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FILL MATERIAL SAMPLING REPORT

3044 PENNSYLVANIA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



FEBRUARY 12, 2026
REVISED: APRIL 20, 2026

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

3044 PENNSYLVANIA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 3044 Pennsylvania 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 3044 SB01, 3044 SB02, and 3044 SB03 generally consisted of tan to dark brown and gray sand and silty clay to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick debris was observed in 3044 SB03.
- Concentrations of arsenic, cadmium, chromium (Total), copper, lead, mercury, phenanthrene, and zinc were detected in soil samples 3044 SB01 (5-6')_20260114 and/or 3044 SB02 (3-4')_20260114 in excess of their respective Part 201 groundwater surface water interface protection criteria (GSIPC), drinking water protection criteria (DWPC), direct contact criteria (DCC), and/or particulate soil inhalation criteria (PSIC).
- Concentrations of mercury, naphthalene, and phenanthrene were detected in soil sample 3044 SB02 (3-4')_20260114 in excess of their respective soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 4,4'-DDD, 4-4'-DDE, 1-methylnaphthalene, 2-methylnaphthalene, 3 & 4-methylphenol, acenaphthene, acetophenone, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, cadmium, chromium (Total), chrysene, copper, cresols (Total), fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, and zinc were detected in soil samples 3044 SB01 (5-6')_20260114, 3044 SB02 (3-4')_20260114, and/or 3044 SB03 (1-2')_20260114 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of chromium and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs, PCBs, chloride, 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 soil volatilization to indoor air pathway (SVIAP) is not currently complete, however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 3044 Pennsylvania Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on January 14, 2026, and April 2, 2026. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

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

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

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on January 14, 2026, and April 2, 2026. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports*.

3.1 Preliminary Site Work Activities

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

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 3044 SB01, 3044 SB02, and 3044 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during the completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On April 2, 2026, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC and/or applicable Toxicity Characteristic Constituents and Regulatory Levels. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. The soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

3.4 Decontamination

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

3.5 Analytical Methods

A total of three (3) soil samples designated 3044 SB01 (1-2')_20260114, 3044 SB02 (3-4')_20260114, and 3044 SB03 (5-6')_20260114, were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters

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

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on January 14, 2026.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 3044 SB01, 3044 SB02, and 3044 SB03 generally consisted of tan to dark brown and gray sand and silty clay to six (6) feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores were below instrument detection limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 3044 SB01 (1-2')_20260114, 3044 SB02 (3-4')_20260114, and 3044 SB03 (5-6')_20260114, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	3044 SB01 (5-6')_20260114 3044 SB02 (3-4')_20260114	GSIPC ² / 4,600 DWPC ³ / 4,600	12,400

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
			DCC ⁴ / 7,600	
Cadmium	7440-39-3	3044 SB02 (3-4)_20260114	GSIPC / 3,600	5,380
Chromium (Total)	7440-47-3	3044 SB01 (5-6)_20260114 3044 SB02 (3-4)_20260114	GSIPC / 3,000 DWPC / 30,000 PSIC ⁵ / 260,000	405,000
Copper	744050-8	3044 SB02 (3-4)_20260114	GSIPC / 75,000	88,000
Lead	7439-92-1	3044 SB02 (3-4)_20260114	DCC / 400,000	469,000
Mercury	7439-97-6	3044 SB02 (3-4)_20260114	GSIPC / 50	444
Phenanthrene	85-01-8	3044 SB02 (3-4)_20260114	GSIPC / 2,100	3,310
Zinc	7440-66-6	3044 SB02 (3-4)_20260114	GSIPC / 160,000	263,000

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

³DWPC – Drinking Water Protection Criteria

⁴DCC – Direct Contact Criteria

⁵PSIC -Particulate Soil Inhalation Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 3044 SB01, 3044 SB02, and 3044 SB03 generally consisted of tan to dark brown and gray sand and silty clay to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores were below instrument detection

limits. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick debris was observed in 3044 SB03.

- Concentrations of arsenic, cadmium, chromium (Total), copper, lead, mercury, phenanthrene, and zinc were detected in soil samples 3044 SB01 (5-6')_20260114 and/or 3044 SB02 (3-4')_20260114 in excess of their respective Part 201 GSIPC, DWPC, DCC, and/or PSIC.
- Concentrations of mercury, naphthalene, and phenanthrene were detected in soil sample 3044 SB02 (3-4')_20260114 in excess of their respective soil volatilization to indoor air pathway (SVIAP).
- Concentrations of 4,4'-DDD, 4-4'-DDE, 1-methylnaphthalene, 2-methylnaphthalene, 3 & 4-methylphenol, acenaphthene, acetophenone, anthracene, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, cadmium, chromium (Total), chrysene, copper, cresols (Total), fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, lead, mercury, pyrene, and zinc were detected in soil samples 3044 SB01 (5-6')_20260114, 3044 SB02 (3-4')_20260114, and/or 3044 SB03 (1-2')_20260114 at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of chromium and lead were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- VOCs, PCBs, chloride, 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 soil volatilization to indoor air pathway SVIAP is not currently complete, however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

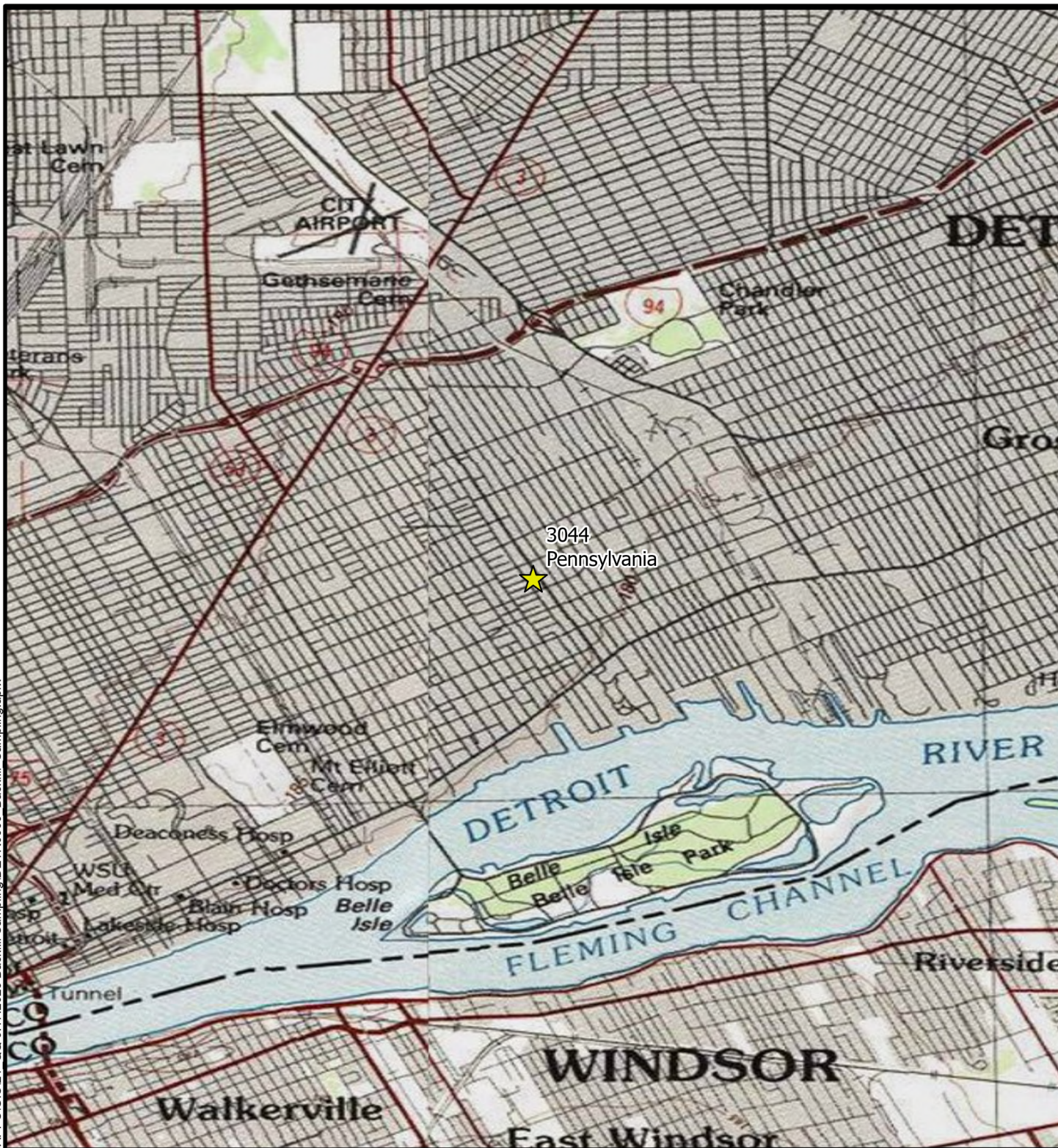
MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

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

FIGURES



Date Saved: 1/8/2026 11:31 AM Coordinate System: GCS WGS 1984
Path: W:\Projects\Projects A-E\DET0060\ENG\PPS\GIS\21_QQ 6.17.2025 Backfill Sampling\DET0060 Backfill Sampling.aprx



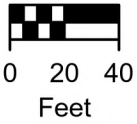
★ Site Location



FIGURE 1
SITE LOCATION

3044 Pennsylvania, Detroit, MI

DATE 1/8/2026	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DET0060
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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

3044 Pennsylvania, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
3044 Pennsylvania, 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							Pesticides		
			Arsenic (B)	Barium (B)	Cadmium (B)	Chromium, Total (B)	Copper (B)	Lead (B)	Mercury (B)	Zinc (B)	4'-DDD	4'-DDE
CAS Number			7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-66-6	72-54-8	72-55-9
Units			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	1,200	18,000	32,000	21,000	130	47,000	NC	NC
Drinking Water Protection Criteria (DWPC)			4,600	1.30E+06	6,000	30,000	5.80E+06	7.00E+05	1,700	2.40E+06	NLL	NLL
Groundwater Surface Water Interface Protection Criteria (GSIPC)			4,600	4.40E+05 ^(G)	3,600 ^(G)	3,300	75,000 ^(G)	6.00E+06 ^(G)	50 ^(M,1.2)	1.60E+05	NLL	NLL
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NLV	NLV	NLV	NC	NLV	NLV	48,000	NC	NLV	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	NC	NC	NC	NC	NC	22 ^(M)	NC	NC	39,000
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NLV	NLV	NLV	NC	NLV	NLV	52,000	NC	NLV	NLV
Particulate Soil Inhalation Criteria (PSIC)			7.20E+05	3.30E+08	1.70E+06	2.60E+05	1.30E+08	1.00E+08	2.00E+07	NC	4.40E+07	3.20E+07
Direct Contact Criteria (DCC)			7,600	3.70E+07	5.50E+05	2.50E+06	2.00E+07	4.00E+05	1.60E+05	1.70E+08	95,000	45,000
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NA	NC	NA	NA	NA	NC	NA	NA
Sample ID	Sample Depth (ft)	Sample Date										
3044 SB01	5.0 - 6.0	01/14/2026	12,400	160,000	<224	22,500	18,700	9,220	<14.4	54,300	<18.9	<19.5
3044 SB02	3.0 - 4.0	01/14/2026	10,700	317,000	5,380	405,000	88,000	469,000	444	263,000	40.3	73.6
3044 SB03	1.0 - 2.0	01/14/2026	3,640	12,900	<194	6,530	6,830	6,850	<13.6	24,500	<7.01	<7.22

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

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

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

Bold indicates concentration above laboratory reporting limits.

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

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

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

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1

through 299.50, updated October 12, 2023.

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
3044 Pennsylvania, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 and Volatilization to Indoor Air Pathway Screening Levels Revised February 26, 2024			Semivolatile Organic Compounds (SVOCs)																		
			1-Methylnaphthalene	2-Methylnaphthalene	3 & 4-Methylphenol	Acenaphthene	Acetophenone	Anthracene	Benzo(A)Anthracene	Benzo(A)Pyrene	Benzo(B)Fluoranthene	Benzo(G,H,I)Perylene	Benzo(K)Fluoranthene	Chrysene	Cresols, Total	Fluoranthene	Fluorene	Indeno(1,2,3-Cd)Pyrene	Naphthalene	Phenanthrene	Pyrene
CAS Number			90-12-0	91-57-6	65794-96-9	83-32-9	98-86-2	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	1319-77-3	206-44-0	86-73-7	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
Statewide Default Background Levels			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Drinking Water Protection Criteria (DWPC)			NC	57,000	NC	3.00E+05	30,000	41,000	NLL	NLL	NLL	NLL	NLL	NLL	7,400	7.30E+05	3.90E+05	NLL	35,000	56,000	4.80E+05
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NC	4,200	NC	8,700	ID	ID	NLL	NLL	NLL	NLL	NLL	NLL	1000 ^(M,600)	5,500	5,300	NLL	730	2,100	ID
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NC	2.70E+06	NC	1.90E+08	1.20E+08	1.00E+09	NLV	NLV	ID	NLV	NLV	ID	NLV	1.00E+09	5.80E+08	NLV	2.50E+05	2.80E+06	1.00E+09
Soil Volatilization to Indoor Air Pathway (SVIAP)			NC	1,700	NC	2.00E+05	6.20E+05	1.30E+07	1.60E+05 ^(M)	NC	NC	NC	NC	NC	NC	NC	4.70E+05	NC	67 ^(M)	1,700	2.50E+07
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NC	1.50E+06	NC	8.10E+07	4.40E+07	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	NLV	7.40E+08	1.30E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NC	1.50E+06	NC	8.10E+07	4.40E+07	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	NLV	7.40E+08	1.30E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NC	1.50E+06	NC	8.10E+07	4.40E+07	1.40E+09	NLV	NLV	ID	NLV	NLV	ID	NLV	7.40E+08	1.30E+08	NLV	3.00E+05	1.60E+05	6.50E+08
Particulate Soil Inhalation Criteria (PSIC)			NC	6.70E+08	NC	1.40E+10	3.30E+10	6.70E+10	ID	1.50E+06	ID	8.00E+08	ID	ID	6.70E+09	9.30E+09	9.30E+09	ID	2.00E+08	6.70E+06	6.70E+09
Direct Contact Criteria (DCC)			NC	8.10E+06	NC	4.10E+07	4.70E+07	2.30E+08	20,000	2,000	20,000	2.50E+06	2.00E+05	2.00E+06	1.10E+07	4.60E+07	2.70E+07	20,000	1.60E+07	1.60E+06	2.90E+07
Soil Saturation Concentration Screening Levels (Csat)			NC	NA	NC	NA	1.10E+06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sample ID	Sample Depth (ft)	Sample Date																			
3044 SB01	5.0 - 6.0	01/14/2026	<14.7	<10.4	<55.7	<14.8	<16	<14.4	<17.7	<12.5	<15.2	<15.7	<15.5	<16.5	<27.6	<9.81	<14.8	<14.2	<13.1	<9.5	<10.2
3044 SB02	3.0 - 4.0	01/14/2026	126	251	891	320	1,030	674	1,750	1,610	2,170	1,250	640	1,620	891	4,420	263	1,390	183	3,310	3,740
3044 SB03	1.0 - 2.0	01/14/2026	<5.25	<3.71	<19.9	<5.28	<5.71	<5.15	<6.31	<4.48	<5.44	<5.59	<5.53	<5.9	<9.86	<3.5	<5.3	<5.08	<4.66	<3.39	<3.64

Notes

Only parameters with one or more detections are shown.

ug/kg = Micrograms per Kilogram.

Exceeds Generic Drinking Water Protection Criteria.

Exceeds Groundwater Surface Water Interface Protection Criteria.

Exceeds Applicable Soil Vapor Inhalation Criteria/Screening Levels.

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

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

Bold indicates concentration above laboratory reporting limits.

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

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

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

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1

through 299.50, updated October 12, 2023.

