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FILL MATERIAL SAMPLING REPORT

4563 BELVIDERE STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214



OCTOBER 24, 2025
REVISED DECEMBER 12, 2025

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



FILL MATERIAL SAMPLING REPORT

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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 4563 Belvidere Street, Detroit, Wayne County, Michigan (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 4563 SB01, 4563 SB02, and 4563 SB03 generally consisted of three to four feet of tan sand with little silt and clay underlain by black sandy clay mixed with urban fill to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 0.4 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, slag and terracotta pipe debris were noted in 4563 SB01 (3-4).
- Concentrations of arsenic, chromium (total), lead, methylphenols, and selenium were detected in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC) and/or direct contact criteria (DCC) in soil sample 4563 SB03 (5-6).
- Concentrations of 3,4-methylphenol, 4,4-DDE, 4,4-DDT, acetate, acetone, barium, cadmium, chloride, chromium (total), chrysene, copper, methyl, toluene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, fluoranthene, indeno(1,2,3-cd)pyrene, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 4563 SB01 (3-4), 4563 SB02 (1-2), and/or 4563 SB03 (5-6) 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 arsenic, chromium, lead, selenium, and SVOCs were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either

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

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 4563 Belvidere, Detroit, Wayne County, Michigan (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 August 7, 2025. 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 bgs utilizing a hand auger 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 August 7, 2025 and October 8, 2025. 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 4563 SB01, 4563 SB02, and 4563 SB03, using a hand auger at the locations depicted on Figure 2. Photographs collected during 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 hand auger. 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 October 8, 2025, 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. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

The composite soil sample was collected to create a single, representative sample to provide a laboratory result that includes the overlying and/or underlying soils in the area of concern to comprehensively represent the backfill soils that may be removed.

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 4563 SB01 (3-4), 4563 SB02 (1-2), and 4563 SB03 (5-6), and one (1) composite soil sample designated 4563 Belvidere SB03 TCLP 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 August 7, 2025 and October 8, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 4563 SB01, 4563 SB02, and 4563 SB03 generally consisted of three to four feet of tan sand with little silt and clay underlain by black sandy clay mixed with urban fill to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.4 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, slag and terracotta pipe debris were noted in SB-01 (3-4).

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

4.2 Soil Sample Analytical Results

A total of three (3) soil samples, designated 4563 SB01 (3-4), 4563 SB02 (1-2), and 4563 SB03 (5-6), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg ¹)	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	4563 SB03 (5-6)	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	7,800
Chromium (Total)	7440-47-3	4563 SB03 (5-6)	GSIPC ³ / 3,300	20,300
Lead	7439-92-1	4563 SB03 (5-6)	DCC / 400,000	463,000
Selenium	7782-49-2	4563 SB03 (5-6)	GSIPC / 400	422
Methylphenols	1319-77-3	4563 SB03 (5-6)	GSIPC / 1,000 (M); 600	1,140

¹µg/kg – micrograms per kilogram;

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

Arsenic, chromium, lead, selenium, and SVOCs 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 for chromium, selenium, and SVOCs. Lead was detected above laboratory method detection limits, however, the detected concentration was below the maximum concentration of contaminants for the toxicity characteristic.

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 FINDING

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 4563 SB01, 4563 SB02, and 4563 SB03 generally consisted of three to four feet of tan sand with little silt and clay underlain by black sandy clay mixed with urban fill to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.4 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, slag and terracotta pipe debris were noted in 4563 SB01.
- Concentrations of arsenic, chromium (total), lead, methylphenols, and selenium were detected in excess of their respective Part 201 DCC, DWPC, and/or GSIPC in soil sample 4563 SB03 (5-6).
- Concentrations of 3,4-methylphenol, 4,4-DDE, 4,4-DDT, acetate, acetone, barium, cadmium, chloride, chromium (total), chrysene, copper, methyl, toluene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, fluoranthene, indeno(1,2,3-cd)pyrene, mercury, phenanthrene, pyrene, and zinc were detected in the soil sample 4563 SB01 (3-4), 4563 SB02 (1-2), and/or 4563 SB03 (5-6) 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 arsenic, chromium, lead, selenium, and SVOCs were not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

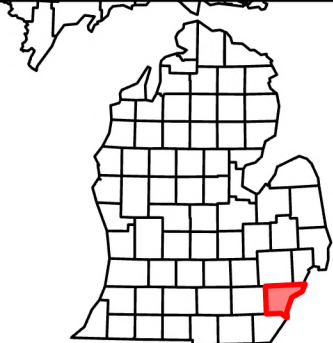
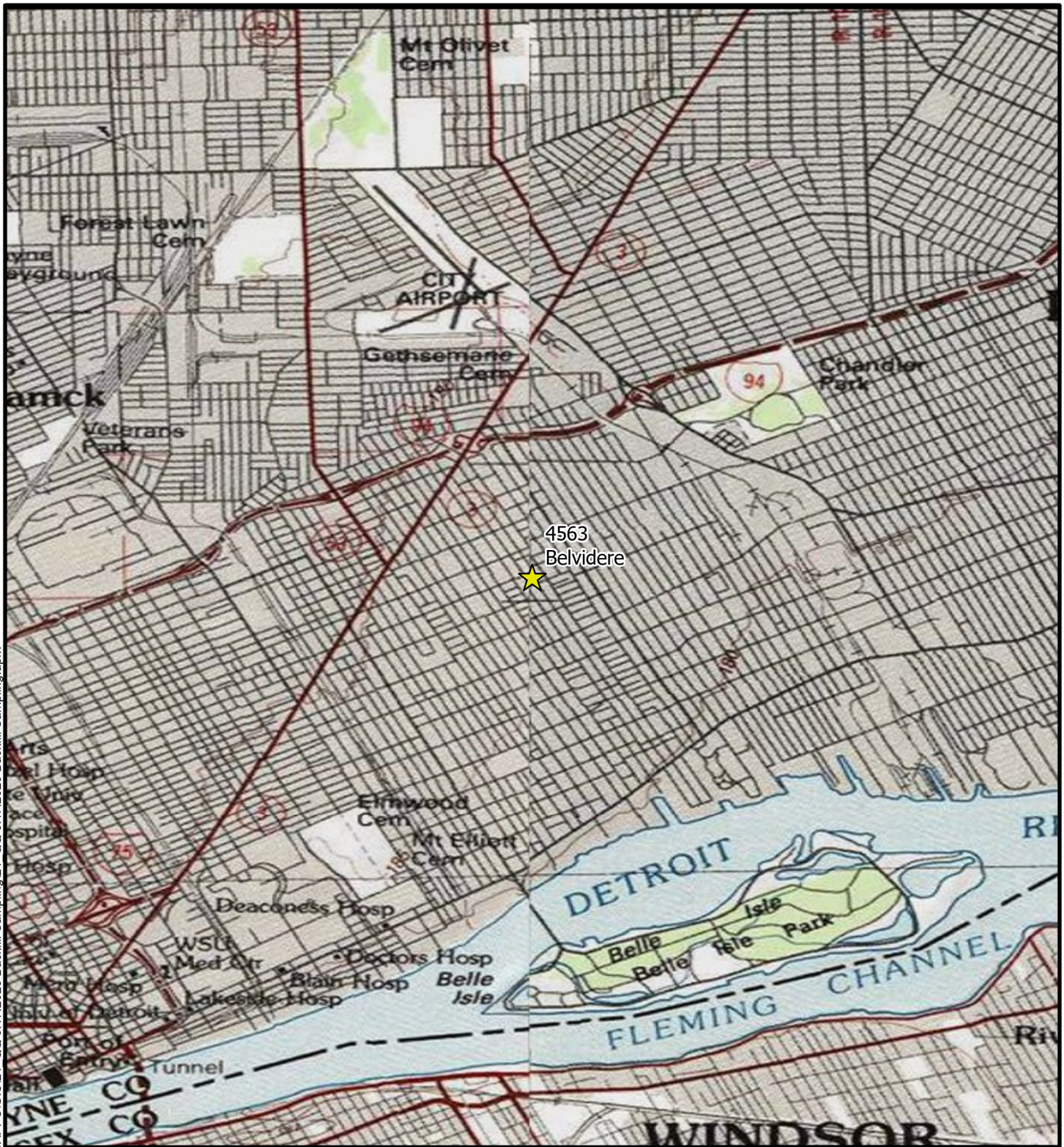
MSG has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the state's Part 201 GRCC, as applicable.

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: 9/22/2025 8:38 PM Coordinate System: GCS WGS 1984
Path: W:\Projects\Projects A-E\DETROIT\ENG\PPS\GIS\21_QQ 6.17.2025 Backfill Sampling.aprx



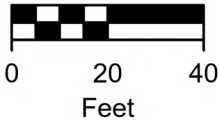
★ Site Location



FIGURE 1
SITE LOCATION

4563 Belvidere, Detroit, MI

DATE	DRAWN BY	DESIGNED BY	PROJECT NO.
9/23/2025	JWW	JWW	DETRO060



- Sample Locations
- Parcels (Current)
- Subject Property

Notes
• Parcel boundaries are approximate
• Basemap Credits: Wayne - 2020 - 6in - 4-band:



FIGURE 2
Site Layout

4563 Belvidere, Detroit, MI

DATE 9/22/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
4563 Belvidere, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg	Volatile Organic Compounds (VOCs)			Semivolatile Organic Compounds (SVOCs)												Michigan 10 Metals										Pesticides/Herbicides		Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions		
	Acetone	Methyl Acetate	Toluene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Bis(2-ethylhexyl) phthalate	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Methylphenols	Phenanthrene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDE	4,4'-DDT		Chloride		
CAS Number	67-64-1	79-20-9	108-88-3	56-55-3	205-99-2	207-08-9	191-24-2	50-32-8	117-81-7	218-01-9	206-44-0	193-39-5	1319-77-3	85-01-8	129-00-0	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	72-55-9	50-29-3	16887006			
Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA			
Drinking Water Protection Criteria (DWPC)	15,000	NA	16,000	NLL	NLL	NLL	NLL	NLL	NLL	NLL	7.3E+05	NLL	7,400	56,000	4.8E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	NLL	5.00E+06			
Groundwater Surface Water Interface Protection Criteria (GSIPC)	34,000	NA	5,400	NLL	NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	1,000 (M); 600	2,100	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	(X)			
Soil Volatilization to Indoor Air Inhalation (SVIIC)	2.9E+8 (C)	NA	3.3E+5 (C)	NLV	ID	NLV	NLV	NLV	NLV	ID	1.0E+09 (D)	NLV	NLV	2.8E+06	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	NLV			
Soil Volatilization to Indoor Air Pathway (SVIAP)	2.6E+05 (EE)	--	3,700	1.6E+05 (MM)	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,700	2.5E+07	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NA	NLV	NLV	--		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	1.3E+08	NA	2.8E+06	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	1.3E+08	NA	5.1E+06	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	1.9E+08	NA	1.2E+07	NLV	ID	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NLV	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV			
Particulate Soil Inhalation Criteria (PSIC)	3.9E+11	NA	2.7E+10	ID	ID	ID	8.0E+08	1.5E+06	7.0E+08	ID	9.3E+09	ID	6.70E+09	6.7E+06	6.7E+09	7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID	3.2E+07	3.2E+07	ID			
Direct Contact Criteria (DCC)	2.3E+07	NA	5.0E+07 (C)	20,000	20,000	2.0E+05	2.5E+06	2,000	2.8E+06	2.0E+06	4.6E+07	20,000	11,000,000	1.6E+06	2.9E+07	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	95,000	45,000	5.0E+5 (F)			
Soil Saturation Concentration Screening Levels (C _{sat})	1.1E+08	NA	2.5E+05	NA	NA	NA	NA	NA	1.0E+07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Recommended Interim Action Screening Level (RIASL)	2.6E+05	NA	3,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	NA	--		
SAMPLE ID	DEPTH	SAMPLE DATE																													
4563 SB01	3-4	8/7/2025	<142	<354	<42.6	28.6	39.7	17.5	15.9	27	77.8	25.4	62.7	17.5	<39.3	27	52.4	5,090	56,700	202	12,200	13,300	73,600	33.8	<321	<321	103,000	<23.8	<23.8	ND	<12,300
4563 SB02	1-2	8/7/2025	<116	<291	<34.9	35	<35	35	<35	<35	<174	<35	42.1	<35	<174	<35	38.6	3,070	10,200	<111	5,200	6,620	4,460	<20	<279	<279	23,600	<10.2	<10.2	ND	<10,600
4563 SB03	5-6	8/7/2025	268	416	231	136	146	107	<97.2	107	593	<97.2	253	<97.2	1,140	97.2	224	7,800	82,800	647	20,300	27,700	463,000	80.1	422	<371	373,000	43.2	22.9	ND	12,400

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or Csat, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
NR = Not Reported (Data missing from provided report)
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023
VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
4563 Belvidere, 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				TCLP Semivolatile Organic Compounds (SVOCs)											
		Arsenic	Chromium	Lead (B)	Selenium	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	2-Methylphenol	3&4-Methylphenol	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Nitrobenzene	Pentachlorophenol	Pyridine
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00	5.00	1.00	7.5	400.0	2.0	10.0	-	-	0.13	0.5	3.0	2.0	100.0	5.0
SAMPLE ID	SAMPLE DATE																
4563 Belvidere SB03 TCLP	10/8/2025	<0.0499	<0.0499	0.0698	<0.0499	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.10

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 will satisfy "due diligence", "all appropriate inquiry," or any other similar standard under any federal, state, or local law.

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

APPENDIX B

DAILY FIELD REPORTS





DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>08/7/2025</u>	Day: <u>Thursday</u>	Temp: <u>86° F</u> (AM) <u>88° F</u> (PM)
MSG Personnel: <u>WRD, ZRG</u>	Cloud Cover: <u>20%</u> (AM) <u>25%</u> (PM)	Precip.: <u>None</u> (AM) <u>None</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>2.5 hours</u>		

Contractors Information		
Contractor: <u>MSG</u>	No. Men and Type: <u>2; Helper/Geologist</u>	Equipment Type: <u>Hand Auger</u>

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

Field Notes:
1055 – ZRG & WRD onsite (4563 Belvidere St) 1101 – Unloaded equipment and checked boring locations 1117– Began hand augering SB01 1135 – Finished hand augering SB01 1138 – Began hand augering SB02 1159 – Finished hand augering SB02 1219 – Began hand augering SB03 1240 – Finished hand augering SB03 1245 – Sampled 4563 SB01 (3-4') 1250 – Sampled 4563 SB02 (1-2') 1255 – Sampled 4563 SB03 (5-6') 1307 – Packed up equipment 1321 – MSG off site

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

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



DAILY FIELD REPORT

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

Report No.: 1
Job No.: DETR0060

Date: <u>10/8/2025</u>	Day: <u>Wednesday</u>	Temp: <u>N/A</u> (AM) <u>60 ° F</u> (PM)
MSG Personnel: <u>SRK, JF</u>	Cloud Cover: <u>N/A</u> (AM) <u>0%</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 1 hours</u>		

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

Summary of Work Performed:
- Advanced one (1) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected TCLP of fill material from soil boring (composite sample of from zero to 6 feet bgs).

Field Notes:
1408 – SRK onsite (4563 Belvidere) 1410 – Attempted to locate previous boring locations. Marked out new boring location. 1415 – JF onsite 1422 – Began drilling SB03 TCLP 1424 – Finished drilling SB03 TCLP 1430 – Sampled 4563 Belvidere SB03 TCLP 1445 – Collected GPS points 1450 – Packed up equipment 1452 – 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								
<u>N/A</u>								
Resolved? Yes ☐ No ☐								

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: Viewing 4563 Belvidere.



Photo 2: Viewing Soil Boring Locations.



Photo 3: Viewing Large Amounts of Slag Found at Surface of Site.



Photo 4: Viewing Building Debris Found at the Surface of the Site.



Photo 5: Viewing the Site With Slag on the Surface.



Photo 6: Viewing 4563 Belvidere.

APPENDIX D

SOIL BORING LOGS



APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511173

Client

The Mannik & Smith Group, Inc.

Project

4563 Belvidere

Project Date

August 09, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

August 22, 2025

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

Work Order: **HN2511173**

Re: **4563 Belvidere**

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

Bill Carey
/S/ **BILL CAREY**
Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere

Work Order: HN2511173
Date Received: 09-Aug-2025

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 09-Aug-2025. 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.

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3411614

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: Atrazine.

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Benzoic acid; Di-n-octyl phthalate; Indeno(1,2,3-cd)pyrene.

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

Run ID: 3399174

The following analytes failed calibration refit conditions. All samples in this batch were non-detect. No qualification is necessary for these analytes: chloroethane

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: trichlorofluoromethane

Run ID: 3399793

Samples have low surrogate recovery. Control charting demonstrated consistent recovery below control limits. Acceptable surrogate limit lowered to 72% recovery.

EPA 8081B-3546-S (High)

Run ID: 3413988

HN2511173-001: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Methoxychlor

HN2511173-002: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Methoxychlor

HN2511173-003: The Continuing Calibration Verification did not meet acceptance criteria with low bias. Instrument sensitivity was verified as sufficient through the analysis of a low-level standard. The following non-detects are reported without qualification: Methoxychlor

EPA 8082A-3546-S (High)

Run ID: 3417671

HN2511173-001: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511173-001: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Aroclor 1016

HN2511173-002: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Aroclor 1016

HN2511173-002: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511173-003: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511173-003: The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Aroclor 1016

Metals

EPA 6020B-3050B-S

Run ID: 3404829

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Ba, Cr, Pb, V Batch 2157029

The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cu, Ni Batch 2157029

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Ba, Cr, Pb, V Batch 2157029

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: Fe, Zn Batch 2157029

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: Fe, Zn Batch 2157029

Run ID: 3397219

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: Ca Mg Mn batch 2157029

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: Ca Mg Mn batch 2157029

Inorganics

EPA 9056A-S (High)

Run ID: 3390037

The LCS recovery was below the lower control limit. The sample results for this batch may be biased low for this analyte: Fluoride

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: 4563 SB01 (3-4)	Lab ID: HN2511173-001
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Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.09		3.21	mg/kg	EPA 6020B
Barium	56.7		0.321	mg/kg	EPA 6020B
Benzo(a)anthracene	28.6		7.94	µg/kg	EPA 8270E
Benzo(a)pyrene	27.0		7.94	µg/kg	EPA 8270E
Benzo(b)fluoranthene	39.7		7.94	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	15.9		7.94	µg/kg	EPA 8270E
Benzo(k)fluoranthene	17.5		7.94	µg/kg	EPA 8270E
Cadmium	0.202		0.128	mg/kg	EPA 6020B
Chromium	12.2		3.21	mg/kg	EPA 6020B
Chrysene	25.4		7.94	µg/kg	EPA 8270E
Copper	13.3		3.21	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	77.8		39.3	µg/kg	EPA 8270E
Fluoranthene	62.7		7.94	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	17.5		7.94	µg/kg	EPA 8270E
Lead	73.6		0.321	mg/kg	EPA 6020B
Mercury	0.0338		0.0209	mg/kg	EPA 7471B
Percent Moisture	16.8		0.1	%	EPA 3550C
Phenanthrene	27.0		7.94	µg/kg	EPA 8270E
Pyrene	52.4		7.94	µg/kg	EPA 8270E
Zinc	103		6.42	mg/kg	EPA 6020B

CLIENT ID: 4563 SB02 (1-2)	Lab ID: HN2511173-002
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.07		2.79	mg/kg	EPA 6020B
Barium	10.2		0.279	mg/kg	EPA 6020B
Benzo(a)anthracene	35.0		35.0	µg/kg	EPA 8270E
Benzo(k)fluoranthene	35.0		35.0	µg/kg	EPA 8270E
Chromium	5.20		2.79	mg/kg	EPA 6020B
Copper	6.62		2.79	mg/kg	EPA 6020B
Fluoranthene	42.1		35.0	µg/kg	EPA 8270E
Lead	4.46		0.279	mg/kg	EPA 6020B
Percent Moisture	6.0		0.1	%	EPA 3550C
Pyrene	38.6		35.0	µg/kg	EPA 8270E
Zinc	23.6		5.57	mg/kg	EPA 6020B

CLIENT ID: 4563 SB03 (5-6)	Lab ID: HN2511173-003
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
3&4-Methylphenol	1140		481	µg/kg	EPA 8270E
4,4'-DDE	43.2		12.2	µg/kg	EPA 8081B
4,4'-DDT	22.9		12.2	µg/kg	EPA 8081B
Acetone	268		130	µg/kg	EPA 8260D

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: 4563 SB03 (5-6)

Lab ID: HN2511173-003

Analyte	Results	Flag	MRL	Units	Method
Arsenic	7.80		3.71	mg/kg	EPA 6020B
Barium	82.8		0.371	mg/kg	EPA 6020B
Benzo(a)anthracene	136		97.2	µg/kg	EPA 8270E
Benzo(a)pyrene	107		97.2	µg/kg	EPA 8270E
Benzo(b)fluoranthene	146		97.2	µg/kg	EPA 8270E
Benzo(k)fluoranthene	107		97.2	µg/kg	EPA 8270E
Cadmium	0.647		0.148	mg/kg	EPA 6020B
Chloride	12.4		12.4	mg/kg	EPA 9056A
Chromium	20.3		3.71	mg/kg	EPA 6020B
Copper	27.7		3.71	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	593		481	µg/kg	EPA 8270E
Fluoranthene	253		97.2	µg/kg	EPA 8270E
Lead	463		3.71	mg/kg	EPA 6020B
Mercury	0.0801		0.0218	mg/kg	EPA 7471B
Methyl acetate	416		326	µg/kg	EPA 8260D
Methylphenol, Total	1140		481	µg/kg	EPA 8270E
Percent Moisture	19.5		0.1	%	EPA 3550C
Phenanthrene	97.2		97.2	µg/kg	EPA 8270E
Pyrene	224		97.2	µg/kg	EPA 8270E
Selenium	0.422		0.371	mg/kg	EPA 6020B
Toluene	231		39.1	µg/kg	EPA 8260D
Zinc	373		7.42	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Workorder: HN2511173

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511173-001	4563 SB01 (3-4)	SOIL/SOLID	08/07/25 12:45	08/09/25 08:00
HN2511173-002	4563 SB02 (1-2)	SOIL/SOLID	08/07/25 12:50	08/09/25 08:00
HN2511173-003	4563 SB03 (5-6)	SOIL/SOLID	08/07/25 12:55	08/09/25 08:00



