPA 8270E	<46.8	U	µg/kg	74.7	1	02/25/26 19:17	02/25/26 09:15
Caprolactam	EPA 8270E	<33.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Carbazole	EPA 8270E	<11.0	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Chrysene	EPA 8270E	123		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	38.8		µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Dibenz(a,h) anthracene	EPA 8270E	<4.03	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Dibenzofuran	EPA 8270E	<5.49	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Diethyl phthalate	EPA 8270E	<12.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Dimethyl phthalate	EPA 8270E	<7.28	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Fluoranthene	EPA 8270E	163		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Fluorene	EPA 8270E	<5.42	U	µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Hexachlorobenzene	EPA 8270E	<10.9	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Hexachlorobutadiene	EPA 8270E	<8.80	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Hexachlorocyclopentadiene	EPA 8270E	<35.4	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Hexachloroethane	EPA 8270E	<15.5	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Indeno(1,2,3-cd) pyrene	EPA 8270E	117		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Isophorone	EPA 8270E	<7.30	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
Methylphenol, Total	EPA 8270E	<10.1	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	42.6		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Nitrobenzene	EPA 8270E	<12.6	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
n-Nitrosodi-n-propylamine	EPA 8270E	<6.16	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
N-Nitrosodiphenylamine	EPA 8270E	<21.6	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Pentachlorophenol	EPA 8270E	<29.7	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Phenanthrene	EPA 8270E	70.2		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Phenol	EPA 8270E	<18.8	U	µg/kg	37.0	1	02/25/26 19:17	02/25/26 09:15
Pyrene	EPA 8270E	156		µg/kg	7.47	1	02/25/26 19:17	02/25/26 09:15
Pyridine	EPA 8270E	<73.5	U	µg/kg	187	1	02/25/26 19:17	02/25/26 09:15
Surr: 2,4,6-Tribromophenol	EPA 8270E	83.2		%REC	48-94	1	02/25/26 19:17	02/25/26 09:15
Surr: 2-Fluorobiphenyl	EPA 8270E	73.0		%REC	50-103	1	02/25/26 19:17	02/25/26 09:15
Surr: 2-Fluorophenol	EPA 8270E	68.4		%REC	43-105	1	02/25/26 19:17	02/25/26 09:15
Surr: 4-Terphenyl-d14	EPA 8270E	77.2		%REC	55-111	1	02/25/26 19:17	02/25/26 09:15
Surr: Nitrobenzene-d5	EPA 8270E	81.0		%REC	47-100	1	02/25/26 19:17	02/25/26 09:15
Surr: Phenol-d6	EPA 8270E	67.6		%REC	49-110	1	02/25/26 19:17	02/25/26 09:15

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<18.2	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,1,2,2-Tetrachloroethane	EPA 8260D	<17.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<25.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,1,2-Trichloroethane	EPA 8260D	<17.1	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,1-Dichloroethane	EPA 8260D	<14.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,1-Dichloroethylene	EPA 8260D	<13.0	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,2,3-Trichlorobenzene	EPA 8260D	<48.2	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
1,2,3-Trichloropropane	EPA 8260D	<16.8	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,2,4-Trichlorobenzene	EPA 8260D	<45.6	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
1,2,4-Trimethylbenzene	EPA 8260D	<29.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<37.0	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<23.6	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<15.3	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
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CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<23.6	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
1,2-Dichloropropane	EPA 8260D	<29.6	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,3,5-Trimethylbenzene	EPA 8260D	<28.4	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<27.8	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
1,3-Dichloropropene	EPA 8260D	<22.4	U	µg/kg	80.4	1	02/24/26 05:01	02/19/26 11:23
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<32.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<95.7	U	µg/kg	268	1	02/24/26 05:01	02/19/26 11:23
2-Hexanone	EPA 8260D	<19.9	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<37.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Acetone	EPA 8260D	<119	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
Benzene	EPA 8260D	<19.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Bromochloromethane	EPA 8260D	<20.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Bromodichloromethane	EPA 8260D	<22.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Bromoform	EPA 8260D	<16.9	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Carbon disulfide	EPA 8260D	<20.8	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Carbon tetrachloride	EPA 8260D	<15.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Chlorobenzene	EPA 8260D	<13.3	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Chlorodibromomethane	EPA 8260D	<22.6	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Chloroethane (Ethyl chloride)	EPA 8260D	<113	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
Chloroform	EPA 8260D	<14.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
cis-1,2-Dichloroethylene	EPA 8260D	<25.9	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
cis-1,3-Dichloropropene	EPA 8260D	<30.3	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Cyclohexane	EPA 8260D	<30.8	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<48.7	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
Ethylbenzene	EPA 8260D	<28.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Isopropylbenzene	EPA 8260D	<25.4	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
m+p-Xylene	EPA 8260D	<53.6	U	µg/kg	80.4	1	02/24/26 05:01	02/19/26 11:23
Methyl acetate	EPA 8260D	<48.1	U	µg/kg	335	1	02/24/26 05:01	02/19/26 11:23
Methyl bromide (Bromomethane)	EPA 8260D	<76.9	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:40
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB01 (5-6')_20260218

Lab ID: HN2602493-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<110	U	µg/kg	134	1	02/24/26 05:01	02/19/26 11:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	<29.3	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Methylcyclohexane	EPA 8260D	<15.3	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Methylene chloride (Dichloromethane)	EPA 8260D	<107	U	µg/kg	335	1	02/24/26 05:01	02/19/26 11:23
o-Xylene	EPA 8260D	<15.5	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Styrene	EPA 8260D	<15.9	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<24.2	SU	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Toluene	EPA 8260D	<33.1	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Total Xylene	EPA 8260D	<15.5	U	µg/kg	121	1	02/24/26 05:01	02/19/26 11:23
trans-1,2-Dichloroethylene	EPA 8260D	<33.2	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
trans-1,3-Dichloropropylene	EPA 8260D	<22.4	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Trichloroethene (Trichloroethylene)	EPA 8260D	<18.0	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<20.6	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
Vinyl chloride (Chloroethene)	EPA 8260D	<26.7	U	µg/kg	40.2	1	02/24/26 05:01	02/19/26 11:23
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	98.2		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:01</i>	<i>02/19/26 11:23</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.6		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:01</i>	<i>02/19/26 11:23</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	96.7		%REC	<i>72-120</i>	<i>1</i>	<i>02/24/26 05:01</i>	<i>02/19/26 11:23</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.3		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:01</i>	<i>02/19/26 11:23</i>

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<0.961	U	µg/kg	5.22	1	02/27/26 02:33	02/24/26 12:23
2,4,5-TP (Silvex)	EPA 8151A	<1.71	U	µg/kg	5.22	1	02/27/26 02:33	02/24/26 12:23
2,4-D	EPA 8151A	<2.79	U	µg/kg	10.4	1	02/27/26 02:33	02/24/26 12:23
Surr: DCAA	EPA 8151A	78.0		%REC	10-116	1	02/27/26 02:33	02/24/26 12:23
General Chemistry Parameters								
Percent Moisture	EPA 3550C	5.7		%	0.5	1	02/19/26 22:16	NA
Chloride	EPA 9056A	<3.24	U	mg/kg	10.5	1	02/21/26 08:21	02/20/26 15:49
Metals								
Arsenic	EPA 6020B	5.31		mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Barium	EPA 6020B	11.4		mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Cadmium	EPA 6020B	<0.178	U	mg/kg	1.19	10	02/24/26 22:04	02/24/26 09:28
Chromium	EPA 6020B	6.33		mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Copper	EPA 6020B	7.85		mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Lead	EPA 6020B	7.32		mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Selenium	EPA 6020B	<2.73	U	mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Silver	EPA 6020B	<0.392	U	mg/kg	2.97	10	02/24/26 22:04	02/24/26 09:28
Zinc	EPA 6020B	30.5		mg/kg	5.94	10	02/24/26 22:04	02/24/26 09:28
Mercury	EPA 7471B	0.0450		mg/kg	0.0200	1	02/25/26 10:33	02/23/26 15:29
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<16.2	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
4,4'-DDE	EPA 8081B	<16.7	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
4,4'-DDT	EPA 8081B	<16.8	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Aldrin	EPA 8081B	<16.4	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
alpha-BHC	EPA 8081B	<16.6	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
beta-BHC	EPA 8081B	<16.6	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Chlordane, Technical	EPA 8081B	<25.1	U	µg/kg	63.2	1	02/25/26 21:29	02/24/26 14:36
cis-Chlordane	EPA 8081B	<16.9	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
delta-BHC	EPA 8081B	<16.6	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Dieldrin	EPA 8081B	<17.7	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<17.0	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Endosulfan II	EPA 8081B	<16.7	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Endosulfan sulfate	EPA 8081B	<15.6	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Endrin	EPA 8081B	<20.5	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Endrin aldehyde	EPA 8081B	<16.0	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Endrin ketone	EPA 8081B	<15.4	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
gamma-BHC (Lindane)	EPA 8081B	<16.6	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Heptachlor	EPA 8081B	<16.3	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Heptachlor epoxide	EPA 8081B	<16.7	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Methoxychlor	EPA 8081B	<16.9	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
Toxaphene	EPA 8081B	<27.3	U	µg/kg	152	1	02/25/26 21:29	02/24/26 14:36
trans-Chlordane	EPA 8081B	<16.8	U	µg/kg	25.3	1	02/25/26 21:29	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	81.3		%REC	53-151	1	02/25/26 21:29	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	90.6		%REC	67-127	1	02/25/26 21:29	02/24/26 14:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<57.8	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1221	EPA 8082A	<57.8	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1232	EPA 8082A	<57.8	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1242	EPA 8082A	<57.8	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1248	EPA 8082A	<57.8	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1254	EPA 8082A	<47.1	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1260	EPA 8082A	<47.1	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1262	EPA 8082A	<47.1	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Aroclor 1268	EPA 8082A	<47.1	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
Total PCB	EPA 8082A	<47.1	U	µg/kg	169	1	02/25/26 21:43	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	97.2		%REC	54-146	1	02/25/26 21:43	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	87.1		%REC	58-140	1	02/25/26 21:43	02/24/26 14:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.56	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<7.90	U	µg/kg	342	1	02/25/26 19:45	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<24.6	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
1-Methylnaphthalene	EPA 8270E	<4.93	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<8.02	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,3,4,6-Tetrachlorophenol	EPA 8270E	<25.1	U	µg/kg	68.5	1	02/25/26 19:45	02/25/26 09:15
2,4,5-Trichlorophenol	EPA 8270E	<20.3	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,4,6-Trichlorophenol	EPA 8270E	<9.11	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,4-Dichlorophenol	EPA 8270E	<18.4	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,4-Dimethylphenol	EPA 8270E	<17.6	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,4-Dinitrophenol	EPA 8270E	<250	U	µg/kg	342	1	02/25/26 19:45	02/25/26 09:15
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<22.2	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<8.74	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2-Chloronaphthalene	EPA 8270E	<4.79	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
2-Chlorophenol	EPA 8270E	<22.4	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<28.6	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2-Methylnaphthalene	EPA 8270E	<3.48	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
2-Methylphenol (o-Cresol)	EPA 8270E	<9.26	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2-Nitroaniline	EPA 8270E	<19.0	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
2-Nitrophenol	EPA 8270E	<9.76	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
3&4-Methylphenol	EPA 8270E	<18.7	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
3,3'-Dichlorobenzidine	EPA 8270E	<16.0	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
3-Nitroaniline	EPA 8270E	<19.9	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<18.8	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
4-Chloro-3-methylphenol	EPA 8270E	<9.76	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
4-Chloroaniline	EPA 8270E	<17.4	U	µg/kg	68.5	1	02/25/26 19:45	02/25/26 09:15
4-Chlorophenyl phenylether	EPA 8270E	<9.46	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
4-Nitroaniline	EPA 8270E	<53.1	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
4-Nitrophenol	EPA 8270E	<80.2	U	µg/kg	342	1	02/25/26 19:45	02/25/26 09:15
Acenaphthene	EPA 8270E	<4.95	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<5.94	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Acetophenone	EPA 8270E	<5.36	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Anthracene	EPA 8270E	<4.83	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Atrazine	EPA 8270E	<20.1	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Benzaldehyde	EPA 8270E	<52.6	U	µg/kg	68.5	1	02/25/26 19:45	02/25/26 09:15
Benzo(a)anthracene	EPA 8270E	<5.92	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Benzo(a)pyrene	EPA 8270E	<4.20	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Benzo(b)fluoranthene	EPA 8270E	<5.11	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Benzo(g,h,i)perylene	EPA 8270E	<5.25	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Benzo(k)fluoranthene	EPA 8270E	<5.19	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
bis(2-Chloroethoxy) methane	EPA 8270E	<21.7	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
bis(2-Chloroethyl) ether	EPA 8270E	<9.70	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Butyl benzyl phthalate	EPA 8270E	<42.9	U	µg/kg	68.5	1	02/25/26 19:45	02/25/26 09:15
Caprolactam	EPA 8270E	<30.9	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Carbazole	EPA 8270E	<10.1	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Chrysene	EPA 8270E	<5.54	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<28.3	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Dibenz(a,h) anthracene	EPA 8270E	<3.70	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Dibenzofuran	EPA 8270E	<5.03	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Diethyl phthalate	EPA 8270E	<11.7	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Dimethyl phthalate	EPA 8270E	<6.68	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Fluoranthene	EPA 8270E	<3.29	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Fluorene	EPA 8270E	<4.97	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Hexachlorobenzene	EPA 8270E	<9.97	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Hexachlorobutadiene	EPA 8270E	<8.07	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Hexachlorocyclopentadiene	EPA 8270E	<32.5	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Hexachloroethane	EPA 8270E	<14.2	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Indeno(1,2,3-cd) pyrene	EPA 8270E	<4.77	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Isophorone	EPA 8270E	<6.69	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
Methylphenol, Total	EPA 8270E	<9.26	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.38	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Nitrobenzene	EPA 8270E	<11.5	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
n-Nitrosodi-n-propylamine	EPA 8270E	<5.65	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
N-Nitrosodiphenylamine	EPA 8270E	<19.8	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Pentachlorophenol	EPA 8270E	<27.2	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Phenanthrene	EPA 8270E	<3.18	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Phenol	EPA 8270E	<17.2	U	µg/kg	33.9	1	02/25/26 19:45	02/25/26 09:15
Pyrene	EPA 8270E	<3.42	U	µg/kg	6.85	1	02/25/26 19:45	02/25/26 09:15
Pyridine	EPA 8270E	<67.4	U	µg/kg	171	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	85.6		%REC	48-94	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	72.3		%REC	50-103	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	71.7		%REC	43-105	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	78.4		%REC	55-111	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	80.1		%REC	47-100	1	02/25/26 19:45	02/25/26 09:15
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	71.5		%REC	49-110	1	02/25/26 19:45	02/25/26 09:15

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<15.2	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,1,2,2-Tetrachloroethane	EPA 8260D	<14.8	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<21.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,1,2-Trichloroethane	EPA 8260D	<14.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,1-Dichloroethane	EPA 8260D	<12.2	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,1-Dichloroethylene	EPA 8260D	<10.9	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,2,3-Trichlorobenzene	EPA 8260D	<40.3	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
1,2,3-Trichloropropane	EPA 8260D	<14.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,2,4-Trichlorobenzene	EPA 8260D	<38.1	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
1,2,4-Trimethylbenzene	EPA 8260D	<24.6	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<30.9	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<19.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<12.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<19.7	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
1,2-Dichloropropane	EPA 8260D	<24.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,3,5-Trimethylbenzene	EPA 8260D	<23.7	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<23.2	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
1,3-Dichloropropene	EPA 8260D	<18.7	U	µg/kg	67.2	1	02/24/26 05:19	02/19/26 11:23
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<27.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<79.9	U	µg/kg	224	1	02/24/26 05:19	02/19/26 11:23
2-Hexanone	EPA 8260D	<16.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<31.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Acetone	EPA 8260D	<99.7	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
Benzene	EPA 8260D	<16.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Bromochloromethane	EPA 8260D	<17.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Bromodichloromethane	EPA 8260D	<18.8	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Bromoform	EPA 8260D	<14.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Carbon disulfide	EPA 8260D	<17.4	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Carbon tetrachloride	EPA 8260D	<13.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Chlorobenzene	EPA 8260D	<11.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Chlorodibromomethane	EPA 8260D	<18.9	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Chloroethane (Ethyl chloride)	EPA 8260D	<94.0	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
Chloroform	EPA 8260D	<12.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
cis-1,2-Dichloroethylene	EPA 8260D	<21.6	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
cis-1,3-Dichloropropene	EPA 8260D	<25.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Cyclohexane	EPA 8260D	<25.7	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<40.6	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
Ethylbenzene	EPA 8260D	<23.8	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Isopropylbenzene	EPA 8260D	<21.2	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
m+p-Xylene	EPA 8260D	<44.8	U	µg/kg	67.2	1	02/24/26 05:19	02/19/26 11:23
Methyl acetate	EPA 8260D	<40.2	U	µg/kg	280	1	02/24/26 05:19	02/19/26 11:23
Methyl bromide (Bromomethane)	EPA 8260D	<64.2	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 14:55
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB02 (3-4')_20260218

Lab ID: HN2602493-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<91.8	U	µg/kg	112	1	02/24/26 05:19	02/19/26 11:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	<24.5	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Methylcyclohexane	EPA 8260D	<12.8	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Methylene chloride (Dichloromethane)	EPA 8260D	<89.1	U	µg/kg	280	1	02/24/26 05:19	02/19/26 11:23
o-Xylene	EPA 8260D	<13.0	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Styrene	EPA 8260D	<13.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<20.2	SU	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Toluene	EPA 8260D	<27.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Total Xylene	EPA 8260D	<13.0	U	µg/kg	101	1	02/24/26 05:19	02/19/26 11:23
trans-1,2-Dichloroethylene	EPA 8260D	<27.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
trans-1,3-Dichloropropylene	EPA 8260D	<18.7	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Trichloroethene (Trichloroethylene)	EPA 8260D	<15.1	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<17.2	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Vinyl chloride (Chloroethene)	EPA 8260D	<22.3	U	µg/kg	33.6	1	02/24/26 05:19	02/19/26 11:23
Surr: 1,2-Dichloroethane-d4	EPA 8260D	97.2		%REC	80-120	1	02/24/26 05:19	02/19/26 11:23
Surr: 4-Bromofluorobenzene	EPA 8260D	99.0		%REC	80-120	1	02/24/26 05:19	02/19/26 11:23
Surr: Dibromofluoromethane	EPA 8260D	95.4		%REC	72-120	1	02/24/26 05:19	02/19/26 11:23
Surr: Toluene-d8	EPA 8260D	97.8		%REC	80-120	1	02/24/26 05:19	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<0.951	U	µg/kg	5.17	1	02/27/26 02:46	02/24/26 12:23
2,4,5-TP (Silvex)	EPA 8151A	<1.70	U	µg/kg	5.17	1	02/27/26 02:46	02/24/26 12:23
2,4-D	EPA 8151A	<2.76	U	µg/kg	10.3	1	02/27/26 02:46	02/24/26 12:23
Surr: DCAA	EPA 8151A	66.0		%REC	10-116	1	02/27/26 02:46	02/24/26 12:23
General Chemistry Parameters								
Percent Moisture	EPA 3550C	4.7		%	0.5	1	02/19/26 22:16	NA
Chloride	EPA 9056A	<3.21	U	mg/kg	10.3	1	02/21/26 08:29	02/20/26 15:49
Metals								
Arsenic	EPA 6020B	3.95		mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Barium	EPA 6020B	8.41		mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Cadmium	EPA 6020B	<0.180	U	mg/kg	1.20	10	02/24/26 22:06	02/24/26 09:28
Chromium	EPA 6020B	4.15		mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Copper	EPA 6020B	5.81		mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Lead	EPA 6020B	4.24		mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Selenium	EPA 6020B	<2.76	U	mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Silver	EPA 6020B	<0.396	U	mg/kg	3.00	10	02/24/26 22:06	02/24/26 09:28
Zinc	EPA 6020B	24.1		mg/kg	6.00	10	02/24/26 22:06	02/24/26 09:28
Mercury	EPA 7471B	<0.0137	U	mg/kg	0.0201	1	02/25/26 12:17	02/24/26 07:59
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<16.1	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
4,4'-DDE	EPA 8081B	<16.6	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
4,4'-DDT	EPA 8081B	<16.7	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Aldrin	EPA 8081B	<16.4	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
alpha-BHC	EPA 8081B	<16.6	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
beta-BHC	EPA 8081B	<16.5	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Chlordane, Technical	EPA 8081B	<25.0	U	µg/kg	62.9	1	02/25/26 21:42	02/24/26 14:36
cis-Chlordane	EPA 8081B	<16.8	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
delta-BHC	EPA 8081B	<16.5	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Dieldrin	EPA 8081B	<17.6	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<16.9	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Endosulfan II	EPA 8081B	<16.7	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Endosulfan sulfate	EPA 8081B	<15.5	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Endrin	EPA 8081B	<20.4	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Endrin aldehyde	EPA 8081B	<16.0	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Endrin ketone	EPA 8081B	<15.3	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
gamma-BHC (Lindane)	EPA 8081B	<16.5	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Heptachlor	EPA 8081B	<16.2	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Heptachlor epoxide	EPA 8081B	<16.7	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Methoxychlor	EPA 8081B	<16.8	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
Toxaphene	EPA 8081B	<27.2	U	µg/kg	151	1	02/25/26 21:42	02/24/26 14:36
trans-Chlordane	EPA 8081B	<16.7	U	µg/kg	25.2	1	02/25/26 21:42	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	81.7		%REC	53-151	1	02/25/26 21:42	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	91.2		%REC	67-127	1	02/25/26 21:42	02/24/26 14:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<57.5	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1221	EPA 8082A	<57.5	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1232	EPA 8082A	<57.5	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1242	EPA 8082A	<57.5	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1248	EPA 8082A	<57.5	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1254	EPA 8082A	<46.9	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1260	EPA 8082A	<46.9	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1262	EPA 8082A	<46.9	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Aroclor 1268	EPA 8082A	<46.9	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
Total PCB	EPA 8082A	<46.9	U	µg/kg	168	1	02/25/26 21:55	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	96.1		%REC	54-146	1	02/25/26 21:55	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	91.9		%REC	58-140	1	02/25/26 21:55	02/24/26 14:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.51	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<7.83	U	µg/kg	339	1	02/25/26 20:13	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<24.4	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
1-Methylnaphthalene	EPA 8270E	<4.89	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<7.96	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,3,4,6-Tetrachlorophenol	EPA 8270E	<24.9	U	µg/kg	67.9	1	02/25/26 20:13	02/25/26 09:15
2,4,5-Trichlorophenol	EPA 8270E	<20.1	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,4,6-Trichlorophenol	EPA 8270E	<9.04	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,4-Dichlorophenol	EPA 8270E	<18.3	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,4-Dimethylphenol	EPA 8270E	<17.5	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,4-Dinitrophenol	EPA 8270E	<248	U	µg/kg	339	1	02/25/26 20:13	02/25/26 09:15
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<22.1	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<8.67	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2-Chloronaphthalene	EPA 8270E	<4.75	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
2-Chlorophenol	EPA 8270E	<22.2	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<28.4	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2-Methylnaphthalene	EPA 8270E	<3.45	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
2-Methylphenol (o-Cresol)	EPA 8270E	<9.18	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2-Nitroaniline	EPA 8270E	<18.9	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
2-Nitrophenol	EPA 8270E	<9.68	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
3&4-Methylphenol	EPA 8270E	<18.5	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
3,3'-Dichlorobenzidine	EPA 8270E	<15.9	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
3-Nitroaniline	EPA 8270E	<19.7	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<18.6	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
4-Chloro-3-methylphenol	EPA 8270E	<9.68	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
4-Chloroaniline	EPA 8270E	<17.3	U	µg/kg	67.9	1	02/25/26 20:13	02/25/26 09:15
4-Chlorophenyl phenylether	EPA 8270E	<9.38	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
4-Nitroaniline	EPA 8270E	<52.7	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
4-Nitrophenol	EPA 8270E	<79.6	U	µg/kg	339	1	02/25/26 20:13	02/25/26 09:15
Acenaphthene	EPA 8270E	<4.91	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<5.89	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Acetophenone	EPA 8270E	<5.32	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Anthracene	EPA 8270E	<4.79	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Atrazine	EPA 8270E	<19.9	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Benzaldehyde	EPA 8270E	<52.2	U	µg/kg	67.9	1	02/25/26 20:13	02/25/26 09:15
Benzo(a)anthracene	EPA 8270E	<5.87	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Benzo(a)pyrene	EPA 8270E	<4.17	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Benzo(b)fluoranthene	EPA 8270E	<5.06	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Benzo(g,h,i)perylene	EPA 8270E	<5.21	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Benzo(k)fluoranthene	EPA 8270E	<5.15	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
bis(2-Chloroethoxy) methane	EPA 8270E	<21.5	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
bis(2-Chloroethyl) ether	EPA 8270E	<9.62	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Butyl benzyl phthalate	EPA 8270E	<42.5	U	µg/kg	67.9	1	02/25/26 20:13	02/25/26 09:15
Caprolactam	EPA 8270E	<30.7	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Carbazole	EPA 8270E	<10.0	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Chrysene	EPA 8270E	<5.49	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<28.1	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Dibenz(a,h) anthracene	EPA 8270E	<3.67	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Dibenzofuran	EPA 8270E	<4.99	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Diethyl phthalate	EPA 8270E	<11.6	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Dimethyl phthalate	EPA 8270E	<6.62	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Fluoranthene	EPA 8270E	<3.26	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Fluorene	EPA 8270E	<4.93	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Hexachlorobenzene	EPA 8270E	<9.88	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Hexachlorobutadiene	EPA 8270E	<8.00	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Hexachlorocyclopentadiene	EPA 8270E	<32.2	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Hexachloroethane	EPA 8270E	<14.1	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Indeno(1,2,3-cd) pyrene	EPA 8270E	<4.73	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Isophorone	EPA 8270E	<6.63	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
Methylphenol, Total	EPA 8270E	<9.18	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.34	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Nitrobenzene	EPA 8270E	<11.4	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
n-Nitrosodi-n-propylamine	EPA 8270E	<5.60	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
N-Nitrosodiphenylamine	EPA 8270E	<19.7	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Pentachlorophenol	EPA 8270E	<27.0	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Phenanthrene	EPA 8270E	<3.16	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Phenol	EPA 8270E	<17.1	U	µg/kg	33.6	1	02/25/26 20:13	02/25/26 09:15
Pyrene	EPA 8270E	<3.39	U	µg/kg	6.79	1	02/25/26 20:13	02/25/26 09:15
Pyridine	EPA 8270E	<66.9	U	µg/kg	170	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	80.9		%REC	48-94	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	70.0		%REC	50-103	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	70.0		%REC	43-105	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	72.9		%REC	55-111	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	76.4		%REC	47-100	1	02/25/26 20:13	02/25/26 09:15
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	70.7		%REC	49-110	1	02/25/26 20:13	02/25/26 09:15

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<15.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,1,2,2-Tetrachloroethane	EPA 8260D	<14.6	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<21.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,1,2-Trichloroethane	EPA 8260D	<14.1	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,1-Dichloroethane	EPA 8260D	<12.1	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,1-Dichloroethylene	EPA 8260D	<10.7	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,2,3-Trichlorobenzene	EPA 8260D	<39.8	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
1,2,3-Trichloropropane	EPA 8260D	<13.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,2,4-Trichlorobenzene	EPA 8260D	<37.6	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
1,2,4-Trimethylbenzene	EPA 8260D	<24.3	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<30.5	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<19.5	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<12.6	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<19.5	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
1,2-Dichloropropane	EPA 8260D	<24.4	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,3,5-Trimethylbenzene	EPA 8260D	<23.4	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<22.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
1,3-Dichloropropene	EPA 8260D	<18.5	U	µg/kg	66.3	1	02/24/26 05:38	02/19/26 11:23
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<26.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<78.9	U	µg/kg	221	1	02/24/26 05:38	02/19/26 11:23
2-Hexanone	EPA 8260D	<16.4	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<30.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Acetone	EPA 8260D	<98.4	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
Benzene	EPA 8260D	<16.1	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Bromochloromethane	EPA 8260D	<16.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Bromodichloromethane	EPA 8260D	<18.6	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Bromoform	EPA 8260D	<14.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Carbon disulfide	EPA 8260D	<17.2	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Carbon tetrachloride	EPA 8260D	<13.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Chlorobenzene	EPA 8260D	<11.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Chlorodibromomethane	EPA 8260D	<18.6	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Chloroethane (Ethyl chloride)	EPA 8260D	<92.8	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
Chloroform	EPA 8260D	<12.1	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
cis-1,2-Dichloroethylene	EPA 8260D	<21.3	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
cis-1,3-Dichloropropene	EPA 8260D	<25.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Cyclohexane	EPA 8260D	<25.4	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<40.1	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
Ethylbenzene	EPA 8260D	<23.5	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Isopropylbenzene	EPA 8260D	<20.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
m+p-Xylene	EPA 8260D	<44.2	U	µg/kg	66.3	1	02/24/26 05:38	02/19/26 11:23
Methyl acetate	EPA 8260D	<39.7	U	µg/kg	276	1	02/24/26 05:38	02/19/26 11:23
Methyl bromide (Bromomethane)	EPA 8260D	<63.4	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26 15:15
Date Received: 02/19/26 06:30

CLIENT ID: 8087 SB03 (1-2')_20260218

Lab ID: HN2602493-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<90.6	U	µg/kg	111	1	02/24/26 05:38	02/19/26 11:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	<24.2	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Methylcyclohexane	EPA 8260D	<12.6	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Methylene chloride (Dichloromethane)	EPA 8260D	<88.0	U	µg/kg	276	1	02/24/26 05:38	02/19/26 11:23
o-Xylene	EPA 8260D	<12.8	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Styrene	EPA 8260D	<13.1	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<20.0	SU	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Toluene	EPA 8260D	<27.3	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Total Xylene	EPA 8260D	<12.8	U	µg/kg	99.5	1	02/24/26 05:38	02/19/26 11:23
trans-1,2-Dichloroethylene	EPA 8260D	<27.4	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
trans-1,3-Dichloropropylene	EPA 8260D	<18.5	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Trichloroethene (Trichloroethylene)	EPA 8260D	<14.9	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<17.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Vinyl chloride (Chloroethene)	EPA 8260D	<22.0	U	µg/kg	33.2	1	02/24/26 05:38	02/19/26 11:23
Surr: 1,2-Dichloroethane-d4	EPA 8260D	102		%REC	80-120	1	02/24/26 05:38	02/19/26 11:23
Surr: 4-Bromofluorobenzene	EPA 8260D	105		%REC	80-120	1	02/24/26 05:38	02/19/26 11:23
Surr: Dibromofluoromethane	EPA 8260D	97.2		%REC	72-120	1	02/24/26 05:38	02/19/26 11:23
Surr: Toluene-d8	EPA 8260D	96.5		%REC	80-120	1	02/24/26 05:38	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<0.976	U	µg/kg	5.30	1	02/27/26 02:59	02/24/26 12:23
2,4,5-TP (Silvex)	EPA 8151A	<1.74	U	µg/kg	5.30	1	02/27/26 02:59	02/24/26 12:23
2,4-D	EPA 8151A	<2.83	U	µg/kg	10.6	1	02/27/26 02:59	02/24/26 12:23
Surr: DCAA	EPA 8151A	68.0		%REC	10-116	1	02/27/26 02:59	02/24/26 12:23
General Chemistry Parameters								
Percent Moisture	EPA 3550C	5.7		%	0.5	1	02/19/26 22:16	NA
Chloride	EPA 9056A	<3.29	U	mg/kg	10.6	1	02/21/26 08:37	02/20/26 15:49
Metals								
Arsenic	EPA 6020B	4.65		mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Barium	EPA 6020B	9.68		mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Cadmium	EPA 6020B	<0.175	U	mg/kg	1.16	10	02/24/26 22:08	02/24/26 09:28
Chromium	EPA 6020B	5.21		mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Copper	EPA 6020B	7.64		mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Lead	EPA 6020B	4.24		mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Selenium	EPA 6020B	<2.68	U	mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Silver	EPA 6020B	<0.384	U	mg/kg	2.91	10	02/24/26 22:08	02/24/26 09:28
Zinc	EPA 6020B	28.3		mg/kg	5.82	10	02/24/26 22:08	02/24/26 09:28
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	02/25/26 12:19	02/24/26 07:59
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<16.3	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
4,4'-DDE	EPA 8081B	<16.8	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
4,4'-DDT	EPA 8081B	<17.0	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Aldrin	EPA 8081B	<16.6	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
alpha-BHC	EPA 8081B	<16.8	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
beta-BHC	EPA 8081B	<16.8	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Chlordane, Technical	EPA 8081B	<25.4	U	µg/kg	63.9	1	02/25/26 21:56	02/24/26 14:36
cis-Chlordane	EPA 8081B	<17.1	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
delta-BHC	EPA 8081B	<16.7	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Dieldrin	EPA 8081B	<17.9	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<17.2	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Endosulfan II	EPA 8081B	<16.9	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Endosulfan sulfate	EPA 8081B	<15.7	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Endrin	EPA 8081B	<20.7	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Endrin aldehyde	EPA 8081B	<16.2	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Endrin ketone	EPA 8081B	<15.6	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
gamma-BHC (Lindane)	EPA 8081B	<16.8	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Heptachlor	EPA 8081B	<16.5	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Heptachlor epoxide	EPA 8081B	<16.9	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Methoxychlor	EPA 8081B	<17.1	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
Toxaphene	EPA 8081B	<27.6	U	µg/kg	153	1	02/25/26 21:56	02/24/26 14:36
trans-Chlordane	EPA 8081B	<17.0	U	µg/kg	25.6	1	02/25/26 21:56	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	77.0		%REC	53-151	1	02/25/26 21:56	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	90.3		%REC	67-127	1	02/25/26 21:56	02/24/26 14:36

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<58.5	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1221	EPA 8082A	<58.5	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1232	EPA 8082A	<58.5	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1242	EPA 8082A	<58.5	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1248	EPA 8082A	<58.5	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1254	EPA 8082A	<47.6	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1260	EPA 8082A	<47.6	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1262	EPA 8082A	<47.6	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Aroclor 1268	EPA 8082A	<47.6	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
Total PCB	EPA 8082A	<47.6	U	µg/kg	171	1	02/25/26 22:07	02/24/26 14:36
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	91.9		%REC	54-146	1	02/25/26 22:07	02/24/26 14:36
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	88.4		%REC	58-140	1	02/25/26 22:07	02/24/26 14:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.63	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<7.99	U	µg/kg	346	1	02/25/26 20:41	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<24.9	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
1-Methylnaphthalene	EPA 8270E	<4.99	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<8.12	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,3,4,6-Tetrachlorophenol	EPA 8270E	<25.4	U	µg/kg	69.3	1	02/25/26 20:41	02/25/26 09:15
2,4,5-Trichlorophenol	EPA 8270E	<20.5	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,4,6-Trichlorophenol	EPA 8270E	<9.22	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,4-Dichlorophenol	EPA 8270E	<18.7	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,4-Dimethylphenol	EPA 8270E	<17.8	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,4-Dinitrophenol	EPA 8270E	<253	U	µg/kg	346	1	02/25/26 20:41	02/25/26 09:15
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<22.5	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<8.85	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2-Chloronaphthalene	EPA 8270E	<4.85	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
2-Chlorophenol	EPA 8270E	<22.7	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<28.9	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2-Methylnaphthalene	EPA 8270E	<3.52	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
2-Methylphenol (o-Cresol)	EPA 8270E	<9.37	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2-Nitroaniline	EPA 8270E	<19.2	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
2-Nitrophenol	EPA 8270E	<9.88	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
3&4-Methylphenol	EPA 8270E	<18.9	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
3,3'-Dichlorobenzidine	EPA 8270E	<16.2	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
3-Nitroaniline	EPA 8270E	<20.1	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<19.0	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
4-Chloro-3-methylphenol	EPA 8270E	<9.88	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
4-Chloroaniline	EPA 8270E	<17.6	U	µg/kg	69.3	1	02/25/26 20:41	02/25/26 09:15
4-Chlorophenyl phenylether	EPA 8270E	<9.58	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
4-Nitroaniline	EPA 8270E	<53.8	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
4-Nitrophenol	EPA 8270E	<81.2	U	µg/kg	346	1	02/25/26 20:41	02/25/26 09:15
Acenaphthene	EPA 8270E	<5.01	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<6.01	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Acetophenone	EPA 8270E	<5.43	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Anthracene	EPA 8270E	<4.89	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Atrazine	EPA 8270E	<20.3	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Benzaldehyde	EPA 8270E	<53.2	U	µg/kg	69.3	1	02/25/26 20:41	02/25/26 09:15
Benzo(a)anthracene	EPA 8270E	<5.99	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Benzo(a)pyrene	EPA 8270E	<4.25	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Benzo(b)fluoranthene	EPA 8270E	<5.17	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Benzo(g,h,i)perylene	EPA 8270E	<5.31	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Benzo(k)fluoranthene	EPA 8270E	<5.25	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
bis(2-Chloroethoxy) methane	EPA 8270E	<21.9	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
bis(2-Chloroethyl) ether	EPA 8270E	<9.82	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Butyl benzyl phthalate	EPA 8270E	<43.4	U	µg/kg	69.3	1	02/25/26 20:41	02/25/26 09:15
Caprolactam	EPA 8270E	<31.3	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Carbazole	EPA 8270E	<10.2	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Chrysene	EPA 8270E	<5.60	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<28.7	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Dibenz(a,h) anthracene	EPA 8270E	<3.74	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Dibenzofuran	EPA 8270E	<5.09	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Diethyl phthalate	EPA 8270E	<11.8	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Dimethyl phthalate	EPA 8270E	<6.76	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Fluoranthene	EPA 8270E	<3.33	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Fluorene	EPA 8270E	<5.03	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Hexachlorobenzene	EPA 8270E	<10.1	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Hexachlorobutadiene	EPA 8270E	<8.16	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Hexachlorocyclopentadiene	EPA 8270E	<32.9	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Hexachloroethane	EPA 8270E	<14.3	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Indeno(1,2,3-cd) pyrene	EPA 8270E	<4.82	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Isophorone	EPA 8270E	<6.77	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
Methylphenol, Total	EPA 8270E	<9.37	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.43	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Nitrobenzene	EPA 8270E	<11.6	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
n-Nitrosodi-n-propylamine	EPA 8270E	<5.72	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
N-Nitrosodiphenylamine	EPA 8270E	<20.1	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Pentachlorophenol	EPA 8270E	<27.5	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Phenanthrene	EPA 8270E	<3.22	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Phenol	EPA 8270E	<17.4	U	µg/kg	34.3	1	02/25/26 20:41	02/25/26 09:15
Pyrene	EPA 8270E	<3.46	U	µg/kg	6.93	1	02/25/26 20:41	02/25/26 09:15
Pyridine	EPA 8270E	<68.2	U	µg/kg	173	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	80.9		%REC	48-94	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	70.3		%REC	50-103	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	70.8		%REC	43-105	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	74.8		%REC	55-111	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	78.0		%REC	47-100	1	02/25/26 20:41	02/25/26 09:15
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	70.4		%REC	49-110	1	02/25/26 20:41	02/25/26 09:15

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<16.0	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,1,2,2-Tetrachloroethane	EPA 8260D	<15.6	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<22.4	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,1,2-Trichloroethane	EPA 8260D	<15.0	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,1-Dichloroethane	EPA 8260D	<12.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,1-Dichloroethylene	EPA 8260D	<11.5	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,2,3-Trichlorobenzene	EPA 8260D	<42.4	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
1,2,3-Trichloropropane	EPA 8260D	<14.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,2,4-Trichlorobenzene	EPA 8260D	<40.1	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
1,2,4-Trimethylbenzene	EPA 8260D	<25.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<32.5	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<20.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<13.4	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<20.8	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
1,2-Dichloropropane	EPA 8260D	<26.0	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,3,5-Trimethylbenzene	EPA 8260D	<25.0	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<24.4	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
1,3-Dichloropropene	EPA 8260D	<19.7	U	µg/kg	70.7	1	02/24/26 05:57	02/19/26 11:23
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<28.7	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<84.1	U	µg/kg	236	1	02/24/26 05:57	02/19/26 11:23
2-Hexanone	EPA 8260D	<17.5	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<32.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Acetone	EPA 8260D	<105	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
Benzene	EPA 8260D	<17.1	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Bromochloromethane	EPA 8260D	<18.0	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Bromodichloromethane	EPA 8260D	<19.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Bromoform	EPA 8260D	<14.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Carbon disulfide	EPA 8260D	<18.3	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Carbon tetrachloride	EPA 8260D	<13.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Chlorobenzene	EPA 8260D	<11.7	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Chlorodibromomethane	EPA 8260D	<19.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Chloroethane (Ethyl chloride)	EPA 8260D	<99.0	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
Chloroform	EPA 8260D	<12.9	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
cis-1,2-Dichloroethylene	EPA 8260D	<22.7	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
cis-1,3-Dichloropropene	EPA 8260D	<26.6	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Cyclohexane	EPA 8260D	<27.1	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<42.8	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
Ethylbenzene	EPA 8260D	<25.1	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Isopropylbenzene	EPA 8260D	<22.3	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
m+p-Xylene	EPA 8260D	<47.1	U	µg/kg	70.7	1	02/24/26 05:57	02/19/26 11:23
Methyl acetate	EPA 8260D	<42.3	U	µg/kg	295	1	02/24/26 05:57	02/19/26 11:23
Methyl bromide (Bromomethane)	EPA 8260D	<67.6	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID

Work Order: HN2602493
Date Collected: 02/18/26
Date Received: 02/19/26 06:30

CLIENT ID: 8087 DUP-1_20260218

Lab ID: HN2602493-004

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<96.6	U	µg/kg	118	1	02/24/26 05:57	02/19/26 11:23
Methyl tert-butyl ether (MTBE)	EPA 8260D	<25.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Methylcyclohexane	EPA 8260D	<13.5	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Methylene chloride (Dichloromethane)	EPA 8260D	<93.8	U	µg/kg	295	1	02/24/26 05:57	02/19/26 11:23
o-Xylene	EPA 8260D	<13.7	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Styrene	EPA 8260D	<14.0	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<21.3	SU	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Toluene	EPA 8260D	<29.1	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Total Xylene	EPA 8260D	<13.7	U	µg/kg	106	1	02/24/26 05:57	02/19/26 11:23
trans-1,2-Dichloroethylene	EPA 8260D	<29.2	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
trans-1,3-Dichloropropylene	EPA 8260D	<19.7	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Trichloroethene (Trichloroethylene)	EPA 8260D	<15.8	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<18.1	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
Vinyl chloride (Chloroethene)	EPA 8260D	<23.5	U	µg/kg	35.3	1	02/24/26 05:57	02/19/26 11:23
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.2		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:57</i>	<i>02/19/26 11:23</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.6		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:57</i>	<i>02/19/26 11:23</i>
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	94.8		%REC	<i>72-120</i>	<i>1</i>	<i>02/24/26 05:57</i>	<i>02/19/26 11:23</i>
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	<i>80-120</i>	<i>1</i>	<i>02/24/26 05:57</i>	<i>02/19/26 11:23</i>



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465824

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3902382

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2465824-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/26/26 21:29
Prep Date: 02/24/26 12:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00							U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00							U
2,4-D	<2.67	µg/kg	10.0							U
Surr: DCAA	35.0	µg/kg		50		70.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2465824-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/26/26 21:42
Prep Date: 02/24/26 12:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	30.0	µg/kg	5.00	50		60.0	10-119			
2,4,5-TP (Silvex)	27.0	µg/kg	5.00	50		54.0	10-101			
2,4-D	32.0	µg/kg	10.0	50		64.0	10-128			
Surr: DCAA	37.0	µg/kg		50		74.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2465824-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/26/26 21:55
Prep Date: 02/24/26 12:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	28.6	µg/kg	5.52	49.285	<0.907	58.0	10-119			
2,4,5-TP (Silvex)	28.6	µg/kg	5.52	49.285	<1.62	58.0	10-101			
2,4-D	31.5	µg/kg	11.0	49.285	<2.63	64.0	10-128			
Surr: DCAA	38.4	µg/kg		49.285		78.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2465824-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 02/26/26 22:09
Prep Date: 02/24/26 12:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	26.6	µg/kg	5.52	49.285	<0.920	54.0	10-119	7.14	30	
2,4,5-TP (Silvex)	25.6	µg/kg	5.52	49.285	<1.64	52.0	10-101	10.9	30	
2,4-D	31.5	µg/kg	11.0	49.285	<2.67	64.0	10-128	0.00	30	
Surr: DCAA	37.5	µg/kg		49.285		76.0	10-116	2.60	30	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2461232

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3891865

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2461232-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 02/19/26 22:16
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	<0.1	%	0.5							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2461232-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 02/19/26 22:16
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	100	%	0.5	100		100.0	98-102			

DUP	CLIENT ID: Batch QC	Lab ID: QC-2461232-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 02/19/26 22:16
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	11.9	%	0.5		12.6			5.87	10	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2461232

Work Order: HN2602493
Date Collected: 02/18/26 12:58
Date Received: 02/19/26 06:30
Run ID: 3894786

General Chemistry Parameters

DUP	CLIENT ID: Batch QC	Lab ID: QC-2461232-015
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Method: EPA 3550C	Dilution: 1	Analysis Date: 02/20/26 23:38
		Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	14.2	%	0.5		<0.1			14.6	10	R

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2462112

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3894829

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2462112-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 02/21/26 06:35
Prep Date: 02/20/26 15:50

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-2462112-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 02/21/26 06:43
Prep Date: 02/20/26 15:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	89.5	mg/kg	10.0	100		89.5	87-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2462112-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 02/21/26 07:00
Prep Date: 02/20/26 15:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	136	mg/kg	11.1	95.785	38.9	107	87-110			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2462112-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 02/21/26 07:08
Prep Date: 02/20/26 15:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	131	mg/kg	11.2	96.525	38.9	100	87-110	4.37	15	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465265

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3902527

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2465265-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 15:17
Prep Date: 02/23/26 15:30

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-2465265-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 09:33
Prep Date: 02/23/26 15:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.186	mg/kg	0.0200	0.1665		112	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2465265-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 09:36
Prep Date: 02/23/26 15:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.203	mg/kg	0.0223	0.15819	0.0558	98.1	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2465265-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 09:38
Prep Date: 02/23/26 15:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.223	mg/kg	0.0223	0.15774	0.0558	111	75-125	9.38	35	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465831

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3902527

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2465831-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 15:19
Prep Date: 02/24/26 08:00

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-2465831-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 15:21
Prep Date: 02/24/26 08:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.172	mg/kg	0.0200	0.1665		103	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2465831-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 10:43
Prep Date: 02/24/26 08:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.228	mg/kg	0.0220	0.15616	52.7	117	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2465831-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 02/25/26 10:45
Prep Date: 02/24/26 08:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.231	mg/kg	0.0224	0.15907	52.7	117	75-125	1.16	35	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465836

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3900582

Metals

MB **CLIENT ID: Method Blank** **Lab ID: QC-2465836-001**

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/24/26 21:27
Prep Date: 02/24/26 09:29

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-2465836-002**

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 02/24/26 21:29
Prep Date: 02/24/26 09:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.98	mg/kg	0.250	5		99.6	80-120			
Barium	5.22	mg/kg	0.250	5		104	80-120			
Cadmium	5.05	mg/kg	0.100	5		101	80-120			
Chromium	4.89	mg/kg	0.250	5		97.9	80-120			
Copper	4.93	mg/kg	0.250	5		98.5	80-120			
Lead	5.19	mg/kg	0.250	5		104	80-120			
Selenium	5.04	mg/kg	0.250	5		101	80-120			
Silver	5.19	mg/kg	0.250	5		104	80-120			
Zinc	4.78	mg/kg	0.500	5		95.6	80-120			

MS **CLIENT ID: Batch QC** **Lab ID: QC-2465836-004**

Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 02/24/26 21:36
Prep Date: 02/24/26 09:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	12.3	mg/kg	3.02	5.5236	6.02	124	75-125			
Barium	24.9	mg/kg	3.02	5.5236	13.1	235	75-125			S
Cadmium	5.41	mg/kg	1.21	5.5236	<0.166	96.0	75-125			
Chromium	13.0	mg/kg	3.02	5.5236	5.30	147	75-125			S
Copper	16.6	mg/kg	3.02	5.5236	8.61	158	75-125			S
Lead	11.5	mg/kg	3.02	5.5236	8.89	61.4	75-125			S
Selenium	5.63	mg/kg	3.02	5.5236	<2.54	103	75-125			
Silver	5.15	mg/kg	3.02	5.5236	<0.365	92.9	75-125			
Zinc	45.1	mg/kg	6.05	5	35.6	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465836

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3900582

MSD	CLIENT ID: Batch QC	Lab ID: QC-2465836-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 02/24/26 21:38
Prep Date: 02/24/26 09:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	11.4	mg/kg	3.14	5.7293	6.02	103	75-125	7.82	20	
Barium	25.2	mg/kg	3.14	5.7293	13.1	232	75-125	1.30	20	S
Cadmium	5.74	mg/kg	1.25	5.7293	<0.172	98.2	75-125	5.80	20	
Chromium	13.0	mg/kg	3.14	5.7293	5.30	143	75-125	0.598	20	S
Copper	16.5	mg/kg	3.14	5.7293	8.61	151	75-125	0.459	20	S
Lead	11.7	mg/kg	3.14	5.7293	8.89	62.4	75-125	1.56	20	S
Selenium	5.44	mg/kg	3.14	5.7293	<2.64	96.3	75-125	3.42	20	
Silver	5.35	mg/kg	3.14	5.7293	<0.378	93.1	75-125	3.89	20	
Zinc	43.4	mg/kg	6.27	5	35.6	NC	75-125	3.97	20	O

PDS	CLIENT ID: Batch QC	Lab ID: QC-2465836-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 02/24/26 21:41
Prep Date: 02/24/26 09:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	66.4	mg/kg	3.12	56.889	6.02	107	75-125			
Barium	76.7	mg/kg	3.12	56.889	13.1	114	75-125			
Cadmium	58.4	mg/kg	1.25	56.889	<0.171	103	75-125			
Chromium	63.2	mg/kg	3.12	56.889	5.30	103	75-125			
Copper	64.7	mg/kg	3.12	56.889	8.61	99.9	75-125			
Lead	70.7	mg/kg	3.12	56.889	8.89	110	75-125			
Selenium	60.8	mg/kg	3.12	56.889	<2.62	107	75-125			
Silver	46.5	mg/kg	3.12	56.889	<0.375	81.7	75-125			
Zinc	89.3	mg/kg	6.23	56.889	35.6	99.9	75-125			

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465962

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3906347

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2465962-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 02/25/26 11:27**Prep Date:** 02/24/26 14:37

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	28.1	µg/kg		33.33		84.2	53-151			
Surr: Tetrachloro-m-xylene	30.7	µg/kg		33.33		92.0	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2465962-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 02/25/26 11:40**Prep Date:** 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	30.5	µg/kg	10.0	33.33		91.5	55-141			
4,4'-DDE	31.9	µg/kg	10.0	33.33		95.7	55-143			
4,4'-DDT	29.8	µg/kg	10.0	33.33		89.4	50-144			
Aldrin	31.6	µg/kg	10.0	33.33		94.8	57-141			
alpha-BHC	28.5	µg/kg	10.0	33.33		85.5	58-144			
beta-BHC	29.6	µg/kg	10.0	33.33		88.7	55-147			
cis-Chlordane	31.0	µg/kg	10.0	33.33		93.0	58-142			
delta-BHC	25.2	µg/kg	10.0	33.33		75.6	59-142			
Dieldrin	31.7	µg/kg	10.0	33.33		95.2	59-142			
Endosulfan I	31.0	µg/kg	10.0	33.33		93.1	57-145			
Endosulfan II	30.9	µg/kg	10.0	33.33		92.7	58-138			
Endosulfan sulfate	29.9	µg/kg	10.0	33.33		89.7	54-136			
Endrin	31.7	µg/kg	10.0	33.33		95.0	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465962

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3906347

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2465962-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 02/25/26 11:40

Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	31.1	µg/kg	10.0	33.33		93.3	41-147			
Endrin ketone	29.8	µg/kg	10.0	33.33		89.3	54-146			
gamma-BHC (Lindane)	28.6	µg/kg	10.0	33.33		85.8	58-145			
Heptachlor	30.5	µg/kg	10.0	33.33		91.6	51-145			
Heptachlor epoxide	31.6	µg/kg	10.0	33.33		94.8	59-143			
Methoxychlor	28.7	µg/kg	10.0	33.33		86.2	43-144			
trans-Chlordane	30.4	µg/kg	10.0	33.33		91.1	56-145			
Surr: Decachlorobiphenyl	26.5	µg/kg		33.33		79.6	51-151			
Surr: Tetrachloro-m-xylene	29.7	µg/kg		33.33		89.2	67-127			

MS	CLIENT ID: 8087 SB01 (5-6')_20260218	Lab ID: QC-2465962-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 02/25/26 18:28

Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	77.1	µg/kg	27.6	80.507	<15.4	95.7	55-141			
4,4'-DDE	84.9	µg/kg	27.6	80.507	<15.9	106	55-143			
4,4'-DDT	83.2	µg/kg	27.6	80.507	<16.1	103	50-144			
Aldrin	78.3	µg/kg	27.6	80.507	<15.7	97.3	57-141			
alpha-BHC	71.4	µg/kg	27.6	80.507	<15.9	88.7	58-144			
beta-BHC	69.0	µg/kg	27.6	80.507	<15.9	85.7	55-147			
cis-Chlordane	100	µg/kg	27.6	80.507	<16.1	125	58-142			
delta-BHC	61.8	µg/kg	27.6	80.507	<15.8	76.7	59-142			
Dieldrin	91.5	µg/kg	27.6	80.507	<16.9	114	59-142			
Endosulfan I	109	µg/kg	27.6	80.507	<16.2	135	57-145			
Endosulfan II	79.9	µg/kg	27.6	80.507	<16.0	99.3	58-138			
Endosulfan sulfate	70.5	µg/kg	27.6	80.507	<14.9	87.6	54-135			
Endrin	82.2	µg/kg	27.6	80.507	<19.5	102	45-150			
Endrin aldehyde	84.8	µg/kg	27.6	80.507	<15.3	105	41-147			
Endrin ketone	74.8	µg/kg	27.6	80.507	<14.7	92.9	54-146			
gamma-BHC (Lindane)	72.7	µg/kg	27.6	80.507	<15.9	90.3	58-145			
Heptachlor	76.0	µg/kg	27.6	80.507	<15.6	94.4	51-145			
Heptachlor epoxide	93.8	µg/kg	27.6	80.507	<16.0	116	59-143			
Methoxychlor	86.2	µg/kg	27.6	80.507	<16.1	107	43-144			
trans-Chlordane	88.5	µg/kg	27.6	80.507	<16.0	110	56-145			
Surr: Decachlorobiphenyl	62.4	µg/kg		80.507		77.5	53-151			
Surr: Tetrachloro-m-xylene	69.5	µg/kg		80.507		86.4	67-127			

MSD	CLIENT ID: 8087 SB01 (5-6')_20260218	Lab ID: QC-2465962-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 02/25/26 18:43

Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	73.1	µg/kg	27.6	80.507	<15.4	90.8	55-141	5.31	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465962

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3906347

MSD	CLIENT ID: 8087 SB01 (5-6')_20260218	Lab ID: QC-2465962-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 02/25/26 18:43

Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	72.9	µg/kg	27.6	80.507	<15.9	90.6	55-143	15.2	20	
4,4'-DDT	77.8	µg/kg	27.6	80.507	<16.1	96.6	50-144	6.70	20	
Aldrin	78.9	µg/kg	27.6	80.507	<15.7	98.0	57-141	0.768	20	
alpha-BHC	71.5	µg/kg	27.6	80.507	<15.9	88.9	58-144	0.225	20	
beta-BHC	69.1	µg/kg	27.6	80.507	<15.9	85.9	55-147	0.233	20	
cis-Chlordane	106	µg/kg	27.6	80.507	<16.1	132	58-142	5.76	20	
delta-BHC	60.5	µg/kg	27.6	80.507	<15.8	75.2	59-142	2.04	20	
Dieldrin	79.5	µg/kg	27.6	80.507	<16.9	98.7	59-142	14.0	20	
Endosulfan I	116	µg/kg	27.6	80.507	<16.2	144	57-145	5.92	20	
Endosulfan II	77.0	µg/kg	27.6	80.507	<16.0	95.6	58-138	3.75	20	
Endosulfan sulfate	69.1	µg/kg	27.6	80.507	<14.9	85.9	54-135	2.02	20	
Endrin	79.2	µg/kg	27.6	80.507	<19.5	98.4	45-150	3.79	20	
Endrin aldehyde	82.9	µg/kg	27.6	80.507	<15.3	103	41-147	2.31	20	
Endrin ketone	74.1	µg/kg	27.6	80.507	<14.7	92.1	54-146	0.865	20	
gamma-BHC (Lindane)	70.1	µg/kg	27.6	80.507	<15.9	87.1	58-145	3.55	20	
Heptachlor	76.4	µg/kg	27.6	80.507	<15.6	95.0	51-145	0.634	20	
Heptachlor epoxide	91.9	µg/kg	27.6	80.507	<16.0	114	59-143	2.04	20	
Methoxychlor	73.7	µg/kg	27.6	80.507	<16.1	91.5	43-144	15.6	20	
trans-Chlordane	83.8	µg/kg	27.6	80.507	<16.0	104	56-145	5.51	20	
Surr: Decachlorobiphenyl	61.1	µg/kg		80.507		75.9	53-151	2.09	30	
Surr: Tetrachloro-m-xylene	72.1	µg/kg		80.507		89.6	67-127	3.64	30	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465961

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3906660

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB **CLIENT ID: Method Blank** **Lab ID: QC-2465961-001**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 02/25/26 10:49
Prep Date: 02/24/26 14:37

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	32.5	µg/kg		33.3		97.7	54-146			
Surr: Tetrachloro-m-xylene	31.8	µg/kg		33.3		95.4	58-140			

LCS **CLIENT ID: Laboratory Control Sample** **Lab ID: QC-2465961-002**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 02/25/26 11:01
Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	826	µg/kg	66.7	833		99.1	71-135			
Aroclor 1260	847	µg/kg	66.7	833		102	67-135			
Surr: Decachlorobiphenyl	32.5	µg/kg		33.3		97.6	54-146			
Surr: Tetrachloro-m-xylene	29.5	µg/kg		33.3		88.5	58-140			

MS **CLIENT ID: Batch QC** **Lab ID: QC-2465961-005**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 02/25/26 20:09
Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1800	µg/kg	184	2002.4	<55.0	89.9	71-135			
Aroclor 1260	1680	µg/kg	184	2002.4	<44.8	83.8	67-135			
Surr: Decachlorobiphenyl	79.8	µg/kg		80.048		99.7	54-146			
Surr: Tetrachloro-m-xylene	63.6	µg/kg		80.048		79.4	58-140			

MSD **CLIENT ID: Batch QC** **Lab ID: QC-2465961-006**

Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 02/25/26 20:21
Prep Date: 02/24/26 14:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1740	µg/kg	184	2002.4	<55.0	86.8	71-135	3.44	20	
Aroclor 1260	1710	µg/kg	184	2002.4	<44.8	85.4	67-135	1.81	20	
Surr: Decachlorobiphenyl	85.7	µg/kg		80.048		107	54-146	7.02	30	
Surr: Tetrachloro-m-xylene	60.5	µg/kg		80.048		75.6	58-140	4.97	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2465961

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3906660

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004
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Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2467436-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 02/25/26 15:59**Prep Date:** 02/25/26 09:16

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

MB	CLIENT ID: Method Blank	Lab ID: QC-2467436-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/25/26 15:59

Prep Date: 02/25/26 09:16

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	2740	µg/kg		3333		82.2	48-94			
Surr: 2-Fluorobiphenyl	2460	µg/kg		3333		73.7	50-103			
Surr: 2-Fluorophenol	2500	µg/kg		3333		75.0	43-105			
Surr: 4-Terphenyl-d14	2550	µg/kg		3333		76.5	55-111			
Surr: Nitrobenzene-d5	2810	µg/kg		3333		84.4	47-100			
Surr: Phenol-d6	2500	µg/kg		3333		75.1	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2467436-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/25/26 16:27

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1100	µg/kg	33.0	1333		82.3	57-101			
1,2,4,5-Tetrachlorobenzene	1160	µg/kg	33.0	1333		87.3	54-98			
1-Methylnaphthalene	1050	µg/kg	6.67	1333		78.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	899	µg/kg	33.0	1333		67.4	50-101			
2,3,4,6-Tetrachlorophenol	1170	µg/kg	67.0	1333		88.1	48-103			



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2467436-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/25/26 16:27

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	983	µg/kg	33.0	1333		73.7	54-98			
2,4,6-Trichlorophenol	979	µg/kg	33.0	1333		73.4	56-97			
2,4-Dichlorophenol	1030	µg/kg	33.0	1333		77.4	54-99			
2,4-Dimethylphenol	965	µg/kg	33.0	1333		72.4	47-102			
2,4-Dinitrophenol	823	µg/kg	333	1333		61.7	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1030	µg/kg	33.0	1333		77.1	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1030	µg/kg	33.0	1333		77.1	62-103			
2-Chloronaphthalene	885	µg/kg	6.67	1333		66.4	57-101			
2-Chlorophenol	934	µg/kg	33.0	1333		70.1	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1000	µg/kg	33.0	1333		75.1	42-104			
2-Methylnaphthalene	1040	µg/kg	6.67	1333		78.2	55-102			
2-Methylphenol (o-Cresol)	923	µg/kg	33.0	1333		69.3	54-103			
2-Nitroaniline	838	µg/kg	33.0	1333		62.9	57-103			
2-Nitrophenol	1040	µg/kg	33.0	1333		78.3	52-102			
3&4-Methylphenol	903	µg/kg	33.0	1333		67.8	56-103			
3,3'-Dichlorobenzidine	677	µg/kg	167	1333		50.8	41-91			
3-Nitroaniline	718	µg/kg	33.0	1333		53.9	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1050	µg/kg	33.0	1333		78.7	63-104			
4-Chloro-3-methylphenol	1030	µg/kg	33.0	1333		77.0	57-103			
4-Chloroaniline	1050	µg/kg	67.0	1333		78.6	32-99			
4-Chlorophenyl phenylether	1060	µg/kg	33.0	1333		79.2	62-100			
4-Nitroaniline	505	µg/kg	167	1333		37.9	19-124			
4-Nitrophenol	845	µg/kg	333	1333		63.4	44-106			
Acenaphthene	958	µg/kg	6.67	1333		71.9	60-101			
Acenaphthylene	987	µg/kg	6.67	1333		74.0	59-101			
Acetophenone	931	µg/kg	33.0	1333		69.8	54-102			
Anthracene	1000	µg/kg	6.67	1333		75.1	63-96			
Atrazine	1170	µg/kg	33.0	1333		87.9	60-110			
Benzaldehyde	259	µg/kg	67.0	1333		19.4	10-143			
Benzo(a)anthracene	969	µg/kg	6.67	1333		72.7	66-102			
Benzo(a)pyrene	1020	µg/kg	6.67	1333		76.3	66-105			
Benzo(b)fluoranthene	893	µg/kg	6.67	1333		67.0	67-105			
Benzo(g,h,i)perylene	981	µg/kg	6.67	1333		73.6	59-110			
Benzo(k)fluoranthene	1040	µg/kg	6.67	1333		77.9	68-106			
bis(2-Chloroethoxy)methane	983	µg/kg	33.0	1333		73.8	54-102			
bis(2-Chloroethyl) ether	930	µg/kg	33.0	1333		69.8	51-101			
Butyl benzyl phthalate	893	µg/kg	67.0	1333		67.0	59-107			
Caprolactam	845	µg/kg	33.0	1333		63.4	49-103			
Carbazole	979	µg/kg	33.0	1333		73.4	63-103			
Chrysene	1010	µg/kg	6.67	1333		75.5	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	925	µg/kg	33.0	1333		69.4	63-101			
Dibenz(a,h) anthracene	977	µg/kg	33.0	1333		73.3	61-109			
Dibenzofuran	999	µg/kg	33.0	1333		75.0	61-101			
Diethyl phthalate	1000	µg/kg	33.0	1333		75.4	63-105			



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2467436-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 02/25/26 16:27

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1020	µg/kg	33.0	1333		76.2	64-104			
Fluoranthene	1030	µg/kg	6.67	1333		77.5	66-105			
Fluorene	1000	µg/kg	6.67	1333		75.3	62-101			
Hexachlorobenzene	1080	µg/kg	33.0	1333		80.8	61-104			
Hexachlorobutadiene	1140	µg/kg	33.0	1333		85.7	52-99			
Hexachlorocyclopentadiene	878	µg/kg	33.0	1333		65.9	39-106			
Hexachloroethane	927	µg/kg	33.0	1333		69.5	59-99			
Indeno(1,2,3-cd) pyrene	1020	µg/kg	6.67	1333		76.6	57-114			
Isophorone	1010	µg/kg	167	1333		75.7	55-101			
Methylphenol, Total	1830	µg/kg	67.0	2667		68.5	54-103			
Naphthalene	1020	µg/kg	6.67	1333		76.6	54-99			
Nitrobenzene	1040	µg/kg	167	1333		77.7	53-100			
n-Nitrosodi-n-propylamine	918	µg/kg	33.0	1333		68.9	52-104			
N-Nitrosodiphenylamine	945	µg/kg	33.0	1333		70.9	61-104			
Pentachlorophenol	869	µg/kg	33.0	1333		65.2	35-100			
Phenanthrene	977	µg/kg	6.67	1333		73.3	64-101			
Phenol	915	µg/kg	33.0	1333		68.7	51-107			
Pyrene	972	µg/kg	6.67	1333		72.9	62-114			
Pyridine	861	µg/kg	167	1333		64.6	40-84			
Surr: 2,4,6-Tribromophenol	2830	µg/kg		3333		84.9	48-94			
Surr: 2-Fluorobiphenyl	2370	µg/kg		3333		71.0	50-103			
Surr: 2-Fluorophenol	2340	µg/kg		3333		70.2	43-105			
Surr: 4-Terphenyl-d14	2420	µg/kg		3333		72.6	55-111			
Surr: Nitrobenzene-d5	2780	µg/kg		3333		83.5	47-100			
Surr: Phenol-d6	2400	µg/kg		3333		72.1	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2467436-005
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Method: EPA 8270E

Dilution: 10

Analysis Date: 02/25/26 16:55

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2960	µg/kg	942	3305	<134	89.5	57-101			
1,2,4,5-Tetrachlorobenzene	<191	µg/kg	9500	3305	<191	97.5	54-98			U
1-Methylnaphthalene	2930	µg/kg	190	3305	<119	88.5	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2530	µg/kg	942	3305	<194	76.5	50-101			
2,3,4,6-Tetrachlorophenol	3060	µg/kg	1900	3305	<605	92.5	48-103			
2,4,5-Trichlorophenol	3320	µg/kg	942	3305	<490	101	54-98			S
2,4,6-Trichlorophenol	3070	µg/kg	942	3305	<220	93.0	56-97			
2,4-Dichlorophenol	2810	µg/kg	942	3305	<445	85.0	54-99			
2,4-Dimethylphenol	2460	µg/kg	942	3305	<425	74.5	47-102			
2,4-Dinitrophenol	<6040	µg/kg	9500	3305	<6040	46.5	10-100			U
2,4-Dinitrotoluene (2,4-DNT)	2640	µg/kg	942	3305	<537	80.0	62-105			
2,6-Dinitrotoluene (2,6-DNT)	2940	µg/kg	942	3305	<211	89.0	62-103			
2-Chloronaphthalene	2610	µg/kg	190	3305	<116	79.0	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

MS	CLIENT ID: Batch QC	Lab ID: QC-2467436-005
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Method: EPA 8270E

Dilution: 10

Analysis Date: 02/25/26 16:55

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	2580	µg/kg	942	3305	<541	78.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	2300	µg/kg	942	3305	<690	69.5	42-104			
2-Methylnaphthalene	3020	µg/kg	190	3305	<84.0	91.5	55-102			
2-Methylphenol (o-Cresol)	2600	µg/kg	942	3305	<223	78.5	54-103			
2-Nitroaniline	2300	µg/kg	942	3305	<459	69.5	57-103			
2-Nitrophenol	2910	µg/kg	942	3305	<236	88.0	52-102			
3&4-Methylphenol	2530	µg/kg	942	3305	<450	76.5	56-103			
3,3'-Dichlorobenzidine	<386	µg/kg	4760	3305	<386	47.0	41-91			U
3-Nitroaniline	2250	µg/kg	942	3305	<480	68.0	35-107			
4-Bromophenyl phenyl ether (BDE-3)	3040	µg/kg	942	3305	<453	92.0	63-104			
4-Chloro-3-methylphenol	2840	µg/kg	942	3305	<236	86.0	57-103			
4-Chloroaniline	<420	µg/kg	1900	3305	<420	41.5	32-99			U
4-Chlorophenyl phenylether	3020	µg/kg	942	3305	<228	91.5	62-100			
4-Nitroaniline	<1280	µg/kg	4760	3305	<1280	56.5	19-124			U
4-Nitrophenol	<1940	µg/kg	9500	3305	<1940	25.5	44-106			SU
Acenaphthene	2840	µg/kg	190	3305	<120	86.0	60-101			
Acenaphthylene	2930	µg/kg	190	3305	<143	88.5	59-101			
Acetophenone	2680	µg/kg	942	3305	<129	81.0	54-102			
Anthracene	2910	µg/kg	190	3305	<117	88.0	63-96			
Atrazine	3060	µg/kg	942	3305	<484	92.5	60-110			
Benzaldehyde	<1270	µg/kg	1900	3305	<1270	22.0	10-143			U
Benzo(a)anthracene	3390	µg/kg	190	3305	1210	70.6	66-102			
Benzo(a)pyrene	3570	µg/kg	190	3305	1360	72.3	66-105			
Benzo(b)fluoranthene	3600	µg/kg	190	3305	1840	60.7	67-105			S
Benzo(g,h,i)perylene	3060	µg/kg	190	3305	956	67.4	59-110			
Benzo(k)fluoranthene	3320	µg/kg	190	3305	717	81.7	68-106			
bis(2-Chloroethoxy)methane	2530	µg/kg	942	3305	<523	76.5	54-102			
bis(2-Chloroethyl) ether	2560	µg/kg	942	3305	<234	77.5	51-101			
Butyl benzyl phthalate	2630	µg/kg	1900	3305	<1030	79.5	59-107			
Caprolactam	2030	µg/kg	942	3305	<746	61.5	49-103			
Carbazole	2810	µg/kg	942	3305	<244	85.0	63-103			
Chrysene	3470	µg/kg	190	3305	1180	74.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2880	µg/kg	942	3305	<684	87.0	63-101			
Dibenz(a,h) anthracene	2580	µg/kg	942	3305	221	72.2	61-109			
Dibenzofuran	2840	µg/kg	942	3305	<121	86.0	61-101			
Diethyl phthalate	2830	µg/kg	942	3305	<281	85.5	63-105			
Dimethyl phthalate	2830	µg/kg	942	3305	<161	85.5	64-104			
Fluoranthene	3800	µg/kg	190	3305	1890	65.2	66-105			S
Fluorene	2990	µg/kg	190	3305	<120	90.5	62-101			
Hexachlorobenzene	3160	µg/kg	942	3305	<240	95.5	61-104			
Hexachlorobutadiene	3190	µg/kg	942	3305	<195	96.5	52-99			
Hexachlorocyclopentadiene	1650	µg/kg	942	3305	<808	50.0	39-106			
Hexachloroethane	2640	µg/kg	942	3305	<342	80.0	59-99			
Indeno(1,2,3-cd) pyrene	3820	µg/kg	190	3305	1140	85.6	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

MS	CLIENT ID: Batch QC				Lab ID: QC-2467436-005					
Method: EPA 8270E			Dilution: 10		Analysis Date: 02/25/26 16:55					
Prep Date: 02/25/26 09:16										
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	<161	µg/kg	4760	3305	<161	80.0	55-101			U
Methylphenol, Total	5120	µg/kg	942	6612.4	<223	77.5	54-103			
Naphthalene	2880	µg/kg	190	3305	<106	87.0	54-99			
Nitrobenzene	<278	µg/kg	4760	3305	<278	83.5	53-100			U
n-Nitrosodi-n-propylamine	2450	µg/kg	942	3305	<136	74.0	52-104			
N-Nitrosodiphenylamine	2880	µg/kg	942	3305	<479	87.0	61-104			
Pentachlorophenol	2380	µg/kg	942	3305	<657	72.0	35-100			
Phenanthrene	3060	µg/kg	190	3305	386	82.4	64-101			
Phenol	2450	µg/kg	942	3305	<415	74.0	51-107			
Pyrene	3790	µg/kg	190	3305	1820	66.7	52-114			
Pyridine	<1630	µg/kg	4760	3305	<1630	76.5	40-84			U
Surr: 2,4,6-Tribromophenol	8050	µg/kg		8263.6		97.4	48-94			S
Surr: 2-Fluorobiphenyl	6890	µg/kg		8263.6		83.4	50-103			
Surr: 2-Fluorophenol	6280	µg/kg		8263.6		76.0	43-105			
Surr: 4-Terphenyl-d14	6980	µg/kg		8263.6		84.4	55-111			
Surr: Nitrobenzene-d5	6830	µg/kg		8263.6		82.6	47-100			
Surr: Phenol-d6	6360	µg/kg		8263.6		77.0	49-110			

MSD		CLIENT ID: Batch QC				Lab ID: QC-2467436-006				
Method: EPA 8270E			Dilution: 10			Analysis Date: 02/25/26 17:24				
Prep Date: 02/25/26 09:16										
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2680	µg/kg	904	3173.8	<129	84.5	57-101	9.79	30	
1,2,4,5-Tetrachlorobenzene	<183	µg/kg	9130	3173.8	<183	91.5	54-98	NC		U
1-Methylnaphthalene	2600	µg/kg	183	3173.8	<114	82.0	56-100	11.7	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2300	µg/kg	904	3173.8	<186	72.5	50-101	9.41	30	
2,3,4,6-Tetrachlorophenol	3160	µg/kg	1830	3173.8	<581	99.5	48-103	3.25	30	
2,4,5-Trichlorophenol	2970	µg/kg	904	3173.8	<470	93.5	54-98	11.3	30	
2,4,6-Trichlorophenol	2780	µg/kg	904	3173.8	<211	87.5	56-97	10.1	30	
2,4-Dichlorophenol	2600	µg/kg	904	3173.8	<427	82.0	54-99	7.64	30	
2,4-Dimethylphenol	2410	µg/kg	904	3173.8	<408	76.0	47-102	2.06	30	
2,4-Dinitrophenol	<5800	µg/kg	9130	3173.8	<5800	37.5	10-100	NC		U
2,4-Dinitrotoluene (2,4-DNT)	2540	µg/kg	904	3173.8	<515	80.0	62-105	4.05	30	
2,6-Dinitrotoluene (2,6-DNT)	2680	µg/kg	904	3173.8	<203	84.5	62-103	9.23	30	
2-Chloronaphthalene	2430	µg/kg	183	3173.8	<111	76.5	57-101	7.26	30	
2-Chlorophenol	2400	µg/kg	904	3173.8	<519	75.5	52-102	7.30	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1790	µg/kg	904	3173.8	<663	56.5	42-104	24.6	30	
2-Methylnaphthalene	2630	µg/kg	183	3173.8	<80.7	83.0	55-102	13.8	30	
2-Methylphenol (o-Cresol)	2320	µg/kg	904	3173.8	<215	73.0	54-103	11.3	30	
2-Nitroaniline	2140	µg/kg	904	3173.8	<441	67.5	57-103	6.97	30	
2-Nitrophenol	2620	µg/kg	904	3173.8	<226	82.5	52-102	10.5	30	
3&4-Methylphenol	2370	µg/kg	904	3173.8	<433	74.5	56-103	6.70	30	
3,3'-Dichlorobenzidine	<370	µg/kg	4570	3173.8	<370	61.0	41-91	0		U

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

MSD	CLIENT ID: Batch QC	Lab ID: QC-2467436-006
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Method: EPA 8270E

Dilution: 10

Analysis Date: 02/25/26 17:24

Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	2190	µg/kg	904	3173.8	<461	69.0	35-107	2.59	30	
4-Bromophenyl phenyl ether (BDE-3)	2870	µg/kg	904	3173.8	<435	90.5	63-104	5.69	30	
4-Chloro-3-methylphenol	2560	µg/kg	904	3173.8	<226	80.5	57-103	10.6	30	
4-Chloroaniline	<403	µg/kg	1830	3173.8	<403	46.0	32-99	NC		U
4-Chlorophenyl phenylether	2750	µg/kg	904	3173.8	<219	86.5	62-100	9.66	30	
4-Nitroaniline	<1230	µg/kg	4570	3173.8	<1230	58.0	19-124	0		U
4-Nitrophenol	<1860	µg/kg	9130	3173.8	<1860	24.0	44-106	NC		US
Acenaphthene	2540	µg/kg	183	3173.8	<115	80.0	60-101	11.3	30	
Acenaphthylene	2730	µg/kg	183	3173.8	<138	86.0	59-101	6.91	30	
Acetophenone	2380	µg/kg	904	3173.8	<124	75.0	54-102	11.7	30	
Anthracene	2700	µg/kg	183	3173.8	<112	85.0	63-96	7.51	30	
Atrazine	2790	µg/kg	904	3173.8	<465	88.0	60-110	9.03	30	
Benzaldehyde	<1220	µg/kg	1830	3173.8	<1220	21.5	10-143	NC		U
Benzo(a)anthracene	3560	µg/kg	183	3173.8	1210	78.8	66-102	4.81	30	
Benzo(a)pyrene	3710	µg/kg	183	3173.8	1360	79.8	66-105	3.95	30	
Benzo(b)fluoranthene	3780	µg/kg	183	3173.8	1840	68.7	67-105	4.73	30	
Benzo(g,h,i)perylene	3100	µg/kg	183	3173.8	956	71.4	59-110	1.22	30	
Benzo(k)fluoranthene	3400	µg/kg	183	3173.8	717	87.4	68-106	2.22	30	
bis(2-Chloroethoxy)methane	2300	µg/kg	904	3173.8	<503	72.5	54-102	9.41	30	
bis(2-Chloroethyl) ether	2430	µg/kg	904	3173.8	<225	76.5	51-101	5.35	30	
Butyl benzyl phthalate	2480	µg/kg	1830	3173.8	<994	78.0	59-107	5.95	30	
Caprolactam	1970	µg/kg	904	3173.8	<716	62.0	49-103	3.24	30	
Carbazole	2630	µg/kg	904	3173.8	<234	83.0	63-103	6.43	30	
Chrysene	3590	µg/kg	183	3173.8	1180	80.8	66-105	3.29	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	2670	µg/kg	904	3173.8	<656	84.0	63-101	7.55	30	
Dibenz(a,h) anthracene	2570	µg/kg	904	3173.8	221	75.0	61-109	0.275	30	
Dibenzofuran	2650	µg/kg	904	3173.8	<117	83.5	61-101	7.00	30	
Diethyl phthalate	2650	µg/kg	904	3173.8	<270	83.5	63-105	6.41	30	
Dimethyl phthalate	2600	µg/kg	904	3173.8	<155	82.0	64-104	8.22	30	
Fluoranthene	4060	µg/kg	183	3173.8	1890	76.2	66-105	6.66	30	
Fluorene	2700	µg/kg	183	3173.8	<115	85.0	62-101	10.3	30	
Hexachlorobenzene	2940	µg/kg	904	3173.8	<231	92.5	61-104	7.24	30	
Hexachlorobutadiene	2870	µg/kg	904	3173.8	<187	90.5	52-99	10.5	30	
Hexachlorocyclopentadiene	1400	µg/kg	904	3173.8	<776	44.0	39-106	16.8	30	
Hexachloroethane	2270	µg/kg	904	3173.8	<329	71.5	59-99	15.3	30	
Indeno(1,2,3-cd) pyrene	3980	µg/kg	183	3173.8	1140	94.3	57-114	4.25	30	
Isophorone	<155	µg/kg	4570	3173.8	<155	75.0	55-101	0		U
Methylphenol, Total	4680	µg/kg	904	6350	<215	73.7	54-103	9.00	30	
Naphthalene	2600	µg/kg	183	3173.8	<101	82.0	54-99	9.96	30	
Nitrobenzene	<267	µg/kg	4570	3173.8	<267	79.5	53-100	0		U
n-Nitrosodi-n-propylamine	2270	µg/kg	904	3173.8	<131	71.5	52-104	7.48	30	
N-Nitrosodiphenylamine	2620	µg/kg	904	3173.8	<460	82.5	61-104	9.35	30	
Pentachlorophenol	2240	µg/kg	904	3173.8	<630	70.5	35-100	6.15	30	
Phenanthrene	2890	µg/kg	183	3173.8	386	80.5	64-101	5.68	30	
Phenol	2270	µg/kg	904	3173.8	<399	71.5	51-107	7.48	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2467436

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3904096

MSD	CLIENT ID: Batch QC	Lab ID: QC-2467436-006
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Method: EPA 8270E **Dilution:** 10 **Analysis Date:** 02/25/26 17:24
Prep Date: 02/25/26 09:16

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	3900	µg/kg	183	3173.8	1820	73.2	52-114	3.11	30	
Pyridine	<1560	µg/kg	4570	3173.8	<1560	71.0	40-84	0		U
Surr: 2,4,6-Tribromophenol	7620	µg/kg		7935.7		96.0	48-94	5.50	30	S
Surr: 2-Fluorobiphenyl	6190	µg/kg		7935.7		78.0	50-103	10.7	30	
Surr: 2-Fluorophenol	5750	µg/kg		7935.7		72.4	43-105	8.90	30	
Surr: 4-Terphenyl-d14	6430	µg/kg		7935.7		81.0	55-111	8.16	30	
Surr: Nitrobenzene-d5	6140	µg/kg		7935.7		77.4	47-100	10.5	30	
Surr: Phenol-d6	5670	µg/kg		7935.7		71.4	49-110	11.6	30	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2460255-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 01:54

Prep Date: 02/19/26 11:24

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



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

MB	CLIENT ID: Method Blank	Lab ID: QC-2460255-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 01:54

Prep Date: 02/19/26 11:24

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	1010	µg/kg		1000		101	80-120			
Surr: 4-Bromofluorobenzene	1030	µg/kg		1000		103	80-120			
Surr: Dibromofluoromethane	977	µg/kg		1000		97.7	72-120			
Surr: Toluene-d8	954	µg/kg		1000		95.4	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2460255-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 00:59

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	892	µg/kg	30.0	1000		89.2	75-121			
1,1,2,2-Tetrachloroethane	958	µg/kg	30.0	1000		95.8	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	930	µg/kg	30.0	1000		93.0	62-129			
1,1,2-Trichloroethane	955	µg/kg	30.0	1000		95.5	80-123			
1,1-Dichloroethane	1000	µg/kg	30.0	1000		100	74-124			
1,1-Dichloroethylene	974	µg/kg	30.0	1000		97.4	68-131			
1,2,3-Trichlorobenzene	970	µg/kg	100	1000		97.0	60-135			
1,2,3-Trichloropropane	1010	µg/kg	30.0	1000		101	77-121			
1,2,4-Trichlorobenzene	946	µg/kg	100	1000		94.6	63-130			
1,2,4-Trimethylbenzene	961	µg/kg	30.0	1000		96.1	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	900	µg/kg	100	1000		90.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1020	µg/kg	30.0	1000		102	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	942	µg/kg	30.0	1000		94.2	77-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2460255-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 00:59

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	974	µg/kg	100	1000		97.4	70-130			
1,2-Dichloropropane	954	µg/kg	30.0	1000		95.4	71-130			
1,3,5-Trimethylbenzene	1000	µg/kg	100	1000		100	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	935	µg/kg	30.0	1000		93.5	78-121			
1,3-Dichloropropene	1790	µg/kg	60.0	2000		89.6	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	942	µg/kg	30.0	1000		94.2	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1090	µg/kg	200	1000		109	47-164			
2-Hexanone	1070	µg/kg	30.0	1000		107	70-137			
4-Methyl-2-pentanone (MIBK)	1550	µg/kg	30.0	1000		155	57-200			
Acetone	1180	µg/kg	100	1000		118	52-190			
Benzene	947	µg/kg	30.0	1000		94.7	78-122			
Bromochloromethane	1010	µg/kg	30.0	1000		101	68-130			
Bromodichloromethane	934	µg/kg	30.0	1000		93.4	75-125			
Bromoform	883	µg/kg	30.0	1000		88.3	59-120			
Carbon disulfide	896	µg/kg	30.0	1000		89.6	60-163			
Carbon tetrachloride	898	µg/kg	30.0	1000		89.8	69-123			
Chlorobenzene	974	µg/kg	30.0	1000		97.4	79-120			
Chlorodibromomethane	936	µg/kg	30.0	1000		93.6	57-123			
Chloroethane (Ethyl chloride)	840	µg/kg	100	1000		84.0	38-132			
Chloroform	942	µg/kg	30.0	1000		94.2	72-122			
cis-1,2-Dichloroethylene	987	µg/kg	30.0	1000		98.7	74-125			
cis-1,3-Dichloropropene	896	µg/kg	30.0	1000		89.6	62-124			
Dichlorodifluoromethane (Freon-12)	460	µg/kg	100	1000		46.0	28-137			
Ethylbenzene	973	µg/kg	30.0	1000		97.3	75-121			
Isopropylbenzene	988	µg/kg	30.0	1000		98.8	74-121			
m+p-Xylene	2060	µg/kg	60.0	2000		103	67-129			
Methyl acetate	918	µg/kg	250	1000		91.8	61-125			
Methyl bromide (Bromomethane)	688	µg/kg	100	1000		68.8	31-169			
Methyl chloride (Chloromethane)	780	µg/kg	100	1000		78.0	24-119			
Methyl tert-butyl ether (MTBE)	964	µg/kg	30.0	1000		96.4	79-139			
Methylene chloride (Dichloromethane)	1000	µg/kg	250	1000		100	62-135			
o-Xylene	989	µg/kg	30.0	1000		98.9	75-120			
Styrene	1010	µg/kg	30.0	1000		101	74-126			
Tetrachloroethylene (Perchloroethylene)	1360	µg/kg	30.0	1000		136	76-128			S
Toluene	968	µg/kg	30.0	1000		96.8	76-120			
Total Xylene	3040	µg/kg	90.0	3000		101	67-129			
trans-1,2-Dichloroethylene	978	µg/kg	30.0	1000		97.8	72-127			
trans-1,3-Dichloropropylene	895	µg/kg	30.0	1000		89.5	66-120			
Trichloroethene (Trichloroethylene)	958	µg/kg	30.0	1000		95.8	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	778	µg/kg	30.0	1000		77.8	51-115			
Vinyl chloride (Chloroethene)	714	µg/kg	30.0	1000		71.4	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2460255-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 00:59

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	1010	µg/kg		1000		101	80-120			
Surr: 4-Bromofluorobenzene	974	µg/kg		1000		97.4	80-120			
Surr: Dibromofluoromethane	971	µg/kg		1000		97.1	72-120			
Surr: Toluene-d8	1020	µg/kg		1000		102	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2460255-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 08:44

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1090	µg/kg	40.3	1011.1	<13.8	108	75-121			
1,1,2,2-Tetrachloroethane	800	µg/kg	40.3	1011.1	<13.4	79.1	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1100	µg/kg	40.3	1011.1	<19.2	109	62-129			
1,1,2-Trichloroethane	1070	µg/kg	40.3	1011.1	<12.9	106	80-123			
1,1-Dichloroethane	1130	µg/kg	40.3	1011.1	<11.1	111	74-124			
1,1-Dichloroethylene	1200	µg/kg	40.3	1011.1	<9.83	119	68-131			
1,2,3-Trichlorobenzene	1010	µg/kg	134	1011.1	<36.4	99.7	60-135			
1,2,3-Trichloropropane	1050	µg/kg	40.3	1011.1	<12.7	103	77-121			
1,2,4-Trichlorobenzene	979	µg/kg	134	1011.1	<34.4	96.8	63-130			
1,2,4-Trimethylbenzene	1030	µg/kg	40.3	1011.1	<22.2	102	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	941	µg/kg	134	1011.1	<27.9	93.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1070	µg/kg	40.3	1011.1	<17.8	105	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	1100	µg/kg	40.3	1011.1	<11.5	109	77-122			
1,2-Dichloroethane (Ethylene dichloride)	1070	µg/kg	134	1011.1	<26.6	106	70-130			
1,2-Dichloropropane	1100	µg/kg	40.3	1011.1	<22.4	109	71-130			
1,3,5-Trimethylbenzene	1060	µg/kg	134	1011.1	<21.4	105	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1020	µg/kg	40.3	1011.1	<21.0	101	78-121			
1,3-Dichloropropene	1880	µg/kg	80.6	2022.2	<16.9	92.7	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1060	µg/kg	40.3	1011.1	<24.7	104	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1240	µg/kg	269	1011.1	<72.2	123	47-164			
2-Hexanone	1340	µg/kg	40.3	1011.1	<15.0	132	70-137			
4-Methyl-2-pentanone (MIBK)	1500	µg/kg	40.3	1011.1	<28.3	148	57-200			
Acetone	2280	µg/kg	134	1011.1	<90.0	226	52-190			
Benzene	1150	µg/kg	40.3	1011.1	<14.7	113	78-122			
Bromochloromethane	1180	µg/kg	40.3	1011.1	<15.4	117	68-130			
Bromodichloromethane	1050	µg/kg	40.3	1011.1	<17.0	104	75-125			
Bromoform	938	µg/kg	40.3	1011.1	<12.8	92.8	59-120			
Carbon disulfide	1080	µg/kg	40.3	1011.1	<15.7	106	60-163			
Carbon tetrachloride	1070	µg/kg	40.3	1011.1	<11.9	106	69-123			
Chlorobenzene	1030	µg/kg	40.3	1011.1	<10.1	102	79-120			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

MS	CLIENT ID: Batch QC	Lab ID: QC-2460255-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 08:44

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	987	µg/kg	40.3	1011.1	<17.0	97.6	57-123			
Chloroethane (Ethyl chloride)	762	µg/kg	134	1011.1	<84.9	75.4	38-132			
Chloroform	1070	µg/kg	40.3	1011.1	<11.1	106	72-122			
cis-1,2-Dichloroethylene	1120	µg/kg	40.3	1011.1	<19.5	111	74-125			
cis-1,3-Dichloropropene	970	µg/kg	40.3	1011.1	<22.9	96.0	62-124			
Dichlorodifluoromethane (Freon-12)	1020	µg/kg	134	1011.1	<36.7	101	28-137			
Ethylbenzene	1130	µg/kg	40.3	1011.1	<21.5	111	75-121			
Isopropylbenzene	1090	µg/kg	40.3	1011.1	<19.2	108	74-121			
m+p-Xylene	2170	µg/kg	80.6	2022.2	<40.4	108	67-129			
Methyl acetate	1360	µg/kg	336	1011.1	<36.3	134	61-125			S
Methyl bromide (Bromomethane)	565	µg/kg	134	1011.1	<58.0	55.9	31-169			
Methyl chloride (Chloromethane)	1330	µg/kg	134	1011.1	<82.9	132	24-119			S
Methyl tert-butyl ether (MTBE)	1110	µg/kg	40.3	1011.1	<22.1	110	79-139			
Methylene chloride (Dichloromethane)	661	µg/kg	336	1011.1	<80.5	65.4	62-135			
o-Xylene	1130	µg/kg	40.3	1011.1	<11.7	112	75-120			
Styrene	1080	µg/kg	40.3	1011.1	<12.0	107	74-126			
Tetrachloroethylene (Perchloroethylene)	1940	µg/kg	40.3	1011.1	<18.3	192	76-128			S
Toluene	1070	µg/kg	40.3	1011.1	<25.0	106	76-120			
Total Xylene	3300	µg/kg	121	3033.4	<11.7	109	67-129			
trans-1,2-Dichloroethylene	1130	µg/kg	40.3	1011.1	<25.0	112	72-127			
trans-1,3-Dichloropropylene	905	µg/kg	40.3	1011.1	<16.9	89.5	66-120			
Trichloroethene (Trichloroethylene)	1240	µg/kg	40.3	1011.1	<13.6	123	75-122			S
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	897	µg/kg	40.3	1011.1	<15.5	88.7	51-115			
Vinyl chloride (Chloroethene)	1100	µg/kg	40.3	1011.1	<20.2	108	43-128			
Surr: 1,2-Dichloroethane-d4	1050	µg/kg		1011.1		103	80-120			
Surr: 4-Bromofluorobenzene	1020	µg/kg		1011.1		101	80-120			
Surr: Dibromofluoromethane	1020	µg/kg		1011.1		101	72-120			
Surr: Toluene-d8	1050	µg/kg		1011.1		104	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2460255-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 09:03

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1040	µg/kg	40.3	1011.1	<13.8	103	75-121	4.70	30	
1,1,2,2-Tetrachloroethane	810	µg/kg	40.3	1011.1	<13.4	80.2	79-125	1.32	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1130	µg/kg	40.3	1011.1	<19.2	112	62-129	2.71	30	
1,1,2-Trichloroethane	973	µg/kg	40.3	1011.1	<12.9	96.2	80-123	9.93	30	
1,1-Dichloroethane	1160	µg/kg	40.3	1011.1	<11.1	115	74-124	3.01	30	
1,1-Dichloroethylene	1220	µg/kg	40.3	1011.1	<9.83	121	68-131	1.84	30	
1,2,3-Trichlorobenzene	990	µg/kg	134	1011.1	<36.4	98.0	60-135	1.77	30	
1,2,3-Trichloropropane	998	µg/kg	40.3	1011.1	<12.7	98.7	77-121	4.65	30	
1,2,4-Trichlorobenzene	948	µg/kg	134	1011.1	<34.4	93.8	63-130	3.20	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

MSD	CLIENT ID: Batch QC	Lab ID: QC-2460255-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 09:03

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1040	µg/kg	40.3	1011.1	<22.2	103	64-126	1.56	30	
1,2-Dibromo-3-chloropropane (DBCP)	868	µg/kg	134	1011.1	<27.9	85.8	55-135	8.11	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	1050	µg/kg	40.3	1011.1	<17.8	104	63-155	1.29	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	984	µg/kg	40.3	1011.1	<11.5	97.4	77-122	11.2	30	
1,2-Dichloroethane (Ethylene dichloride)	1070	µg/kg	134	1011.1	<26.6	106	70-130	0.0472	30	
1,2-Dichloropropane	1090	µg/kg	40.3	1011.1	<22.4	108	71-130	0.784	30	
1,3,5-Trimethylbenzene	1090	µg/kg	134	1011.1	<21.4	108	66-130	2.40	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	996	µg/kg	40.3	1011.1	<21.0	98.6	78-121	2.60	30	
1,3-Dichloropropene	1810	µg/kg	80.6	2022.2	<16.9	89.4	62-124	3.62	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	958	µg/kg	40.3	1011.1	<24.7	94.8	78-122	9.74	30	
2-Butanone (Methyl ethyl ketone, MEK)	1300	µg/kg	269	1011.1	<72.2	128	47-164	4.58	30	
2-Hexanone	1360	µg/kg	40.3	1011.1	<15.0	134	70-137	1.47	30	
4-Methyl-2-pentanone (MIBK)	1430	µg/kg	40.3	1011.1	<28.3	141	57-200	5.05	30	
Acetone	2230	µg/kg	134	1011.1	<90.0	220	52-190	2.49	30	S
Benzene	1130	µg/kg	40.3	1011.1	<14.7	112	78-122	1.69	30	
Bromochloromethane	1130	µg/kg	40.3	1011.1	<15.4	111	68-130	4.78	30	
Bromodichloromethane	1040	µg/kg	40.3	1011.1	<17.0	103	75-125	1.55	30	
Bromoform	881	µg/kg	40.3	1011.1	<12.8	87.1	59-120	6.28	30	
Carbon disulfide	1140	µg/kg	40.3	1011.1	<15.7	112	60-163	5.53	30	
Carbon tetrachloride	1040	µg/kg	40.3	1011.1	<11.9	103	69-123	2.87	30	
Chlorobenzene	1040	µg/kg	40.3	1011.1	<10.1	103	79-120	1.02	30	
Chlorodibromomethane	937	µg/kg	40.3	1011.1	<17.0	92.6	57-123	5.25	30	
Chloroethane (Ethyl chloride)	724	µg/kg	134	1011.1	<84.9	71.6	38-132	5.10	30	
Chloroform	1050	µg/kg	40.3	1011.1	<11.1	104	72-122	1.71	30	
cis-1,2-Dichloroethylene	1120	µg/kg	40.3	1011.1	<19.5	110	74-125	0.0452	30	
cis-1,3-Dichloropropene	939	µg/kg	40.3	1011.1	<22.9	92.9	62-124	3.23	30	
Dichlorodifluoromethane (Freon-12)	1060	µg/kg	134	1011.1	<36.7	105	28-137	3.78	30	
Ethylbenzene	1100	µg/kg	40.3	1011.1	<21.5	109	75-121	1.95	30	
Isopropylbenzene	1090	µg/kg	40.3	1011.1	<19.2	108	74-121	0.603	30	
m+p-Xylene	2240	µg/kg	80.6	2022.2	<40.4	111	67-129	3.11	30	
Methyl acetate	1430	µg/kg	336	1011.1	<36.3	141	61-125	4.87	30	S
Methyl bromide (Bromomethane)	587	µg/kg	134	1011.1	<58.0	58.1	31-169	3.86	30	
Methyl chloride (Chloromethane)	1340	µg/kg	134	1011.1	<82.9	133	24-119	0.756	30	S
Methyl tert-butyl ether (MTBE)	1090	µg/kg	40.3	1011.1	<22.1	108	79-139	2.07	30	
Methylene chloride (Dichloromethane)	668	µg/kg	336	1011.1	<80.5	66.1	62-135	1.14	30	
o-Xylene	1100	µg/kg	40.3	1011.1	<11.7	109	75-120	2.40	30	
Styrene	1060	µg/kg	40.3	1011.1	<12.0	105	74-126	1.93	30	
Tetrachloroethylene (Perchloroethylene)	1880	µg/kg	40.3	1011.1	<18.3	186	76-128	2.91	30	S
Toluene	1040	µg/kg	40.3	1011.1	<25.0	103	76-120	3.26	30	
Total Xylene	3350	µg/kg	121	3033.4	<11.7	110	67-129	1.26	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 8087 Vanderbilt
Matrix: SOIL/SOLID
QC Lot: 2460255

Work Order: HN2602493
Date Collected: NA
Date Received: NA
Run ID: 3899494

MSD	CLIENT ID: Batch QC	Lab ID: QC-2460255-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 02/24/26 09:03

Prep Date: 02/19/26 11:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	1180	µg/kg	40.3	1011.1	<25.0	116	72-127	4.08	30	
trans-1,3-Dichloropropylene	869	µg/kg	40.3	1011.1	<16.9	86.0	66-120	4.05	30	
Trichloroethene (Trichloroethylene)	1240	µg/kg	40.3	1011.1	<13.6	123	75-122	0.163	30	S
Trichlorofluoromethane	929	µg/kg	40.3	1011.1	<15.5	91.8	51-115	3.49	30	
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	1110	µg/kg	40.3	1011.1	<20.2	110	43-128	1.33	30	
Surr: 1,2-Dichloroethane-d4	997	µg/kg		1011.1		98.6	80-120	4.75	30	
Surr: 4-Bromofluorobenzene	1050	µg/kg		1011.1		104	80-120	3.07	30	
Surr: Dibromofluoromethane	981	µg/kg		1011.1		97.0	72-120	3.84	30	
Surr: Toluene-d8	1000	µg/kg		1011.1		99.4	80-120	4.14	30	

The following samples were analyzed in this batch: HN2602493-001, HN2602493-002, HN2602493-003, HN2602493-004