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
3044 Pennsylvania, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Chromium	Lead (B)
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
3044 TCLP SB02 (3-4')_20260402	4/2/2026	<0.00610	<0.00220

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: 01/14/2026	Day: Wednesday	Temp: 35 (AM) 35 (PM)
MSG Personnel: ZDK, BM	Cloud Cover: 80% (AM) 100% (PM)	Precipitation: None (AM) 1-2" (PM)
EGLE Personnel:		
MSG Hours On-Site: ~1.5 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 2; Operator/Geologist	Equipment Type: Geoprobe 7822DT
Summary of Work Performed:		
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).		
Field Notes:		
1340 – MSG on-site (3044 Pennsylvania) 1410 – Start SB-01 1415 – Start SB-02 1420 – Start SB-03 1425 – SB-01 sampled 3044 SB-01(5-6') _20260114 1430 – SB-02 sampled 3044 SB-02(3-4') _20260114 1435 – SB-03 sampled 3044 SB-03(1-2') _20260114 1505 – MSG off-site		
Supporting Documentation		
Photograph Taken	Yes ☒ No ☐	Samples Collected
Photo Log Attached	Yes ☒ No ☐	COC Attached
	Yes ☒ No ☐	Boring/MW Logs
	Yes ☒ No ☐	Field Notebook Taken
Problem Identification and Corrective Measures		
Resolved? Yes ☐ No ☐		

**DAILY FIELD REPORT**

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

Report No.: 2
Job No.: DETR0060

Date: 04/02/2026	Day: Thursday	Temp: 38° F	(AM)	N/A	(PM)
MSG Personnel: ERR, KW, JF		Cloud Cover: 100%	(AM)	N/A	(PM)
		Precip.: Rain	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 1 hours					

Contractors Information		
Contractor: MSG	No. Men and Type: 3; Geologist/Helper/Operator	Equipment Type: Geoprobe 7822DT

Summary of Work Performed:

- Advanced one onsite soil borings to a maximum depth of 6 feet below ground surface (bgs)
- Collected one soil sample from soil boring SB02 (3-4') to submit for TCLP analysis.

Field Notes:

- 1010 – ERR, KW, and JF onsite (3044 Pennsylvania)
- 1035 – Sampled 3044 TCLP SB02 (3-4')_20260402
- 1040 – MSG off site

Supporting Documentation

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

Problem Identification and Corrective Measures

N/A

Resolved? Yes ☐ No ☐

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



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



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



Photo 4: Viewing the soil recovery from 3044 SB-01, SB-02, and SB-03 (back to front), facing southeast.



Photo 5: View of the Site after drilling, facing east.



Photo 6: View of the Site at the time of TCLP soil sampling activities, facing northeast.



Photo 7: View of drilling at 3044 TCLP SB02, facing southwest.



Photo 8: Viewing 3044 TCLP SB02 soil recovery, facing west.



Photo 9: View of the Site at the time of TCLP soil sampling activities, facing northeast.

APPENDIX D

SOIL BORING LOGS





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

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060_3044 Pennsylvania
DATE STARTED 01-14-2026 **COMPLETED** 01-14-2026
DRILLING CONTRACTOR MSG
DRILLING METHOD Direct push
EQUIPMENT GeoProbe 7822DT **Operator** BM

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 3044 Pennsylvania, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY ZDK **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Topsoil		
			0.5	Tan, SAND, Trace Gravel, Dry	0	
					0	
ES		58	3.0	Dark Brown, CLAY, Trace Sand, Dry	0	Collected Soil Sample 3044 SB02 (3-4') _20260114 at 1430
			4.0 ▽	Tan, SAND, Some Gravel, Wet - Becomes wet at 4' bgs	0	
5					0	
			6.0	Terminated at 6.00 ft.	0	
10						

LEGEND:

▽ AT TIME OF DRILLING 4.00 ft
▼ AT END OF DRILLING
▾ AFTER DRILLING

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

January 22, 2026

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

Re: **3044 Pennsylvania**

Date Received: **01/15/2026**

Work Order: **HN2600652**

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: 3044 Pennsylvania

Work Order: HN2600652
Date Received: 15-Jan-2026

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 15-Jan-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

WorkOrder: HN2600652

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

Inorganics

EPA 3550C-Moisture

Run ID: 3823636

The concentration in the Method Blank was greater than the quantitation limit. The sample result was greater than 10x the concentration in the Method Blank; therefore, no qualification is necessary for this analyte:

Metals

EPA 6020B-3050B-S

Run ID: 3834102

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: As Batch 2424616

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn Batch 2424616

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: As, Cr, Pb Batch 2424616

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Zn Batch 2424616

Samples HN2600652-001 and -003: The reporting limits are elevated for Cd, Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

HN2600652-002: The reporting limits are elevated for Se and Ag due to the dilutions needed for high concentrations of non-target analytes.

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3829084

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; 2-Methyl-4,6-dinitrophenol.

EPA 8260D-FULL HN-5035A-10mL-S**Run ID: 3828655**

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Chloroethane (Ethyl chloride), Dichlorodifluoromethane (Freon-12), Methyl bromide (Bromomethane), Methyl chloride (Chloromethane), Vinyl chloride (Chloroethene).

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: Carbon disulfide,

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: 3044 SB01(5-6')_20260114	Lab ID: HN2600652-001
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	12.4		3.73	mg/kg	EPA 6020B
Barium	160		3.73	mg/kg	EPA 6020B
Chromium	22.5		3.73	mg/kg	EPA 6020B
Copper	18.7		3.73	mg/kg	EPA 6020B
Lead	9.22		3.73	mg/kg	EPA 6020B
Percent Moisture	18.6	B	0.1	%	EPA 3550C
Zinc	54.3		7.46	mg/kg	EPA 6020B

CLIENT ID: 3044 SB02(3-4')_20260114	Lab ID: HN2600652-002
--	------------------------------

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	126		114	µg/kg	EPA 8270E
2-Methylnaphthalene	251		114	µg/kg	EPA 8270E
3&4-Methylphenol	891		565	µg/kg	EPA 8270E
4,4'-DDD	40.3		34.1	µg/kg	EPA 8081B
4,4'-DDE	73.6		34.1	µg/kg	EPA 8081B
Acenaphthene	320		114	µg/kg	EPA 8270E
Acetophenone	1030		565	µg/kg	EPA 8270E
Anthracene	674		114	µg/kg	EPA 8270E
Arsenic	10.7		3.68	mg/kg	EPA 6020B
Barium	317		3.68	mg/kg	EPA 6020B
Benzo(a)anthracene	1750		114	µg/kg	EPA 8270E
Benzo(a)pyrene	1610		114	µg/kg	EPA 8270E
Benzo(b)fluoranthene	2170		114	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	1250		114	µg/kg	EPA 8270E
Benzo(k)fluoranthene	640		114	µg/kg	EPA 8270E
Cadmium	5.38		1.47	mg/kg	EPA 6020B
Chromium	405		3.68	mg/kg	EPA 6020B
Chrysene	1620		114	µg/kg	EPA 8270E
Copper	88.0		3.68	mg/kg	EPA 6020B
Fluoranthene	4420		114	µg/kg	EPA 8270E
Fluorene	263		114	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	1390		114	µg/kg	EPA 8270E
Lead	469		3.68	mg/kg	EPA 6020B
Mercury	0.444		0.0272	mg/kg	EPA 7471B
Methylphenol, Total	891		565	µg/kg	EPA 8270E
Naphthalene	183		114	µg/kg	EPA 8270E
Percent Moisture	31.0	B	0.1	%	EPA 3550C
Phenanthrene	3310		114	µg/kg	EPA 8270E
Pyrene	3740		114	µg/kg	EPA 8270E
Zinc	263		73.6	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: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.64		3.23	mg/kg	EPA 6020B
Barium	12.9		3.23	mg/kg	EPA 6020B
Chromium	6.53		3.23	mg/kg	EPA 6020B
Copper	6.83		3.23	mg/kg	EPA 6020B
Lead	6.85		3.23	mg/kg	EPA 6020B
Percent Moisture	10.2		0.1	%	EPA 3550C
Zinc	24.5		6.47	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Workorder: HN2600652

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2600652-001	3044 SB01(5-6')_20260114	SOIL/SOLID	01/14/26 14:25	01/15/26 06:00
HN2600652-002	3044 SB02(3-4')_20260114	SOIL/SOLID	01/14/26 14:30	01/15/26 06:00
HN2600652-003	3044 SB03(1-2')_20260114	SOIL/SOLID	01/14/26 14:35	01/15/26 06:00

Chain of Custody Form

Page 1 of 1



Telephone : +1 616 399 6070

ALS Project Manager:							Work Order #:										
Project Information							Parameter/Method Request for Analysis										
Project Name		3044-Pennsylvania					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)										
Send Report To		Ryan Montri and Olivia Mitchell					D Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)										
Address		2365 South Haggerty Road					E Chorides (U.S. EPA Method 9056A)										
City/State/Zip		Canton, Mi 48188					F Pesticides (U.S. EPA Method 8081B (or Method 8081))										
Phone		734-397-3100					G Herbicides (U.S. EPA Method 8151A (or Method 8151))										
Fax							H										
e-Mail Address		montri@manniksmithgroup.com					I										
e-Mail Address		omitchell@manniksmithgroup.com					J										
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3044 SB01 (5-6 ')_2026 01/4	01/14/2026	1425	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
2	3044 SB02 (3-4 ')_2026 01/4		1430	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
3	3044 SB03 (1-2 ')_2026 01/4		1435	Soil	7	3	✓	✓	✓	✓	✓	✓	✓				
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Other				Results Due Date:					
Zachary Kippe				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour													
Relinquished by:		Date:	Time:	Received by:		Notes:											
Zachary Kippe MSG Raw Data		1/14/26	4:20pm	[Signature]		Rec'd 1/15/26 0600 QZCL											
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp. QC Package: (Check Box Below)											
[Signature]		1/14/26	1700	[Signature]		Level II: Standard QC TRRP-Checklist											
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level III: Std QC + Raw Data TRRP Level IV											
DCS		1/15/26	0730	[Signature]		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:											



ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: Diane F. Shaw
Date/Time: 1/15/26 0600
Carrier Name: QS
Shipping container/cooler in good condition? Yes / No / Not Present
Custody seals intact on shipping container/cooler? Yes / No / Not Present
Custody seals intact on sample bottles? Yes / No / Not Present
Chain of Custody present? Yes / No
COC signed when relinquished and received? Yes / No
COC agrees with sample labels? Yes / No
Samples in proper container/bottle? Yes / No
Sample containers intact? Yes / No
Sufficient sample volume for indicated test? Yes / No
All samples received within holding time? Yes / No
Container/Temp Blank temperature in compliance? Yes / No
Temperature(s) (°C): 2.1 / 2.1°c
Thermometer(s): IR6
Sample(s) received on ice? Yes / No
Matrix/Matrices: Soil
Cooler(s)/Kit(s): 1
Date/Time sample(s) sent to storage: 1/15/26 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:

--	--

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania

Work Order: HN2600652

Sample Name: 3044 SB01(5-6')_20260114
Laboratory Code: HN2600652-001
Sample Matrix: SOIL/SOLID

Date Collected: 01/14/26
Date Received: 01/15/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2418880		3823636	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2424616	Weston Kotecki	3834102	Hunter Johnson
EPA 7471B	Method	001-AC	2424731	Maxx Richey	3835911	Maxx Richey
EPA 8081B	EPA 3546	001-AC	2417569	Mya Harmer	3828914	Madison VandenBer
EPA 8082A	EPA 3546	001-AC	2417548	Mya Harmer	3828351	Quinn Garner
EPA 8151A	Method	001-AC	2419429	Willow Julien	3831966	Kathy Malmyga
EPA 8260D	EPA 5035A	001-AA	2417846	Jonathan Vazquez	3828655	John Garvale
EPA 8270E	EPA 3546	001-AC	2419424	Mya Harmer	3829084	Alexa Montague
EPA 9056A	EPA 9056A	001-AC	2417863	Kelsey Beaudette	3824453	Sage Hansen

Sample Name: 3044 SB02(3-4')_20260114
Laboratory Code: HN2600652-002
Sample Matrix: SOIL/SOLID

Date Collected: 01/14/26
Date Received: 01/15/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2418880		3823636	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2424616	Weston Kotecki	3834102	Hunter Johnson
EPA 6020B	EPA 3050B	002-AC	2424616	Weston Kotecki	3835762	Hunter Johnson
EPA 7471B	Method	002-AC	2424731	Maxx Richey	3835911	Maxx Richey
EPA 8081B	EPA 3546	002-AC	2417569	Mya Harmer	3828914	Madison VandenBer
EPA 8082A	EPA 3546	002-AC	2417548	Mya Harmer	3828351	Quinn Garner
EPA 8151A	Method	002-AC	2419429	Willow Julien	3831966	Kathy Malmyga
EPA 8260D	EPA 5035A	002-AA	2417846	Jonathan Vazquez	3828655	John Garvale
EPA 8270E	EPA 3546	002-AC	2419424	Mya Harmer	3829084	Alexa Montague
EPA 9056A	EPA 9056A	002-AC	2417863	Kelsey Beaudette	3824453	Sage Hansen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania

Work Order: HN2600652

Sample Name: 3044 SB03(1-2')_20260114
Laboratory Code: HN2600652-003
Sample Matrix: SOIL/SOLID

Date Collected: 01/14/26
Date Received: 01/15/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2422280		3829216	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2424616	Weston Kotecki	3834102	Hunter Johnson
EPA 7471B	Method	003-AC	2424731	Maxx Richey	3835911	Maxx Richey
EPA 8081B	EPA 3546	003-AC	2417569	Mya Harmer	3828914	Madison VandenBer
EPA 8082A	EPA 3546	003-AC	2417548	Mya Harmer	3828351	Madison VandenBer
EPA 8151A	Method	003-AC	2419429	Willow Julien	3831966	Kathy Malmyga
EPA 8260D	EPA 5035A	003-AA	2417846	Jonathan Vazquez	3828655	John Garvale
EPA 8270E	EPA 3546	003-AC	2419424	Mya Harmer	3829084	Alexa Montague
EPA 9056A	EPA 9056A	003-AC	2417863	Kelsey Beaudette	3824453	Jessica Bacon

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.69	U	µg/kg	14.6	1	01/20/26 16:38	01/16/26 12:32
2,4,5-TP (Silvex)	EPA 8151A	<4.79	U	µg/kg	14.6	1	01/20/26 16:38	01/16/26 12:32
2,4-D	EPA 8151A	<7.80	U	µg/kg	29.2	1	01/20/26 16:38	01/16/26 12:32
Surr: DCAA	EPA 8151A	58.0		%REC	10-116	1	01/20/26 16:38	01/16/26 12:32
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.6	B	%	0.1	1	01/15/26 22:55	NA
Chloride	EPA 9056A	<4.03	U	mg/kg	13.0	1	01/16/26 06:44	01/15/26 15:10
Metals								
Arsenic	EPA 6020B	12.4		mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Barium	EPA 6020B	160		mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Cadmium	EPA 6020B	<0.224	U	mg/kg	1.49	10	01/21/26 19:54	01/21/26 10:06
Chromium	EPA 6020B	22.5		mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Copper	EPA 6020B	18.7		mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Lead	EPA 6020B	9.22		mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Selenium	EPA 6020B	<3.43	U	mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Silver	EPA 6020B	<0.492	U	mg/kg	3.73	10	01/21/26 19:54	01/21/26 10:06
Zinc	EPA 6020B	54.3		mg/kg	7.46	10	01/21/26 19:54	01/21/26 10:06
Mercury	EPA 7471B	<0.0144	U	mg/kg	0.0211	1	01/22/26 11:04	01/22/26 10:03
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<18.9	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
4,4'-DDE	EPA 8081B	<19.5	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
4,4'-DDT	EPA 8081B	<19.7	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Aldrin	EPA 8081B	<19.3	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
alpha-BHC	EPA 8081B	<19.5	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
beta-BHC	EPA 8081B	<19.5	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Chlordane, Technical	EPA 8081B	<29.4	U	µg/kg	74.1	1	01/17/26 02:05	01/15/26 11:12
cis-Chlordane	EPA 8081B	<19.8	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
delta-BHC	EPA 8081B	<19.4	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Dieldrin	EPA 8081B	<20.7	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<19.9	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Endosulfan II	EPA 8081B	<19.6	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Endosulfan sulfate	EPA 8081B	<18.2	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Endrin	EPA 8081B	<24.0	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Endrin aldehyde	EPA 8081B	<18.8	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Endrin ketone	EPA 8081B	<18.0	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
gamma-BHC (Lindane)	EPA 8081B	<19.4	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Heptachlor	EPA 8081B	<19.1	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Heptachlor epoxide	EPA 8081B	<19.6	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Methoxychlor	EPA 8081B	<19.8	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
Toxaphene	EPA 8081B	<32.0	U	µg/kg	178	1	01/17/26 02:05	01/15/26 11:12
trans-Chlordane	EPA 8081B	<19.7	U	µg/kg	29.6	1	01/17/26 02:05	01/15/26 11:12
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	91.2		%REC	53-151	1	01/17/26 02:05	01/15/26 11:12
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	78.0		%REC	67-127	1	01/17/26 02:05	01/15/26 11:12

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<67.7	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1221	EPA 8082A	<67.7	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1232	EPA 8082A	<67.7	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1242	EPA 8082A	<67.7	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1248	EPA 8082A	<67.7	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1254	EPA 8082A	<55.2	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1260	EPA 8082A	<55.2	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1262	EPA 8082A	<55.2	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Aroclor 1268	EPA 8082A	<55.2	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
Total PCB	EPA 8082A	<55.2	U	µg/kg	198	1	01/17/26 01:11	01/15/26 14:20
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	107		%REC	54-146	1	01/17/26 01:11	01/15/26 14:20
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	99.5		%REC	58-140	1	01/17/26 01:11	01/15/26 14:20

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<16.6	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<23.6	U	µg/kg	1020	1	01/19/26 21:19	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<73.2	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
1-Methylnaphthalene	EPA 8270E	<14.7	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<23.9	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,3,4,6-Tetrachlorophenol	EPA 8270E	<74.8	U	µg/kg	204	1	01/19/26 21:19	01/16/26 10:00
2,4,5-Trichlorophenol	EPA 8270E	<60.5	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,4,6-Trichlorophenol	EPA 8270E	<27.2	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,4-Dichlorophenol	EPA 8270E	<55.0	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,4-Dimethylphenol	EPA 8270E	<52.5	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,4-Dinitrophenol	EPA 8270E	<747	U	µg/kg	1020	1	01/19/26 21:19	01/16/26 10:00
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<66.3	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<26.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2-Chloronaphthalene	EPA 8270E	<14.3	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
2-Chlorophenol	EPA 8270E	<66.8	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<85.3	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2-Methylnaphthalene	EPA 8270E	<10.4	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
2-Methylphenol (o-Cresol)	EPA 8270E	<27.6	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2-Nitroaniline	EPA 8270E	<56.7	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
2-Nitrophenol	EPA 8270E	<29.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
3&4-Methylphenol	EPA 8270E	<55.7	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
3,3'-Dichlorobenzidine	EPA 8270E	<47.7	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
3-Nitroaniline	EPA 8270E	<59.3	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<56.0	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
4-Chloro-3-methylphenol	EPA 8270E	<29.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
4-Chloroaniline	EPA 8270E	<51.9	U	µg/kg	204	1	01/19/26 21:19	01/16/26 10:00
4-Chlorophenyl phenylether	EPA 8270E	<28.2	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
4-Nitroaniline	EPA 8270E	<158	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
4-Nitrophenol	EPA 8270E	<239	U	µg/kg	1020	1	01/19/26 21:19	01/16/26 10:00
Acenaphthene	EPA 8270E	<14.8	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<17.7	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Acetophenone	EPA 8270E	<16.0	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Anthracene	EPA 8270E	<14.4	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Atrazine	EPA 8270E	<59.8	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Benzaldehyde	EPA 8270E	<157	U	µg/kg	204	1	01/19/26 21:19	01/16/26 10:00
Benzo(a)anthracene	EPA 8270E	<17.7	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Benzo(a)pyrene	EPA 8270E	<12.5	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Benzo(b)fluoranthene	EPA 8270E	<15.2	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Benzo(g,h,i)perylene	EPA 8270E	<15.7	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Benzo(k)fluoranthene	EPA 8270E	<15.5	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
bis(2-Chloroethoxy) methane	EPA 8270E	<64.7	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
bis(2-Chloroethyl) ether	EPA 8270E	<28.9	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Butyl benzyl phthalate	EPA 8270E	<128	U	µg/kg	204	1	01/19/26 21:19	01/16/26 10:00
Caprolactam	EPA 8270E	<92.2	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Carbazole	EPA 8270E	<30.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Chrysene	EPA 8270E	<16.5	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<84.5	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Dibenz(a,h) anthracene	EPA 8270E	<11.0	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Dibenzofuran	EPA 8270E	<15.0	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Diethyl phthalate	EPA 8270E	<34.7	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Dimethyl phthalate	EPA 8270E	<19.9	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Fluoranthene	EPA 8270E	<9.81	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Fluorene	EPA 8270E	<14.8	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Hexachlorobenzene	EPA 8270E	<29.7	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Hexachlorobutadiene	EPA 8270E	<24.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Hexachlorocyclopentadiene	EPA 8270E	<96.8	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Hexachloroethane	EPA 8270E	<42.3	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Indeno(1,2,3-cd) pyrene	EPA 8270E	<14.2	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Isophorone	EPA 8270E	<19.9	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
Methylphenol, Total	EPA 8270E	<27.6	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<13.1	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Nitrobenzene	EPA 8270E	<34.3	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
n-Nitrosodi-n-propylamine	EPA 8270E	<16.9	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
N-Nitrosodiphenylamine	EPA 8270E	<59.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Pentachlorophenol	EPA 8270E	<81.1	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Phenanthrene	EPA 8270E	<9.50	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Phenol	EPA 8270E	<51.3	U	µg/kg	101	1	01/19/26 21:19	01/16/26 10:00
Pyrene	EPA 8270E	<10.2	U	µg/kg	20.4	1	01/19/26 21:19	01/16/26 10:00
Pyridine	EPA 8270E	<201	U	µg/kg	511	1	01/19/26 21:19	01/16/26 10:00
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<i>77.1</i>		<i>%REC</i>	<i>48-94</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<i>80.6</i>		<i>%REC</i>	<i>50-103</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<i>86.4</i>		<i>%REC</i>	<i>43-105</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<i>78.4</i>		<i>%REC</i>	<i>55-111</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<i>98.3</i>		<i>%REC</i>	<i>47-100</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<i>86.4</i>		<i>%REC</i>	<i>49-110</i>	<i>1</i>	<i>01/19/26 21:19</i>	<i>01/16/26 10:00</i>

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<20.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,1,2,2-Tetrachloroethane	EPA 8260D	<19.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<28.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,1,2-Trichloroethane	EPA 8260D	<19.0	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,1-Dichloroethane	EPA 8260D	<16.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,1-Dichloroethylene	EPA 8260D	<14.5	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,2,3-Trichlorobenzene	EPA 8260D	<53.6	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
1,2,3-Trichloropropane	EPA 8260D	<18.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,2,4-Trichlorobenzene	EPA 8260D	<50.6	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
1,2,4-Trimethylbenzene	EPA 8260D	<32.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<41.1	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<26.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<16.9	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<26.3	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
1,2-Dichloropropane	EPA 8260D	<32.9	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,3,5-Trimethylbenzene	EPA 8260D	<31.5	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<30.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
1,3-Dichloropropene	EPA 8260D	<24.9	U	µg/kg	89.3	1	01/16/26 17:00	01/15/26 10:39
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<36.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<106	U	µg/kg	298	1	01/16/26 17:00	01/15/26 10:39
2-Hexanone	EPA 8260D	<22.1	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<41.6	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Acetone	EPA 8260D	<133	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
Benzene	EPA 8260D	<21.6	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Bromochloromethane	EPA 8260D	<22.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Bromodichloromethane	EPA 8260D	<25.0	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Bromoform	EPA 8260D	<18.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Carbon disulfide	EPA 8260D	<23.1	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Carbon tetrachloride	EPA 8260D	<17.5	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Chlorobenzene	EPA 8260D	<14.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Chlorodibromomethane	EPA 8260D	<25.1	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Chloroethane (Ethyl chloride)	EPA 8260D	<125	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
Chloroform	EPA 8260D	<16.4	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
cis-1,2-Dichloroethylene	EPA 8260D	<28.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
cis-1,3-Dichloropropene	EPA 8260D	<33.6	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Cyclohexane	EPA 8260D	<34.2	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<54.0	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
Ethylbenzene	EPA 8260D	<31.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Isopropylbenzene	EPA 8260D	<28.2	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
m+p-Xylene	EPA 8260D	<59.5	U	µg/kg	89.3	1	01/16/26 17:00	01/15/26 10:39
Methyl acetate	EPA 8260D	<53.5	U	µg/kg	372	1	01/16/26 17:00	01/15/26 10:39
Methyl bromide (Bromomethane)	EPA 8260D	<85.4	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:25
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB01(5-6')_20260114

Lab ID: HN2600652-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<122	U	µg/kg	149	1	01/16/26 17:00	01/15/26 10:39
Methyl tert-butyl ether (MTBE)	EPA 8260D	<32.6	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Methylcyclohexane	EPA 8260D	<17.0	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Methylene chloride (Dichloromethane)	EPA 8260D	<118	U	µg/kg	372	1	01/16/26 17:00	01/15/26 10:39
o-Xylene	EPA 8260D	<17.3	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Styrene	EPA 8260D	<17.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<26.9	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Toluene	EPA 8260D	<36.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Total Xylene	EPA 8260D	<17.3	U	µg/kg	134	1	01/16/26 17:00	01/15/26 10:39
trans-1,2-Dichloroethylene	EPA 8260D	<36.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
trans-1,3-Dichloropropylene	EPA 8260D	<24.9	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Trichloroethene (Trichloroethylene)	EPA 8260D	<20.0	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<22.8	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
Vinyl chloride (Chloroethene)	EPA 8260D	<29.7	U	µg/kg	44.6	1	01/16/26 17:00	01/15/26 10:39
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	01/16/26 17:00	01/15/26 10:39
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.0		%REC	80-120	1	01/16/26 17:00	01/15/26 10:39
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	96.8		%REC	72-120	1	01/16/26 17:00	01/15/26 10:39
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	98.8		%REC	80-120	1	01/16/26 17:00	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<8.50	U	µg/kg	46.2	1	01/20/26 16:38	01/16/26 12:32
2,4,5-TP (Silvex)	EPA 8151A	<15.2	U	µg/kg	46.2	1	01/20/26 16:38	01/16/26 12:32
2,4-D	EPA 8151A	<24.7	U	µg/kg	92.4	1	01/20/26 16:38	01/16/26 12:32
Surr: DCAA	EPA 8151A	40.0		%REC	10-116	1	01/20/26 16:38	01/16/26 12:32
General Chemistry Parameters								
Percent Moisture	EPA 3550C	31.0	B	%	0.1	1	01/15/26 22:55	NA
Chloride	EPA 9056A	<4.83	U	mg/kg	15.6	1	01/16/26 06:52	01/15/26 15:10
Metals								
Arsenic	EPA 6020B	10.7		mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Barium	EPA 6020B	317		mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Cadmium	EPA 6020B	5.38		mg/kg	1.47	10	01/21/26 19:56	01/21/26 10:06
Chromium	EPA 6020B	405		mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Copper	EPA 6020B	88.0		mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Lead	EPA 6020B	469		mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Selenium	EPA 6020B	<3.39	U	mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Silver	EPA 6020B	<0.486	U	mg/kg	3.68	10	01/21/26 19:56	01/21/26 10:06
Zinc	EPA 6020B	263		mg/kg	73.6	100	01/22/26 13:05	01/21/26 10:06
Mercury	EPA 7471B	0.444		mg/kg	0.0272	1	01/22/26 11:06	01/22/26 10:03
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	40.3		µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
4,4'-DDE	EPA 8081B	73.6		µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
4,4'-DDT	EPA 8081B	<22.6	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Aldrin	EPA 8081B	<22.1	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
alpha-BHC	EPA 8081B	<22.4	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
beta-BHC	EPA 8081B	<22.4	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Chlordane, Technical	EPA 8081B	<33.8	U	µg/kg	85.1	1	01/17/26 02:19	01/15/26 11:12
cis-Chlordane	EPA 8081B	<22.8	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
delta-BHC	EPA 8081B	<22.3	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Dieldrin	EPA 8081B	<23.8	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<22.9	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Endosulfan II	EPA 8081B	<22.6	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Endosulfan sulfate	EPA 8081B	<20.9	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Endrin	EPA 8081B	<27.6	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Endrin aldehyde	EPA 8081B	<21.6	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Endrin ketone	EPA 8081B	<20.7	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
gamma-BHC (Lindane)	EPA 8081B	<22.3	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Heptachlor	EPA 8081B	<22.0	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Heptachlor epoxide	EPA 8081B	<22.5	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Methoxychlor	EPA 8081B	<22.8	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
Toxaphene	EPA 8081B	<36.8	U	µg/kg	204	1	01/17/26 02:19	01/15/26 11:12
trans-Chlordane	EPA 8081B	<22.6	U	µg/kg	34.1	1	01/17/26 02:19	01/15/26 11:12
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	96.8		%REC	53-151	1	01/17/26 02:19	01/15/26 11:12
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	85.0		%REC	67-127	1	01/17/26 02:19	01/15/26 11:12

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<77.9	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1221	EPA 8082A	<77.9	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1232	EPA 8082A	<77.9	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1242	EPA 8082A	<77.9	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1248	EPA 8082A	<77.9	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1254	EPA 8082A	<63.4	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1260	EPA 8082A	<63.4	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1262	EPA 8082A	<63.4	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Aroclor 1268	EPA 8082A	<63.4	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
Total PCB	EPA 8082A	<63.4	U	µg/kg	227	1	01/17/26 01:22	01/15/26 14:20
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	131		%REC	54-146	1	01/17/26 01:22	01/15/26 14:20
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	108		%REC	58-140	1	01/17/26 01:22	01/15/26 14:20

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<92.7	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<132	U	µg/kg	5710	5	01/19/26 23:24	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<410	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
1-Methylnaphthalene	EPA 8270E	126		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<134	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,3,4,6-Tetrachlorophenol	EPA 8270E	<418	U	µg/kg	1140	5	01/19/26 23:24	01/16/26 10:00
2,4,5-Trichlorophenol	EPA 8270E	<338	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,4,6-Trichlorophenol	EPA 8270E	<152	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,4-Dichlorophenol	EPA 8270E	<307	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,4-Dimethylphenol	EPA 8270E	<294	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,4-Dinitrophenol	EPA 8270E	<4180	U	µg/kg	5710	5	01/19/26 23:24	01/16/26 10:00
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<371	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<146	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2-Chloronaphthalene	EPA 8270E	<79.8	U	µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
2-Chlorophenol	EPA 8270E	<374	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<477	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2-Methylnaphthalene	EPA 8270E	251		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
2-Methylphenol (o-Cresol)	EPA 8270E	<154	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2-Nitroaniline	EPA 8270E	<317	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
2-Nitrophenol	EPA 8270E	<163	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
3&4-Methylphenol	EPA 8270E	891		µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
3,3'-Dichlorobenzidine	EPA 8270E	<267	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
3-Nitroaniline	EPA 8270E	<332	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<313	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
4-Chloro-3-methylphenol	EPA 8270E	<163	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
4-Chloroaniline	EPA 8270E	<290	U	µg/kg	1140	5	01/19/26 23:24	01/16/26 10:00
4-Chlorophenyl phenylether	EPA 8270E	<158	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
4-Nitroaniline	EPA 8270E	<886	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
4-Nitrophenol	EPA 8270E	<1340	U	µg/kg	5710	5	01/19/26 23:24	01/16/26 10:00
Acenaphthene	EPA 8270E	320		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<99.0	U	µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Acetophenone	EPA 8270E	1030		µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Anthracene	EPA 8270E	674		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Atrazine	EPA 8270E	<335	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Benzaldehyde	EPA 8270E	<877	U	µg/kg	1140	5	01/19/26 23:24	01/16/26 10:00
Benzo(a)anthracene	EPA 8270E	1750		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Benzo(a)pyrene	EPA 8270E	1610		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Benzo(b)fluoranthene	EPA 8270E	2170		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Benzo(g,h,i)perylene	EPA 8270E	1250		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Benzo(k)fluoranthene	EPA 8270E	640		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
bis(2-Chloroethoxy) methane	EPA 8270E	<362	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
bis(2-Chloroethyl) ether	EPA 8270E	<162	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Butyl benzyl phthalate	EPA 8270E	<715	U	µg/kg	1140	5	01/19/26 23:24	01/16/26 10:00
Caprolactam	EPA 8270E	<515	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Carbazole	EPA 8270E	<168	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Chrysene	EPA 8270E	1620		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<472	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Dibenz(a,h) anthracene	EPA 8270E	<61.7	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Dibenzofuran	EPA 8270E	<84.0	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Diethyl phthalate	EPA 8270E	<194	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Dimethyl phthalate	EPA 8270E	<111	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Fluoranthene	EPA 8270E	4420		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Fluorene	EPA 8270E	263		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Hexachlorobenzene	EPA 8270E	<166	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Hexachlorobutadiene	EPA 8270E	<135	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Hexachlorocyclopentadiene	EPA 8270E	<541	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Hexachloroethane	EPA 8270E	<236	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Indeno(1,2,3-cd) pyrene	EPA 8270E	1390		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Isophorone	EPA 8270E	<112	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
Methylphenol, Total	EPA 8270E	891		µg/kg	565	5	01/19/26 23:24	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	183		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Nitrobenzene	EPA 8270E	<192	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
n-Nitrosodi-n-propylamine	EPA 8270E	<94.2	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
N-Nitrosodiphenylamine	EPA 8270E	<331	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Pentachlorophenol	EPA 8270E	<454	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Phenanthrene	EPA 8270E	3310		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Phenol	EPA 8270E	<287	U	µg/kg	565	5	01/19/26 23:24	01/16/26 10:00
Pyrene	EPA 8270E	3740		µg/kg	114	5	01/19/26 23:24	01/16/26 10:00
Pyridine	EPA 8270E	<1120	U	µg/kg	2860	5	01/19/26 23:24	01/16/26 10:00
Surr: 2,4,6-Tribromophenol	EPA 8270E	75.7		%REC	48-94	5	01/19/26 23:24	01/16/26 10:00
Surr: 2-Fluorobiphenyl	EPA 8270E	79.0		%REC	50-103	5	01/19/26 23:24	01/16/26 10:00
Surr: 2-Fluorophenol	EPA 8270E	77.0		%REC	43-105	5	01/19/26 23:24	01/16/26 10:00
Surr: 4-Terphenyl-d14	EPA 8270E	76.4		%REC	55-111	5	01/19/26 23:24	01/16/26 10:00
Surr: Nitrobenzene-d5	EPA 8270E	87.0		%REC	47-100	5	01/19/26 23:24	01/16/26 10:00
Surr: Phenol-d6	EPA 8270E	72.2		%REC	49-110	5	01/19/26 23:24	01/16/26 10:00

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<27.1	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,1,2,2-Tetrachloroethane	EPA 8260D	<26.3	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<37.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,1,2-Trichloroethane	EPA 8260D	<25.4	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,1-Dichloroethane	EPA 8260D	<21.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,1-Dichloroethylene	EPA 8260D	<19.3	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,2,3-Trichlorobenzene	EPA 8260D	<71.6	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
1,2,3-Trichloropropane	EPA 8260D	<25.0	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,2,4-Trichlorobenzene	EPA 8260D	<67.6	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
1,2,4-Trimethylbenzene	EPA 8260D	<43.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<54.9	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<35.1	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<22.6	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<35.1	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
1,2-Dichloropropane	EPA 8260D	<44.0	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,3,5-Trimethylbenzene	EPA 8260D	<42.2	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<41.2	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
1,3-Dichloropropene	EPA 8260D	<33.3	U	µg/kg	119	1	01/16/26 17:19	01/15/26 10:39
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<48.5	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<142	U	µg/kg	398	1	01/16/26 17:19	01/15/26 10:39
2-Hexanone	EPA 8260D	<29.6	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<55.6	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Acetone	EPA 8260D	<177	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
Benzene	EPA 8260D	<28.9	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Bromochloromethane	EPA 8260D	<30.4	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Bromodichloromethane	EPA 8260D	<33.4	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Bromoform	EPA 8260D	<25.1	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Carbon disulfide	EPA 8260D	<30.9	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Carbon tetrachloride	EPA 8260D	<23.4	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Chlorobenzene	EPA 8260D	<19.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Chlorodibromomethane	EPA 8260D	<33.5	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Chloroethane (Ethyl chloride)	EPA 8260D	<167	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
Chloroform	EPA 8260D	<21.9	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
cis-1,2-Dichloroethylene	EPA 8260D	<38.4	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
cis-1,3-Dichloropropene	EPA 8260D	<45.0	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Cyclohexane	EPA 8260D	<45.7	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<72.2	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
Ethylbenzene	EPA 8260D	<42.3	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Isopropylbenzene	EPA 8260D	<37.7	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
m+p-Xylene	EPA 8260D	<79.6	U	µg/kg	119	1	01/16/26 17:19	01/15/26 10:39
Methyl acetate	EPA 8260D	<71.5	U	µg/kg	497	1	01/16/26 17:19	01/15/26 10:39
Methyl bromide (Bromomethane)	EPA 8260D	<114	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:30
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB02(3-4')_20260114

Lab ID: HN2600652-002

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<163	U	µg/kg	199	1	01/16/26 17:19	01/15/26 10:39
Methyl tert-butyl ether (MTBE)	EPA 8260D	<43.5	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Methylcyclohexane	EPA 8260D	<22.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Methylene chloride (Dichloromethane)	EPA 8260D	<158	U	µg/kg	497	1	01/16/26 17:19	01/15/26 10:39
o-Xylene	EPA 8260D	<23.1	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Styrene	EPA 8260D	<23.7	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<35.9	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Toluene	EPA 8260D	<49.2	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Total Xylene	EPA 8260D	<23.1	U	µg/kg	179	1	01/16/26 17:19	01/15/26 10:39
trans-1,2-Dichloroethylene	EPA 8260D	<49.2	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
trans-1,3-Dichloropropylene	EPA 8260D	<33.3	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Trichloroethene (Trichloroethylene)	EPA 8260D	<26.8	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<30.5	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
Vinyl chloride (Chloroethene)	EPA 8260D	<39.7	U	µg/kg	59.7	1	01/16/26 17:19	01/15/26 10:39
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	01/16/26 17:19	01/15/26 10:39
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	98.9		%REC	80-120	1	01/16/26 17:19	01/15/26 10:39
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	99.5		%REC	72-120	1	01/16/26 17:19	01/15/26 10:39
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.8		%REC	80-120	1	01/16/26 17:19	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<1.00	U	µg/kg	5.45	1	01/20/26 16:38	01/16/26 12:32
2,4,5-TP (Silvex)	EPA 8151A	<1.79	U	µg/kg	5.45	1	01/20/26 16:38	01/16/26 12:32
2,4-D	EPA 8151A	<2.91	U	µg/kg	10.9	1	01/20/26 16:38	01/16/26 12:32
Surr: DCAA	EPA 8151A	58.0		%REC	10-116	1	01/20/26 16:38	01/16/26 12:32
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.2		%	0.1	1	01/19/26 16:41	NA
Chloride	EPA 9056A	<3.46	U	mg/kg	11.2	1	01/16/26 07:00	01/15/26 15:10
Metals								
Arsenic	EPA 6020B	3.64		mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Barium	EPA 6020B	12.9		mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Cadmium	EPA 6020B	<0.194	U	mg/kg	1.29	10	01/21/26 19:57	01/21/26 10:06
Chromium	EPA 6020B	6.53		mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Copper	EPA 6020B	6.83		mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Lead	EPA 6020B	6.85		mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Selenium	EPA 6020B	<2.98	U	mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Silver	EPA 6020B	<0.427	U	mg/kg	3.23	10	01/21/26 19:57	01/21/26 10:06
Zinc	EPA 6020B	24.5		mg/kg	6.47	10	01/21/26 19:57	01/21/26 10:06
Mercury	EPA 7471B	<0.0136	U	mg/kg	0.0200	1	01/22/26 11:14	01/22/26 10:03
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<7.01	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
4,4'-DDE	EPA 8081B	<7.22	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
4,4'-DDT	EPA 8081B	<7.29	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Aldrin	EPA 8081B	<7.12	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
alpha-BHC	EPA 8081B	<7.21	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
beta-BHC	EPA 8081B	<7.20	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Chlordane, Technical	EPA 8081B	<10.9	U	µg/kg	27.4	1	01/17/26 09:18	01/15/26 11:12
cis-Chlordane	EPA 8081B	<7.32	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
delta-BHC	EPA 8081B	<7.18	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Dieldrin	EPA 8081B	<7.67	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Endosulfan I	EPA 8081B	<7.37	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Endosulfan II	EPA 8081B	<7.26	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Endosulfan sulfate	EPA 8081B	<6.74	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Endrin	EPA 8081B	<8.87	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Endrin aldehyde	EPA 8081B	<6.95	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Endrin ketone	EPA 8081B	<6.67	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
gamma-BHC (Lindane)	EPA 8081B	<7.19	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Heptachlor	EPA 8081B	<7.07	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Heptachlor epoxide	EPA 8081B	<7.25	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Methoxychlor	EPA 8081B	<7.33	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
Toxaphene	EPA 8081B	<11.8	U	µg/kg	65.8	1	01/17/26 09:18	01/15/26 11:12
trans-Chlordane	EPA 8081B	<7.28	U	µg/kg	11.0	1	01/17/26 09:18	01/15/26 11:12
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	111		%REC	53-151	1	01/17/26 09:18	01/15/26 11:12
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	83.9		%REC	67-127	1	01/17/26 09:18	01/15/26 11:12

Polychlorinated Biphenyls (PCBs) by GC/ECD

Aroclor 1016	EPA 8082A	<25.1	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1221	EPA 8082A	<25.1	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1232	EPA 8082A	<25.1	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1242	EPA 8082A	<25.1	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1248	EPA 8082A	<25.1	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1254	EPA 8082A	<20.4	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1260	EPA 8082A	<20.4	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1262	EPA 8082A	<20.4	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Aroclor 1268	EPA 8082A	<20.4	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
Total PCB	EPA 8082A	<20.4	U	µg/kg	73.1	1	01/17/26 01:34	01/15/26 14:20
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	123		%REC	54-146	1	01/17/26 01:34	01/15/26 14:20
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	104		%REC	58-140	1	01/17/26 01:34	01/15/26 14:20

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<5.92	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<8.42	U	µg/kg	365	1	01/19/26 21:40	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<26.2	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
1-Methylnaphthalene	EPA 8270E	<5.25	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	EPA 8270E	<8.55	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,3,4,6-Tetrachlorophenol	EPA 8270E	<26.7	U	µg/kg	73.0	1	01/19/26 21:40	01/16/26 10:00
2,4,5-Trichlorophenol	EPA 8270E	<21.6	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,4,6-Trichlorophenol	EPA 8270E	<9.71	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,4-Dichlorophenol	EPA 8270E	<19.6	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,4-Dimethylphenol	EPA 8270E	<18.8	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,4-Dinitrophenol	EPA 8270E	<267	U	µg/kg	365	1	01/19/26 21:40	01/16/26 10:00
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<23.7	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<9.32	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2-Chloronaphthalene	EPA 8270E	<5.10	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
2-Chlorophenol	EPA 8270E	<23.9	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<30.5	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2-Methylnaphthalene	EPA 8270E	<3.71	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
2-Methylphenol (o-Cresol)	EPA 8270E	<9.86	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2-Nitroaniline	EPA 8270E	<20.3	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
2-Nitrophenol	EPA 8270E	<10.4	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
3&4-Methylphenol	EPA 8270E	<19.9	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
3,3'-Dichlorobenzidine	EPA 8270E	<17.0	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
3-Nitroaniline	EPA 8270E	<21.2	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<20.0	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
4-Chloro-3-methylphenol	EPA 8270E	<10.4	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
4-Chloroaniline	EPA 8270E	<18.5	U	µg/kg	73.0	1	01/19/26 21:40	01/16/26 10:00
4-Chlorophenyl phenylether	EPA 8270E	<10.1	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
4-Nitroaniline	EPA 8270E	<56.6	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
4-Nitrophenol	EPA 8270E	<85.5	U	µg/kg	365	1	01/19/26 21:40	01/16/26 10:00
Acenaphthene	EPA 8270E	<5.28	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Acenaphthylene	EPA 8270E	<6.33	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Acetophenone	EPA 8270E	<5.71	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Anthracene	EPA 8270E	<5.15	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Atrazine	EPA 8270E	<21.4	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Benzaldehyde	EPA 8270E	<56.1	U	µg/kg	73.0	1	01/19/26 21:40	01/16/26 10:00
Benzo(a)anthracene	EPA 8270E	<6.31	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Benzo(a)pyrene	EPA 8270E	<4.48	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Benzo(b)fluoranthene	EPA 8270E	<5.44	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Benzo(g,h,i)perylene	EPA 8270E	<5.59	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Benzo(k)fluoranthene	EPA 8270E	<5.53	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
bis(2-Chloroethoxy) methane	EPA 8270E	<23.1	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
bis(2-Chloroethyl) ether	EPA 8270E	<10.3	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Butyl benzyl phthalate	EPA 8270E	<45.7	U	µg/kg	73.0	1	01/19/26 21:40	01/16/26 10:00
Caprolactam	EPA 8270E	<32.9	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Carbazole	EPA 8270E	<10.8	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Chrysene	EPA 8270E	<5.90	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	EPA 8270E	<30.2	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Dibenz(a,h) anthracene	EPA 8270E	<3.94	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Dibenzofuran	EPA 8270E	<5.36	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Diethyl phthalate	EPA 8270E	<12.4	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Dimethyl phthalate	EPA 8270E	<7.12	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Fluoranthene	EPA 8270E	<3.50	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Fluorene	EPA 8270E	<5.30	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Hexachlorobenzene	EPA 8270E	<10.6	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Hexachlorobutadiene	EPA 8270E	<8.60	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Hexachlorocyclopentadiene	EPA 8270E	<34.6	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Hexachloroethane	EPA 8270E	<15.1	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Indeno(1,2,3-cd) pyrene	EPA 8270E	<5.08	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Isophorone	EPA 8270E	<7.13	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
Methylphenol, Total	EPA 8270E	<9.86	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Naphthalene	EPA 8270E	<4.66	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Nitrobenzene	EPA 8270E	<12.3	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
n-Nitrosodi-n-propylamine	EPA 8270E	<6.02	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
N-Nitrosodiphenylamine	EPA 8270E	<21.1	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Pentachlorophenol	EPA 8270E	<29.0	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Phenanthrene	EPA 8270E	<3.39	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Phenol	EPA 8270E	<18.3	U	µg/kg	36.1	1	01/19/26 21:40	01/16/26 10:00
Pyrene	EPA 8270E	<3.64	U	µg/kg	7.30	1	01/19/26 21:40	01/16/26 10:00
Pyridine	EPA 8270E	<71.8	U	µg/kg	182	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	78.4		%REC	48-94	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	84.5		%REC	50-103	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	86.0		%REC	43-105	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	84.3		%REC	55-111	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	99.1		%REC	47-100	1	01/19/26 21:40	01/16/26 10:00
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	86.1		%REC	49-110	1	01/19/26 21:40	01/16/26 10:00

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	<16.8	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,1,2,2-Tetrachloroethane	EPA 8260D	<16.4	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	<23.5	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,1,2-Trichloroethane	EPA 8260D	<15.8	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,1-Dichloroethane	EPA 8260D	<13.5	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,1-Dichloroethylene	EPA 8260D	<12.0	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,2,3-Trichlorobenzene	EPA 8260D	<44.5	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
1,2,3-Trichloropropane	EPA 8260D	<15.5	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,2,4-Trichlorobenzene	EPA 8260D	<42.0	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
1,2,4-Trimethylbenzene	EPA 8260D	<27.2	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	<34.1	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	<21.8	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	<14.1	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<21.8	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
1,2-Dichloropropane	EPA 8260D	<27.3	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,3,5-Trimethylbenzene	EPA 8260D	<26.2	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
1,3-Dichlorobenzene (m- Dichlorobenzene)	EPA 8260D	<25.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
1,3-Dichloropropene	EPA 8260D	<20.7	U	µg/kg	74.2	1	01/16/26 17:38	01/15/26 10:39
1,4-Dichlorobenzene (p- Dichlorobenzene)	EPA 8260D	<30.1	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<88.3	U	µg/kg	247	1	01/16/26 17:38	01/15/26 10:39
2-Hexanone	EPA 8260D	<18.4	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
4-Methyl-2-pentanone (MIBK)	EPA 8260D	<34.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Acetone	EPA 8260D	<110	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
Benzene	EPA 8260D	<18.0	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Bromochloromethane	EPA 8260D	<18.9	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Bromodichloromethane	EPA 8260D	<20.8	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Bromoform	EPA 8260D	<15.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Carbon disulfide	EPA 8260D	<19.2	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Carbon tetrachloride	EPA 8260D	<14.5	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Chlorobenzene	EPA 8260D	<12.3	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Chlorodibromomethane	EPA 8260D	<20.8	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Chloroethane (Ethyl chloride)	EPA 8260D	<104	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
Chloroform	EPA 8260D	<13.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
cis-1,2-Dichloroethylene	EPA 8260D	<23.9	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
cis-1,3-Dichloropropene	EPA 8260D	<27.9	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Cyclohexane	EPA 8260D	<28.4	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
Dichlorodifluoromethane (Freon-12)	EPA 8260D	<44.9	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
Ethylbenzene	EPA 8260D	<26.3	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Isopropylbenzene	EPA 8260D	<23.4	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
m+p-Xylene	EPA 8260D	<49.5	U	µg/kg	74.2	1	01/16/26 17:38	01/15/26 10:39
Methyl acetate	EPA 8260D	<44.4	U	µg/kg	309	1	01/16/26 17:38	01/15/26 10:39
Methyl bromide (Bromomethane)	EPA 8260D	<70.9	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00

CLIENT ID: 3044 SB03(1-2')_20260114

Lab ID: HN2600652-003

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methyl chloride (Chloromethane)	EPA 8260D	<101	U	µg/kg	124	1	01/16/26 17:38	01/15/26 10:39
Methyl tert-butyl ether (MTBE)	EPA 8260D	<27.1	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Methylcyclohexane	EPA 8260D	<14.1	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Methylene chloride (Dichloromethane)	EPA 8260D	<98.4	U	µg/kg	309	1	01/16/26 17:38	01/15/26 10:39
o-Xylene	EPA 8260D	<14.3	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Styrene	EPA 8260D	<14.7	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<22.3	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Toluene	EPA 8260D	<30.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Total Xylene	EPA 8260D	<14.3	U	µg/kg	111	1	01/16/26 17:38	01/15/26 10:39
trans-1,2-Dichloroethylene	EPA 8260D	<30.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
trans-1,3-Dichloropropylene	EPA 8260D	<20.7	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Trichloroethene (Trichloroethylene)	EPA 8260D	<16.6	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	<19.0	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
Vinyl chloride (Chloroethene)	EPA 8260D	<24.7	U	µg/kg	37.1	1	01/16/26 17:38	01/15/26 10:39
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	01/16/26 17:38	01/15/26 10:39
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.7		%REC	80-120	1	01/16/26 17:38	01/15/26 10:39
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	99.2		%REC	72-120	1	01/16/26 17:38	01/15/26 10:39
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.8		%REC	80-120	1	01/16/26 17:38	01/15/26 10:39



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419429

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3831860

Chlorinated Herbicides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2419429-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/20/26 16:09

Prep Date: 01/16/26 12:33

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	32.0	µg/kg		50		64.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2419429-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/20/26 16:09

Prep Date: 01/16/26 12:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	27.0	µg/kg	5.00	50		54.0	10-119			
2,4,5-TP (Silvex)	23.0	µg/kg	5.00	50		46.0	10-101			
2,4-D	28.0	µg/kg	10.0	50		56.0	10-128			
Surr: DCAA	28.0	µg/kg		50		56.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2419429-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/20/26 16:09

Prep Date: 01/16/26 12:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	24.8	µg/kg	5.80	49.613	<0.913	50.0	10-119			
2,4,5-TP (Silvex)	24.8	µg/kg	5.80	49.613	<1.63	50.0	10-101			
2,4-D	52.6	µg/kg	11.6	49.613	<2.65	106	10-128			
Surr: DCAA	70.5	µg/kg		49.613		142	10-116			S

MSD	CLIENT ID: Batch QC	Lab ID: QC-2419429-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 01/20/26 16:09

Prep Date: 01/16/26 12:33

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	21.9	µg/kg	5.80	49.68	<0.920	44.0	10-119	12.6	30	
2,4,5-TP (Silvex)	22.9	µg/kg	5.80	49.68	<1.64	46.0	10-101	8.20	30	
2,4-D	24.8	µg/kg	11.6	49.68	<2.67	50.0	10-128	71.7	30	R
Surr: DCAA	28.8	µg/kg		49.68		58.0	10-116	83.9	30	R

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417863

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3824453

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2417863-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/16/26 04:18
Prep Date: 01/15/26 15:11

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-2417863-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 01/16/26 04:26
Prep Date: 01/15/26 15:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	92.5	mg/kg	10.0	100		92.5	87-110			

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2418880

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3823636

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2418880-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/15/26 22:55
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2418880-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/15/26 22:55
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	100	%	0.1	100		100.0	98-102			

DUP	CLIENT ID: Batch QC	Lab ID: QC-2418880-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/15/26 22:55
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	9.0	%	0.1		9.1			1.88	10	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2418880

Work Order: HN2600652
Date Collected: 01/14/26 14:35
Date Received: 01/15/26 06:00
Run ID: 3829216

General Chemistry Parameters

DUP	CLIENT ID: 3044 SB03(1-2')_20260114	Lab ID: QC-2418880-015
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Method: EPA 3550C	Dilution: 1	Analysis Date: 01/19/26 16:41
Prep Date: NA		

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	10.4	%	0.1		10.2			2.23	10	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2422280

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829216

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2422280-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/19/26 16:41
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2422280-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/19/26 16:41
Prep Date: NA

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

DUP	CLIENT ID: Batch QC	Lab ID: QC-2422280-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/19/26 16:41
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	71.3	%	0.1		71.4			0.196	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2422280-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 01/19/26 16:41
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	25.0	%	0.1		23.2			7.30	10	

The following samples were analyzed in this batch: HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2424616

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3834102

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2424616-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/21/26 19:37
Prep Date: 01/21/26 10:07

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-2424616-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 01/21/26 19:38
Prep Date: 01/21/26 10:07

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.81	mg/kg	0.250	5		96.2	80-120			
Barium	5.28	mg/kg	0.250	5		106	80-120			
Cadmium	4.79	mg/kg	0.100	5		95.8	80-120			
Chromium	4.75	mg/kg	0.250	5		95.1	80-120			
Copper	4.64	mg/kg	0.250	5		92.8	80-120			
Lead	5.04	mg/kg	0.250	5		101	80-120			
Selenium	4.79	mg/kg	0.250	5		95.9	80-120			
Silver	4.79	mg/kg	0.250	5		95.9	80-120			
Zinc	4.64	mg/kg	0.500	5		92.9	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2424616-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/21/26 19:42
Prep Date: 01/21/26 10:07

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	14.1	mg/kg	3.53	5.9453	6.35	148	75-125			S
Barium	100	mg/kg	3.53	5	74.9	NC	75-125			O
Cadmium	5.96	mg/kg	1.41	5.9453	<0.178	98.1	75-125			
Chromium	23.3	mg/kg	3.53	5.9453	16.0	165	75-125			S
Copper	15.2	mg/kg	3.53	5.9453	11.6	90.9	75-125			
Lead	19.6	mg/kg	3.53	5.9453	13.1	145	75-125			S
Selenium	5.70	mg/kg	3.53	5.9453	<2.73	80.8	75-125			
Silver	5.84	mg/kg	3.53	5.9453	<0.392	97.7	75-125			
Zinc	54.0	mg/kg	7.07	5	49.8	NC	75-125			O

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2424616

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3834102

MSD	CLIENT ID: Batch QC	Lab ID: QC-2424616-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/21/26 19:44
Prep Date: 01/21/26 10:07

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	11.1	mg/kg	3.50	5.8823	6.35	97.1	75-125	24.3	20	R
Barium	72.2	mg/kg	3.50	5	74.9	NC	75-125	32.6	20	OR
Cadmium	5.54	mg/kg	1.40	5.8823	<0.176	92.0	75-125	7.32	20	
Chromium	20.1	mg/kg	3.50	5.8823	16.0	113	75-125	14.5	20	
Copper	14.6	mg/kg	3.50	5.8823	11.6	81.5	75-125	4.08	20	
Lead	16.1	mg/kg	3.50	5.8823	13.1	87.5	75-125	19.5	20	
Selenium	5.93	mg/kg	3.50	5.8823	<2.71	85.5	75-125	3.86	20	
Silver	5.37	mg/kg	3.50	5.8823	<0.388	90.6	75-125	8.49	20	
Zinc	49.0	mg/kg	6.99	5	49.8	NC	75-125	9.78	20	O

PDS	CLIENT ID: Batch QC	Lab ID: QC-2424616-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 01/21/26 19:50
Prep Date: 01/21/26 10:07

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	77.4	mg/kg	3.41	57.405	6.35	126	75-125			S
Barium	152	mg/kg	3.41	57.405	74.9	155	75-125			S
Cadmium	66.0	mg/kg	1.37	57.405	<0.172	115	75-125			
Chromium	83.2	mg/kg	3.41	57.405	16.0	121	75-125			
Copper	77.1	mg/kg	3.41	57.405	11.6	117	75-125			
Lead	82.7	mg/kg	3.41	57.405	13.1	125	75-125			
Selenium	66.5	mg/kg	3.41	57.405	<2.64	114	75-125			
Silver	57.0	mg/kg	3.41	57.405	<0.379	99.2	75-125			
Zinc	117	mg/kg	6.83	57.405	49.8	131	75-125			S

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2424731

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3835911

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2424731-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/22/26 10:50
Prep Date: 01/22/26 10:04

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-2424731-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/22/26 10:52
Prep Date: 01/22/26 10:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.161	mg/kg	0.0200	0.1665		96.6	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2424731-007
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/22/26 10:57
Prep Date: 01/22/26 10:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.157	mg/kg	0.0226	0.16539	0.0175	85.8	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2424731-008
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 01/22/26 10:59
Prep Date: 01/22/26 10:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.144	mg/kg	0.0206	0.15113	0.0175	84.9	75-125	9.01	35	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417569

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828914

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2417569-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/16/26 13:48**Prep Date:** 01/15/26 11:13

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	40.0	µg/kg		33.33		120	53-151			
Surr: Tetrachloro-m-xylene	29.8	µg/kg		33.33		89.4	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417569-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 01/16/26 14:03**Prep Date:** 01/15/26 11:13

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	33.1	µg/kg	10.0	33.33		99.2	55-141			
4,4'-DDE	32.6	µg/kg	10.0	33.33		97.7	55-143			
4,4'-DDT	34.6	µg/kg	10.0	33.33		104	50-144			
Aldrin	33.5	µg/kg	10.0	33.33		100	57-141			
alpha-BHC	32.6	µg/kg	10.0	33.33		97.9	58-144			
beta-BHC	32.9	µg/kg	10.0	33.33		98.6	55-147			
cis-Chlordane	32.9	µg/kg	10.0	33.33		98.7	58-142			
delta-BHC	29.3	µg/kg	10.0	33.33		88.0	59-142			
Dieldrin	32.2	µg/kg	10.0	33.33		96.5	59-142			
Endosulfan I	32.2	µg/kg	10.0	33.33		96.6	57-145			
Endosulfan II	33.1	µg/kg	10.0	33.33		99.2	58-138			
Endosulfan sulfate	33.0	µg/kg	10.0	33.33		98.9	54-136			
Endrin	36.3	µg/kg	10.0	33.33		109	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417569

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828914

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417569-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/16/26 14:03

Prep Date: 01/15/26 11:13

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	30.9	µg/kg	10.0	33.33		92.7	41-147			
Endrin ketone	34.2	µg/kg	10.0	33.33		103	54-146			
gamma-BHC (Lindane)	32.4	µg/kg	10.0	33.33		97.2	58-145			
Heptachlor	40.0	µg/kg	10.0	33.33		120	51-145			
Heptachlor epoxide	33.4	µg/kg	10.0	33.33		100	59-143			
Methoxychlor	36.5	µg/kg	10.0	33.33		109	43-144			
trans-Chlordane	32.9	µg/kg	10.0	33.33		98.7	56-145			
Surr: Decachlorobiphenyl	42.2	µg/kg		33.33		127	51-151			
Surr: Tetrachloro-m-xylene	32.0	µg/kg		33.33		95.9	67-127			

MS	CLIENT ID: Batch QC	Lab ID: QC-2417569-005
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/16/26 14:17

Prep Date: 01/15/26 11:13

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	31.1	µg/kg	10.1	32.792	<6.29	94.9	55-141			
4,4'-DDE	31.4	µg/kg	10.1	32.792	<6.48	95.8	55-143			
4,4'-DDT	34.3	µg/kg	10.1	32.792	<6.54	105	50-144			
Aldrin	31.3	µg/kg	10.1	32.792	<6.39	95.5	57-141			
alpha-BHC	31.0	µg/kg	10.1	32.792	<6.48	94.4	58-144			
beta-BHC	31.4	µg/kg	10.1	32.792	<6.46	95.7	55-147			
cis-Chlordane	30.9	µg/kg	10.1	32.792	<6.57	94.3	58-142			
delta-BHC	27.8	µg/kg	10.1	32.792	<6.44	84.8	59-142			
Dieldrin	30.0	µg/kg	10.1	32.792	<6.88	91.4	59-142			
Endosulfan I	30.4	µg/kg	10.1	32.792	<6.61	92.6	57-145			
Endosulfan II	31.6	µg/kg	10.1	32.792	<6.52	96.5	58-138			
Endosulfan sulfate	31.9	µg/kg	10.1	32.792	<6.05	97.4	54-135			
Endrin	34.3	µg/kg	10.1	32.792	<7.96	105	45-150			
Endrin aldehyde	37.9	µg/kg	10.1	32.792	<6.24	116	41-147			
Endrin ketone	32.8	µg/kg	10.1	32.792	<5.99	100	54-146			
gamma-BHC (Lindane)	31.2	µg/kg	10.1	32.792	<6.46	95.2	58-145			
Heptachlor	38.3	µg/kg	10.1	32.792	<6.35	117	51-145			
Heptachlor epoxide	31.5	µg/kg	10.1	32.792	<6.51	96.0	59-143			
Methoxychlor	37.5	µg/kg	10.1	32.792	<6.58	114	43-144			
trans-Chlordane	31.0	µg/kg	10.1	32.792	<6.53	94.4	56-145			
Surr: Decachlorobiphenyl	38.2	µg/kg		32.792		117	53-151			
Surr: Tetrachloro-m-xylene	29.1	µg/kg		32.792		88.7	67-127			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2417569-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/16/26 14:32

Prep Date: 01/15/26 11:13

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	29.7	µg/kg	10.2	33.004	<6.39	89.9	55-141	4.77	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417569

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828914

MSD	CLIENT ID: Batch QC	Lab ID: QC-2417569-006
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Method: EPA 8081B

Dilution: 1

Analysis Date: 01/16/26 14:32

Prep Date: 01/15/26 11:13

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDE	29.2	µg/kg	10.2	33.004	<6.59	88.4	55-143	7.34	20	
4,4'-DDT	31.8	µg/kg	10.2	33.004	<6.65	96.4	50-144	7.42	20	
Aldrin	30.2	µg/kg	10.2	33.004	<6.50	91.4	57-141	3.69	20	
alpha-BHC	29.5	µg/kg	10.2	33.004	<6.58	89.3	58-144	4.96	20	
beta-BHC	29.1	µg/kg	10.2	33.004	<6.57	88.3	55-147	7.40	20	
cis-Chlordane	29.5	µg/kg	10.2	33.004	<6.68	89.5	58-142	4.63	20	
delta-BHC	26.1	µg/kg	10.2	33.004	<6.55	79.0	59-142	6.44	20	
Dieldrin	30.0	µg/kg	10.2	33.004	<6.99	90.8	59-142	0.0688	20	
Endosulfan I	28.6	µg/kg	10.2	33.004	<6.72	86.8	57-145	5.83	20	
Endosulfan II	30.0	µg/kg	10.2	33.004	<6.62	91.0	58-138	5.28	20	
Endosulfan sulfate	30.5	µg/kg	10.2	33.004	<6.15	92.4	54-135	4.68	20	
Endrin	32.8	µg/kg	10.2	33.004	<8.09	99.5	45-150	4.40	20	
Endrin aldehyde	36.3	µg/kg	10.2	33.004	<6.34	110	41-147	4.32	20	
Endrin ketone	31.2	µg/kg	10.2	33.004	<6.08	94.7	54-146	4.85	20	
gamma-BHC (Lindane)	28.9	µg/kg	10.2	33.004	<6.56	87.7	58-145	7.56	20	
Heptachlor	35.7	µg/kg	10.2	33.004	<6.45	108	51-145	7.22	20	
Heptachlor epoxide	30.2	µg/kg	10.2	33.004	<6.62	91.4	59-143	4.21	20	
Methoxychlor	34.2	µg/kg	10.2	33.004	<6.69	104	43-144	9.08	20	
trans-Chlordane	29.6	µg/kg	10.2	33.004	<6.64	89.8	56-145	4.41	20	
Surr: Decachlorobiphenyl	36.6	µg/kg		33.004		111	53-151	4.28	30	
Surr: Tetrachloro-m-xylene	27.2	µg/kg		33.004		82.4	67-127	6.72	30	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417548

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828351

Polychlorinated Biphenyls (PCBs) by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2417548-001
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/16/26 15:53
Prep Date: 01/15/26 14:21

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	41.2	µg/kg		33.3		124	54-146			
Surr: Tetrachloro-m-xylene	36.5	µg/kg		33.3		110	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417548-002
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/16/26 16:05
Prep Date: 01/15/26 14:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	780	µg/kg	66.7	833		93.6	71-135			
Aroclor 1260	781	µg/kg	66.7	833		93.8	67-135			
Surr: Decachlorobiphenyl	38.9	µg/kg		33.3		117	54-146			
Surr: Tetrachloro-m-xylene	31.9	µg/kg		33.3		95.8	58-140			

MS	CLIENT ID: Batch QC	Lab ID: QC-2417548-005
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/16/26 16:16
Prep Date: 01/15/26 14:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	811	µg/kg	66.9	811.36	<22.3	100.0	71-135			
Aroclor 1260	768	µg/kg	66.9	811.36	<18.1	94.6	67-135			
Surr: Decachlorobiphenyl	38.3	µg/kg		32.435		118	54-146			
Surr: Tetrachloro-m-xylene	33.2	µg/kg		32.435		102	58-140			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2417548-006
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Method: EPA 8082A **Dilution:** 1 **Analysis Date:** 01/16/26 16:28
Prep Date: 01/15/26 14:21

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	798	µg/kg	67.9	823.56	<22.9	96.9	71-135	1.60	20	
Aroclor 1260	770	µg/kg	67.9	823.56	<18.6	93.5	67-135	0.247	20	
Surr: Decachlorobiphenyl	38.3	µg/kg		32.922		116	54-146	0.131	30	
Surr: Tetrachloro-m-xylene	32.4	µg/kg		32.922		98.3	58-140	2.45	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417548

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828351

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2419424-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/19/26 15:44**Prep Date:** 01/16/26 10:01

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: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

MB	CLIENT ID: Method Blank	Lab ID: QC-2419424-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 15:44

Prep Date: 01/16/26 10:01

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	2620	µg/kg		3333		78.5	48-94			
Surr: 2-Fluorobiphenyl	2730	µg/kg		3333		81.9	50-103			
Surr: 2-Fluorophenol	2780	µg/kg		3333		83.3	43-105			
Surr: 4-Terphenyl-d14	2850	µg/kg		3333		85.6	55-111			
Surr: Nitrobenzene-d5	3120	µg/kg		3333		93.5	47-100			
Surr: Phenol-d6	2760	µg/kg		3333		82.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2419424-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 16:05

Prep Date: 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1130	µg/kg	33.0	1333		84.7	57-101			
1,2,4,5-Tetrachlorobenzene	1190	µg/kg	33.0	1333		89.0	54-98			
1-Methylnaphthalene	1160	µg/kg	6.67	1333		87.4	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1100	µg/kg	33.0	1333		82.5	50-101			
2,3,4,6-Tetrachlorophenol	1180	µg/kg	67.0	1333		88.3	48-103			



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2419424-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 16:05

Prep Date: 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1220	µg/kg	33.0	1333		91.7	54-98			
2,4,6-Trichlorophenol	1120	µg/kg	33.0	1333		84.1	56-97			
2,4-Dichlorophenol	1190	µg/kg	33.0	1333		88.9	54-99			
2,4-Dimethylphenol	1000	µg/kg	33.0	1333		75.3	47-102			
2,4-Dinitrophenol	1200	µg/kg	333	1333		90.3	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1160	µg/kg	33.0	1333		87.0	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1190	µg/kg	33.0	1333		89.3	62-103			
2-Chloronaphthalene	1120	µg/kg	6.67	1333		84.1	57-101			
2-Chlorophenol	1080	µg/kg	33.0	1333		80.9	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1300	µg/kg	33.0	1333		97.7	42-104			
2-Methylnaphthalene	1130	µg/kg	6.67	1333		85.1	55-102			
2-Methylphenol (o-Cresol)	1060	µg/kg	33.0	1333		79.7	54-103			
2-Nitroaniline	1290	µg/kg	33.0	1333		97.0	57-103			
2-Nitrophenol	1310	µg/kg	33.0	1333		98.2	52-102			
3&4-Methylphenol	1040	µg/kg	33.0	1333		77.8	56-103			
3,3'-Dichlorobenzidine	832	µg/kg	167	1333		62.4	41-91			
3-Nitroaniline	820	µg/kg	33.0	1333		61.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1160	µg/kg	33.0	1333		87.2	63-104			
4-Chloro-3-methylphenol	1200	µg/kg	33.0	1333		89.9	57-103			
4-Chloroaniline	1220	µg/kg	67.0	1333		91.8	32-99			
4-Chlorophenyl phenylether	1100	µg/kg	33.0	1333		82.8	62-100			
4-Nitroaniline	655	µg/kg	167	1333		49.1	19-124			
4-Nitrophenol	1120	µg/kg	333	1333		84.4	44-106			
Acenaphthene	1140	µg/kg	6.67	1333		85.7	60-101			
Acenaphthylene	1170	µg/kg	6.67	1333		87.9	59-101			
Acetophenone	1080	µg/kg	33.0	1333		81.0	54-102			
Anthracene	1160	µg/kg	6.67	1333		86.7	63-96			
Atrazine	1150	µg/kg	33.0	1333		86.4	60-110			
Benzaldehyde	309	µg/kg	67.0	1333		23.2	10-143			
Benzo(a)anthracene	1130	µg/kg	6.67	1333		84.8	66-102			
Benzo(a)pyrene	1190	µg/kg	6.67	1333		89.3	66-105			
Benzo(b)fluoranthene	1170	µg/kg	6.67	1333		87.9	67-105			
Benzo(g,h,i)perylene	1190	µg/kg	6.67	1333		89.6	59-110			
Benzo(k)fluoranthene	1150	µg/kg	6.67	1333		86.1	68-106			
bis(2-Chloroethoxy)methane	1100	µg/kg	33.0	1333		82.5	54-102			
bis(2-Chloroethyl) ether	1160	µg/kg	33.0	1333		87.3	51-101			
Butyl benzyl phthalate	1190	µg/kg	67.0	1333		88.9	59-107			
Caprolactam	1180	µg/kg	33.0	1333		88.3	49-103			
Carbazole	1150	µg/kg	33.0	1333		85.9	63-103			
Chrysene	1160	µg/kg	6.67	1333		87.3	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1260	µg/kg	33.0	1333		94.7	63-101			
Dibenz(a,h) anthracene	1210	µg/kg	33.0	1333		91.0	61-109			
Dibenzofuran	1150	µg/kg	33.0	1333		86.3	61-101			
Diethyl phthalate	1160	µg/kg	33.0	1333		86.8	63-105			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2419424-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/19/26 16:05**Prep Date:** 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1160	µg/kg	33.0	1333		87.1	64-104			
Fluoranthene	1160	µg/kg	6.67	1333		86.8	66-105			
Fluorene	1150	µg/kg	6.67	1333		86.3	62-101			
Hexachlorobenzene	1150	µg/kg	33.0	1333		86.3	61-104			
Hexachlorobutadiene	1140	µg/kg	33.0	1333		85.2	52-99			
Hexachlorocyclopentadiene	939	µg/kg	33.0	1333		70.5	39-106			
Hexachloroethane	1070	µg/kg	33.0	1333		80.3	59-99			
Indeno(1,2,3-cd) pyrene	1250	µg/kg	6.67	1333		94.0	57-114			
Isophorone	1180	µg/kg	167	1333		88.7	55-101			
Methylphenol, Total	2100	µg/kg	67.0	2667		78.7	54-103			
Naphthalene	1140	µg/kg	6.67	1333		85.6	54-99			
Nitrobenzene	1210	µg/kg	167	1333		90.5	53-100			
n-Nitrosodi-n-propylamine	1110	µg/kg	33.0	1333		83.5	52-104			
N-Nitrosodiphenylamine	1150	µg/kg	33.0	1333		86.6	61-104			
Pentachlorophenol	1070	µg/kg	33.0	1333		80.4	35-100			
Phenanthrene	1190	µg/kg	6.67	1333		89.6	64-101			
Phenol	1060	µg/kg	33.0	1333		79.7	51-107			
Pyrene	1140	µg/kg	6.67	1333		85.4	62-114			
Pyridine	860	µg/kg	167	1333		64.5	40-84			
Surr: 2,4,6-Tribromophenol	2830	µg/kg		3333		84.8	48-94			
Surr: 2-Fluorobiphenyl	2850	µg/kg		3333		85.5	50-103			
Surr: 2-Fluorophenol	2680	µg/kg		3333		80.5	43-105			
Surr: 4-Terphenyl-d14	2790	µg/kg		3333		83.7	55-111			
Surr: Nitrobenzene-d5	3240	µg/kg		3333		97.2	47-100			
Surr: Phenol-d6	2830	µg/kg		3333		85.0	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2419424-005
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 01/19/26 17:29**Prep Date:** 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2780	µg/kg	93.1	3209.5	27.0	86.0	57-101			
1,2,4,5-Tetrachlorobenzene	2810	µg/kg	939	3209.5	<18.5	87.5	54-98			
1-Methylnaphthalene	2860	µg/kg	18.8	3209.5	56.0	87.7	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2740	µg/kg	93.1	3209.5	<18.8	85.4	50-101			
2,3,4,6-Tetrachlorophenol	<58.8	µg/kg	188	3209.5	<58.8	2.15	48-103			SU
2,4,5-Trichlorophenol	172	µg/kg	93.1	3209.5	<47.6	5.35	54-98			S
2,4,6-Trichlorophenol	114	µg/kg	93.1	3209.5	<21.4	3.55	56-97			S
2,4-Dichlorophenol	510	µg/kg	93.1	3209.5	<43.2	15.9	54-99			S
2,4-Dimethylphenol	2250	µg/kg	93.1	3209.5	<41.3	70.1	47-102			
2,4-Dinitrophenol	<587	µg/kg	939	3209.5	<587	0.00	10-100			SU
2,4-Dinitrotoluene (2,4-DNT)	2800	µg/kg	93.1	3209.5	<52.1	87.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	2890	µg/kg	93.1	3209.5	<20.5	90.0	62-103			
2-Chloronaphthalene	2850	µg/kg	18.8	3209.5	<11.2	88.8	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

MS	CLIENT ID: Batch QC	Lab ID: QC-2419424-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 17:29

Prep Date: 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	814	µg/kg	93.1	3209.5	<52.5	25.4	52-102			S
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<67.0	µg/kg	93.1	3209.5	<67.0	0.00	42-104			SU
2-Methylnaphthalene	2860	µg/kg	18.8	3209.5	86.9	86.7	55-102			
2-Methylphenol (o-Cresol)	2350	µg/kg	93.1	3209.5	<21.7	73.3	54-103			
2-Nitroaniline	3140	µg/kg	93.1	3209.5	<44.6	97.9	57-103			
2-Nitrophenol	451	µg/kg	93.1	3209.5	<22.9	14.1	52-102			S
3&4-Methylphenol	2250	µg/kg	93.1	3209.5	<43.7	70.2	56-103			
3,3'-Dichlorobenzidine	2290	µg/kg	470	3209.5	<37.5	71.4	41-91			
3-Nitroaniline	1380	µg/kg	93.1	3209.5	<46.6	43.1	35-107			
4-Bromophenyl phenyl ether (BDE-3)	2910	µg/kg	93.1	3209.5	<44.0	90.7	63-104			
4-Chloro-3-methylphenol	2500	µg/kg	93.1	3209.5	<22.9	78.0	57-103			
4-Chloroaniline	2260	µg/kg	188	3209.5	61.8	68.9	32-99			
4-Chlorophenyl phenylether	2760	µg/kg	93.1	3209.5	<22.2	85.9	62-100			
4-Nitroaniline	804	µg/kg	470	3209.5	<124	25.1	19-124			
4-Nitrophenol	<188	µg/kg	939	3209.5	<188	0.00	44-106			SU
Acenaphthene	2830	µg/kg	18.8	3209.5	<11.6	88.3	60-101			
Acenaphthylene	2870	µg/kg	18.8	3209.5	<13.9	89.4	59-101			
Acetophenone	2650	µg/kg	93.1	3209.5	<12.6	82.5	54-102			
Anthracene	2860	µg/kg	18.8	3209.5	<11.3	89.0	63-96			
Atrazine	2890	µg/kg	93.1	3209.5	<47.0	90.0	60-110			
Benzaldehyde	302	µg/kg	188	3209.5	<123	7.50	10-143			S
Benzo(a)anthracene	2870	µg/kg	18.8	3209.5	21.2	88.9	66-102			
Benzo(a)pyrene	2970	µg/kg	18.8	3209.5	<9.85	92.5	66-105			
Benzo(b)fluoranthene	2950	µg/kg	18.8	3209.5	<12.0	91.9	67-105			
Benzo(g,h,i)perylene	3150	µg/kg	18.8	3209.5	<12.3	98.2	59-110			
Benzo(k)fluoranthene	2840	µg/kg	18.8	3209.5	<12.2	88.4	68-106			
bis(2-Chloroethoxy)methane	2740	µg/kg	93.1	3209.5	<50.8	85.4	54-102			
bis(2-Chloroethyl) ether	3170	µg/kg	93.1	3209.5	<22.7	98.7	51-101			
Butyl benzyl phthalate	3180	µg/kg	188	3209.5	<100	99.1	59-107			
Caprolactam	2750	µg/kg	93.1	3209.5	<72.4	85.7	49-103			
Carbazole	2700	µg/kg	93.1	3209.5	<23.7	84.1	63-103			
Chrysene	2960	µg/kg	18.8	3209.5	<13.7	91.8	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3390	µg/kg	93.1	3209.5	96.5	103	63-101			S
Dibenz(a,h) anthracene	3100	µg/kg	93.1	3209.5	<8.67	96.6	61-109			
Dibenzofuran	2880	µg/kg	93.1	3209.5	25.1	89.0	61-101			
Diethyl phthalate	2910	µg/kg	93.1	3209.5	<27.3	90.5	63-105			
Dimethyl phthalate	2870	µg/kg	93.1	3209.5	<15.7	89.3	64-104			
Fluoranthene	2910	µg/kg	18.8	3209.5	25.1	89.9	66-105			
Fluorene	2820	µg/kg	18.8	3209.5	<11.7	88.0	62-101			
Hexachlorobenzene	2980	µg/kg	93.1	3209.5	<23.4	92.8	61-104			
Hexachlorobutadiene	2870	µg/kg	93.1	3209.5	<18.9	89.6	52-99			
Hexachlorocyclopentadiene	2020	µg/kg	93.1	3209.5	<78.5	63.1	39-106			
Hexachloroethane	2690	µg/kg	93.1	3209.5	<33.2	83.8	59-99			
Indeno(1,2,3-cd) pyrene	3230	µg/kg	18.8	3209.5	<11.2	101	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

MS		CLIENT ID: Batch QC				Lab ID: QC-2419424-005				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/19/26 17:29				
						Prep Date: 01/16/26 10:01				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	2850	µg/kg	470	3209.5	<15.7	88.8	55-101			
Methylphenol, Total	4610	µg/kg	93.1	6421.3	<21.7	71.7	54-103			
Naphthalene	2830	µg/kg	18.8	3209.5	59.8	86.7	54-99			
Nitrobenzene	2940	µg/kg	470	3209.5	<27.0	91.6	53-100			
n-Nitrosodi-n-propylamine	2760	µg/kg	93.1	3209.5	<13.2	85.9	52-104			
N-Nitrosodiphenylamine	2940	µg/kg	93.1	3209.5	<46.5	91.7	61-104			
Pentachlorophenol	<63.8	µg/kg	93.1	3209.5	<63.8	0.00	35-100			SU
Phenanthrene	2990	µg/kg	18.8	3209.5	56.0	91.6	64-101			
Phenol	1810	µg/kg	93.1	3209.5	<40.3	56.4	51-107			
Pyrene	3010	µg/kg	18.8	3209.5	25.1	93.2	52-114			
Pyridine	2190	µg/kg	470	3209.5	<158	68.3	40-84			
Surr: 2,4,6-Tribromophenol	260	µg/kg		8024.9		3.24	48-94			S
Surr: 2-Fluorobiphenyl	7050	µg/kg		8024.9		87.9	50-103			
Surr: 2-Fluorophenol	1080	µg/kg		8024.9		13.4	43-105			S
Surr: 4-Terphenyl-d14	7350	µg/kg		8024.9		91.6	55-111			
Surr: Nitrobenzene-d5	7820	µg/kg		8024.9		97.4	47-100			
Surr: Phenol-d6	4580	µg/kg		8024.9		57.1	49-110			

MSD		CLIENT ID: Batch QC				Lab ID: QC-2419424-006				
Method: EPA 8270E		Dilution: 1				Analysis Date: 01/19/26 17:50				
						Prep Date: 01/16/26 10:01				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	2810	µg/kg	93.9	3235.4	27.0	86.0	57-101	0.806	30	
1,2,4,5-Tetrachlorobenzene	2890	µg/kg	947	3235.4	<18.7	89.4	54-98	3.01	30	
1-Methylnaphthalene	2920	µg/kg	19.0	3235.4	56.0	88.7	56-100	1.92	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	2780	µg/kg	93.9	3235.4	<19.0	86.1	50-101	1.62	30	
2,3,4,6-Tetrachlorophenol	<59.2	µg/kg	190	3235.4	<59.2	1.90	48-103	NC		US
2,4,5-Trichlorophenol	212	µg/kg	93.9	3235.4	<47.9	6.55	54-98	21.0	30	S
2,4,6-Trichlorophenol	113	µg/kg	93.9	3235.4	<21.5	3.50	56-97	0.613	30	S
2,4-Dichlorophenol	649	µg/kg	93.9	3235.4	<43.5	20.1	54-99	23.9	30	S
2,4-Dimethylphenol	2320	µg/kg	93.9	3235.4	<41.6	71.7	47-102	3.06	30	
2,4-Dinitrophenol	<592	µg/kg	947	3235.4	<592	0.00	10-100	0.806	30	US
2,4-Dinitrotoluene (2,4-DNT)	2720	µg/kg	93.9	3235.4	<52.5	84.1	62-105	2.93	30	
2,6-Dinitrotoluene (2,6-DNT)	2770	µg/kg	93.9	3235.4	<20.7	85.7	62-103	4.09	30	
2-Chloronaphthalene	2800	µg/kg	19.0	3235.4	<11.3	86.5	57-101	1.88	30	
2-Chlorophenol	958	µg/kg	93.9	3235.4	<52.9	29.6	52-102	16.3	30	S
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<67.6	µg/kg	93.9	3235.4	<67.6	0.00	42-104	NC		US
2-Methylnaphthalene	2870	µg/kg	19.0	3235.4	86.9	86.4	55-102	0.524	30	
2-Methylphenol (o-Cresol)	2590	µg/kg	93.9	3235.4	<21.9	80.1	54-103	9.67	30	
2-Nitroaniline	3180	µg/kg	93.9	3235.4	<44.9	98.2	57-103	1.11	30	
2-Nitrophenol	498	µg/kg	93.9	3235.4	<23.1	15.4	52-102	9.97	30	S
3&4-Methylphenol	2360	µg/kg	93.9	3235.4	<44.1	73.1	56-103	4.78	30	
3,3'-Dichlorobenzidine	2390	µg/kg	474	3235.4	<37.8	74.0	41-91	4.31	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

MSD	CLIENT ID: Batch QC	Lab ID: QC-2419424-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 17:50

Prep Date: 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	1490	µg/kg	93.9	3235.4	<47.0	46.0	35-107	7.21	30	
4-Bromophenyl phenyl ether (BDE-3)	2760	µg/kg	93.9	3235.4	<44.3	85.4	63-104	5.22	30	
4-Chloro-3-methylphenol	2600	µg/kg	93.9	3235.4	<23.1	80.5	57-103	3.96	30	
4-Chloroaniline	2590	µg/kg	190	3235.4	61.8	78.4	32-99	13.4	30	
4-Chlorophenyl phenylether	2670	µg/kg	93.9	3235.4	<22.4	82.7	62-100	3.05	30	
4-Nitroaniline	862	µg/kg	474	3235.4	<125	26.7	19-124	6.99	30	
4-Nitrophenol	<189	µg/kg	947	3235.4	<189	0.00	44-106	0.806	30	US
Acenaphthene	2730	µg/kg	19.0	3235.4	<11.7	84.5	60-101	3.54	30	
Acenaphthylene	2830	µg/kg	19.0	3235.4	<14.0	87.3	59-101	1.52	30	
Acetophenone	2720	µg/kg	93.9	3235.4	<12.7	84.0	54-102	2.67	30	
Anthracene	2810	µg/kg	19.0	3235.4	<11.4	86.8	63-96	1.75	30	
Atrazine	2900	µg/kg	93.9	3235.4	<47.4	89.8	60-110	0.528	30	
Benzaldehyde	286	µg/kg	190	3235.4	<124	6.97	10-143	5.22	30	S
Benzo(a)anthracene	2830	µg/kg	19.0	3235.4	21.2	87.0	66-102	1.34	30	
Benzo(a)pyrene	2890	µg/kg	19.0	3235.4	<9.93	89.4	66-105	2.60	30	
Benzo(b)fluoranthene	2800	µg/kg	19.0	3235.4	<12.1	86.4	67-105	5.36	30	
Benzo(g,h,i)perylene	2920	µg/kg	19.0	3235.4	<12.4	90.1	59-110	7.80	30	
Benzo(k)fluoranthene	2860	µg/kg	19.0	3235.4	<12.3	88.3	68-106	0.693	30	
bis(2-Chloroethoxy)methane	2780	µg/kg	93.9	3235.4	<51.2	86.1	54-102	1.62	30	
bis(2-Chloroethyl) ether	3150	µg/kg	93.9	3235.4	<22.9	97.4	51-101	0.520	30	
Butyl benzyl phthalate	3060	µg/kg	190	3235.4	<101	94.5	59-107	4.00	30	
Caprolactam	2930	µg/kg	93.9	3235.4	<73.0	90.6	49-103	6.37	30	
Carbazole	2750	µg/kg	93.9	3235.4	<23.8	85.1	63-103	1.99	30	
Chrysene	2790	µg/kg	19.0	3235.4	<13.8	85.9	66-105	5.87	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	3170	µg/kg	93.9	3235.4	96.5	95.3	63-101	6.67	30	
Dibenz(a,h) anthracene	2950	µg/kg	93.9	3235.4	<8.74	91.2	61-109	4.95	30	
Dibenzofuran	2760	µg/kg	93.9	3235.4	25.1	84.8	61-101	4.05	30	
Diethyl phthalate	2850	µg/kg	93.9	3235.4	<27.5	88.1	63-105	1.88	30	
Dimethyl phthalate	2780	µg/kg	93.9	3235.4	<15.8	85.8	64-104	3.25	30	
Fluoranthene	2840	µg/kg	19.0	3235.4	25.1	87.3	66-105	2.11	30	
Fluorene	2750	µg/kg	19.0	3235.4	<11.7	84.9	62-101	2.78	30	
Hexachlorobenzene	2810	µg/kg	93.9	3235.4	<23.5	87.0	61-104	5.70	30	
Hexachlorobutadiene	2780	µg/kg	93.9	3235.4	<19.1	86.0	52-99	3.30	30	
Hexachlorocyclopentadiene	1960	µg/kg	93.9	3235.4	<79.1	60.6	39-106	3.24	30	
Hexachloroethane	2650	µg/kg	93.9	3235.4	<33.5	81.9	59-99	1.49	30	
Indeno(1,2,3-cd) pyrene	3070	µg/kg	19.0	3235.4	<11.3	95.0	57-114	5.07	30	
Isophorone	2880	µg/kg	474	3235.4	<15.8	89.1	55-101	1.14	30	
Methylphenol, Total	4960	µg/kg	93.9	6473.3	<21.9	76.6	54-103	7.31	30	
Naphthalene	2820	µg/kg	19.0	3235.4	59.8	85.6	54-99	0.448	30	
Nitrobenzene	3080	µg/kg	474	3235.4	<27.2	95.1	53-100	4.61	30	
n-Nitrosodi-n-propylamine	2810	µg/kg	93.9	3235.4	<13.3	87.0	52-104	2.08	30	
N-Nitrosodiphenylamine	2820	µg/kg	93.9	3235.4	<46.8	87.1	61-104	4.34	30	
Pentachlorophenol	<64.3	µg/kg	93.9	3235.4	<64.3	0.00	35-100	NC		US
Phenanthrene	2850	µg/kg	19.0	3235.4	56.0	86.6	64-101	4.72	30	
Phenol	2030	µg/kg	93.9	3235.4	<40.6	62.8	51-107	11.6	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2419424

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3829084

MSD	CLIENT ID: Batch QC	Lab ID: QC-2419424-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 01/19/26 17:50

Prep Date: 01/16/26 10:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	2820	µg/kg	19.0	3235.4	25.1	86.5	52-114	6.60	30	
Pyridine	2410	µg/kg	474	3235.4	<159	74.5	40-84	9.42	30	
Surr: 2,4,6-Tribromophenol	236	µg/kg		8089.8		2.92	48-94	9.59	30	S
Surr: 2-Fluorobiphenyl	6780	µg/kg		8089.8		83.9	50-103	3.90	30	
Surr: 2-Fluorophenol	1350	µg/kg		8089.8		16.7	43-105	22.3	30	S
Surr: 4-Terphenyl-d14	6760	µg/kg		8089.8		83.5	55-111	8.40	30	
Surr: Nitrobenzene-d5	8180	µg/kg		8089.8		101	47-100	4.61	30	S
Surr: Phenol-d6	5050	µg/kg		8089.8		62.4	49-110	9.64	30	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2417846-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 02:56

Prep Date: 01/15/26 10:40

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

MB	CLIENT ID: Method Blank	Lab ID: QC-2417846-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 02:56

Prep Date: 01/15/26 10:40

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	1020	µg/kg		1000		102	80-120			
Surr: 4-Bromofluorobenzene	1030	µg/kg		1000		103	80-120			
Surr: Dibromofluoromethane	998	µg/kg		1000		99.8	72-120			
Surr: Toluene-d8	944	µg/kg		1000		94.4	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417846-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 01:57

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1070	µg/kg	30.0	1000		107	75-121			
1,1,2,2-Tetrachloroethane	982	µg/kg	30.0	1000		98.2	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1040	µg/kg	30.0	1000		104	62-129			
1,1,2-Trichloroethane	1020	µg/kg	30.0	1000		102	80-123			
1,1-Dichloroethane	988	µg/kg	30.0	1000		98.8	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	978	µg/kg	100	1000		97.8	60-135			
1,2,3-Trichloropropane	982	µg/kg	30.0	1000		98.2	77-121			
1,2,4-Trichlorobenzene	1000	µg/kg	100	1000		100	63-130			
1,2,4-Trimethylbenzene	1040	µg/kg	30.0	1000		104	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	890	µg/kg	100	1000		89.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	1020	µg/kg	30.0	1000		102	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	972	µg/kg	30.0	1000		97.2	77-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417846-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 01:57

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichloroethane (Ethylene dichloride)	1050	µg/kg	100	1000		105	70-130			
1,2-Dichloropropane	990	µg/kg	30.0	1000		99.0	71-130			
1,3,5-Trimethylbenzene	1070	µg/kg	100	1000		107	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	978	µg/kg	30.0	1000		97.8	78-121			
1,3-Dichloropropene	1910	µg/kg	60.0	2000		95.4	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	998	µg/kg	30.0	1000		99.8	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1040	µg/kg	200	1000		104	47-164			
2-Hexanone	1030	µg/kg	30.0	1000		103	70-137			
4-Methyl-2-pentanone (MIBK)	1610	µg/kg	30.0	1000		161	57-200			
Acetone	1070	µg/kg	100	1000		107	52-190			
Benzene	1080	µg/kg	30.0	1000		108	78-122			
Bromochloromethane	995	µg/kg	30.0	1000		99.5	68-130			
Bromodichloromethane	1040	µg/kg	30.0	1000		104	75-125			
Bromoform	968	µg/kg	30.0	1000		96.8	59-120			
Carbon disulfide	1100	µg/kg	30.0	1000		110	60-163			
Carbon tetrachloride	1050	µg/kg	30.0	1000		105	69-123			
Chlorobenzene	1040	µg/kg	30.0	1000		104	79-120			
Chlorodibromomethane	1020	µg/kg	30.0	1000		102	57-123			
Chloroethane (Ethyl chloride)	756	µg/kg	100	1000		75.6	38-132			
Chloroform	1000	µg/kg	30.0	1000		100	72-122			
cis-1,2-Dichloroethylene	1000	µg/kg	30.0	1000		100	74-125			
cis-1,3-Dichloropropene	980	µg/kg	30.0	1000		98.0	62-124			
Dichlorodifluoromethane (Freon-12)	553	µg/kg	100	1000		55.3	28-137			
Ethylbenzene	1090	µg/kg	30.0	1000		109	75-121			
Isopropylbenzene	1100	µg/kg	30.0	1000		110	74-121			
m+p-Xylene	2230	µg/kg	60.0	2000		111	67-129			
Methyl acetate	744	µg/kg	250	1000		74.4	61-125			
Methyl bromide (Bromomethane)	657	µg/kg	100	1000		65.7	31-169			
Methyl chloride (Chloromethane)	601	µg/kg	100	1000		60.1	24-119			
Methyl tert-butyl ether (MTBE)	962	µg/kg	30.0	1000		96.2	79-139			
Methylene chloride (Dichloromethane)	976	µg/kg	250	1000		97.6	62-135			
o-Xylene	1080	µg/kg	30.0	1000		108	75-120			
Styrene	1050	µg/kg	30.0	1000		105	74-126			
Tetrachloroethylene (Perchloroethylene)	1420	µg/kg	30.0	1000		142	76-128			S
Toluene	1050	µg/kg	30.0	1000		105	76-120			
Total Xylene	3310	µg/kg	90.0	3000		110	67-129			
trans-1,2-Dichloroethylene	1030	µg/kg	30.0	1000		103	72-127			
trans-1,3-Dichloropropylene	930	µg/kg	30.0	1000		93.0	66-120			
Trichloroethene (Trichloroethylene)	1090	µg/kg	30.0	1000		109	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	754	µg/kg	30.0	1000		75.4	51-115			
Vinyl chloride (Chloroethene)	648	µg/kg	30.0	1000		64.8	43-128			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2417846-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 01:57

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: 1,2-Dichloroethane-d4	1040	µg/kg		1000		104	80-120			
Surr: 4-Bromofluorobenzene	1040	µg/kg		1000		104	80-120			
Surr: Dibromofluoromethane	1010	µg/kg		1000		101	72-120			
Surr: Toluene-d8	978	µg/kg		1000		97.8	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2417846-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 10:09

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	954	µg/kg	41.8	996.02	<13.6	95.8	75-121			
1,1,2,2-Tetrachloroethane	754	µg/kg	41.8	996.02	<13.2	75.8	79-125			S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	841	µg/kg	41.8	996.02	<18.9	84.4	62-129			
1,1,2-Trichloroethane	889	µg/kg	41.8	996.02	<12.7	89.2	80-123			
1,1-Dichloroethane	924	µg/kg	41.8	996.02	<10.9	92.8	74-124			
1,1-Dichloroethylene	840	µg/kg	41.8	996.02	<9.68	84.4	68-131			
1,2,3-Trichlorobenzene	778	µg/kg	139	996.02	<35.9	78.2	60-135			
1,2,3-Trichloropropane	890	µg/kg	41.8	996.02	<12.5	89.4	77-121			
1,2,4-Trichlorobenzene	792	µg/kg	139	996.02	<33.9	79.5	63-130			
1,2,4-Trimethylbenzene	909	µg/kg	41.8	996.02	<21.9	91.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	691	µg/kg	139	996.02	<27.5	69.4	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	911	µg/kg	41.8	996.02	<17.6	91.5	63-155			
1,2-Dichlorobenzene (o-Dichlorobenzene)	831	µg/kg	41.8	996.02	<11.3	83.4	77-122			
1,2-Dichloroethane (Ethylene dichloride)	957	µg/kg	139	996.02	<26.2	96.1	70-130			
1,2-Dichloropropane	941	µg/kg	41.8	996.02	<22.0	94.4	71-130			
1,3,5-Trimethylbenzene	955	µg/kg	139	996.02	<21.1	95.9	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	834	µg/kg	41.8	996.02	<20.6	83.8	78-121			
1,3-Dichloropropene	1680	µg/kg	83.7	1992	<16.7	84.2	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	831	µg/kg	41.8	996.02	<24.3	83.4	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1010	µg/kg	279	996.02	<71.1	101	47-164			
2-Hexanone	1010	µg/kg	41.8	996.02	<14.8	101	70-137			
4-Methyl-2-pentanone (MIBK)	1290	µg/kg	41.8	996.02	<27.8	130	57-200			
Acetone	1600	µg/kg	139	996.02	<88.7	161	52-190			
Benzene	968	µg/kg	41.8	996.02	<14.5	97.2	78-122			
Bromochloromethane	930	µg/kg	41.8	996.02	<15.2	93.4	68-130			
Bromodichloromethane	945	µg/kg	41.8	996.02	<16.7	94.9	75-125			
Bromoform	836	µg/kg	41.8	996.02	<12.6	84.0	59-120			
Carbon disulfide	850	µg/kg	41.8	996.02	<15.5	85.4	60-163			
Carbon tetrachloride	887	µg/kg	41.8	996.02	<11.7	89.0	69-123			
Chlorobenzene	924	µg/kg	41.8	996.02	<9.92	92.8	79-120			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

MS	CLIENT ID: Batch QC	Lab ID: QC-2417846-005
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 10:09

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlorodibromomethane	876	µg/kg	41.8	996.02	<16.8	88.0	57-123			
Chloroethane (Ethyl chloride)	301	µg/kg	139	996.02	<83.7	30.2	38-132			S
Chloroform	935	µg/kg	41.8	996.02	<10.9	93.9	72-122			
cis-1,2-Dichloroethylene	899	µg/kg	41.8	996.02	<19.2	90.2	74-125			
cis-1,3-Dichloropropene	881	µg/kg	41.8	996.02	<22.5	88.5	62-124			
Dichlorodifluoromethane (Freon-12)	339	µg/kg	139	996.02	<36.2	34.0	28-137			
Ethylbenzene	974	µg/kg	41.8	996.02	<21.2	97.8	75-121			
Isopropylbenzene	974	µg/kg	41.8	996.02	<18.9	97.8	74-121			
m+p-Xylene	1960	µg/kg	83.7	1992	<39.8	98.3	67-129			
Methyl acetate	1020	µg/kg	349	996.02	<35.8	102	61-125			
Methyl bromide (Bromomethane)	220	µg/kg	139	996.02	<57.2	22.1	31-169			S
Methyl chloride (Chloromethane)	442	µg/kg	139	996.02	<81.7	44.4	24-119			
Methyl tert-butyl ether (MTBE)	889	µg/kg	41.8	996.02	<21.8	89.2	79-139			
Methylene chloride (Dichloromethane)	646	µg/kg	349	996.02	<79.3	64.8	62-135			
o-Xylene	963	µg/kg	41.8	996.02	<11.6	96.7	75-120			
Styrene	931	µg/kg	41.8	996.02	<11.8	93.4	74-126			
Tetrachloroethylene (Perchloroethylene)	1740	µg/kg	41.8	996.02	<18.0	175	76-128			S
Toluene	925	µg/kg	41.8	996.02	<24.6	92.9	76-120			
Total Xylene	2920	µg/kg	126	2988	<11.6	97.8	67-129			
trans-1,2-Dichloroethylene	913	µg/kg	41.8	996.02	<24.7	91.6	72-127			
trans-1,3-Dichloropropylene	795	µg/kg	41.8	996.02	<16.7	79.8	66-120			
Trichloroethene (Trichloroethylene)	1050	µg/kg	41.8	996.02	<13.4	105	75-122			
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	575	µg/kg	41.8	996.02	<15.3	57.7	51-115			
Vinyl chloride (Chloroethene)	461	µg/kg	41.8	996.02	<19.9	46.2	43-128			
Surr: 1,2-Dichloroethane-d4	991	µg/kg		996.02		99.5	80-120			
Surr: 4-Bromofluorobenzene	1020	µg/kg		996.02		103	80-120			
Surr: Dibromofluoromethane	952	µg/kg		996.02		95.6	72-120			
Surr: Toluene-d8	945	µg/kg		996.02		94.9	80-120			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2417846-006
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Method: EPA 8260D

Dilution: 1

Analysis Date: 01/17/26 10:29

Prep Date: 01/15/26 10:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	990	µg/kg	41.8	996.02	<13.6	99.4	75-121	3.64	30	
1,1,2,2-Tetrachloroethane	750	µg/kg	41.8	996.02	<13.2	75.3	79-125	0.596	30	S
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	866	µg/kg	41.8	996.02	<19.0	87.0	62-129	2.92	30	
1,1,2-Trichloroethane	935	µg/kg	41.8	996.02	<12.8	93.8	80-123	5.02	30	
1,1-Dichloroethane	961	µg/kg	41.8	996.02	<10.9	96.4	74-124	3.86	30	
1,1-Dichloroethylene	869	µg/kg	41.8	996.02	<9.72	87.2	68-131	3.32	30	
1,2,3-Trichlorobenzene	864	µg/kg	139	996.02	<36.0	86.8	60-135	10.4	30	
1,2,3-Trichloropropane	947	µg/kg	41.8	996.02	<12.6	95.1	77-121	6.18	30	
1,2,4-Trichlorobenzene	889	µg/kg	139	996.02	<34.0	89.3	63-130	11.6	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

MSD		CLIENT ID: Batch QC				Lab ID: QC-2417846-006				
Method: EPA 8260D		Dilution: 1				Analysis Date: 01/17/26 10:29				
						Prep Date: 01/15/26 10:40				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	987	µg/kg	41.8	996.02	<22.0	99.0	64-126	8.20	30	
1,2-Dibromo-3-chloropropane (DBCP)	739	µg/kg	139	996.02	<27.6	74.2	55-135	6.69	30	
1,2-Dibromoethane (EDB, Ethylene dibromide)	974	µg/kg	41.8	996.02	<17.6	97.8	63-155	6.61	30	
1,2-Dichlorobenzene (o-Dichlorobenzene)	915	µg/kg	41.8	996.02	<11.4	91.9	77-122	9.64	30	
1,2-Dichloroethane (Ethylene dichloride)	1000	µg/kg	139	996.02	<26.3	100	70-130	4.38	30	
1,2-Dichloropropane	934	µg/kg	41.8	996.02	<22.1	93.8	71-130	0.744	30	
1,3,5-Trimethylbenzene	1010	µg/kg	139	996.02	<21.2	102	66-130	5.67	30	
1,3-Dichlorobenzene (m-Dichlorobenzene)	910	µg/kg	41.8	996.02	<20.7	91.4	78-121	8.74	30	
1,3-Dichloropropene	1730	µg/kg	83.7	1992	<16.8	87.0	62-124	3.24	30	
1,4-Dichlorobenzene (p-Dichlorobenzene)	903	µg/kg	41.8	996.02	<24.4	90.6	78-122	8.33	30	
2-Butanone (Methyl ethyl ketone, MEK)	997	µg/kg	279	996.02	<71.4	100	47-164	1.29	30	
2-Hexanone	1050	µg/kg	41.8	996.02	<14.9	106	70-137	4.30	30	
4-Methyl-2-pentanone (MIBK)	1300	µg/kg	41.8	996.02	<28.0	131	57-200	0.767	30	
Acetone	1720	µg/kg	139	996.02	<89.0	173	52-190	7.25	30	
Benzene	993	µg/kg	41.8	996.02	<14.5	99.7	78-122	2.59	30	
Bromochloromethane	987	µg/kg	41.8	996.02	<15.3	99.1	68-130	5.98	30	
Bromodichloromethane	985	µg/kg	41.8	996.02	<16.8	98.9	75-125	4.13	30	
Bromoform	887	µg/kg	41.8	996.02	<12.6	89.1	59-120	5.95	30	
Carbon disulfide	893	µg/kg	41.8	996.02	<15.5	89.7	60-163	4.97	30	
Carbon tetrachloride	946	µg/kg	41.8	996.02	<11.7	95.0	69-123	6.41	30	
Chlorobenzene	968	µg/kg	41.8	996.02	<9.96	97.2	79-120	4.58	30	
Chlorodibromomethane	931	µg/kg	41.8	996.02	<16.8	93.4	57-123	6.06	30	
Chloroethane (Ethyl chloride)	327	µg/kg	139	996.02	<84.0	32.8	38-132	8.24	30	S
Chloroform	976	µg/kg	41.8	996.02	<11.0	98.0	72-122	4.27	30	
cis-1,2-Dichloroethylene	956	µg/kg	41.8	996.02	<19.3	96.0	74-125	6.12	30	
cis-1,3-Dichloropropene	893	µg/kg	41.8	996.02	<22.6	89.6	62-124	1.29	30	
Dichlorodifluoromethane (Freon-12)	339	µg/kg	139	996.02	<36.3	34.0	28-137	0.147	30	
Ethylbenzene	1000	µg/kg	41.8	996.02	<21.3	101	75-121	3.12	30	
Isopropylbenzene	1020	µg/kg	41.8	996.02	<19.0	102	74-121	4.26	30	
m+p-Xylene	2060	µg/kg	83.7	1992	<40.0	103	67-129	4.98	30	
Methyl acetate	1060	µg/kg	349	996.02	<35.9	106	61-125	3.94	30	
Methyl bromide (Bromomethane)	229	µg/kg	139	996.02	<57.4	23.0	31-169	3.99	30	S
Methyl chloride (Chloromethane)	473	µg/kg	139	996.02	<82.0	47.5	24-119	6.75	30	
Methyl tert-butyl ether (MTBE)	909	µg/kg	41.8	996.02	<21.9	91.3	79-139	2.27	30	
Methylene chloride (Dichloromethane)	620	µg/kg	349	996.02	<79.6	62.2	62-135	4.17	30	
o-Xylene	1010	µg/kg	41.8	996.02	<11.6	102	75-120	5.24	30	
Styrene	978	µg/kg	41.8	996.02	<11.9	98.2	74-126	4.96	30	
Tetrachloroethylene (Perchloroethylene)	1820	µg/kg	41.8	996.02	<18.1	183	76-128	4.41	30	S
Toluene	987	µg/kg	41.8	996.02	<24.7	99.0	76-120	6.41	30	
Total Xylene	3070	µg/kg	126	2988	<11.6	103	67-129	5.07	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2417846

Work Order: HN2600652
Date Collected: NA
Date Received: NA
Run ID: 3828212

MSD		CLIENT ID: Batch QC				Lab ID: QC-2417846-006				
Method: EPA 8260D		Dilution: 1				Analysis Date: 01/17/26 10:29				
						Prep Date: 01/15/26 10:40				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
trans-1,2-Dichloroethylene	943	µg/kg	41.8	996.02	<24.8	94.7	72-127	3.27	30	
trans-1,3-Dichloropropylene	839	µg/kg	41.8	996.02	<16.8	84.2	66-120	5.36	30	
Trichloroethene (Trichloroethylene)	1130	µg/kg	41.8	996.02	<13.4	114	75-122	7.70	30	
Trichlorofluoromethane	591	µg/kg	41.8	996.02	<15.3	59.4	51-115	2.82	30	
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	459	µg/kg	41.8	996.02	<19.9	46.0	43-128	0.433	30	
Surr: 1,2-Dichloroethane-d4	1000	µg/kg		996.02		101	80-120	1.20	30	
Surr: 4-Bromofluorobenzene	1040	µg/kg		996.02		104	80-120	1.40	30	
Surr: Dibromofluoromethane	969	µg/kg		996.02		97.3	72-120	1.81	30	
Surr: Toluene-d8	962	µg/kg		996.02		96.6	80-120	1.72	30	

The following samples were analyzed in this batch: HN2600652-001, HN2600652-002, HN2600652-003



right solutions.
right partner.

April 16, 2026

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

Re: **3044 Pennsylvania**

Date Received: **04/03/2026**

Work Order: **HN2605361**

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: 3044 Pennsylvania

Work Order: HN2605361
Date Received: 03-Apr-2026

CASE NARRATIVE

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

Sample Receipt

1 soil/solid sample was received for analysis at ALS Environmental on 03-Apr-2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Workorder: HN2605361

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2605361-001	3044 TCLP SB02 (3-4') _20260402	SOIL/SOLID	04/02/26 10:35	04/03/26 08:00



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1Environmental Division
Holland

Work Order Reference

HN2605361



Telephone : + 1 616 399 6070

Customer Information		Project Information						Parameter/Method Reference										
Purchase Order		Project Name	3044 Pennsylvania				A	TCLP Chromium										
Work Order		Project Number	DETR0060				B	TCLP Lead										
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group				C											
Send Report To	Ryan Montri and Olivia Mitchell	Invoice Attn.					D											
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E														
				F														
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188				G											
Phone	734-397-3100	Phone	734-397-3100				H											
Fax		Fax					I											
e-Mail Address	montri@manniksmithgroup.com	e-Mail Address	omitchell@manniksmithgroup.com				J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	3044 TCLP SB02 (3-4')_2026 0402	4-2-26	1035	Soil	NA	1	X	X										
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
Sampler(s): Please Print & Sign Eric Robben Eric Rubin		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			Results Due Date:											
Relinquished by: Eric Rubin		Date: 4-2-26	Time: 2:30pm	Received by: [Signature]			Notes: Rec'd 4/3/26 0800 @ 20 L											
Relinquished by: [Signature]		Date: 4/2	Time: 1700	Received by (Laboratory): [Signature]			Cooler Temp. 19.6 3.0 C											
Logged by (Laboratory): DFS		Date: 4/3/26	Time: 1230	Checked by (Laboratory):			QC Package: (Check Box Below) ☐ 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:

4/3/26 0800

Carrier Name:

QS

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / ☒ Not Present

Custody seals intact on sample bottles?

Yes / No / ☒ Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

3.0/3.0°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Solid

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

4/3/26 1240

Water – VOA vials have zero headspace?

Yes / No / ☒ No Vials

Water – pH acceptable upon receipt?

Yes / No / ☒ N/A

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

pH adjusted (note adjustments below)?

Yes / No / ☒ N/A

pH adjusted by:

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

LABORATORY CERTIFICATIONS¹

Agency	Type	ID	Issued	Expires
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	12/08/2025	12/31/2026
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/01/2025	09/01/2027
Kansas	NELAP (Secondary)	E-10411	08/01/2025	07/31/2026
Kentucky	Waste Water	KY98004	1/1/2026	12/31/2026
Kentucky	UST	120474	07/07/2025	06/30/2026
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/10/2025	12/31/2026
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2025	6/30/2026
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	11/25/2025	07/31/2026
Texas	NELAP (Secondary)	T104704494	02/01/2026	01/31/2027
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572R1	01/28/2026	03/03/2029
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/08/2025	08/31/2026

1 – Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania

Work Order: HN2605361

Sample Name: 3044 TCLP SB02 (3-4')_20260402
Laboratory Code: HN2605361-001
Sample Matrix: SOIL/SOLID

Date Collected: 04/02/26
Date Received: 04/03/26

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AC	2538943	Chloe Patrick	4020755	Hunter Johnson

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID

Work Order: HN2605361
Date Collected: 04/02/26 10:35
Date Received: 04/03/26 08:00

CLIENT ID: 3044 TCLP SB02 (3-4')_20260402

Lab ID: HN2605361-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	04/15/26 15:35	04/15/26 11:56
Lead	EPA 6020B	<0.00220	U	mg/L	0.0499	1	04/15/26 15:35	04/15/26 11:56



Client: The Mannik & Smith Group, Inc.
Project: 3044 Pennsylvania
Matrix: SOIL/SOLID
QC Lot: 2538943

Work Order: HN2605361
Date Collected: NA
Date Received: NA
Run ID: 4020755

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2538943-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/15/26 14:52
Prep Date: 04/15/26 11:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	<0.00610	mg/L	0.0499							U
Lead	<0.00220	mg/L	0.0499							U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2538943-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/15/26 14:53
Prep Date: 04/15/26 11:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	0.939	mg/L	0.0499	1		93.9	80-120			
Lead	0.978	mg/L	0.0499	1		97.8	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2538943-004
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/15/26 14:57
Prep Date: 04/15/26 11:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	4.44	mg/L	0.0499	1	3.69	75.2	75-125			
Lead	0.994	mg/L	0.0499	1	0.00563	98.8	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2538943-005
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 04/15/26 14:58
Prep Date: 04/15/26 11:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	4.65	mg/L	0.0499	1	3.69	95.7	75-125	4.52	20	
Lead	1.00	mg/L	0.0499	1	0.00563	99.5	75-125	0.704	20	

The following samples were analyzed in this batch: HN2605361-001