ALS Environmental

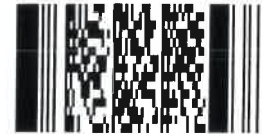
Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information					Parameter/Method Request for Analysis													
Purchase Order		Project Name	4563 Belvidere					A	VOCs (U.S. EPA Method 8260C (or Method 8260))											
Work Order		Project Number	DETR0060					B	SVOCs (U.S. EPA Method 8270D (or Method 8270))											
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group					C	PCBs (U.S. EPA Method 8082)											
Send Report To	Ryan Montri	Invoice Attn.						D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)											
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100					E	Chorides (U.S. EPA Method 9056A)											
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188					F	Pesticides (U.S. EPA Method 8081B (or Method 8081))											
Phone	734-397-3100	Phone	734-397-3100					G	Herbicides (U.S. EPA Method 8151A (or Method 8151))											
Fax		Fax						H												
e-Mail Address	RMontri@mannaiksmithgroup.com	e-Mail Address						I												
								J												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	4563 SB01 (3-4)	8/7/25	1245	Soil	METH	3	X	X	X	X	X	X	X							
2	4563 SB02 (1-2)	I	1250	Soil	I	3	X	X	X	X	X	X	X							
3	4563 SB03 (5-6)	I	1255	Soil	I	3	X	X	X	X	X	X	X							
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		☐ Other	
WILEY DAVENPORT				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			
Relinquished by:	Date:	Time:	Received by:	Notes:			
Wiley Davenport	8/8/25	1545		Quote# HN-061825-M&S-MA			
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp.			
	8/11/25	1701		4.7°C			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check Box Below)			
BC	8/11/25	12:41		☐ Level II: Standard QC ☐ TRRP-Checklist			
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				☐ Level III: Std QC + Raw Data ☐ TRRP Level IV			
				☐ Level IV: SW846 CLP-Like ☐ Other:			

Environmental Division
Holland
Work Order Reference
HN2511173

Telephone : + 1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/11/25 08:50

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):

4.7°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

Soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/11/25 09:30

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	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
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	07/01/2024	6/30/2025
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	06/14/2024	07/31/2025
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	08/15/2024	08/31/2025

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere

Work Order: HN2511173

Sample Name: 4563 SB01 (3-4)
Laboratory Code: HN2511173-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/07/25
Date Received: 08/09/25

Analysis Method	Container ID	Preparation	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	001-AC	2154810		3391474	Nicole Maleski
EPA 6020B	001-AC	2157029	Chloe Patrick	3397219	Denise Coffey
EPA 6020B	001-AC	2157029	Chloe Patrick	3404829	Hunter Johnson
EPA 7471B	001-AC	2157131	Maxx Richey	3399126	Maxx Richey
EPA 8081B	001-AC	2166096	Sam Bruzan	3413988	Madison VandenBer
EPA 8082A	001-AC	2166119	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	001-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	001-AA	2153855	Jonathan Vazquez	3399174	John Garvale
EPA 8260D	001-AA	2153855	Jonathan Vazquez	3409777	Sean Bradfield
EPA 8270E	001-AC	2164238	Sam Bruzan	3411614	Erin Wall
EPA 8270E	001-AC	2164238	Sam Bruzan	3415358	Erin Wall
EPA 9056A	001-AC	2153695	Sage Hansen	3390037	Quoc Nguyen

Sample Name: 4563 SB02 (1-2)
Laboratory Code: HN2511173-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/07/25
Date Received: 08/09/25

Analysis Method	Container ID	Preparation	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	002-AC	2154810		3391474	Nicole Maleski
EPA 6020B	002-AC	2157029	Chloe Patrick	3397219	Denise Coffey
EPA 6020B	002-AC	2157029	Chloe Patrick	3404829	Hunter Johnson
EPA 7471B	002-AC	2157131	Maxx Richey	3399126	Maxx Richey
EPA 8081B	002-AC	2166096	Sam Bruzan	3413988	Madison VandenBer
EPA 8082A	002-AC	2166119	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	002-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	002-AA	2153855	Jonathan Vazquez	3399793	Sean Bradfield
EPA 8260D	002-AA	2153855	Jonathan Vazquez	3404799	Sean Bradfield
EPA 8260D	002-AA	2166529	Jonathan Vazquez	3418210	John Garvale
EPA 8270E	002-AC	2164238	Sam Bruzan	3411614	Erin Wall
EPA 8270E	002-AC	2164238	Sam Bruzan	3415358	Erin Wall
EPA 9056A	002-AC	2157199	Quoc Nguyen	3395836	Quoc Nguyen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere

Work Order: HN2511173

Sample Name: 4563 SB03 (5-6)
Laboratory Code: HN2511173-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/07/25
Date Received: 08/09/25

Analysis Method	Container ID	Preparation	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	003-AC	2154810		3391474	Nicole Maleski
EPA 6020B	003-AC	2157029	Chloe Patrick	3397219	Denise Coffey
EPA 6020B	003-AC	2157029	Chloe Patrick	3404829	Hunter Johnson
EPA 7471B	003-AC	2157131	Maxx Richey	3399126	Maxx Richey
EPA 8081B	003-AC	2166096	Sam Bruzan	3413988	Madison VandenBer
EPA 8082A	003-AC	2166119	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	003-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	003-AA	2153855	Jonathan Vazquez	3399793	Sean Bradfield
EPA 8260D	003-AA	2153855	Jonathan Vazquez	3404799	Sean Bradfield
EPA 8260D	003-AA	2166529	Jonathan Vazquez	3418210	John Garvale
EPA 8270E	003-AC	2164238	Sam Bruzan	3411614	Erin Wall
EPA 8270E	003-AC	2164238	Sam Bruzan	3415358	Erin Wall
EPA 9056A	003-AC	2157199	Quoc Nguyen	3395836	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4) **Lab ID: HN2511173-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	16.8		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	ND		mg/kg	12.3	1	08/11/25 21:18	08/11/25 15:39
Metals								
Arsenic	EPA 6020B	5.09		mg/kg	3.21	10	08/15/25 15:13	08/13/25 08:35
Barium	EPA 6020B	56.7		mg/kg	0.321	1	08/15/25 00:21	08/13/25 08:35
Cadmium	EPA 6020B	0.202		mg/kg	0.128	1	08/15/25 00:21	08/13/25 08:35
Chromium	EPA 6020B	12.2		mg/kg	3.21	10	08/15/25 15:13	08/13/25 08:35
Copper	EPA 6020B	13.3		mg/kg	3.21	10	08/15/25 15:13	08/13/25 08:35
Lead	EPA 6020B	73.6		mg/kg	0.321	1	08/15/25 00:21	08/13/25 08:35
Selenium	EPA 6020B	ND		mg/kg	0.321	1	08/15/25 00:21	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.321	1	08/15/25 00:21	08/13/25 08:35
Zinc	EPA 6020B	103		mg/kg	6.42	10	08/15/25 15:13	08/13/25 08:35
Mercury	EPA 7471B	0.0338		mg/kg	0.0209	1	08/14/25 09:13	08/14/25 07:47
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
4,4'-DDE	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
4,4'-DDT	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Aldrin	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
alpha-BHC	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
beta-BHC	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Chlordane, Technical	EPA 8081B	ND		µg/kg	59.4	1	08/19/25 02:25	08/18/25 13:14
cis-Chlordane	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
delta-BHC	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Dieldrin	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endosulfan I	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endosulfan II	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endosulfan sulfate	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endrin	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endrin aldehyde	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Endrin ketone	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4)	Lab ID: HN2511173-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Heptachlor epoxide	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Methoxychlor	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
Toxaphene	EPA 8081B	ND		µg/kg	142	1	08/19/25 02:25	08/18/25 13:14
trans-Chlordane	EPA 8081B	ND		µg/kg	23.8	1	08/19/25 02:25	08/18/25 13:14
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	106		%REC	53-151	1	08/19/25 02:25	08/18/25 13:14
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	98.4		%REC	67-127	1	08/19/25 02:25	08/18/25 13:14

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1221	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1232	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1242	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1248	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1254	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1260	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1262	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Aroclor 1268	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
Total PCB	EPA 8082A	ND		µg/kg	158	1	08/19/25 04:49	08/18/25 13:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	105		%REC	54-146	1	08/19/25 04:49	08/18/25 13:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	121		%REC	58-140	1	08/19/25 04:49	08/18/25 13:31
2,4,5-T	EPA 8151A	ND	S	µg/kg	5.91	1	08/21/25 14:09	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	5.91	1	08/21/25 14:09	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	11.8	1	08/21/25 14:09	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	58.0		%REC	10-116	1	08/21/25 14:09	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	397	1	08/18/25 19:44	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4) **Lab ID: HN2511173-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	79.4	1	08/18/25 19:44	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	397	1	08/18/25 19:44	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	79.4	1	08/18/25 19:44	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	397	1	08/18/25 19:44	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	79.4	1	08/18/25 19:44	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4)	Lab ID: HN2511173-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	28.6		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	27.0		µg/kg	7.94	1	08/19/25 23:46	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	39.7		µg/kg	7.94	1	08/19/25 23:46	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	15.9		µg/kg	7.94	1	08/19/25 23:46	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	17.5		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	79.4	1	08/18/25 19:44	08/16/25 14:13
Caprolactam	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Chrysene	EPA 8270E	25.4		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	77.8		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	39.3	1	08/19/25 23:46	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Fluoranthene	EPA 8270E	62.7		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	17.5		µg/kg	7.94	1	08/19/25 23:46	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	08/18/25 19:44	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4)	Lab ID: HN2511173-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Phenanthrene	EPA 8270E	27.0		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	39.3	1	08/18/25 19:44	08/16/25 14:13
Pyrene	EPA 8270E	52.4		µg/kg	7.94	1	08/18/25 19:44	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	198	1	08/18/25 19:44	08/16/25 14:13
Surr: 2,4,6-Tribromophenol	EPA 8270E	63.8		%REC	48-94	1	08/18/25 19:44	08/16/25 14:13
Surr: 2-Fluorobiphenyl	EPA 8270E	63.9		%REC	50-103	1	08/18/25 19:44	08/16/25 14:13
Surr: 2-Fluorophenol	EPA 8270E	74.4		%REC	43-105	1	08/18/25 19:44	08/16/25 14:13
Surr: 4-Terphenyl-d14	EPA 8270E	63.9		%REC	55-111	1	08/18/25 19:44	08/16/25 14:13
Surr: Nitrobenzene-d5	EPA 8270E	67.3		%REC	47-100	1	08/18/25 19:44	08/16/25 14:13
Surr: Phenol-d6	EPA 8270E	74.6		%REC	49-110	1	08/18/25 19:44	08/16/25 14:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	85.1	1	08/14/25 03:05	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4) **Lab ID: HN2511173-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	284	1	08/14/25 03:05	08/11/25 17:02
2-Hexanone	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Acetone	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Benzene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Bromochloromethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Bromodichloromethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Bromoform	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Carbon disulfide	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Carbon tetrachloride	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Chlorobenzene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Chlorodibromomethane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Chloroform	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	85.1	1	08/14/25 03:05	08/11/25 17:02
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Cyclohexane	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Ethylbenzene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Isopropylbenzene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
m+p-Xylene	EPA 8260D	ND		µg/kg	85.1	1	08/14/25 03:05	08/11/25 17:02
Methyl acetate	EPA 8260D	ND		µg/kg	354	1	08/14/25 03:05	08/11/25 17:02
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	142	1	08/14/25 03:05	08/11/25 17:02
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Methylcyclohexane	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	354	1	08/14/25 03:05	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:45
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB01 (3-4) **Lab ID: HN2511173-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Styrene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Toluene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Total Xylene	EPA 8260D	ND		µg/kg	128	1	08/14/25 03:05	08/11/25 17:02
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	42.6	1	08/14/25 03:05	08/11/25 17:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	96.0		%REC	80-120	1	08/14/25 03:05	08/11/25 17:02
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	91.8		%REC	80-120	1	08/14/25 03:05	08/11/25 17:02
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	85.2		%REC	80-120	1	08/14/25 03:05	08/11/25 17:02
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	08/14/25 03:05	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2) **Lab ID: HN2511173-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	6.0		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	ND		mg/kg	10.6	1	08/13/25 15:19	08/13/25 11:05
Metals								
Arsenic	EPA 6020B	3.07		mg/kg	2.79	10	08/15/25 15:14	08/13/25 08:35
Barium	EPA 6020B	10.2		mg/kg	0.279	1	08/15/25 00:23	08/13/25 08:35
Cadmium	EPA 6020B	ND		mg/kg	0.111	1	08/15/25 00:23	08/13/25 08:35
Chromium	EPA 6020B	5.20		mg/kg	2.79	10	08/15/25 15:14	08/13/25 08:35
Copper	EPA 6020B	6.62		mg/kg	2.79	10	08/15/25 15:14	08/13/25 08:35
Lead	EPA 6020B	4.46		mg/kg	0.279	1	08/15/25 00:23	08/13/25 08:35
Selenium	EPA 6020B	ND		mg/kg	0.279	1	08/15/25 00:23	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.279	1	08/15/25 00:23	08/13/25 08:35
Zinc	EPA 6020B	23.6		mg/kg	5.57	10	08/15/25 15:14	08/13/25 08:35
Mercury	EPA 7471B	ND		mg/kg	0.0200	1	08/14/25 09:15	08/14/25 07:47
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
4,4'-DDE	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
4,4'-DDT	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Aldrin	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
alpha-BHC	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
beta-BHC	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Chlordane, Technical	EPA 8081B	ND		µg/kg	25.6	1	08/19/25 02:39	08/18/25 13:14
cis-Chlordane	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
delta-BHC	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Dieldrin	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endosulfan I	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endosulfan II	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endosulfan sulfate	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endrin	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endrin aldehyde	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Endrin ketone	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2)	Lab ID: HN2511173-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Heptachlor epoxide	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Methoxychlor	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
Toxaphene	EPA 8081B	ND		µg/kg	61.4	1	08/19/25 02:39	08/18/25 13:14
trans-Chlordane	EPA 8081B	ND		µg/kg	10.2	1	08/19/25 02:39	08/18/25 13:14
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	106		%REC	53-151	1	08/19/25 02:39	08/18/25 13:14
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	98.1		%REC	67-127	1	08/19/25 02:39	08/18/25 13:14

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1221	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1232	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1242	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1248	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1254	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1260	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1262	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Aroclor 1268	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
Total PCB	EPA 8082A	ND		µg/kg	68.2	1	08/19/25 05:01	08/18/25 13:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	128		%REC	54-146	1	08/19/25 05:01	08/18/25 13:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	123		%REC	58-140	1	08/19/25 05:01	08/18/25 13:31
2,4,5-T	EPA 8151A	ND	S	µg/kg	5.27	1	08/21/25 14:21	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	5.27	1	08/21/25 14:21	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	10.5	1	08/21/25 14:21	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	58.0		%REC	10-116	1	08/21/25 14:21	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	1750	5	08/18/25 23:48	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2) **Lab ID: HN2511173-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	350	5	08/18/25 23:48	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	1750	5	08/18/25 23:48	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	350	5	08/18/25 23:48	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	1750	5	08/18/25 23:48	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	350	5	08/18/25 23:48	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2) **Lab ID: HN2511173-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	35.0		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	ND		µg/kg	35.0	5	08/20/25 02:23	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	35.0	5	08/20/25 02:23	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	35.0	5	08/20/25 02:23	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	35.0		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	350	5	08/18/25 23:48	08/16/25 14:13
Caprolactam	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Chrysene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Fluoranthene	EPA 8270E	42.1		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	35.0	5	08/20/25 02:23	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
Methylphenol, Total	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2) **Lab ID: HN2511173-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Phenanthrene	EPA 8270E	ND		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	174	5	08/18/25 23:48	08/16/25 14:13
Pyrene	EPA 8270E	38.6		µg/kg	35.0	5	08/18/25 23:48	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	876	5	08/18/25 23:48	08/16/25 14:13
Surr: 2,4,6-Tribromophenol	EPA 8270E	85.0		%REC	48-94	5	08/18/25 23:48	08/16/25 14:13
Surr: 2-Fluorobiphenyl	EPA 8270E	73.0		%REC	50-103	5	08/18/25 23:48	08/16/25 14:13
Surr: 2-Fluorophenol	EPA 8270E	74.8		%REC	43-105	5	08/18/25 23:48	08/16/25 14:13
Surr: 4-Terphenyl-d14	EPA 8270E	82.4		%REC	55-111	5	08/18/25 23:48	08/16/25 14:13
Surr: Nitrobenzene-d5	EPA 8270E	75.2		%REC	47-100	5	08/18/25 23:48	08/16/25 14:13
Surr: Phenol-d6	EPA 8270E	78.1		%REC	49-110	5	08/18/25 23:48	08/16/25 14:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	69.8	1	08/13/25 21:33	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2)	Lab ID: HN2511173-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	232	1	08/13/25 21:33	08/11/25 17:02
2-Hexanone	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Acetone	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Benzene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Bromochloromethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Bromodichloromethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Bromoform	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Carbon disulfide	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Carbon tetrachloride	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Chlorobenzene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Chlorodibromomethane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Chloroform	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	69.8	1	08/13/25 21:33	08/11/25 17:02
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Cyclohexane	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Ethylbenzene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Isopropylbenzene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
m+p-Xylene	EPA 8260D	ND		µg/kg	69.8	1	08/13/25 21:33	08/11/25 17:02
Methyl acetate	EPA 8260D	ND		µg/kg	291	1	08/13/25 21:33	08/11/25 17:02
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	116	1	08/13/25 21:33	08/11/25 17:02
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Methylcyclohexane	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	291	1	08/13/25 21:33	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:50
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB02 (1-2) **Lab ID: HN2511173-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Styrene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Toluene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Total Xylene	EPA 8260D	ND		µg/kg	105	1	08/13/25 21:33	08/11/25 17:02
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	34.9	1	08/13/25 21:33	08/11/25 17:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	98.6		%REC	80-120	1	08/13/25 21:33	08/11/25 17:02
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	96.2		%REC	80-120	1	08/13/25 21:33	08/11/25 17:02
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	83.7		%REC	80-120	1	08/13/25 21:33	08/11/25 17:02
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	08/13/25 21:33	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6) **Lab ID: HN2511173-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	19.5		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	12.4		mg/kg	12.4	1	08/13/25 15:43	08/13/25 11:05
Metals								
Arsenic	EPA 6020B	7.80		mg/kg	3.71	10	08/15/25 15:16	08/13/25 08:35
Barium	EPA 6020B	82.8		mg/kg	0.371	1	08/15/25 00:26	08/13/25 08:35
Cadmium	EPA 6020B	0.647		mg/kg	0.148	1	08/15/25 00:26	08/13/25 08:35
Chromium	EPA 6020B	20.3		mg/kg	3.71	10	08/15/25 15:16	08/13/25 08:35
Copper	EPA 6020B	27.7		mg/kg	3.71	10	08/15/25 15:16	08/13/25 08:35
Lead	EPA 6020B	463		mg/kg	3.71	10	08/15/25 15:16	08/13/25 08:35
Selenium	EPA 6020B	0.422		mg/kg	0.371	1	08/15/25 00:26	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.371	1	08/15/25 00:26	08/13/25 08:35
Zinc	EPA 6020B	373		mg/kg	7.42	10	08/15/25 15:16	08/13/25 08:35
Mercury	EPA 7471B	0.0801		mg/kg	0.0218	1	08/14/25 09:17	08/14/25 07:47
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
4,4'-DDE	EPA 8081B	43.2		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
4,4'-DDT	EPA 8081B	22.9		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Aldrin	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
alpha-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
beta-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Chlordane, Technical	EPA 8081B	ND		µg/kg	30.6	1	08/19/25 02:52	08/18/25 13:14
cis-Chlordane	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
delta-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Dieldrin	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endosulfan I	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endosulfan II	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endosulfan sulfate	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endrin	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endrin aldehyde	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Endrin ketone	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6) **Lab ID: HN2511173-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Heptachlor epoxide	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Methoxychlor	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
Toxaphene	EPA 8081B	ND		µg/kg	73.6	1	08/19/25 02:52	08/18/25 13:14
trans-Chlordane	EPA 8081B	ND		µg/kg	12.2	1	08/19/25 02:52	08/18/25 13:14
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	96.6		%REC	53-151	1	08/19/25 02:52	08/18/25 13:14
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	93.2		%REC	67-127	1	08/19/25 02:52	08/18/25 13:14

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1221	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1232	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1242	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1248	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1254	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1260	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1262	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Aroclor 1268	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
Total PCB	EPA 8082A	ND		µg/kg	81.7	1	08/19/25 05:12	08/18/25 13:31
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	138		%REC	54-146	1	08/19/25 05:12	08/18/25 13:31
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	119		%REC	58-140	1	08/19/25 05:12	08/18/25 13:31
2,4,5-T	EPA 8151A	ND	S	µg/kg	6.01	1	08/21/25 14:34	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	6.01	1	08/21/25 14:34	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	12.0	1	08/21/25 14:34	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	46.0		%REC	10-116	1	08/21/25 14:34	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	4860	5	08/19/25 00:16	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6) **Lab ID: HN2511173-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	972	5	08/19/25 00:16	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	4860	5	08/19/25 00:16	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	1140		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	972	5	08/19/25 00:16	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	4860	5	08/19/25 00:16	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	972	5	08/19/25 00:16	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6)	Lab ID: HN2511173-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	136		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	107		µg/kg	97.2	5	08/20/25 02:45	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	146		µg/kg	97.2	5	08/20/25 02:45	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	97.2	5	08/20/25 02:45	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	107		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	972	5	08/19/25 00:16	08/16/25 14:13
Caprolactam	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Chrysene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	593		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Fluoranthene	EPA 8270E	253		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	97.2	5	08/20/25 02:45	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
Methylphenol, Total	EPA 8270E	1140		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6)	Lab ID: HN2511173-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Phenanthrene	EPA 8270E	97.2		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	481	5	08/19/25 00:16	08/16/25 14:13
Pyrene	EPA 8270E	224		µg/kg	97.2	5	08/19/25 00:16	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	2430	5	08/19/25 00:16	08/16/25 14:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<i>83.2</i>		<i>%REC</i>	<i>48-94</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<i>77.1</i>		<i>%REC</i>	<i>50-103</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<i>83.7</i>		<i>%REC</i>	<i>43-105</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<i>79.2</i>		<i>%REC</i>	<i>55-111</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<i>81.1</i>		<i>%REC</i>	<i>47-100</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<i>86.2</i>		<i>%REC</i>	<i>49-110</i>	<i>5</i>	<i>08/19/25 00:16</i>	<i>08/16/25 14:13</i>

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	78.3	1	08/13/25 21:56	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6)	Lab ID: HN2511173-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	261	1	08/13/25 21:56	08/11/25 17:02
2-Hexanone	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Acetone	EPA 8260D	268		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Benzene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Bromochloromethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Bromodichloromethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Bromoform	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Carbon disulfide	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Carbon tetrachloride	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Chlorobenzene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Chlorodibromomethane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Chloroform	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	78.3	1	08/13/25 21:56	08/11/25 17:02
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Cyclohexane	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Ethylbenzene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Isopropylbenzene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
m+p-Xylene	EPA 8260D	ND		µg/kg	78.3	1	08/13/25 21:56	08/11/25 17:02
Methyl acetate	EPA 8260D	416		µg/kg	326	1	08/13/25 21:56	08/11/25 17:02
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	130	1	08/13/25 21:56	08/11/25 17:02
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Methylcyclohexane	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	326	1	08/13/25 21:56	08/11/25 17:02

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID

Work Order: HN2511173
Date Collected: 08/07/25 12:55
Date Received: 08/09/25 08:00

CLIENT ID: 4563 SB03 (5-6) **Lab ID: HN2511173-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Styrene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Toluene	EPA 8260D	231		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Total Xylene	EPA 8260D	ND		µg/kg	117	1	08/13/25 21:56	08/11/25 17:02
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	39.1	1	08/13/25 21:56	08/11/25 17:02
Surr: 1,2-Dichloroethane-d4	EPA 8260D	96.8		%REC	80-120	1	08/13/25 21:56	08/11/25 17:02
Surr: 4-Bromofluorobenzene	EPA 8260D	96.2		%REC	80-120	1	08/13/25 21:56	08/11/25 17:02
Surr: Dibromofluoromethane	EPA 8260D	80.2		%REC	80-120	1	08/13/25 21:56	08/11/25 17:02
Surr: Toluene-d8	EPA 8260D	99.2		%REC	80-120	1	08/13/25 21:56	08/11/25 17:02



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2153695

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3390037

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2153695-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/11/25 17:53
Prep Date: 08/11/25 15:40

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153695-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/11/25 18:03
Prep Date: 08/11/25 15:40

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	93.1	mg/kg	10.0	100		93.1	87-110			

The following samples were analyzed in this batch: HN2511173-001

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2154810

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3391474

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2154810-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/12/25 13:29
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2154810-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/12/25 13:29
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: 4563 SB01 (3-4)	Lab ID: QC-2154810-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/12/25 13:29
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	17.1	%	0.1		16.8			1.53	10	

DUP	CLIENT ID: 4563 SB03 (5-6)	Lab ID: QC-2154810-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/12/25 13:29
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	18.8	%	0.1		19.5			3.55	10	

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2157199

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3395836

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2157199-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/13/25 15:02
Prep Date: 08/13/25 11:06

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2157199-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/13/25 15:10
Prep Date: 08/13/25 11:06

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	96.0	mg/kg	10.0	100		96.0	87-110			

MS	CLIENT ID: 4563 SB02 (1-2)	Lab ID: QC-2157199-004
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/13/25 15:27
Prep Date: 08/13/25 11:06

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	95.4	mg/kg	10.6	99.602	ND	92.9	87-110			

MSD	CLIENT ID: 4563 SB02 (1-2)	Lab ID: QC-2157199-005
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/13/25 15:35
Prep Date: 08/13/25 11:06

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	94.7	mg/kg	10.7	100.2	ND	91.7	87-110	0.736	15	

The following samples were analyzed in this batch: HN2511173-002, HN2511173-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2157029

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3397219

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2157029-001
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Method: EPA 6020B

Dilution: 1

Analysis Date: 08/14/25 23:31

Prep Date: 08/13/25 08:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/kg	0.250							
Barium	ND	mg/kg	0.250							
Cadmium	ND	mg/kg	0.100							
Lead	ND	mg/kg	0.250							
Selenium	ND	mg/kg	0.250							
Silver	ND	mg/kg	0.250							
Zinc	ND	mg/kg	0.500							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2157029-002
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Method: EPA 6020B

Dilution: 1

Analysis Date: 08/14/25 23:33

Prep Date: 08/13/25 08:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.39	mg/kg	0.250	10		93.9	80-120			
Barium	10.3	mg/kg	0.250	10		103	80-120			
Cadmium	10.2	mg/kg	0.100	10		102	80-120			
Lead	10.1	mg/kg	0.250	10		101	80-120			
Selenium	9.77	mg/kg	0.250	10		97.7	80-120			
Silver	9.76	mg/kg	0.250	10		97.6	80-120			
Zinc	8.98	mg/kg	0.500	10		89.8	80-120			

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2157029

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3404829

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2157029-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/15/25 14:31
Prep Date: 08/13/25 08:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	ND	mg/kg	0.250							
Copper	ND	mg/kg	0.250							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2157029-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/15/25 14:33
Prep Date: 08/13/25 08:36

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	9.69	mg/kg	0.250	10		96.9	80-120			
Copper	9.71	mg/kg	0.250	10		97.1	80-120			

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2157131

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3399126

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2157131-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/14/25 08:30
Prep Date: 08/14/25 07:48

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2157131-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/14/25 08:49
Prep Date: 08/14/25 07:48

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.157	mg/kg	0.0200	0.1665		94.1	80-120			

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166096

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413988

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2166096-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/18/25 22:56**Prep Date:** 08/18/25 13:15

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	ND	µg/kg	10.0							
4,4'-DDE	ND	µg/kg	10.0							
4,4'-DDT	ND	µg/kg	10.0							
Aldrin	ND	µg/kg	10.0							
alpha-BHC	ND	µg/kg	10.0							
beta-BHC	ND	µg/kg	10.0							
Chlordane, Technical	ND	µg/kg	25.0							
cis-Chlordane	ND	µg/kg	10.0							
delta-BHC	ND	µg/kg	10.0							
Dieldrin	ND	µg/kg	10.0							
Endosulfan I	ND	µg/kg	10.0							
Endosulfan II	ND	µg/kg	10.0							
Endosulfan sulfate	ND	µg/kg	10.0							
Endrin	ND	µg/kg	10.0							
Endrin aldehyde	ND	µg/kg	10.0							
Endrin ketone	ND	µg/kg	10.0							
gamma-BHC (Lindane)	ND	µg/kg	10.0							
Heptachlor	ND	µg/kg	10.0							
Heptachlor epoxide	ND	µg/kg	10.0							
Methoxychlor	ND	µg/kg	10.0							
Toxaphene	ND	µg/kg	60.0							
trans-Chlordane	ND	µg/kg	10.0							
Surr: Decachlorobiphenyl	32.1	µg/kg		33.33		96.2	53-151			
Surr: Tetrachloro-m-xylene	32.9	µg/kg		33.33		98.6	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166096-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/18/25 23:10**Prep Date:** 08/18/25 13:15

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	34.1	µg/kg	10.0	33.33		102	55-141			
4,4'-DDE	34.1	µg/kg	10.0	33.33		102	55-143			
4,4'-DDT	36.4	µg/kg	10.0	33.33		109	50-144			
Aldrin	35.9	µg/kg	10.0	33.33		108	57-141			
alpha-BHC	36.6	µg/kg	10.0	33.33		110	58-144			
beta-BHC	37.0	µg/kg	10.0	33.33		111	55-147			
cis-Chlordane	35.0	µg/kg	10.0	33.33		105	58-142			
delta-BHC	35.2	µg/kg	10.0	33.33		106	59-142			
Dieldrin	36.2	µg/kg	10.0	33.33		108	59-142			
Endosulfan I	35.2	µg/kg	10.0	33.33		105	57-145			
Endosulfan II	36.2	µg/kg	10.0	33.33		109	58-138			
Endosulfan sulfate	35.3	µg/kg	10.0	33.33		106	54-136			
Endrin	35.2	µg/kg	10.0	33.33		106	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166096

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413988

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2166096-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 08/18/25 23:10		Prep Date: 08/18/25 13:15			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	39.3	µg/kg	10.0	33.33		118	41-147		
Endrin ketone	35.7	µg/kg	10.0	33.33		107	54-146		
gamma-BHC (Lindane)	36.3	µg/kg	10.0	33.33		109	58-145		
Heptachlor	36.9	µg/kg	10.0	33.33		111	51-145		
Heptachlor epoxide	35.3	µg/kg	10.0	33.33		106	59-143		
Methoxychlor	31.9	µg/kg	10.0	33.33		95.8	43-144		
trans-Chlordane	36.5	µg/kg	10.0	33.33		109	56-145		
Surr: Decachlorobiphenyl	30.9	µg/kg		33.33		92.8	51-151		
Surr: Tetrachloro-m-xylene	32.1	µg/kg		33.33		96.2	67-127		

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166119

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3418329

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2166119-001
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Method: EPA 8082A

Dilution: 1

Analysis Date: 08/20/25 06:13

Prep Date: 08/18/25 13:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	ND	µg/kg	66.7							
Aroclor 1221	ND	µg/kg	66.7							
Aroclor 1232	ND	µg/kg	66.7							
Aroclor 1242	ND	µg/kg	66.7							
Aroclor 1248	ND	µg/kg	66.7							
Aroclor 1254	ND	µg/kg	66.7							
Aroclor 1260	ND	µg/kg	66.7							
Aroclor 1262	ND	µg/kg	66.7							
Aroclor 1268	ND	µg/kg	66.7							
Total PCB	ND	µg/kg	66.7							
Surr: Decachlorobiphenyl	41.7	µg/kg		33.3		125	54-146			
Surr: Tetrachloro-m-xylene	38.5	µg/kg		33.3		116	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166119-002
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Method: EPA 8082A

Dilution: 1

Analysis Date: 08/20/25 06:24

Prep Date: 08/18/25 13:32

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1100	µg/kg	66.7	833		132	71-135			
Aroclor 1260	1060	µg/kg	66.7	833		127	67-135			
Surr: Decachlorobiphenyl	45.4	µg/kg		33.3		136	54-146			
Surr: Tetrachloro-m-xylene	37.4	µg/kg		33.3		112	58-140			

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2168251

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3418604

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2168251-001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 08/21/25 10:44
Prep Date: 08/19/25 12:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	ND	µg/kg	5.00							
2,4,5-TP (Silvex)	ND	µg/kg	5.00							
2,4-D	ND	µg/kg	10.0							
Surr: DCAA	31.0	µg/kg		50		62.0	10-116			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2168251-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 08/21/25 10:57
Prep Date: 08/19/25 12:31

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	ND	µg/kg	5.00	50		0.00	10-119			S
2,4,5-TP (Silvex)	ND	µg/kg	5.00	50		0.00	10-101			S
2,4-D	ND	µg/kg	10.0	50		0.00	10-128			S
Surr: DCAA	ND	µg/kg		50		0.00	10-116			S

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3411612

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2164238-001
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 08/18/25 17:29**Prep Date:** 08/16/25 14:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	ND	µg/kg	33.0							
1,2,4,5-Tetrachlorobenzene	ND	µg/kg	333							
1,4-Dioxane (1,4- Diethyleneoxide)	ND	µg/kg	167							
1-Methylnaphthalene	ND	µg/kg	6.67							
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	ND	µg/kg	33.0							
2,3,4,6-Tetrachlorophenol	ND	µg/kg	67.0							
2,4,5-Trichlorophenol	ND	µg/kg	33.0							
2,4,6-Trichlorophenol	ND	µg/kg	33.0							
2,4-Dichlorophenol	ND	µg/kg	33.0							
2,4-Dimethylphenol	ND	µg/kg	33.0							
2,4-Dinitrophenol	ND	µg/kg	333							
2,4-Dinitrotoluene (2,4-DNT)	ND	µg/kg	33.0							
2,6-Dinitrotoluene (2,6-DNT)	ND	µg/kg	33.0							
2-Chloronaphthalene	ND	µg/kg	6.67							
2-Chlorophenol	ND	µg/kg	33.0							
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ND	µg/kg	33.0							
2-Methylnaphthalene	ND	µg/kg	6.67							
2-Methylphenol (o-Cresol)	ND	µg/kg	33.0							
2-Nitroaniline	ND	µg/kg	33.0							
2-Nitrophenol	ND	µg/kg	33.0							
3&4-Methylphenol	ND	µg/kg	33.0							
3,3'-Dichlorobenzidine	ND	µg/kg	167							
3-Nitroaniline	ND	µg/kg	33.0							
4-Bromophenyl phenyl ether (BDE-3)	ND	µg/kg	33.0							
4-Chloro-3-methylphenol	ND	µg/kg	33.0							
4-Chloroaniline	ND	µg/kg	67.0							
4-Chlorophenyl phenylether	ND	µg/kg	33.0							
4-Nitroaniline	ND	µg/kg	167							
4-Nitrophenol	ND	µg/kg	333							
Acenaphthene	ND	µg/kg	6.67							
Acenaphthylene	ND	µg/kg	6.67							
Acetophenone	ND	µg/kg	33.0							
Anthracene	ND	µg/kg	6.67							
Atrazine	ND	µg/kg	33.0							
Benzaldehyde	ND	µg/kg	67.0							
Benzo(a)anthracene	ND	µg/kg	6.67							
Benzo(a)pyrene	ND	µg/kg	6.67							
Benzo(b)fluoranthene	ND	µg/kg	6.67							
Benzo(g,h,i)perylene	ND	µg/kg	6.67							
Benzo(k)fluoranthene	ND	µg/kg	6.67							
bis(2-Chloroethoxy)methane	ND	µg/kg	33.0							
bis(2-Chloroethyl) ether	ND	µg/kg	33.0							

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3411612

MB	CLIENT ID: Method Blank	Lab ID: QC-2164238-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 08/18/25 17:29

Prep Date: 08/16/25 14:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	ND	µg/kg	67.0							
Caprolactam	ND	µg/kg	33.0							
Carbazole	ND	µg/kg	33.0							
Chrysene	ND	µg/kg	6.67							
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	ND	µg/kg	33.0							
Dibenz(a,h) anthracene	ND	µg/kg	33.0							
Dibenzofuran	ND	µg/kg	33.0							
Diethyl phthalate	ND	µg/kg	33.0							
Dimethyl phthalate	ND	µg/kg	33.0							
Di-n-butyl phthalate	ND	µg/kg	33.0							
Di-n-octyl phthalate	ND	µg/kg	33.0							
Fluoranthene	ND	µg/kg	6.67							
Fluorene	ND	µg/kg	6.67							
Hexachlorobenzene	ND	µg/kg	33.0							
Hexachlorobutadiene	ND	µg/kg	33.0							
Hexachlorocyclopentadiene	ND	µg/kg	33.0							
Hexachloroethane	ND	µg/kg	33.0							
Indeno(1,2,3-cd) pyrene	ND	µg/kg	6.67							
Isophorone	ND	µg/kg	167							
Methylphenol, Total	ND	µg/kg	67.0							
Naphthalene	ND	µg/kg	6.67							
Nitrobenzene	ND	µg/kg	167							
n-Nitrosodi-n-propylamine	ND	µg/kg	33.0							
N-Nitrosodiphenylamine	ND	µg/kg	33.0							
Pentachlorophenol	ND	µg/kg	33.0							
Phenanthrene	ND	µg/kg	6.67							
Phenol	ND	µg/kg	33.0							
Pyrene	ND	µg/kg	6.67							
Pyridine	ND	µg/kg	167							
Surr: 2,4,6-Tribromophenol	2420	µg/kg		3333		72.6	48-94			
Surr: 2-Fluorobiphenyl	2470	µg/kg		3333		74.2	50-103			
Surr: 2-Fluorophenol	2570	µg/kg		3333		77.0	43-105			
Surr: 4-Terphenyl-d14	2930	µg/kg		3333		87.9	55-111			
Surr: Nitrobenzene-d5	2530	µg/kg		3333		75.8	47-100			
Surr: Phenol-d6	2620	µg/kg		3333		78.6	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2164238-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 08/18/25 17:51

Prep Date: 08/16/25 14:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1060	µg/kg	33.0	1333		79.2	57-101			
1,2,4,5-Tetrachlorobenzene	1040	µg/kg	33.0	1333		78.4	54-98			
1-Methylnaphthalene	1040	µg/kg	6.67	1333		78.2	56-100			



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3411612

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2164238-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 08/18/25 17:51

Prep Date: 08/16/25 14:14

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	1140	µg/kg	33.0	1333		85.3	50-101			
2,3,4,6-Tetrachlorophenol	1210	µg/kg	67.0	1333		90.7	48-103			
2,4,5-Trichlorophenol	1030	µg/kg	33.0	1333		77.5	54-98			
2,4,6-Trichlorophenol	999	µg/kg	33.0	1333		74.9	56-97			
2,4-Dichlorophenol	1030	µg/kg	33.0	1333		77.1	54-99			
2,4-Dimethylphenol	1070	µg/kg	33.0	1333		80.3	47-102			
2,4-Dinitrophenol	1000	µg/kg	333	1333		75.0	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1260	µg/kg	33.0	1333		94.9	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1230	µg/kg	33.0	1333		92.6	62-103			
2-Chloronaphthalene	1010	µg/kg	6.67	1333		75.6	57-101			
2-Chlorophenol	1010	µg/kg	33.0	1333		76.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	1250	µg/kg	33.0	1333		93.7	42-104			
2-Methylnaphthalene	1030	µg/kg	6.67	1333		77.0	55-102			
2-Methylphenol (o-Cresol)	1070	µg/kg	33.0	1333		80.1	54-103			
2-Nitroaniline	1350	µg/kg	33.0	1333		101	57-103			
2-Nitrophenol	1240	µg/kg	33.0	1333		93.3	52-102			
3&4-Methylphenol	1100	µg/kg	33.0	1333		82.5	56-103			
3,3'-Dichlorobenzidine	815	µg/kg	167	1333		61.1	41-91			
3-Nitroaniline	957	µg/kg	33.0	1333		71.8	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1070	µg/kg	33.0	1333		80.4	63-104			
4-Chloro-3-methylphenol	1100	µg/kg	33.0	1333		82.5	57-103			
4-Chloroaniline	1070	µg/kg	67.0	1333		80.1	32-99			
4-Chlorophenyl phenylether	1110	µg/kg	33.0	1333		83.5	62-100			
4-Nitroaniline	963	µg/kg	167	1333		72.3	19-124			
4-Nitrophenol	1250	µg/kg	333	1333		93.8	44-106			
Acenaphthene	1060	µg/kg	6.67	1333		79.2	60-101			
Acenaphthylene	1060	µg/kg	6.67	1333		79.8	59-101			
Acetophenone	1060	µg/kg	33.0	1333		79.9	54-102			
Anthracene	1160	µg/kg	6.67	1333		87.0	63-96			
Atrazine	1350	µg/kg	33.0	1333		101	60-110			
Benzaldehyde	536	µg/kg	67.0	1333		40.2	10-143			
Benzo(a)anthracene	1110	µg/kg	6.67	1333		83.3	66-102			
Benzo(a)pyrene	1130	µg/kg	6.67	1333		84.5	66-105			
Benzo(b)fluoranthene	1150	µg/kg	6.67	1333		86.1	67-105			
Benzo(g,h,i)perylene	1100	µg/kg	6.67	1333		82.6	59-110			
Benzo(k)fluoranthene	1200	µg/kg	6.67	1333		89.9	68-106			
bis(2-Chloroethoxy)methane	1140	µg/kg	33.0	1333		85.3	54-102			
bis(2-Chloroethyl) ether	1150	µg/kg	33.0	1333		86.3	51-101			
Butyl benzyl phthalate	1160	µg/kg	67.0	1333		86.8	59-107			
Caprolactam	1250	µg/kg	33.0	1333		93.7	49-103			
Carbazole	1120	µg/kg	33.0	1333		84.3	63-103			
Chrysene	1110	µg/kg	6.67	1333		83.1	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1170	µg/kg	33.0	1333		87.7	63-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3411612

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2164238-002			
Method: EPA 8270E		Dilution: 1		Analysis Date: 08/18/25 17:51		Prep Date: 08/16/25 14:14			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Dibenz(a,h) anthracene	1040	µg/kg	33.0	1333		78.0	61-109		
Dibenzofuran	1080	µg/kg	33.0	1333		81.0	61-101		
Diethyl phthalate	1170	µg/kg	33.0	1333		87.8	63-105		
Dimethyl phthalate	1130	µg/kg	33.0	1333		84.7	64-104		
Di-n-butyl phthalate	1150	µg/kg	33.0	1333		86.2	66-108		
Di-n-octyl phthalate	1180	µg/kg	33.0	1333		88.4	53-126		
Fluoranthene	1100	µg/kg	6.67	1333		82.9	66-105		
Fluorene	1100	µg/kg	6.67	1333		82.5	62-101		
Hexachlorobenzene	1130	µg/kg	33.0	1333		84.9	61-104		
Hexachlorobutadiene	966	µg/kg	33.0	1333		72.5	52-99		
Hexachlorocyclopentadiene	968	µg/kg	33.0	1333		72.6	39-106		
Hexachloroethane	1000	µg/kg	33.0	1333		75.0	59-99		
Indeno(1,2,3-cd) pyrene	1050	µg/kg	6.67	1333		78.8	57-114		
Isophorone	1110	µg/kg	167	1333		83.1	55-101		
Methylphenol, Total	2170	µg/kg	67.0	2667		81.3	54-103		
Naphthalene	975	µg/kg	6.67	1333		73.1	54-99		
Nitrobenzene	1130	µg/kg	167	1333		84.7	53-100		
n-Nitrosodi-n-propylamine	1220	µg/kg	33.0	1333		91.8	52-104		
N-Nitrosodiphenylamine	1110	µg/kg	33.0	1333		83.4	61-104		
Pentachlorophenol	1060	µg/kg	33.0	1333		79.5	35-100		
Phenanthrene	1060	µg/kg	6.67	1333		79.8	64-101		
Phenol	1090	µg/kg	33.0	1333		81.6	51-107		
Pyrene	1210	µg/kg	6.67	1333		90.5	62-114		
Pyridine	917	µg/kg	167	1333		68.8	40-84		
Surr: 2,4,6-Tribromophenol	3030	µg/kg		3333		91.0	48-94		
Surr: 2-Fluorobiphenyl	2470	µg/kg		3333		74.2	50-103		
Surr: 2-Fluorophenol	2480	µg/kg		3333		74.4	43-105		
Surr: 4-Terphenyl-d14	2950	µg/kg		3333		88.5	55-111		
Surr: Nitrobenzene-d5	2660	µg/kg		3333		79.9	47-100		
Surr: Phenol-d6	2720	µg/kg		3333		81.5	49-110		

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2153855

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3398757

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2153855-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 13:01

Prep Date: 08/11/25 17:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	µg/kg	30.0							
1,1,2,2-Tetrachloroethane	ND	µg/kg	30.0							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	µg/kg	30.0							
1,1,2-Trichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethylene	ND	µg/kg	30.0							
1,2,3-Trichlorobenzene	ND	µg/kg	100							
1,2,3-Trichloropropane	ND	µg/kg	30.0							
1,2,4-Trichlorobenzene	ND	µg/kg	100							
1,2,4-Trimethylbenzene	ND	µg/kg	30.0							
1,2-Dibromo-3-chloropropane (DBCP)	ND	µg/kg	100							
1,2-Dibromoethane (EDB, Ethylene dibromide)	ND	µg/kg	30.0							
1,2-Dichlorobenzene (o-Dichlorobenzene)	ND	µg/kg	30.0							
1,2-Dichloroethane (Ethylene dichloride)	ND	µg/kg	100							
1,2-Dichloropropane	ND	µg/kg	30.0							
1,3,5-Trimethylbenzene	ND	µg/kg	100							
1,3-Dichlorobenzene (m-Dichlorobenzene)	ND	µg/kg	30.0							
1,3-Dichloropropene	ND	µg/kg	60.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/kg	30.0							
2-Butanone (Methyl ethyl ketone, MEK)	ND	µg/kg	200							
2-Hexanone	ND	µg/kg	30.0							
4-Methyl-2-pentanone (MIBK)	ND	µg/kg	30.0							
Acetone	ND	µg/kg	100							
Benzene	ND	µg/kg	30.0							
Bromochloromethane	ND	µg/kg	30.0							
Bromodichloromethane	ND	µg/kg	30.0							
Bromoform	ND	µg/kg	30.0							
Carbon disulfide	ND	µg/kg	30.0							
Carbon tetrachloride	ND	µg/kg	30.0							
Chlorobenzene	ND	µg/kg	30.0							
Chlorodibromomethane	ND	µg/kg	30.0							
Chloroethane (Ethyl chloride)	ND	µg/kg	100							
Chloroform	ND	µg/kg	30.0							
cis & trans-1,2-Dichloroethene	ND	µg/kg	60.0							
cis-1,2-Dichloroethylene	ND	µg/kg	30.0							
cis-1,3-Dichloropropene	ND	µg/kg	30.0							
Cyclohexane	ND	µg/kg	100							
Dichlorodifluoromethane (Freon-12)	ND	µg/kg	100							



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2153855

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3398757

MB	CLIENT ID: Method Blank	Lab ID: QC-2153855-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 13:01

Prep Date: 08/11/25 17:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane	ND	µg/kg	30.0							
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	1040	µg/kg		1000		104	80-120			
Surr: 4-Bromofluorobenzene	924	µg/kg		1000		92.4	80-120			
Surr: Dibromofluoromethane	964	µg/kg		1000		96.4	80-120			
Surr: Toluene-d8	1040	µg/kg		1000		104	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153855-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 12:12

Prep Date: 08/11/25 17:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	850	µg/kg	30.0	1000		85.0	75-121			
1,1,2,2-Tetrachloroethane	891	µg/kg	30.0	1000		89.1	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	882	µg/kg	30.0	1000		88.2	62-129			
1,1,2-Trichloroethane	887	µg/kg	30.0	1000		88.7	80-123			
1,1-Dichloroethane	846	µg/kg	30.0	1000		84.6	74-124			
1,1-Dichloroethylene	909	µg/kg	30.0	1000		90.9	68-131			
1,2,3-Trichlorobenzene	750	µg/kg	100	1000		75.0	60-135			
1,2,3-Trichloropropane	880	µg/kg	30.0	1000		88.0	77-121			
1,2,4-Trichlorobenzene	810	µg/kg	100	1000		81.0	63-130			
1,2,4-Trimethylbenzene	866	µg/kg	30.0	1000		86.6	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	742	µg/kg	100	1000		74.2	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	766	µg/kg	30.0	1000		76.6	63-155			



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2153855

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3398757

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153855-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 12:12

Prep Date: 08/11/25 17:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	857	µg/kg	30.0	1000		85.7	77-122			
1,2-Dichloroethane (Ethylene dichloride)	869	µg/kg	100	1000		86.9	70-130			
1,2-Dichloropropane	874	µg/kg	30.0	1000		87.4	71-130			
1,3,5-Trimethylbenzene	862	µg/kg	100	1000		86.2	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	819	µg/kg	30.0	1000		81.9	78-121			
1,3-Dichloropropene	1800	µg/kg	60.0	2000		89.8	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	822	µg/kg	30.0	1000		82.2	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	902	µg/kg	200	1000		90.2	47-164			
2-Hexanone	966	µg/kg	30.0	1000		96.6	70-137			
4-Methyl-2-pentanone (MIBK)	1370	µg/kg	30.0	1000		137	57-200			
Acetone	841	µg/kg	100	1000		84.1	52-190			
Benzene	922	µg/kg	30.0	1000		92.2	78-122			
Bromochloromethane	899	µg/kg	30.0	1000		89.9	68-130			
Bromodichloromethane	958	µg/kg	30.0	1000		95.8	75-125			
Bromoform	811	µg/kg	30.0	1000		81.1	59-120			
Carbon disulfide	1020	µg/kg	30.0	1000		102	60-163			
Carbon tetrachloride	1050	µg/kg	30.0	1000		105	69-123			
Chlorobenzene	873	µg/kg	30.0	1000		87.3	79-120			
Chlorodibromomethane	834	µg/kg	30.0	1000		83.4	57-123			
Chloroethane (Ethyl chloride)	830	µg/kg	100	1000		83.0	38-132			
Chloroform	826	µg/kg	30.0	1000		82.6	72-122			
cis & trans-1,2-Dichloroethene	1730	µg/kg	60.0	2000		86.6	72-127			
cis-1,2-Dichloroethylene	886	µg/kg	30.0	1000		88.6	74-125			
cis-1,3-Dichloropropene	998	µg/kg	30.0	1000		99.8	62-124			
Dichlorodifluoromethane (Freon-12)	952	µg/kg	100	1000		95.2	28-137			
Ethylbenzene	882	µg/kg	30.0	1000		88.2	75-121			
Isopropylbenzene	852	µg/kg	30.0	1000		85.2	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		89.0	67-129			
Methyl acetate	698	µg/kg	250	1000		69.8	61-125			
Methyl bromide (Bromomethane)	910	µg/kg	100	1000		91.0	31-169			
Methyl chloride (Chloromethane)	969	µg/kg	100	1000		96.9	24-119			
Methyl tert-butyl ether (MTBE)	954	µg/kg	30.0	1000		95.4	79-139			
Methylene chloride (Dichloromethane)	870	µg/kg	250	1000		87.0	62-135			
o-Xylene	913	µg/kg	30.0	1000		91.3	75-120			
Styrene	860	µg/kg	30.0	1000		86.0	74-126			
Tetrachloroethylene (Perchloroethylene)	832	µg/kg	30.0	1000		83.2	76-128			
Toluene	880	µg/kg	30.0	1000		88.0	76-120			
Total Xylene	2690	µg/kg	90.0	3000		89.8	67-129			
trans-1,2-Dichloroethylene	846	µg/kg	30.0	1000		84.6	72-127			
trans-1,3-Dichloropropylene	798	µg/kg	30.0	1000		79.8	66-120			
Trichloroethene (Trichloroethylene)	860	µg/kg	30.0	1000		86.0	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2153855

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3398757

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153855-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 12:12

Prep Date: 08/11/25 17:03

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	723	µg/kg	30.0	1000		72.3	51-115			
Vinyl chloride (Chloroethene)	898	µg/kg	30.0	1000		89.8	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	994	<i>µg/kg</i>		1000		99.4	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	928	<i>µg/kg</i>		1000		92.8	80-120			
<i>Surr: Dibromofluoromethane</i>	1000	<i>µg/kg</i>		1000		100	80-120			
<i>Surr: Toluene-d8</i>	996	<i>µg/kg</i>		1000		99.6	80-120			

The following samples were analyzed in this batch: HN2511173-001, HN2511173-002, HN2511173-003



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166529

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413473

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2166529-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/19/25 12:36

Prep Date: 08/18/25 14:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	µg/kg	30.0							
1,1,2,2-Tetrachloroethane	ND	µg/kg	30.0							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	µg/kg	30.0							
1,1,2-Trichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethane	ND	µg/kg	30.0							
1,1-Dichloroethylene	ND	µg/kg	30.0							
1,2,3-Trichlorobenzene	ND	µg/kg	100							
1,2,3-Trichloropropane	ND	µg/kg	30.0							
1,2,4-Trichlorobenzene	ND	µg/kg	100							
1,2,4-Trimethylbenzene	ND	µg/kg	30.0							
1,2-Dibromo-3-chloropropane (DBCP)	ND	µg/kg	100							
1,2-Dibromoethane (EDB, Ethylene dibromide)	ND	µg/kg	30.0							
1,2-Dichlorobenzene (o-Dichlorobenzene)	ND	µg/kg	30.0							
1,2-Dichloroethane (Ethylene dichloride)	ND	µg/kg	100							
1,2-Dichloropropane	ND	µg/kg	30.0							
1,3,5-Trimethylbenzene	ND	µg/kg	100							
1,3-Dichlorobenzene (m-Dichlorobenzene)	ND	µg/kg	30.0							
1,3-Dichloropropene	ND	µg/kg	60.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/kg	30.0							
2-Butanone (Methyl ethyl ketone, MEK)	ND	µg/kg	200							
2-Hexanone	ND	µg/kg	30.0							
4-Methyl-2-pentanone (MIBK)	ND	µg/kg	30.0							
Acetone	ND	µg/kg	100							
Benzene	ND	µg/kg	30.0							
Bromochloromethane	ND	µg/kg	30.0							
Bromodichloromethane	ND	µg/kg	30.0							
Bromoform	ND	µg/kg	30.0							
Carbon disulfide	ND	µg/kg	30.0							
Carbon tetrachloride	ND	µg/kg	30.0							
Chlorobenzene	ND	µg/kg	30.0							
Chlorodibromomethane	ND	µg/kg	30.0							
Chloroethane (Ethyl chloride)	ND	µg/kg	100							
Chloroform	ND	µg/kg	30.0							
cis & trans-1,2-Dichloroethene	ND	µg/kg	60.0							
cis-1,2-Dichloroethylene	ND	µg/kg	30.0							
cis-1,3-Dichloropropene	ND	µg/kg	30.0							
Cyclohexane	ND	µg/kg	100							
Dichlorodifluoromethane (Freon-12)	ND	µg/kg	100							



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166529

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413473

MB	CLIENT ID: Method Blank	Lab ID: QC-2166529-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/19/25 12:36

Prep Date: 08/18/25 14:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane	ND	µg/kg	30.0							
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	981	µg/kg		1000		98.1	80-120			
Surr: 4-Bromofluorobenzene	948	µg/kg		1000		94.8	80-120			
Surr: Dibromofluoromethane	881	µg/kg		1000		88.1	72-120			
Surr: Toluene-d8	1000	µg/kg		1000		100	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166529-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/19/25 12:36

Prep Date: 08/18/25 14:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	932	µg/kg	30.0	1000		93.2	75-121			
1,1,2,2-Tetrachloroethane	1020	µg/kg	30.0	1000		102	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	995	µg/kg	30.0	1000		99.5	62-129			
1,1,2-Trichloroethane	968	µg/kg	30.0	1000		96.8	80-123			
1,1-Dichloroethane	964	µg/kg	30.0	1000		96.4	74-124			
1,1-Dichloroethylene	912	µg/kg	30.0	1000		91.2	68-131			
1,2,3-Trichlorobenzene	1100	µg/kg	100	1000		110	60-135			
1,2,3-Trichloropropane	968	µg/kg	30.0	1000		96.8	77-121			
1,2,4-Trichlorobenzene	1080	µg/kg	100	1000		108	63-130			
1,2,4-Trimethylbenzene	1020	µg/kg	30.0	1000		102	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	998	µg/kg	100	1000		99.8	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	943	µg/kg	30.0	1000		94.3	63-155			



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166529

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413473

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166529-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/19/25 12:36

Prep Date: 08/18/25 14:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	1040	µg/kg	30.0	1000		104	77-122			
1,2-Dichloroethane (Ethylene dichloride)	947	µg/kg	100	1000		94.7	70-130			
1,2-Dichloropropane	964	µg/kg	30.0	1000		96.4	71-130			
1,3,5-Trimethylbenzene	1040	µg/kg	100	1000		104	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	1050	µg/kg	30.0	1000		105	78-121			
1,3-Dichloropropene	1660	µg/kg	60.0	2000		83.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1040	µg/kg	30.0	1000		104	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1090	µg/kg	200	1000		109	47-164			
2-Hexanone	1050	µg/kg	30.0	1000		105	70-137			
4-Methyl-2-pentanone (MIBK)	1410	µg/kg	30.0	1000		141	57-200			
Acetone	1180	µg/kg	100	1000		118	52-190			
Benzene	970	µg/kg	30.0	1000		97.0	78-122			
Bromochloromethane	942	µg/kg	30.0	1000		94.2	68-130			
Bromodichloromethane	914	µg/kg	30.0	1000		91.4	75-125			
Bromoform	872	µg/kg	30.0	1000		87.2	59-120			
Carbon disulfide	880	µg/kg	30.0	1000		88.0	60-163			
Carbon tetrachloride	991	µg/kg	30.0	1000		99.1	69-123			
Chlorobenzene	998	µg/kg	30.0	1000		99.8	79-120			
Chlorodibromomethane	772	µg/kg	30.0	1000		77.2	57-123			
Chloroethane (Ethyl chloride)	669	µg/kg	100	1000		66.9	38-132			
Chloroform	929	µg/kg	30.0	1000		92.9	72-122			
cis & trans-1,2-Dichloroethene	1870	µg/kg	60.0	2000		93.4	72-127			
cis-1,2-Dichloroethylene	954	µg/kg	30.0	1000		95.4	74-125			
cis-1,3-Dichloropropene	896	µg/kg	30.0	1000		89.6	62-124			
Dichlorodifluoromethane (Freon-12)	437	µg/kg	100	1000		43.7	28-137			
Ethylbenzene	1010	µg/kg	30.0	1000		101	75-121			
Isopropylbenzene	1040	µg/kg	30.0	1000		104	74-121			
m+p-Xylene	2050	µg/kg	60.0	2000		102	67-129			
Methyl acetate	893	µg/kg	250	1000		89.3	61-125			
Methyl bromide (Bromomethane)	722	µg/kg	100	1000		72.2	31-169			
Methyl chloride (Chloromethane)	650	µg/kg	100	1000		65.0	24-119			
Methyl tert-butyl ether (MTBE)	1010	µg/kg	30.0	1000		101	79-139			
Methylene chloride (Dichloromethane)	950	µg/kg	250	1000		95.0	62-135			
o-Xylene	1020	µg/kg	30.0	1000		102	75-120			
Styrene	1070	µg/kg	30.0	1000		107	74-126			
Tetrachloroethylene (Perchloroethylene)	1040	µg/kg	30.0	1000		104	76-128			
Toluene	994	µg/kg	30.0	1000		99.4	76-120			
Total Xylene	3070	µg/kg	90.0	3000		102	67-129			
trans-1,2-Dichloroethylene	914	µg/kg	30.0	1000		91.4	72-127			
trans-1,3-Dichloropropylene	764	µg/kg	30.0	1000		76.4	66-120			
Trichloroethene (Trichloroethylene)	962	µg/kg	30.0	1000		96.2	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 4563 Belvidere
Matrix: SOIL/SOLID
QC Lot: 2166529

Work Order: HN2511173
Date Collected: NA
Date Received: NA
Run ID: 3413473

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166529-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/19/25 12:36

Prep Date: 08/18/25 14:23

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	704	µg/kg	30.0	1000		70.4	51-115			
Vinyl chloride (Chloroethene)	652	µg/kg	30.0	1000		65.2	43-128			
Surr: 1,2-Dichloroethane-d4	1000	µg/kg		1000		100	80-120			
Surr: 4-Bromofluorobenzene	994	µg/kg		1000		99.4	80-120			
Surr: Dibromofluoromethane	1070	µg/kg		1000		107	72-120			
Surr: Toluene-d8	1010	µg/kg		1000		101	80-120			

The following samples were analyzed in this batch: HN2511173-002, HN2511173-003



right solutions.
right partner.

October 20, 2025

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

Re: **DETR0060**

Date Received: **10/09/2025**
Work Order: **HN2514958**
Revision: **1**

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

Dale Schipper
/S/ **DALE SCHIPPER**

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060

Work Order: HN2514958
Date Received: 09-Oct-2025

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 09-Oct-2025. 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 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: 4563 Belvidere SB03 TCLP

Lab ID: HN2514958-001

Analyte	Results	Flag	MRL	Units	Method
Lead	0.0698		0.0499	mg/L	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2514958

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514958-001	4563 Belvidere SB03 TCLP	SOIL/SOLID	10/08/25 14:30	10/09/25 07:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
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	07/01/2024	6/30/2025
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	06/14/2024	07/31/2025
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	08/15/2024	08/31/2025

¹ - Scope available upon request

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID

Work Order: HN2514958
Date Collected: 10/08/25 14:30
Date Received: 10/09/25 07:00

CLIENT ID: 4563 Belvidere SB03 TCLP

Lab ID: HN2514958-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/15/25 04:03	10/14/25 11:41
Chromium	EPA 6020B	ND		mg/L	0.0499	1	10/15/25 04:03	10/14/25 11:41
Lead	EPA 6020B	0.0698		mg/L	0.0499	1	10/15/25 04:03	10/14/25 11:41
Selenium	EPA 6020B	ND		mg/L	0.0499	1	10/15/25 04:03	10/14/25 11:41
TCLP Semivolatile Organic Compounds by GC-MS								
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
3&4-Methylphenol	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
Hexachlorobenzene	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
Hexachlorobutadiene	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
Hexachloroethane	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
Nitrobenzene	EPA 8270E	ND		µg/L	20.0	1	10/15/25 11:21	10/14/25 12:05
Pentachlorophenol	EPA 8270E	ND		µg/L	50.0	1	10/15/25 11:21	10/14/25 12:05
Pyridine	EPA 8270E	ND		µg/L	100	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	69.7		%REC	38-116	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	66.2		%REC	30-101	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	59.1		%REC	22-78	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	73.3		%REC	37-99	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	74.0		%REC	28-102	1	10/15/25 11:21	10/14/25 12:05
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	43.1		%REC	18-55	1	10/15/25 11:21	10/14/25 12:05

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2273977

Work Order: HN2514958
Date Collected: NA
Date Received: NA
Run ID: 3586505

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2273977-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/15/25 03:41
Prep Date: 10/14/25 11:42

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	ND	mg/L	0.0499							
Chromium	ND	mg/L	0.0499							
Lead	ND	mg/L	0.0499							
Selenium	ND	mg/L	0.0499							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2273977-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/15/25 03:43
Prep Date: 10/14/25 11:42

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.990	mg/L	0.0499	1		99.0	80-120			
Chromium	0.953	mg/L	0.0499	1		95.3	80-120			
Lead	0.987	mg/L	0.0499	1		98.7	80-120			
Selenium	1.01	mg/L	0.0499	1		101	80-120			

The following samples were analyzed in this batch: HN2514958-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2274002

Work Order: HN2514958
Date Collected: NA
Date Received: NA
Run ID: 3589851

TCLP Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2274002-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/15/25 06:51

Prep Date: 10/14/25 12:06

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,4-Dichlorobenzene (p-Dichlorobenzene)	ND	µg/L	4.00							
2,4,5-Trichlorophenol	ND	µg/L	4.00							
2,4,6-Trichlorophenol	ND	µg/L	4.00							
2,4-Dinitrotoluene (2,4-DNT)	ND	µg/L	4.00							
2-Methylphenol (o-Cresol)	ND	µg/L	4.00							
3&4-Methylphenol	ND	µg/L	4.00							
Hexachlorobenzene	ND	µg/L	4.00							
Hexachlorobutadiene	ND	µg/L	4.00							
Hexachloroethane	ND	µg/L	4.00							
Nitrobenzene	ND	µg/L	4.00							
Pentachlorophenol	ND	µg/L	10.0							
Pyridine	ND	µg/L	20.0							
Surr: 2,4,6-Tribromophenol	115	µg/L		200		57.3	38-116			
Surr: 2-Fluorobiphenyl	110	µg/L		200		54.8	30-101			
Surr: 2-Fluorophenol	101	µg/L		200		50.5	22-78			
Surr: 4-Terphenyl-d14	112	µg/L		200		56.2	37-99			
Surr: Nitrobenzene-d5	122	µg/L		200		61.1	28-102			
Surr: Phenol-d6	73.5	µg/L		200		36.8	18-55			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2274002-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 10/15/25 07:18

Prep Date: 10/14/25 12:06

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,4-Dichlorobenzene (p-Dichlorobenzene)	43.0	µg/L	4.00	80		53.8	21-108			
2,4,5-Trichlorophenol	61.9	µg/L	4.00	80		77.4	38-112			
2,4,6-Trichlorophenol	59.3	µg/L	4.00	80		74.1	32-118			
2,4-Dinitrotoluene (2,4-DNT)	57.5	µg/L	4.00	80		71.9	35-132			
2-Methylphenol (o-Cresol)	59.6	µg/L	4.00	80		74.4	31-101			
3&4-Methylphenol	55.9	µg/L	4.00	80		69.8	30-96			
Hexachlorobenzene	58.6	µg/L	4.00	80		73.2	36-119			
Hexachlorobutadiene	45.3	µg/L	4.00	80		56.6	17-116			
Hexachloroethane	38.3	µg/L	4.00	80		47.8	18-108			
Nitrobenzene	61.6	µg/L	4.00	80		77.0	35-112			
Pentachlorophenol	57.1	µg/L	10.0	80		71.4	23-116			
Pyridine	44.3	µg/L	20.0	80		55.4	18-78			
Surr: 2,4,6-Tribromophenol	144	µg/L		200		71.9	38-116			
Surr: 2-Fluorobiphenyl	138	µg/L		200		69.3	30-101			
Surr: 2-Fluorophenol	118	µg/L		200		59.0	22-78			
Surr: 4-Terphenyl-d14	137	µg/L		200		68.3	37-99			
Surr: Nitrobenzene-d5	146	µg/L		200		73.2	28-102			
Surr: Phenol-d6	84.5	µg/L		200		42.3	18-55			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2274002

Work Order: HN2514958
Date Collected: NA
Date Received: NA
Run ID: 3589851

The following samples were analyzed in this batch: HN2514958-001

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060

Work Order: HN2514958

Sample Name: 4563 Belvidere SB03 TCLP
Laboratory Code: HN2514958-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/08/25
Date Received: 10/09/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2273977	Chloe Patrick	3586505	Stephanie Pierson
EPA 8270E	EPA 3510C	001-AE	2274002	Danielle Maleski	3589851	Alexa Montague



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		ALS Project Manager:		Work Order #:						
Parameter/Method Request for Analysis												
Purchase Order		Project Name	4563 Belvidere	A	TCLP SVOC's							
Work Order	Quote ID - 11631	Project Number	DETR0060	B	TCLP Chromium							
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C	TCLP Lead							
Send Report To	Ryan Montri	Invoice Attn.		D	TCLP Selenium							
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E								
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F								
Phone	734-397-3100	Phone	734-397-3100	G								
Fax		Fax		H								
e-Mail Address	rmontri@mannaiksmithgroup.com	e-Mail Address		I								
				J								
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F
1	4563 Belvidere SBO3 TCLP	10/8/25	1430	Soil		2	X	X	X	X		
2												
3												
4												
5												
6												
7												
8												
9												
10												
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:						
Shannon Haczmarek Arms				☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour								
Relinquished by:	Date:	Time:	Received by:	Notes:								
Shannon Haczmarek	10/8/25	4:28	Coleen	QS to Brittany H 10/9/25								
Relinquished by:	Date:	Time:	Received by (Laboratory):	QC Package: (Check Box Below)								
Coleen	10/8/25	1700	QS	Cooler Temp.								
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Level II: Standard QC								
BH	10/9/25	14:15		Level III: Std QC + Raw Data								
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				Level IV: SW846 CLP-Like								
				Other: _____								

Environmental Division
Holland
Work Order Reference
HN2514958

Telephone : +1 616 399 6070

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

<https://www.alsglobal.com/ALSGroupUSACorpTC>

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ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/9/25 0700

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): 2.1/2.1c

Thermometer(s): 1R7

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

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/9/25 14:15

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: