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FILL MATERIAL SAMPLING REPORT

**3946 LEMAY 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

**3946 LEMAY STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48214**

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 3946 Lemay Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure 1, *Site Location Map*. Figure 2, *Site Layout*, depicts the current layout of the Site.

This Executive Summary is provided to summarize the results of the work performed at the Site. The Executive Summary is general in nature and should not be used to replace or be considered apart from the entirety of this report.

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Sample analyses associated with this work included volatile organic compounds (VOCs); semi-volatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

Pursuant to a request by the COD, MSG has completed sampling and analysis of fill material at the Site, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Results of this work, which are subject to the limitations presented in *Appendix A, Limitations*, incorporated by reference herewith, revealed the following:

- The stratigraphy encountered during soil boring advancement of 3946 SB01, 3946 SB02, and 3946 SB03 generally consisted of tan to brown silty clay 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 0.2 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.
- Concentrations of chromium (Total) were detected in soil sample 3946 SB02 (3-4) in excess of its respective Part 201 groundwater surface water interface protection criteria (GSIPC).
- Concentrations of 4-methylphenol, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, cadmium, caprolactam, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene and zinc were detected in the soil samples 3946 SB01 (1-2), 3946 SB02 (3-4), and/or 3946 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 chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Given that groundwater is not present to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, the groundwater surface water exposure pathway can be considered not applicable.

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 3946 Lemay Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout*, depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on 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 (6) feet below ground surface (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 13, 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 3946 SB01, 3946 SB02, and 3946 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 (6) 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 13, 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 3946 SB01 (1-2), 3946 SB02 (3-4), and 3946 SB03 (5-6), and one (1) composite soil sample designated 3946 Lemay SB02 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 13, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 3946 SB01, 3946 SB02, and 3946 SB03 generally consisted of tan to brown silty clay to six (6) feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 3946 SB01 (1-2), 3946 SB02 (3-4), and 3946 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)
Chromium (Total)	7440-47-3	3946 SB02 (3-4)	GSIPC ² / 3,300	20,100

¹µg/kg – micrograms per kilogram;

²GSIPC – Groundwater Surface Water Interface Protection Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

Groundwater was not encountered during 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.

5.0 FINDINGS

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

- The stratigraphy encountered during soil boring advancement of 3946 SB01, 3946 SB02, and 3946 SB03 generally consisted of tan to brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities.
- Concentrations of chromium (Total) were detected in soil sample 3946 SB02 (3-4) in excess of its respective Part 201 GSIPC.
- Concentrations of 4-methylphenol, arsenic, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, bis(2-ethylhexyl) phthalate, cadmium, caprolactam, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene and zinc were detected in the soil samples 3946 SB01 (1-2), 3946 SB02 (3-4), and/or 3946 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 chromium was not in excess of 40 C.F.R. § 261.24 Title 40 - Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste.

- VOCs, PCBs, pesticides, and herbicides were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Given that groundwater is not present to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, the groundwater surface water exposure pathway can be considered not applicable.

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.

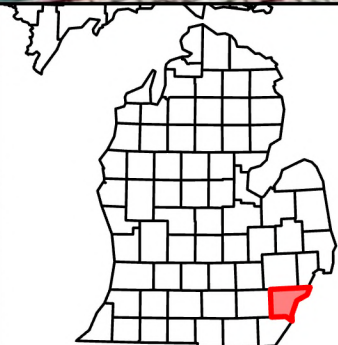
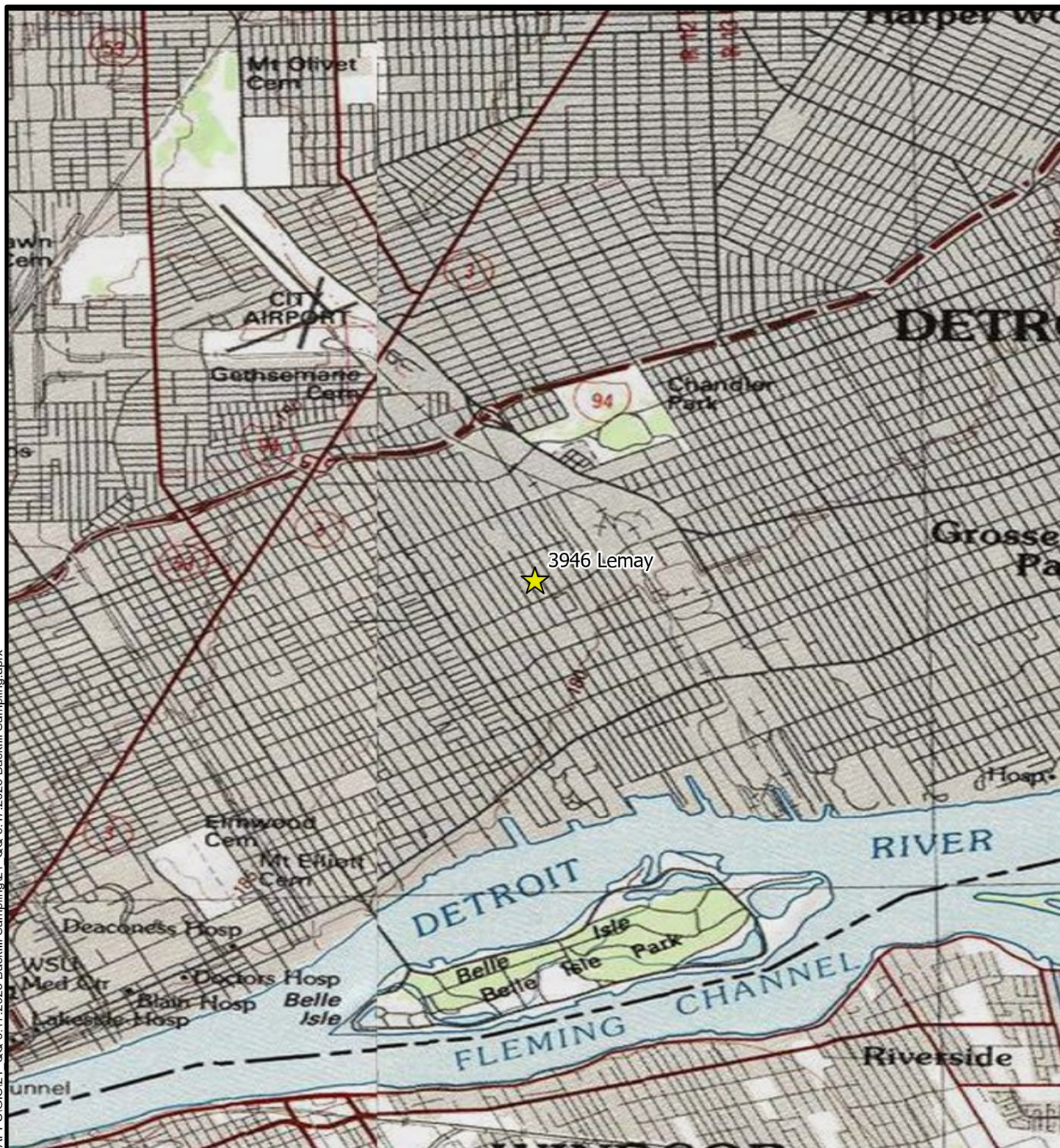
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions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

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FIGURES



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★ Site Location

0 0.5 1
Miles



FIGURE 1
SITE LOCATION

3946 Lemay, Detroit, MI

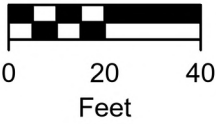
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JWW

DESIGNED BY
JWW

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- Sample Locations
- Parcels (Current)
- Subject Property

Notes
• Parcel boundaries are approximate
• Basemap Credits: Wayne - 2010 - 1ft - RGB:



FIGURE 2
Site Layout

3946 Lemay, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY KRB	PROJECT NO. DETR0060
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TABLES



Table 1
Soil Sample Analytical Detection Summary

Table 1
Soil Sample
Analytical Detection Summary

Detroit Backfill Sampling
3946 Lemay, 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				
		Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Bis(2-ethylhexyl) phthalate	Caprolactam	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	4-Methylphenol	Phenanthrene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)			Chloride				
		CAS Number	56-55-3	205-99-2	207-08-9	191-24-2	50-32-8	117-81-7	105-60-2	218-01-9	206-44-0	193-39-5	106-44-5	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	16887006			
		Statewide Default Background Levels	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			
		Drinking Water Protection Criteria (DWPC)	NLL	NLL	NLL	NLL	NLL	NLL	1.2E+05	NLL	7.3E+05	NLL	NA	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	5.00E+06			
		Groundwater Surface Water Interface Protection Criteria (GSI PC)	NLL	NLL	NLL	NLL	NLL	NLL	NA	NLL	5,500	NLL	NA	2,100	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27			(G)	(X)			
		Soil Volatilization to Indoor Air Inhalation (SVIIC)	NLV	ID	NLV	NLV	NLV	NLV	NLV	ID	1.0E+09 (D)	NLV	NA	2.8E+06	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV			NLV	NLV			
		Soil Volatilization to Indoor Air Pathway (SVIAP)	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			
		Infinite Source Volatile Soil Inhalation Criteria (VSIC)	NLV	ID	NLV	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV			NLV	NLV			
		Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	NLV	ID	NLV	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV			NLV	NLV			
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	NLV	ID	NLV	NLV	NLV	NLV	NLV	ID	7.4E+08	NLV	NA	1.6E+05	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV							
Particulate Soil Inhalation Criteria (PSIC)	ID	ID	ID	8.0E+08	1.5E+06	7.0E+08	6.7E+08	ID	9.3E+09	ID	NA	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	ID							
Direct Contact Criteria (DCC)	20,000	20,000	2.0E+05	2.5E+06	2,000	2.8E+06	5.3E+07 (DD)	2.0E+06	4.6E+07	20,000	NA	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	5.0E+5 (F)							
Soil Saturation Concentration Screening Levels (C _{sat})	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							
Recommended Interim Action Screening Level (RIASL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	--							
SAMPLE ID	DEPTH	SAMPLE DATE																													
3946 SB01	1-2	8/7/2025	ND	<8.12	<8.12	<8.12	<8.12	<8.12	<40.2	108	<8.12	<8.12	<8.12	<40.2	<8.12	<8.12	2,270	7,220	<130	4,240	5,220	3,520	<20.2	<324	<324	21,600	ND	ND	<12,600		
3946 SB02	3-4	8/7/2025	ND	<19.6	<19.6	<19.6	<19.6	<19.6	<96.9	<96.9	<19.6	19.6	<19.6	<96.9	<19.6	<19.6	4,040	134,000	<133	20,100	106,000	95,200	41.2	<334	<334	484,000	ND	ND	<11,100		
3946 SB03	5-6	8/7/2025	ND	29.5	34.2	17.1	17.1	24.9	38.8	44.3	26.4	61.4	17.9	57.5	24.9	50.5	4,970	97,400	2,540	15,300	30,400	83,900	46.0	<313	<313	464,000	ND	ND	<11,600		

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSI PC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSI PC, 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
3946 Lemay, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00
SAMPLE ID	SAMPLE DATE	
3946 Lemay SB02 TCLP	10/13/2025	<0.00610

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: 08/7/2025	Day: Thursday	Temp: N/A (AM) 98 ° F (PM)
MSG Personnel: WRD, ZRG	Cloud Cover: N/A (AM) ~10% (PM)	Precip.: N/A (AM) None (PM)
Personnel: MSG		
MSG Hours On-Site: 2 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 2; Helper/Geologist	Equipment Type: Hand Auger
Summary of Work Performed:		
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).		
Field Notes:		
1340 – ZRG & WRD onsite (3946 Lemay St) 1343 – Unloaded equipment and checked boring locations 1355– Began hand augering SB01 1419 – Finished hand augering SB01 1420 – Began hand augering SB02 1429 – Finished hand augering SB02 1432 – Began hand augering SB03 1448 – Finished hand augering SB03 1450– Sampled 3526 SB01 (1-2') 1455 – Sampled 3526 SB02 (3-4') 1500 – Sampled 3526 SB03 (5-6') 1511– Packed up equipment 1519 – MSG off site		

Supporting Documentation					
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐
Photo Log Attached	☒	☐	COC Attached	☒	☐
Boring/MW Logs	☒	☐	Field Note Book Taken	☐	☒
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.:** 2**Job No.:** DETR0060

Date: 10/13/2025	Day: Monday	Temp: N/A (AM) 70 ° F (PM)
MSG Personnel: SRK, JF		Cloud Cover: N/A (AM) 0% (PM)
		Precip.: N/A (AM) N/A (PM)
Personnel: MSG		
MSG Hours On-Site: ~ 0.5 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 2; Operator/Geologist	Equipment Type: Geoprobe 7822DT
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:		
1320 – MSG (SRK, JF) onsite (3946 Lemay) 1322 – Attempted to locate previous boring locations. Marked out new boring location. 1336 – Began drilling SB02 TCLP 1338 – Finished drilling SB02 TCLP 1344 – Sampled 3946 Lemay SB02 TCLP 1354 – Collected GPS points 1400 – Packed up equipment 1405 – MSG off site		

Supporting Documentation								
Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐	Boring/MW Logs	Yes ☒	No ☐
Photo Log Attached	Yes ☒	No ☐	COC Attached	Yes ☒	No ☐	Field Note Book Taken	Yes ☒	No ☐
Problem Identification and Corrective Measures								
N/A								
Resolved? Yes ☐ No ☐								

APPENDIX C

INVESTIGATION PHOTOGRAPHS





Photo 1: View of Site at the time of initial soil boring activities.



Photo 2: View of Site at the time of initial soil boring activities.



Photo 3: View of TCLP soil boring location



Photo 4: View of soil recovery at the time of TCLP sampling



Photo 5: View of Site at the time of TCLP soil boring activities

APPENDIX D

SOIL BORING LOGS





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

BOREHOLE NUMBER SB01

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS03
DATE STARTED 08-07-2025 **COMPLETED** 08-07-2025
DRILLING CONTRACTOR
DRILLING METHOD Hand Auger
EQUIPMENT Hand Auger **Operator**

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 3946 Lemay, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS Encountered concrete from 1-2 ft. Stepped out three times to the NE.

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	100		Tan/Brown Silty CLAY, trace Sand; dry	0.1	Collected soil sample
					0.2	3946 SB01 (1-2) at 14:50
					0.2	
					0.2	
					0.2	
					0.2	
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING



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

BOREHOLE NUMBER SB02

Sheet 1 of 1

CLIENT City of Detroit
PROJECT NUMBER DETR0060.BFS03
DATE STARTED 08-07-2025 **COMPLETED** 08-07-2025
DRILLING CONTRACTOR
DRILLING METHOD Hand Auger
EQUIPMENT Hand Auger **Operator**

PROJECT NAME Backfill Soil Sampling
PROJECT LOCATION 3946 Lemay, Detroit, MI
POSITION
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
LOGGED BY WRD **CHECKED BY** PDH
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
5	ES	100		Tan/Brown Silty CLAY, some Sand; dry	0.0	
					0.0	
					0.1	
					0.2	Collected soil sample 3946 SB02 (3-4) at 14:55
					0.0	
					0.0	
6.0				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

- ▽ AT TIME OF DRILLING
▼ AT END OF DRILLING
▽ AFTER DRILLING

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511165

Client

The Mannik & Smith Group, Inc.

Project

3946 Lemay

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: **HN2511165**

Re: **3946 Lemay**

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: 3946 Lemay

Work Order: HN2511165
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 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.

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.

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

Run ID: 3399174

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

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

EPA 8082A-3546-S (High)

Run ID: 3417671

HN2511165-001: 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

HN2511165-001: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511165-001: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: DCB

HN2511165-002: 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

HN2511165-002: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511165-002: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: DCB

HN2511165-003: 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

Run ID: 3417671

HN2511165-003: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: TCMX

HN2511165-003: The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimated: DCB

Metals

EPA 6020B-3050B-S

Run ID: 3404829

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 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 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 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 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 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

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

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: 3946 SB01 (1-2)	Lab ID: HN2511165-001
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	2.27		0.324	mg/kg	EPA 6020B
Barium	7.22		0.324	mg/kg	EPA 6020B
Caprolactam	108		40.2	µg/kg	EPA 8270E
Chromium	4.24		3.24	mg/kg	EPA 6020B
Copper	5.22		3.24	mg/kg	EPA 6020B
Lead	3.52		0.324	mg/kg	EPA 6020B
Percent Moisture	18.8		0.1	%	EPA 3550C
Zinc	21.6		6.49	mg/kg	EPA 6020B

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.04		0.334	mg/kg	EPA 6020B
Barium	134		3.34	mg/kg	EPA 6020B
Chromium	20.1		3.34	mg/kg	EPA 6020B
Copper	106		3.34	mg/kg	EPA 6020B
Fluoranthene	19.6		19.6	µg/kg	EPA 8270E
Lead	95.2		0.334	mg/kg	EPA 6020B
Mercury	0.0412		0.0205	mg/kg	EPA 7471B
Percent Moisture	18.1		0.1	%	EPA 3550C
Zinc	484		6.67	mg/kg	EPA 6020B

CLIENT ID: 3946 SB03 (5-6)	Lab ID: HN2511165-003
-----------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
3&4-Methylphenol	57.5		38.5	µg/kg	EPA 8270E
Arsenic	4.97		0.313	mg/kg	EPA 6020B
Barium	97.4		0.313	mg/kg	EPA 6020B
Benzo(a)anthracene	29.5		7.77	µg/kg	EPA 8270E
Benzo(a)pyrene	24.9		7.77	µg/kg	EPA 8270E
Benzo(b)fluoranthene	34.2		7.77	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	17.1		7.77	µg/kg	EPA 8270E
Benzo(k)fluoranthene	17.1		7.77	µg/kg	EPA 8270E
Cadmium	2.54		0.125	mg/kg	EPA 6020B
Caprolactam	44.3		38.5	µg/kg	EPA 8270E
Chromium	15.3		3.13	mg/kg	EPA 6020B
Chrysene	26.4		7.77	µg/kg	EPA 8270E
Copper	30.4		3.13	mg/kg	EPA 6020B
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	38.8		38.5	µg/kg	EPA 8270E
Fluoranthene	61.4		7.77	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	17.9		7.77	µg/kg	EPA 8270E
Lead	83.9		0.313	mg/kg	EPA 6020B
Mercury	0.0460		0.0200	mg/kg	EPA 7471B

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: 3946 SB03 (5-6)		Lab ID: HN2511165-003			
Analyte	Results	Flag	MRL	Units	Method
Percent Moisture	18.4		0.1	%	EPA 3550C
Phenanthrene	24.9		7.77	µg/kg	EPA 8270E
Pyrene	50.5		7.77	µg/kg	EPA 8270E
Zinc	464		6.27	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Workorder: HN2511165

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511165-001	3946 SB01 (1-2)	SOIL/SOLID	08/07/25 14:50	08/09/25 08:00
HN2511165-002	3946 SB02 (3-4)	SOIL/SOLID	08/07/25 14:55	08/09/25 08:00
HN2511165-003	3946 SB03 (5-6)	SOIL/SOLID	08/07/25 15:00	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	3946 Lemay	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)													
				F Pesticides (U.S. EPA Method 8081B (or Method 8081))													
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G Herbicides (U.S. EPA Method 8151A (or Method 8151))													
Phone	734-397-3100	Phone	734-397-3100	H													
Fax		Fax		I													
e-Mail Address	RMontri@manksmithgroup.com	e-Mail Address		J													
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	3946 SB01 (1 - 2)	8/7/25	1450	Soil	MEH	3	X	X	X	X	X	X	X				
2	3946 SB02 (3 - 4)	1	1455	Soil	1	3	X	X	X	X	X	X	X				
3	3946 SB03 (5 - 6)	1	1800	Soil	1	3	X	X	X	X	X	X	X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign
WILEY DAVENPORT

Relinquished by:

Relinquished by:

Logged by (Laboratory):
BC

Shipment Method:

Required Turnaround Time:
☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Received by:

Received by (Laboratory):

Checked by (Laboratory):

Notes: Quote# HN-061825-M&S-MA

Cooler Temp. 4.7°C

IR6

QC Package: (Check Box Below)

Level II: Standard QC

Level III: Std QC + Raw Data

Level IV: SW846 CLP-Like

Other:

TRRP-Checklist

TRRP Level IV

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Environmental Division
Holland
Work Order Reference
HN2511165

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: 3946 Lemay

Work Order: HN2511165

Sample Name: 3946 SB01 (1-2)
Laboratory Code: HN2511165-001
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	2154842	Maxx Richey	3393374	Maxx Richey
EPA 8081B	001-AC	2166097	Sam Bruzan	3422193	Madison VandenBer
EPA 8082A	001-AC	2166112	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	001-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	001-AA	2153840	Jonathan Vazquez	3399174	John Garvale
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: 3946 SB02 (3-4)
Laboratory Code: HN2511165-002
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	2166097	Sam Bruzan	3422193	Madison VandenBer
EPA 8082A	002-AC	2166112	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	002-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	002-AA	2153840	Jonathan Vazquez	3399174	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	2153695	Sage Hansen	3390037	Quoc Nguyen

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay

Work Order: HN2511165

Sample Name: 3946 SB03 (5-6)
Laboratory Code: HN2511165-003
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	2166097	Sam Bruzan	3422193	Madison VandenBer
EPA 8082A	003-AC	2166112	Sam Bruzan	3417671	Nathaniel Dietlin
EPA 8151A	003-AC	2168251	Sam Bruzan	3418604	Kathy Malmyga
EPA 8260D	003-AA	2153840	Jonathan Vazquez	3399174	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	2153695	Sage Hansen	3390037	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2) **Lab ID:** HN2511165-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.8		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	ND		mg/kg	12.6	1	08/11/25 20:19	08/11/25 15:39
Metals								
Arsenic	EPA 6020B	2.27		mg/kg	0.324	1	08/15/25 00:04	08/13/25 08:35
Barium	EPA 6020B	7.22		mg/kg	0.324	1	08/15/25 00:04	08/13/25 08:35
Cadmium	EPA 6020B	ND		mg/kg	0.130	1	08/15/25 00:04	08/13/25 08:35
Chromium	EPA 6020B	4.24		mg/kg	3.24	10	08/15/25 14:57	08/13/25 08:35
Copper	EPA 6020B	5.22		mg/kg	3.24	10	08/15/25 14:57	08/13/25 08:35
Lead	EPA 6020B	3.52		mg/kg	0.324	1	08/15/25 00:04	08/13/25 08:35
Selenium	EPA 6020B	ND		mg/kg	0.324	1	08/15/25 00:04	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.324	1	08/15/25 00:04	08/13/25 08:35
Zinc	EPA 6020B	21.6		mg/kg	6.49	10	08/15/25 14:57	08/13/25 08:35
Mercury	EPA 7471B	ND		mg/kg	0.0202	1	08/13/25 09:50	08/12/25 15:08
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
4,4'-DDE	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
4,4'-DDT	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Aldrin	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
alpha-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
beta-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Chlordane, Technical	EPA 8081B	ND		µg/kg	30.5	1	08/20/25 21:13	08/18/25 15:24
cis-Chlordane	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
delta-BHC	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Dieldrin	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endosulfan I	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endosulfan II	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endosulfan sulfate	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endrin	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endrin aldehyde	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Endrin ketone	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2)	Lab ID: HN2511165-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Heptachlor epoxide	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Methoxychlor	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
Toxaphene	EPA 8081B	ND		µg/kg	73.3	1	08/20/25 21:13	08/18/25 15:24
trans-Chlordane	EPA 8081B	ND		µg/kg	12.2	1	08/20/25 21:13	08/18/25 15:24
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	112		%REC	53-151	1	08/20/25 21:13	08/18/25 15:24
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	109		%REC	67-127	1	08/20/25 21:13	08/18/25 15:24

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1221	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1232	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1242	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1248	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1254	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1260	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1262	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Aroclor 1268	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
Total PCB	EPA 8082A	ND		µg/kg	81.4	1	08/19/25 00:18	08/18/25 13:21
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	60.0		%REC	54-146	1	08/19/25 00:18	08/18/25 13:21
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	110		%REC	58-140	1	08/19/25 00:18	08/18/25 13:21
2,4,5-T	EPA 8151A	ND	S	µg/kg	6.20	1	08/21/25 12:14	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	6.20	1	08/21/25 12:14	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	12.4	1	08/21/25 12:14	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	56.0		%REC	10-116	1	08/21/25 12:14	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	405	1	08/18/25 18:22	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2) **Lab ID: HN2511165-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	81.2	1	08/18/25 18:22	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	405	1	08/18/25 18:22	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	81.2	1	08/18/25 18:22	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	405	1	08/18/25 18:22	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	81.2	1	08/18/25 18:22	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2)	Lab ID: HN2511165-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	ND		µg/kg	8.12	1	08/19/25 22:39	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	8.12	1	08/19/25 22:39	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	8.12	1	08/19/25 22:39	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	81.2	1	08/18/25 18:22	08/16/25 14:13
Caprolactam	EPA 8270E	108		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Chrysene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Fluoranthene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	08/18/25 18:22	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2) **Lab ID: HN2511165-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Phenanthrene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	40.2	1	08/18/25 18:22	08/16/25 14:13
Pyrene	EPA 8270E	ND		µg/kg	8.12	1	08/18/25 18:22	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	203	1	08/18/25 18:22	08/16/25 14:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	<i>72.5</i>		<i>%REC</i>	<i>48-94</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	<i>79.5</i>		<i>%REC</i>	<i>50-103</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	<i>81.3</i>		<i>%REC</i>	<i>43-105</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	<i>78.4</i>		<i>%REC</i>	<i>55-111</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	<i>80.4</i>		<i>%REC</i>	<i>47-100</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	<i>83.3</i>		<i>%REC</i>	<i>49-110</i>	<i>1</i>	<i>08/18/25 18:22</i>	<i>08/16/25 14:13</i>

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 01:29	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2)	Lab ID: HN2511165-001
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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	37.7	1	08/14/25 01:29	08/11/25 17:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	252	1	08/14/25 01:29	08/11/25 17:00
2-Hexanone	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Acetone	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Benzene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Bromochloromethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Bromodichloromethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Bromoform	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Carbon disulfide	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Carbon tetrachloride	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Chlorobenzene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Chlorodibromomethane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Chloroform	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 01:29	08/11/25 17:00
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Cyclohexane	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Ethylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Isopropylbenzene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
m+p-Xylene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 01:29	08/11/25 17:00
Methyl acetate	EPA 8260D	ND		µg/kg	314	1	08/14/25 01:29	08/11/25 17:00
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	126	1	08/14/25 01:29	08/11/25 17:00
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Methylcyclohexane	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	314	1	08/14/25 01:29	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:50
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB01 (1-2) **Lab ID: HN2511165-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Styrene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Toluene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Total Xylene	EPA 8260D	ND		µg/kg	113	1	08/14/25 01:29	08/11/25 17:00
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	37.7	1	08/14/25 01:29	08/11/25 17:00
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	93.8		%REC	80-120	1	08/14/25 01:29	08/11/25 17:00
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	87.8		%REC	80-120	1	08/14/25 01:29	08/11/25 17:00
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.6		%REC	80-120	1	08/14/25 01:29	08/11/25 17:00
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	104		%REC	80-120	1	08/14/25 01:29	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4) **Lab ID: HN2511165-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.1		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	ND		mg/kg	11.1	1	08/11/25 20:29	08/11/25 15:39
Metals								
Arsenic	EPA 6020B	4.04		mg/kg	0.334	1	08/15/25 00:06	08/13/25 08:35
Barium	EPA 6020B	134		mg/kg	3.34	10	08/15/25 14:59	08/13/25 08:35
Cadmium	EPA 6020B	ND		mg/kg	0.133	1	08/15/25 00:06	08/13/25 08:35
Chromium	EPA 6020B	20.1		mg/kg	3.34	10	08/15/25 14:59	08/13/25 08:35
Copper	EPA 6020B	106		mg/kg	3.34	10	08/15/25 14:59	08/13/25 08:35
Lead	EPA 6020B	95.2		mg/kg	0.334	1	08/15/25 00:06	08/13/25 08:35
Selenium	EPA 6020B	ND		mg/kg	0.334	1	08/15/25 00:06	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.334	1	08/15/25 00:06	08/13/25 08:35
Zinc	EPA 6020B	484		mg/kg	6.67	10	08/15/25 14:59	08/13/25 08:35
Mercury	EPA 7471B	0.0412		mg/kg	0.0205	1	08/14/25 08:58	08/14/25 07:47
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
4,4'-DDE	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
4,4'-DDT	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Aldrin	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
alpha-BHC	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
beta-BHC	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Chlordane, Technical	EPA 8081B	ND		µg/kg	63.8	1	08/20/25 22:09	08/18/25 15:24
cis-Chlordane	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
delta-BHC	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Dieldrin	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endosulfan I	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endosulfan II	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endosulfan sulfate	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endrin	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endrin aldehyde	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Endrin ketone	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Heptachlor epoxide	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Methoxychlor	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
Toxaphene	EPA 8081B	ND		µg/kg	153	1	08/20/25 22:09	08/18/25 15:24
trans-Chlordane	EPA 8081B	ND		µg/kg	25.5	1	08/20/25 22:09	08/18/25 15:24
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	106		%REC	53-151	1	08/20/25 22:09	08/18/25 15:24
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	107		%REC	67-127	1	08/20/25 22:09	08/18/25 15:24

Semivolatile Organic Compounds by GC

Aroclor 1016	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1221	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1232	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1242	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1248	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1254	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1260	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1262	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Aroclor 1268	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
Total PCB	EPA 8082A	ND		µg/kg	170	1	08/19/25 00:29	08/18/25 13:21
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	80.0		%REC	54-146	1	08/19/25 00:29	08/18/25 13:21
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	108		%REC	58-140	1	08/19/25 00:29	08/18/25 13:21
2,4,5-T	EPA 8151A	ND	S	µg/kg	6.09	1	08/21/25 12:27	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	6.09	1	08/21/25 12:27	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	12.2	1	08/21/25 12:27	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	60.0		%REC	10-116	1	08/21/25 12:27	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	978	1	08/18/25 18:49	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	196	1	08/18/25 18:49	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	978	1	08/18/25 18:49	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	196	1	08/18/25 18:49	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	978	1	08/18/25 18:49	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	196	1	08/18/25 18:49	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	ND		µg/kg	19.6	1	08/19/25 23:01	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	ND		µg/kg	19.6	1	08/19/25 23:01	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	ND		µg/kg	19.6	1	08/19/25 23:01	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	196	1	08/18/25 18:49	08/16/25 14:13
Caprolactam	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Chrysene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Fluoranthene	EPA 8270E	19.6		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	ND		µg/kg	19.6	1	08/19/25 23:01	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
Methylphenol, Total	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Phenanthrene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	96.9	1	08/18/25 18:49	08/16/25 14:13
Pyrene	EPA 8270E	ND		µg/kg	19.6	1	08/18/25 18:49	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	490	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	61.0		%REC	48-94	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	67.6		%REC	50-103	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	78.7		%REC	43-105	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	66.5		%REC	55-111	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	72.2		%REC	47-100	1	08/18/25 18:49	08/16/25 14:13
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	79.1		%REC	49-110	1	08/18/25 18:49	08/16/25 14:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	71.3	1	08/14/25 01:45	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4)	Lab ID: HN2511165-002
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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	35.6	1	08/14/25 01:45	08/11/25 17:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	238	1	08/14/25 01:45	08/11/25 17:00
2-Hexanone	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Acetone	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Benzene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Bromochloromethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Bromodichloromethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Bromoform	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Carbon disulfide	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Carbon tetrachloride	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Chlorobenzene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Chlorodibromomethane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Chloroform	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	71.3	1	08/14/25 01:45	08/11/25 17:00
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Cyclohexane	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Ethylbenzene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Isopropylbenzene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
m+p-Xylene	EPA 8260D	ND		µg/kg	71.3	1	08/14/25 01:45	08/11/25 17:00
Methyl acetate	EPA 8260D	ND		µg/kg	297	1	08/14/25 01:45	08/11/25 17:00
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	119	1	08/14/25 01:45	08/11/25 17:00
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Methylcyclohexane	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	297	1	08/14/25 01:45	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 14:55
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB02 (3-4) **Lab ID: HN2511165-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Styrene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Toluene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Total Xylene	EPA 8260D	ND		µg/kg	107	1	08/14/25 01:45	08/11/25 17:00
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	35.6	1	08/14/25 01:45	08/11/25 17:00
Surr: 1,2-Dichloroethane-d4	EPA 8260D	101		%REC	80-120	1	08/14/25 01:45	08/11/25 17:00
Surr: 4-Bromofluorobenzene	EPA 8260D	95.4		%REC	80-120	1	08/14/25 01:45	08/11/25 17:00
Surr: Dibromofluoromethane	EPA 8260D	86.5		%REC	80-120	1	08/14/25 01:45	08/11/25 17:00
Surr: Toluene-d8	EPA 8260D	104		%REC	80-120	1	08/14/25 01:45	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6) **Lab ID: HN2511165-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.4		%	0.1	1	08/12/25 13:29	NA
Chloride	EPA 9056A	ND		mg/kg	11.6	1	08/11/25 20:39	08/11/25 15:39
Metals								
Arsenic	EPA 6020B	4.97		mg/kg	0.313	1	08/15/25 00:08	08/13/25 08:35
Barium	EPA 6020B	97.4		mg/kg	0.313	1	08/15/25 00:08	08/13/25 08:35
Cadmium	EPA 6020B	2.54		mg/kg	0.125	1	08/15/25 00:08	08/13/25 08:35
Chromium	EPA 6020B	15.3		mg/kg	3.13	10	08/15/25 15:01	08/13/25 08:35
Copper	EPA 6020B	30.4		mg/kg	3.13	10	08/15/25 15:01	08/13/25 08:35
Lead	EPA 6020B	83.9		mg/kg	0.313	1	08/15/25 00:08	08/13/25 08:35
Selenium	EPA 6020B	ND		mg/kg	0.313	1	08/15/25 00:08	08/13/25 08:35
Silver	EPA 6020B	ND		mg/kg	0.313	1	08/15/25 00:08	08/13/25 08:35
Zinc	EPA 6020B	464		mg/kg	6.27	10	08/15/25 15:01	08/13/25 08:35
Mercury	EPA 7471B	0.0460		mg/kg	0.0200	1	08/14/25 09:00	08/14/25 07:47
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
4,4'-DDE	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
4,4'-DDT	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Aldrin	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
alpha-BHC	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
beta-BHC	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Chlordane, Technical	EPA 8081B	ND		µg/kg	53.6	1	08/20/25 22:23	08/18/25 15:24
cis-Chlordane	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
delta-BHC	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Dieldrin	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endosulfan I	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endosulfan II	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endosulfan sulfate	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endrin	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endrin aldehyde	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Endrin ketone	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
gamma-BHC (Lindane)	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6)	Lab ID: HN2511165-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Heptachlor	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Heptachlor epoxide	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Methoxychlor	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
Toxaphene	EPA 8081B	ND		µg/kg	129	1	08/20/25 22:23	08/18/25 15:24
trans-Chlordane	EPA 8081B	ND		µg/kg	21.4	1	08/20/25 22:23	08/18/25 15:24
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	110		%REC	53-151	1	08/20/25 22:23	08/18/25 15:24
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	125		%REC	67-127	1	08/20/25 22:23	08/18/25 15:24

Semivolatile Organic Compounds by GC								
Aroclor 1016	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1221	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1232	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1242	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1248	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1254	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1260	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1262	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Aroclor 1268	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
Total PCB	EPA 8082A	ND		µg/kg	143	1	08/19/25 00:41	08/18/25 13:21
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8082A</i>	73.2		%REC	54-146	1	08/19/25 00:41	08/18/25 13:21
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8082A</i>	111		%REC	58-140	1	08/19/25 00:41	08/18/25 13:21
2,4,5-T	EPA 8151A	ND	S	µg/kg	5.93	1	08/21/25 12:40	08/19/25 12:30
2,4,5-TP (Silvex)	EPA 8151A	ND	S	µg/kg	5.93	1	08/21/25 12:40	08/19/25 12:30
2,4-D	EPA 8151A	ND	S	µg/kg	11.9	1	08/21/25 12:40	08/19/25 12:30
<i>Surr: DCAA</i>	<i>EPA 8151A</i>	56.0		%REC	10-116	1	08/21/25 12:40	08/19/25 12:30

Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
1,2,4,5-Tetrachlorobenzene	EPA 8270E	ND		µg/kg	388	1	08/18/25 19:17	08/16/25 14:13
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
1-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6) **Lab ID: HN2511165-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,3,4,6-Tetrachlorophenol	EPA 8270E	ND		µg/kg	77.7	1	08/18/25 19:17	08/16/25 14:13
2,4,5-Trichlorophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2,4,6-Trichlorophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2,4-Dichlorophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2,4-Dimethylphenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2,4-Dinitrophenol	EPA 8270E	ND		µg/kg	388	1	08/18/25 19:17	08/16/25 14:13
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2-Chloronaphthalene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
2-Chlorophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2-Methylnaphthalene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
2-Methylphenol (o-Cresol)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2-Nitroaniline	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
2-Nitrophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
3&4-Methylphenol	EPA 8270E	57.5		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
3,3'-Dichlorobenzidine	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
3-Nitroaniline	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
4-Chloro-3-methylphenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
4-Chloroaniline	EPA 8270E	ND		µg/kg	77.7	1	08/18/25 19:17	08/16/25 14:13
4-Chlorophenyl phenylether	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
4-Nitroaniline	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
4-Nitrophenol	EPA 8270E	ND		µg/kg	388	1	08/18/25 19:17	08/16/25 14:13
Acenaphthene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Acenaphthylene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Acetophenone	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Anthracene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Atrazine	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Benzaldehyde	EPA 8270E	ND		µg/kg	77.7	1	08/18/25 19:17	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6)	Lab ID: HN2511165-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Benzo(a)anthracene	EPA 8270E	29.5		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Benzo(a)pyrene	EPA 8270E	24.9		µg/kg	7.77	1	08/19/25 23:24	08/16/25 14:13
Benzo(b)fluoranthene	EPA 8270E	34.2		µg/kg	7.77	1	08/19/25 23:24	08/16/25 14:13
Benzo(g,h,i)perylene	EPA 8270E	17.1		µg/kg	7.77	1	08/19/25 23:24	08/16/25 14:13
Benzo(k)fluoranthene	EPA 8270E	17.1		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
bis(2-Chloroethoxy) methane	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
bis(2-Chloroethyl) ether	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Butyl benzyl phthalate	EPA 8270E	ND		µg/kg	77.7	1	08/18/25 19:17	08/16/25 14:13
Caprolactam	EPA 8270E	44.3		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Carbazole	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Chrysene	EPA 8270E	26.4		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	38.8		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Dibenz(a,h) anthracene	EPA 8270E	ND		µg/kg	38.5	1	08/19/25 23:24	08/16/25 14:13
Dibenzofuran	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Diethyl phthalate	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Dimethyl phthalate	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Di-n-butyl phthalate	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Di-n-octyl phthalate	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Fluoranthene	EPA 8270E	61.4		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Fluorene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Hexachlorobenzene	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Hexachlorobutadiene	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Hexachlorocyclopentadiene	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Hexachloroethane	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Indeno(1,2,3-cd) pyrene	EPA 8270E	17.9		µg/kg	7.77	1	08/19/25 23:24	08/16/25 14:13
Isophorone	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
Methylphenol, Total	EPA 8270E	ND		µg/kg	67.0	1	08/18/25 19:17	08/16/25 14:13
Naphthalene	EPA 8270E	ND		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Nitrobenzene	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
n-Nitrosodi-n-propylamine	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
N-Nitrosodiphenylamine	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6) **Lab ID: HN2511165-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Pentachlorophenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Phenanthrene	EPA 8270E	24.9		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Phenol	EPA 8270E	ND		µg/kg	38.5	1	08/18/25 19:17	08/16/25 14:13
Pyrene	EPA 8270E	50.5		µg/kg	7.77	1	08/18/25 19:17	08/16/25 14:13
Pyridine	EPA 8270E	ND		µg/kg	194	1	08/18/25 19:17	08/16/25 14:13
Surr: 2,4,6-Tribromophenol	EPA 8270E	71.9		%REC	48-94	1	08/18/25 19:17	08/16/25 14:13
Surr: 2-Fluorobiphenyl	EPA 8270E	69.0		%REC	50-103	1	08/18/25 19:17	08/16/25 14:13
Surr: 2-Fluorophenol	EPA 8270E	80.8		%REC	43-105	1	08/18/25 19:17	08/16/25 14:13
Surr: 4-Terphenyl-d14	EPA 8270E	67.7		%REC	55-111	1	08/18/25 19:17	08/16/25 14:13
Surr: Nitrobenzene-d5	EPA 8270E	69.3		%REC	47-100	1	08/18/25 19:17	08/16/25 14:13
Surr: Phenol-d6	EPA 8270E	81.1		%REC	49-110	1	08/18/25 19:17	08/16/25 14:13

Volatile Organic Compounds by GC-MS

1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 02:01	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6)	Lab ID: HN2511165-003
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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	37.8	1	08/14/25 02:01	08/11/25 17:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	252	1	08/14/25 02:01	08/11/25 17:00
2-Hexanone	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Acetone	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Benzene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Bromochloromethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Bromodichloromethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Bromoform	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Carbon disulfide	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Carbon tetrachloride	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Chlorobenzene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Chlorodibromomethane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Chloroform	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 02:01	08/11/25 17:00
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Cyclohexane	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Ethylbenzene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Isopropylbenzene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
m+p-Xylene	EPA 8260D	ND		µg/kg	75.5	1	08/14/25 02:01	08/11/25 17:00
Methyl acetate	EPA 8260D	ND		µg/kg	315	1	08/14/25 02:01	08/11/25 17:00
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	126	1	08/14/25 02:01	08/11/25 17:00
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Methylcyclohexane	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	315	1	08/14/25 02:01	08/11/25 17:00

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID

Work Order: HN2511165
Date Collected: 08/07/25 15:00
Date Received: 08/09/25 08:00

CLIENT ID: 3946 SB03 (5-6) **Lab ID: HN2511165-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
o-Xylene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Styrene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Toluene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Total Xylene	EPA 8260D	ND		µg/kg	113	1	08/14/25 02:01	08/11/25 17:00
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	37.8	1	08/14/25 02:01	08/11/25 17:00
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	97.1		%REC	80-120	1	08/14/25 02:01	08/11/25 17:00
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	08/14/25 02:01	08/11/25 17:00
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	86.0		%REC	80-120	1	08/14/25 02:01	08/11/25 17:00
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	08/14/25 02:01	08/11/25 17:00



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2153695

Work Order: HN2511165
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: HN2511165-001, HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2154810

Work Order: HN2511165
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			

The following samples were analyzed in this batch: HN2511165-001, HN2511165-002, HN2511165-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2154842

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3393374

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2154842-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/13/25 08:58
Prep Date: 08/12/25 15:09

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-2154842-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/13/25 08:59
Prep Date: 08/12/25 15:09

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.160	mg/kg	0.0200	0.1665		96.1	80-120			

The following samples were analyzed in this batch: HN2511165-001

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3397219

MB	CLIENT ID: Method Blank	Lab ID: QC-2157029-001
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Prep Date: 08/13/25 08:36

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2157029-002
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Prep Date: 08/13/25 08:36

The following samples were analyzed in this batch: HN2511165-001, HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2157029

Work Order: HN2511165
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: HN2511165-001, HN2511165-002, HN2511165-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2157131

Work Order: HN2511165
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: HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2166097

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3422193

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2166097-001
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/20/25 19:21**Prep Date:** 08/18/25 15:25

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	36.0	µg/kg		33.33		108	53-151			
Surr: Tetrachloro-m-xylene	35.5	µg/kg		33.33		106	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166097-002
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Method: EPA 8081B**Dilution:** 1**Analysis Date:** 08/20/25 19:35**Prep Date:** 08/18/25 15:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	36.0	µg/kg	10.0	33.33		108	55-141			
4,4'-DDE	35.2	µg/kg	10.0	33.33		106	55-143			
4,4'-DDT	36.7	µg/kg	10.0	33.33		110	50-144			
Aldrin	39.5	µg/kg	10.0	33.33		118	57-141			
alpha-BHC	39.1	µg/kg	10.0	33.33		117	58-144			
beta-BHC	38.4	µg/kg	10.0	33.33		115	55-147			
cis-Chlordane	37.2	µg/kg	10.0	33.33		112	58-142			
delta-BHC	36.2	µg/kg	10.0	33.33		108	59-142			
Dieldrin	37.7	µg/kg	10.0	33.33		113	59-142			
Endosulfan I	37.6	µg/kg	10.0	33.33		113	57-145			
Endosulfan II	37.2	µg/kg	10.0	33.33		112	58-138			
Endosulfan sulfate	36.2	µg/kg	10.0	33.33		109	54-136			
Endrin	36.8	µg/kg	10.0	33.33		110	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2166097

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3422193

LCS		CLIENT ID: Laboratory Control Sample				Lab ID: QC-2166097-002			
Method: EPA 8081B		Dilution: 1		Analysis Date: 08/20/25 19:35		Prep Date: 08/18/25 15:25			
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit Qual
Endrin aldehyde	40.0	µg/kg	10.0	33.33		120	41-147		
Endrin ketone	36.4	µg/kg	10.0	33.33		109	54-146		
gamma-BHC (Lindane)	38.0	µg/kg	10.0	33.33		114	58-145		
Heptachlor	36.5	µg/kg	10.0	33.33		110	51-145		
Heptachlor epoxide	37.1	µg/kg	10.0	33.33		111	59-143		
Methoxychlor	34.6	µg/kg	10.0	33.33		104	43-144		
trans-Chlordane	37.5	µg/kg	10.0	33.33		112	56-145		
Surr: Decachlorobiphenyl	36.0	µg/kg		33.33		108	51-151		
Surr: Tetrachloro-m-xylene	36.2	µg/kg		33.33		109	67-127		
The following samples were analyzed in this batch: HN2511165-001, HN2511165-002, HN2511165-003									



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2166112

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3418329

Semivolatile Organic Compounds by GC

MB	CLIENT ID: Method Blank	Lab ID: QC-2166112-001
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Method: EPA 8082A

Dilution: 1

Analysis Date: 08/20/25 05:27

Prep Date: 08/18/25 13:22

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	44.9	µg/kg		33.3		135	54-146			
Surr: Tetrachloro-m-xylene	39.0	µg/kg		33.3		117	58-140			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166112-002
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Method: EPA 8082A

Dilution: 1

Analysis Date: 08/20/25 05:39

Prep Date: 08/18/25 13:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Aroclor 1016	1130	µg/kg	66.7	833		136	71-135			S
Aroclor 1260	1120	µg/kg	66.7	833		134	67-135			
Surr: Decachlorobiphenyl	49.0	µg/kg		33.3		147	54-146			S
Surr: Tetrachloro-m-xylene	40.3	µg/kg		33.3		121	58-140			

The following samples were analyzed in this batch: HN2511165-001, HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2168251

Work Order: HN2511165
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: HN2511165-001, HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511165
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: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511165
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: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511165
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
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: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2164238

Work Order: HN2511165
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: HN2511165-001, HN2511165-002, HN2511165-003



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2153840

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3398752

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2153840-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 12:44

Prep Date: 08/11/25 17:01

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: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2153840

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3398752

MB	CLIENT ID: Method Blank	Lab ID: QC-2153840-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 12:44

Prep Date: 08/11/25 17:01

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 (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	971	µg/kg		1000		97.1	80-120			
Surr: 4-Bromofluorobenzene	907	µg/kg		1000		90.7	80-120			
Surr: Dibromofluoromethane	896	µg/kg		1000		89.6	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153840-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 11:55

Prep Date: 08/11/25 17:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	809	µg/kg	30.0	1000		80.9	75-121			
1,1,2,2-Tetrachloroethane	904	µg/kg	30.0	1000		90.4	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	846	µg/kg	30.0	1000		84.6	62-129			
1,1,2-Trichloroethane	926	µg/kg	30.0	1000		92.6	80-123			
1,1-Dichloroethane	874	µg/kg	30.0	1000		87.4	74-124			
1,1-Dichloroethylene	870	µg/kg	30.0	1000		87.0	68-131			
1,2,3-Trichlorobenzene	852	µg/kg	100	1000		85.2	60-135			
1,2,3-Trichloropropane	822	µg/kg	30.0	1000		82.2	77-121			
1,2,4-Trichlorobenzene	818	µg/kg	100	1000		81.8	63-130			
1,2,4-Trimethylbenzene	922	µg/kg	30.0	1000		92.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	790	µg/kg	100	1000		79.0	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	870	µg/kg	30.0	1000		87.0	63-155			



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2153840

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3398752

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153840-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 11:55

Prep Date: 08/11/25 17:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	860	µg/kg	30.0	1000		86.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	881	µg/kg	100	1000		88.1	70-130			
1,2-Dichloropropane	892	µg/kg	30.0	1000		89.2	71-130			
1,3,5-Trimethylbenzene	904	µg/kg	100	1000		90.4	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	886	µg/kg	30.0	1000		88.6	78-121			
1,3-Dichloropropene	1860	µg/kg	60.0	2000		93.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	892	µg/kg	30.0	1000		89.2	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	884	µg/kg	200	1000		88.4	47-164			
2-Hexanone	1040	µg/kg	30.0	1000		104	70-137			
4-Methyl-2-pentanone (MIBK)	1450	µg/kg	30.0	1000		145	57-200			
Acetone	1020	µg/kg	100	1000		102	52-190			
Benzene	944	µg/kg	30.0	1000		94.4	78-122			
Bromochloromethane	858	µg/kg	30.0	1000		85.8	68-130			
Bromodichloromethane	942	µg/kg	30.0	1000		94.2	75-125			
Bromoform	1020	µg/kg	30.0	1000		102	59-120			
Carbon disulfide	971	µg/kg	30.0	1000		97.1	60-163			
Carbon tetrachloride	828	µg/kg	30.0	1000		82.8	69-123			
Chlorobenzene	898	µg/kg	30.0	1000		89.8	79-120			
Chlorodibromomethane	871	µg/kg	30.0	1000		87.1	57-123			
Chloroethane (Ethyl chloride)	863	µg/kg	100	1000		86.3	38-132			
Chloroform	840	µg/kg	30.0	1000		84.0	72-122			
cis & trans-1,2-Dichloroethene	1690	µg/kg	60.0	2000		84.4	72-127			
cis-1,2-Dichloroethylene	847	µg/kg	30.0	1000		84.7	74-125			
cis-1,3-Dichloropropene	992	µg/kg	30.0	1000		99.2	62-124			
Dichlorodifluoromethane (Freon-12)	865	µg/kg	100	1000		86.5	28-137			
Ethylbenzene	898	µg/kg	30.0	1000		89.8	75-121			
Isopropylbenzene	888	µg/kg	30.0	1000		88.8	74-121			
m+p-Xylene	1790	µg/kg	60.0	2000		89.4	67-129			
Methyl acetate	699	µg/kg	250	1000		69.9	61-125			
Methyl bromide (Bromomethane)	864	µg/kg	100	1000		86.4	31-169			
Methyl chloride (Chloromethane)	922	µg/kg	100	1000		92.2	24-119			
Methyl tert-butyl ether (MTBE)	912	µg/kg	30.0	1000		91.2	79-139			
Methylene chloride (Dichloromethane)	834	µg/kg	250	1000		83.4	62-135			
o-Xylene	905	µg/kg	30.0	1000		90.5	75-120			
Styrene	954	µg/kg	30.0	1000		95.4	74-126			
Tetrachloroethylene (Perchloroethylene)	906	µg/kg	30.0	1000		90.6	76-128			
Toluene	895	µg/kg	30.0	1000		89.5	76-120			
Total Xylene	2690	µg/kg	90.0	3000		89.8	67-129			
trans-1,2-Dichloroethylene	840	µg/kg	30.0	1000		84.0	72-127			
trans-1,3-Dichloropropylene	869	µg/kg	30.0	1000		86.9	66-120			
Trichloroethene (Trichloroethylene)	874	µg/kg	30.0	1000		87.4	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 3946 Lemay
Matrix: SOIL/SOLID
QC Lot: 2153840

Work Order: HN2511165
Date Collected: NA
Date Received: NA
Run ID: 3398752

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2153840-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/13/25 11:55

Prep Date: 08/11/25 17:01

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	682	µg/kg	30.0	1000		68.2	51-115			
Vinyl chloride (Chloroethene)	876	µg/kg	30.0	1000		87.6	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	1020	<i>µg/kg</i>		1000		102	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	966	<i>µg/kg</i>		1000		96.6	80-120			
<i>Surr: Dibromofluoromethane</i>	1080	<i>µg/kg</i>		1000		108	80-120			
<i>Surr: Toluene-d8</i>	984	<i>µg/kg</i>		1000		98.4	80-120			

The following samples were analyzed in this batch: HN2511165-001, HN2511165-002, HN2511165-003



right solutions.
right partner.

October 22, 2025

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

Re: **DETR0060**

Date Received: **10/14/2025**

Work Order: **HN2515193**

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: HN2515193
Date Received: 14-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 14-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 SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Workorder: HN2515193

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515193-001	3946 Lemay SB02 TCLP	SOIL/SOLID	10/13/25 13:44	10/14/25 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: HN2515193
Date Collected: 10/13/25 13:44
Date Received: 10/14/25 07:00

CLIENT ID: 3946 Lemay SB02 TCLP	Lab ID: HN2515193-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 21:22	10/17/25 11:56



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281438

Work Order: HN2515193
Date Collected: NA
Date Received: NA
Run ID: 3599113

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2281438-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:08
Prep Date: 10/17/25 11:57

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2281438-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 21:10
Prep Date: 10/17/25 11:57

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chromium	1.03	mg/L	0.0499	1		103	80-120			

The following samples were analyzed in this batch: HN2515193-001

ANALYST SUMMARY



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

Work Order: HN2515193

Sample Name: 3946 Lemay SB02 TCLP
Laboratory Code: HN2515193-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/13/25
Date Received: 10/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2281438	Chloe Patrick	3599113	Hunter Johnson



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	3946 Lemay	A	TCLP Chromium									
Work Order	Quote ID - 11631	Project Number	DETR0060	B										
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C										
Send Report To	Ryan Montri	Invoice Attn.		D										
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E										
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F										
Phone	734-397-3100	Phone	734-397-3100	G										
Fax		Fax		H										
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I										
				J										
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold		
1	3946 Lemay SBC2 TCLP	10/13/25	13:44	Soil		2	X							
2														
3														
4														
5														
6														
7														
8														
9														
10														
Sampler(s): Please Print & Sign Shannon Haggerty Mann		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:						
Relinquished by: Shannon Haggerty		Date: 10/13/25	Time: 15:47	Received by: Brett Haggerty			Notes:							
Relinquished by: QS		Date: 10/14/25	Time: 07:00	Received by (Laboratory): Brett Haggerty 10/14/25 07:00			Cooler Temp. 127 37C							
Logged by (Laboratory): BH		Date: 10/14/25	Time: 09:52	Checked by (Laboratory):			QC Package: (Check Box Below) ☐ Level II: Standard QC ☐ TRRP-Checklist ☐ Level III: Std QC + Raw Data ☐ TRRP Level IV ☐ Level IV: SW846 CLP-Like							
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							Other:							

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:

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

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ALS Holland Sample Receiving Checklist

Received by: B. H. H. H.

Date/Time: 10/14/25 0700

Carrier Name: GS

Shipping container/cooler in good condition? (Yes) / No / Not Present

Custody seals intact on shipping container/cooler? Yes / No / ~~Not Present~~

Custody seals intact on sample bottles? Yes / No / ~~Not Present~~

Chain of Custody present? (Yes) / No

COC signed when relinquished and received? (Yes) / No

COC agrees with sample labels? (Yes) / No

Samples in proper container/bottle? (Yes) / No

Sample containers intact? (Yes) / No

Sufficient sample volume for indicated test? (Yes) / No

All samples received within holding time? (Yes) / No

Container/Temp Blank temperature in compliance? (Yes) / No

Temperature(s) (°C): 3.7 13.7 c

Thermometer(s): IR7

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

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/14/25 0952

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: