

DRAFT

FILL MATERIAL SAMPLING REPORT

**8070 WISNER AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48234**



**NOVEMBER 11, 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

**8070 WISNER
DETROIT, WAYNE COUNTY, MICHIGAN 48234**

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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 8070 Wisner Avenue, 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); semivolatile 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 8070 SB01, 8070 SB02, and 8070 SB03 generally consisted of four and a half to five feet of brown to dark brown sand and clayey sand with little gravel underlain by 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 0.1 to 19.9 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in each soil boring.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 8070 SB02 (3-4') and/or 8070 SB03 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC), and/or direct contact criteria (DCC).
- Concentrations of 1,2,4-trimethylbenzene, 2-methylnaphthalene, 4,4-DDD, 4,4-DDE, 4,4-DDT, acetone, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, chloride, copper, dieldrin, fluoranthene, lead, mercury, pyrene, chlordane, and zinc were detected in soil samples 8070 SB01 (1-2'), 8070 SB02 (3-4'), 8070 SB03 (5-6'), and/or 8070 Wisner SB02 (3-4')-R at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic and 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*.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the drinking water (DW) exposure pathway can be considered not applicable.

Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of DCC may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 8070 Wisner Avenue, 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 14, 2025, October 7, 2025, and October 28, 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 direct push drill rig at the locations depicted on *Figure 2*.
- Collected one (1) discrete soil sample for laboratory analysis from each soil boring at a depth of 1-2 feet bgs, 3-4 feet bgs, or 5-6 feet bgs, depending on the soil boring.
- Submitted soil samples to an independent analytical laboratory for chemical analysis.
- Prepared this report summarizing the activities and results of this work.

Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, sample analyses included volatile organic compounds (VOCs); semivolatile 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 14, 2025, October 7, 2025, and October 28, 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) initial soil borings, designated 8070 SB01, 8070 SB02, and 8070 SB03, using a direct push drill rig at the locations depicted on Figure 2. Photographs collected during completion of this work are provided in *Appendix C, Investigation Photographs*.

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

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

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

3.3 Toxicity Characteristic Leaching Procedure (TCLP) Soil Sample Collection

On October 7, 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 using 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.

On October 28, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD in order to fulfill waste characterization parameters required at a Type II landfill. Sample location and analyte(s) were based on the laboratory results of the initial soil sampling event, as 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. Soils were continuously profiled at the supplemental soil boring locations from the ground surface to the termination depth using a 5-foot long, closed-piston Macro-Core® sampling device. When warranted, a new disposable high-density polyethylene (HDPE) liner was placed within the sampler between each 5-foot sample interval. The recovered soil samples were examined and logged in the field by the MSG field geologist.

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 four (4) soil samples, designated 8070 SB01 (1-2'), 8070 SB02 (3-4'), 8070 SB03 (5-6'), and 8070 Wisner SB02 (3-4')-R, and one (1) composite soil sample designated 8070 Wisner 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 14, 2025, October 7, 2025, and October 28, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 8070 SB01, 8070 SB02, and 8070 SB03 generally consisted of four and a half to five feet of brown to dark brown sand and clayey sand with little gravel underlain by brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 19.9 ppm. There were no visual (staining) and/or

olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, concrete debris was observed in each soil boring.

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

4.2 Soil Sample Analytical Results

A total of four (4) soil samples, designated 8070 SB01 (1-2'), 8070 SB02 (3-4'), 8070 SB03 (5-6'), and 8070 Wisner SB02 (3-4')-R, were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and/or pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration ($\mu\text{g}/\text{kg}^1$)	Maximum Detected Concentration ($\mu\text{g}/\text{kg}$)
Arsenic	7440-38-2	8070 SB02 (3-4') 8070 SB03 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	16,700
Chromium (Total)	7440-47-3	8070 SB02 (3-4') 8070 SB03 (5-6')	GSIPC / 3,300	24,500

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

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

⁴DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

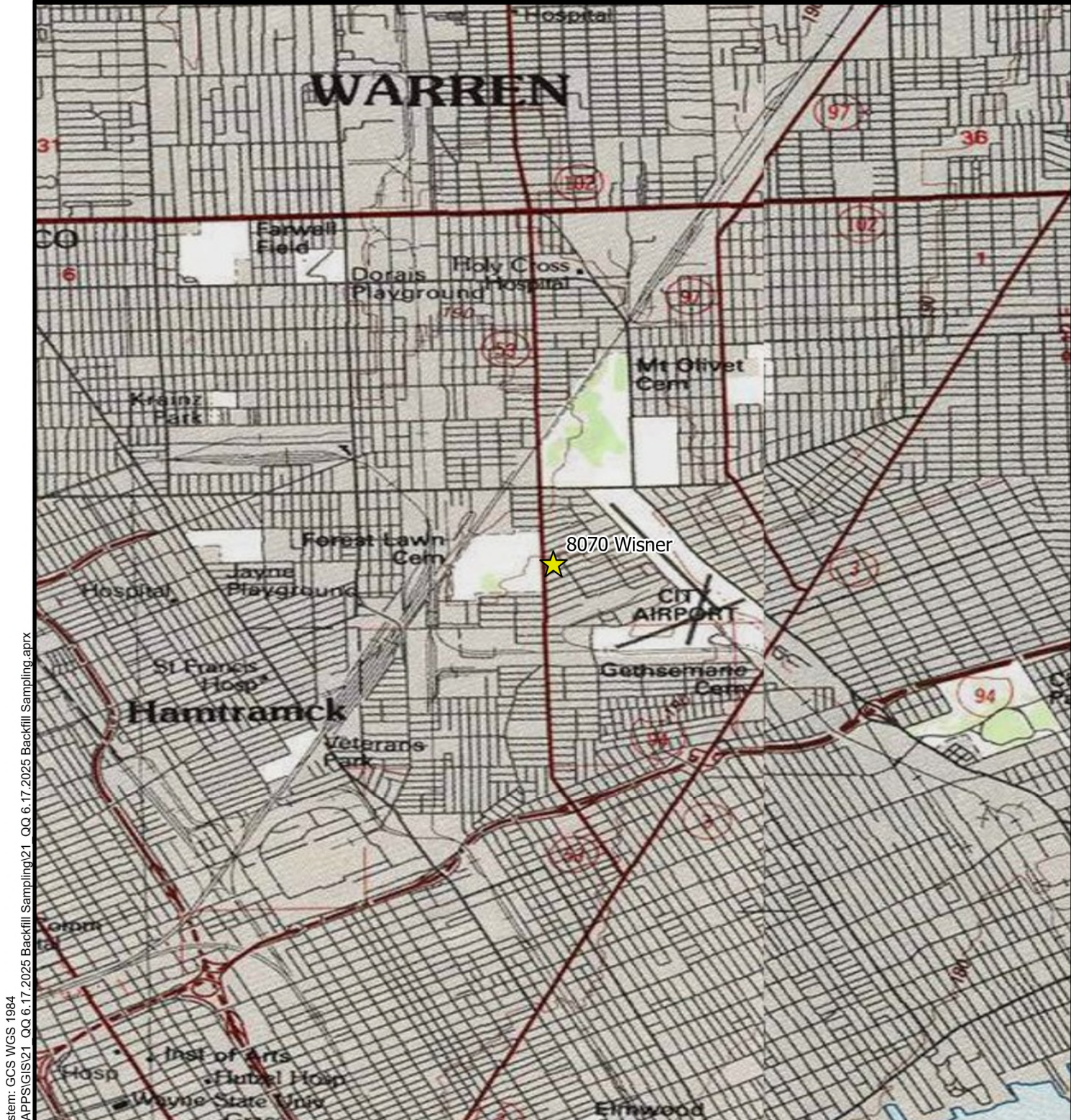
- The stratigraphy encountered during soil boring advancement of 8070 SB01, 8070 SB02, and 8070 SB03 generally consisted of four and a half to five feet of brown to dark brown sand and clayey sand with little gravel underlain by brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.1 to 19.9 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete debris was observed in each soil boring.
- Concentrations of arsenic and chromium (Total) were detected in soil samples 8070 SB02 (3-4') and/or 8070 SB03 (5-6') in excess of their respective Part 201 DWPC, GSIPC, and/or DCC.
- Concentrations of 1,2,4-trimethylbenzene, 2-methylnaphthalene, 4,4-DDD, 4,4-DDE, 4,4-DDT, acetone, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, chloride, copper, dieldrin, fluoranthene, lead, mercury, pyrene, chlordane, and zinc were detected in soil samples 8070 SB01 (1-2'), 8070 SB02 (3-4'), 8070 SB03 (5-6'), and/or 8070 Wisner SB02 (3-4')-R at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic and 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.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration. Therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of DCC may merit further consideration.

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

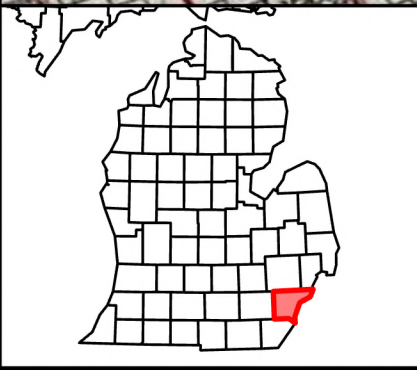
MSG warrants that no substantive information or documentation was deleted, omitted, or changed that would otherwise cause the MSG to reach a different conclusion. Furthermore, MSG understands that the COD and its agencies and authorities may rely upon the overall completeness, accuracy, and conclusions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

FIGURES





Date Saved: 9/22/2025 8:38 PM Coordinate System: GCS WGS 1984
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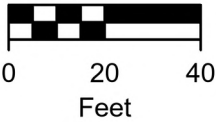
★ Site Location



FIGURE 1
 SITE LOCATION

8070 Wisner, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DET0060
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- Sample Locations
- Parcels (Current)
- Subject Property

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



FIGURE 2
Site Layout

8070 Wisner, 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

Detroit Backfill Sampling
8070 Wisner, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg	Volatile Organic Compounds (VOCs)		Semivolatile Organic Compounds (SVOCs)						Michigan 10 Metals										Pesticides/Herbicides							Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions			
	Acetone	1,2,4-Trimethylbenzene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Fluoranthene	Pyrene	Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	alpha-Chlordane	gamma-Chlordane	Chlordane		Chloride			
CAS Number	67-64-1	95-63-6	91-57-6	56-55-3	205-99-2	50-32-8	206-44-0	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	72548	72559	50-29-3	60-57-1	NA	NA	57-74-9	16887006				
Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA	NA	NA	NA	NA	NA				
Drinking Water Protection Criteria (DWPC)	15,000	2,100	57,000	NLL	NLL	NLL	7.3E+05	4.8E+05	4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL	NLL	NLL	NLL	NA	NA	NLL	5.00E+06				
Groundwater Surface Water Interface Protection Criteria (GSIIPC)	34,000	570	4,200	NLL	NLL	NLL	5,500	ID	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL	NLL	NA	NA	NLL	(X)				
Soil Volatilization to Indoor Air Inhalation (SVIIC)	2.9E+8 (C)	4.3E+6 (C)	2,700,000	NLV	ID	NLV	1.0E+09 (D)	1.0E+09 (D)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV	1.40E+05	NA	NA	1.10E+07	NLV				
Soil Volatilization to Indoor Air Pathway (SVIAP)	2.6E+05 (EE)	150 (JT)	NA	1.6E+05 (MM)	NA	NA	NA	2.5E+07	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NA	--	770	NA	NA	13,000	--				
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	1.3E+08	2.1E+07	1,500,000	NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	19000	NA	NA	1.20E+06	NLV				
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	1.3E+08	5.0E+08	1,500,000	NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	1900	NA	NA	1.20E+06	NLV				
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	1.9E+08	5.0E+08	1,500,000	NLV	ID	NLV	7.4E+08	6.5E+08	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV	19000	NA	NA	1.20E+06	NLV				
Particulate Soil Inhalation Criteria (PSIC)	3.9E+11	8.2E+10	6.7E+08	ID	ID	1.5E+06	9.3E+09	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	4.4E+07	3.20E+07	3.20E+07	6.8E+05	NA	NA	3.1E+07	ID				
Direct Contact Criteria (DCC)	2.3E+07	3.2E+07 (C)	8,100,000	20,000	20,000	2,000	4.6E+07	2.9E+07	7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	95,000	45,000	57,000	1,100	NA	NA	31,000	5.0E+5 (F)				
Soil Saturation Concentration Screening Levels (C _{sat})	1.1E+08	1.1E+05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Recommended Interim Action Screening Level (RIASL)	2.6E+05	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	--				
SAMPLE ID	DEPTH	SAMPLE DATE																												
8070 SB01	1-2	8/14/2025	<127	<38	<3,700	<3,700	<3,700	<3,700	<3,700	<3,700	<3,700	3,910	35,600	<1,140	10,500	12,500	28,400	43	<2,860	<2,860	42,500	4.5	24	9.6	<1.9	3.0	2.7	5.7	ND	45,500
8070 SB02	3-4	8/14/2025	630	110	<3,900	<3,900	<3,900	<3,900	<3,900	<3,900	<3,900	16,700	24,100	<1,320	24,500	6,550	25,000	121	<3,330	<3,330	33,800	9.1	33	4.3	2.4	<2.0	<2.0	<9.7	ND	67,800
8070 SB03	5-6	8/14/2025	<146	<43.8	<2,300	<2,300	<2,300	<2,300	<2,300	<2,300	<2,300	9,660	81,700	<1,280	20,200	15,000	49,400	55.3	<3,210	<3,210	97,800	5.4	15	3.6	<2.1	<2.1	<2.1	<10	ND	18,600
8070 Wisner SB02 - R	3-4	10/28/2025	NS	NS	209	244	244	244	209	435	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIIPC, 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 EGGLE 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
8070 Wisner, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Chromium	Arsenic
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
8070 Wisner SB02 TCLP	10/7/2025	<0.0499	<0.0499

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: 08/14/2025	Day: Thursday	Temp: 70 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, BM		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)

Personnel: MSG**MSG Hours On-Site:** ~ 1 hours**Contractors Information**

Contractor:

MSG

No. Men and Type:

2; Operator/Geologist

Equipment Type:

Geoprobe 7822DT

Summary of Work Performed:

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

Field Notes:

- 0940 – SRK and BM onsite (8070 Wisner Avenue)
- 0942 – Unloaded equipment and marked boring locations
- 0949 – Began drilling SB01
- 0951 – Finished drilling SB01
- 0953 – Began drilling SB02
- 0955 – Finished drilling SB02
- 0957 – Began drilling SB03
- 0957 – Sampled 8070 SB01 (1-2')
- 0959 – Finished drilling SB03
- 1013 – Sampled 8070 SB02 (3-4')
- 1026 – Sampled 8070 SB03 (5-6')
- 1030 – Packed up equipment
- 1038 – MSG off site

Supporting Documentation

Photograph Taken	Yes ☒	No ☐	Samples Collected	Yes ☒	No ☐	Boring/MW Logs	Yes ☒	No ☐
Photo Log Attached	☒	☐	COC Attached	☒	☐	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.: 1
Job No.: DETR0060

Date: 10/7/2025	Day: Tuesday	Temp: N/A (AM) 60 ° F (PM)
MSG Personnel: SRK, JF, EB	Cloud Cover: N/A (AM) 100% (PM)	Precip.: N/A (AM) Scattered Showers (PM)
Personnel: MSG		
MSG Hours On-Site: ~ 1 hours		
Contractors Information		
Contractor: MSG	No. Men and Type: 3; 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:		
1417 – MSG (SRK, JF) onsite (8070 Wisner) 1420 – Attempted to locate previous boring locations. Marked out new boring location. 1428 – Began drilling SB02 TCLP 1430 – Finished drilling SB02 TCLP 1435 – Sampled 8070 Wisner SB02 TCLP 1435 – EB onsite to collect samples 1440 – Collected GPS points 1445 – EB offsite with samples 1450 – Packed up equipment 1455 – 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 ☐								

**DAILY FIELD REPORT****Client:** City of Detroit Demolition Department**Project:** Sampling and Analysis of Fill Material**Report No.:** 3**Job No.:** DETR0060

Date: 10/28/2025	Day: Tuesday	Temp: 53 ° F	(AM)	N/A	(PM)
MSG Personnel: WRD, BSM		Cloud Cover: 0%	(AM)	N/A	(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 4 feet below ground surface (bgs) - Collected soil sample from soil boring (from the interval 3-4' to analyze for SVOCs).					
Field Notes:					
1113 – MSG (WRD, BSM) onsite (8070 Wisner) 1116 – Attempted to locate previous boring locations. Marked out new boring location. 1118 – Began drilling SB02 (3-4')-R 1125 – Finished drilling SB02 (3-4')-R 1128 – Sampled 8070 Wisner SB02 (3-4')-R 1134 – Packed up equipment 1138 – 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: Viewing Site Pre-Drilling, Facing Southeast.



Photo 2: Viewing 8070 SB01 Drilling, Facing East.



Photo 3: Viewing 8070 SB01 Soils, Facing Southeast.



Photo 4: Viewing 8070 SB02 Drilling, Facing East.



Photo 5: Viewing 8070 SB02 Soils, Facing Southeast.



Photo 6: Viewing 8070 SB03 Drilling, Facing East.



Photo 7: Viewing 8070 SB03 Soils, Facing Southeast.



Photo 8: Viewing Site Post-Drilling, Facing Southeast.



Photo 9: View of Site at the time of TCLP soil boring activities.



Photo 10: View of soil recovery at the time of TCLP sampling



Photo 11: View of TCLP soil boring location.



Photo 12: View of Site at the time of supplemental soil sampling activities



Photo 13: Viewing soil recovery at the time of supplemental soil sampling activities



Photo 14: View of supplemental soil sample soil boring location

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	8070 Wisner
PROJECT NUMBER	DETR0060	PROJECT LOCATION	8070 Wisner Ave, Detroit, Michigan
DATE STARTED	8/14/25	COMPLETED	8/14/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
		GROUND WATER ENCOUNTERED DURING DRILLING:	Not Encountered
NOTES		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/18/25 15:17 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8070 WISNER\BORING LOGS\DETR0060_8070.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown to Dark Brown Clayey SAND, some gravel	1.2		Collected soil sample 8070 SB01 (1-2) at 9:57
						2.8		
					Some concrete debris scattered from 2 - 4.5 feet bgs	19.9		
						10.8		
						1.8		
5				5.0	Brown Silty CLAY, trace gravel, trace sand			
				6.0		0.9		
					Bottom of borehole at 6.0 feet.			



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

CLIENT City of DetroitPROJECT NAME 8070 WisnerPROJECT NUMBER DETR0060PROJECT LOCATION 8070 Wisner Ave, Detroit, MichiganDATE STARTED 8/14/25COMPLETED 8/14/25BORING DIAMETER: 3.25 inchesDRILLING CONTRACTOR MSGSURVEY COORDINATES: N/ADRILLING METHOD Direct PushGROUND SURFACE ELEV.: N/ALOGGED BY SRKCHECKED BY PDH▽ GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered

NOTES

▼ WATER LEVEL AFTER DRILLING: N/A

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/18/25 15:17 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8070 WISNER\BORING LOGS\DETR0060_8070.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown to Dark Brown Clayey SAND, trace gravel	0.1		
						6.9		
					Some concrete debris scattered from 2 - 4.5 feet bgs	7.0	X	Collected soil sample 8070 SB02 (3-4) at 10:13
						9.0		
				4.5				
					Brown Silty CLAY, some sand, some gravel	2.6		
5				6.0		1.3		
					Bottom of borehole at 6.0 feet.			



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

BORING ID: SB03

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	8070 Wisner
PROJECT NUMBER	DETR0060	PROJECT LOCATION	8070 Wisner Ave, Detroit, Michigan
DATE STARTED	8/14/25	COMPLETED	8/14/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
		GROUND WATER ENCOUNTERED DURING DRILLING:	Not Encountered
NOTES		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/18/25 15:17 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\8070 WISNER\BORING LOGS\DETR0060_8070.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown SAND, some gravel, little clay	13.2		
						4.1		
					Some concrete debris scattered from 2 - 4.5 feet bgs	2.8		
						5.3		
				4.5				
					Brown Silty CLAY, trace gravel, little sand	4.6		
5				5.8				
				6.0	Concrete debris (Fill)	2.0		
					Bottom of borehole at 6.0 feet.			

Collected soil sample 8070 SB03 (5-6) at 10:26

APPENDIX E
LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511514

Client

The Mannik & Smith Group, Inc.

Project

8070_Wisner

Project Date

August 15, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 11, 2025

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

Work Order: **HN2511514**

Re: **8070_Wisner**

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: 8070_Wisner

Work Order: HN2511514
Date Received: 15-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 15-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.

Metals

EPA 6020B-3050B-S

Run ID: 3418146

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn Batch 2170126

The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Cu Batch 2170126

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Pb, Zn Batch 2170126

HN2511514-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511514-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Organics

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

Run ID: 3431804

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

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

Inorganics

EPA 9056A-S (High)

Run ID: 3408572

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Chloride, Sulfate

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: 8070 SB01 (1-2)	Lab ID: HN2511514-001
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	3.91		2.86	mg/kg	EPA 6020B
Barium	35.6		2.86	mg/kg	EPA 6020B
Chloride	45.5		10.8	mg/kg	EPA 9056A
Chromium	10.5		2.86	mg/kg	EPA 6020B
Copper	12.5		2.86	mg/kg	EPA 6020B
Lead	28.4		2.86	mg/kg	EPA 6020B
Mercury	0.0430		0.0217	mg/kg	EPA 7471B
Percent Moisture	10.8		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	42.5		5.72	mg/kg	EPA 6020B

CLIENT ID: 8070 SB02 (3-4)	Lab ID: HN2511514-002
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	110		40.4	µg/kg	EPA 8260D
Acetone	630		135	µg/kg	EPA 8260D
Arsenic	16.7		3.30	mg/kg	EPA 6020B
Barium	24.1		3.30	mg/kg	EPA 6020B
Chloride	67.8		11.7	mg/kg	EPA 9056A
Chromium	24.5		3.30	mg/kg	EPA 6020B
Copper	6.55		3.30	mg/kg	EPA 6020B
Lead	25.0		3.30	mg/kg	EPA 6020B
Mercury	0.121		0.0209	mg/kg	EPA 7471B
Percent Moisture	14.9		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	33.8		6.61	mg/kg	EPA 6020B

CLIENT ID: 8070 SB03 (5-6)	Lab ID: HN2511514-003
----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	9.66		3.21	mg/kg	EPA 6020B
Barium	81.7		3.21	mg/kg	EPA 6020B
Chloride	18.6		12.0	mg/kg	EPA 9056A
Chromium	20.2		3.21	mg/kg	EPA 6020B
Copper	15.0		3.21	mg/kg	EPA 6020B
Lead	49.4		3.21	mg/kg	EPA 6020B
Mercury	0.0553		0.0220	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: 8070 SB03 (5-6)			Lab ID: HN2511514-003		
Analyte	Results	Flag	MRL	Units	Method
Percent Moisture	18.6		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	97.8		6.42	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Workorder: HN2511514

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511514-001	8070 SB01 (1-2)	SOIL/SOLID	08/14/25 09:57	08/15/25 08:00
HN2511514-002	8070 SB02 (3-4)	SOIL/SOLID	08/14/25 10:13	08/15/25 08:00
HN2511514-003	8070 SB03 (5-6)	SOIL/SOLID	08/14/25 10:26	08/15/25 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	8070_Wisner	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@mannaiksmithgroup.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	8070 SB01 (1-2)	8/14/25	9:57	Soil	7	3	X	X	X	X	X	X	X				
2	8070 SB02 (3-4)	8/14/25	10:13	Soil	7	3	↓	↓	↓	↓	↓	↓	↓				
3	8070 SB03 (5-6)	8/14/25	10:26	Soil	7	3	↓	↓	↓	↓	↓	↓	↓				
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign <i>Shannon Kozmanek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:									
Relinquished by: <i>Shannon Kozmanek</i>		Date: 8/14/25	Time:	Received by: <i>[Signature]</i>			Notes: Quote# HN-061825-M&S-MA										
Relinquished by: <i>[Signature]</i>		Date: 8/14/25	Time: 1700	Received by (Laboratory): <i>[Signature]</i>			Cooler Temp. QC Package: (Check Box Below)										
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):			Level II: Standard QC TRRP-Checklist										
							Level III: Std QC + Raw Data TRRP Level IV										
							Level IV: SW846 CLP-Like										
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							Other: _____										

Environmental Division
Holland
Work Order Reference
HN2511514

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: 8/15/25 08:00

Carrier Name: Q.S.

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 2.4°C

Thermometer(s): IR6

Sample(s) received on ice? Yes / No

Matrix/Matrices: ~~Water~~ BC Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 8/15/25

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: 8070_Wisner

Work Order: HN2511514

Sample Name: 8070 SB01 (1-2) **Date Collected:** 08/14/25
Laboratory Code: HN2511514-001 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2170197		3416403	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2170126	Weston Kotecki	3418146	Hunter Johnson
EPA 7471B	Method	001-AC	2170118	Maxx Richey	3420366	Maxx Richey
EPA 8081B		001-AD			3484512	Bill Carey
EPA 8082A		001-AD			3484512	Bill Carey
EPA 8151A		001-AD			3484512	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2162539	Jonathan Vazquez	3431804	Ali Cook
EPA 8270E		001-AD			3484512	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2165419	Katrina Grassel	3408572	Riley Miller

Sample Name: 8070 SB02 (3-4) **Date Collected:** 08/14/25
Laboratory Code: HN2511514-002 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2170197		3416403	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2170126	Weston Kotecki	3418146	Hunter Johnson
EPA 7471B	Method	002-AC	2170118	Maxx Richey	3420366	Maxx Richey
EPA 8081B		002-AD			3484512	Bill Carey
EPA 8082A		002-AD			3484512	Bill Carey
EPA 8151A		002-AD			3484512	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2162539	Jonathan Vazquez	3431804	Ali Cook
EPA 8270E		002-AD			3484512	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2165419	Katrina Grassel	3408572	Riley Miller

Sample Name: 8070 SB03 (5-6) **Date Collected:** 08/14/25
Laboratory Code: HN2511514-003 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2170197		3416403	Nicole Maleski

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner

Work Order: HN2511514

Sample Name: 8070 SB03 (5-6)
Laboratory Code: HN2511514-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/14/25
Date Received: 08/15/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B Method	003-AC	2170126	Weston Kotecki	3418146	Hunter Johnson
EPA 7471B		003-AC	2170118	Maxx Richey	3420366	Maxx Richey
EPA 8081B		003-AD			3484512	Bill Carey
EPA 8082A		003-AD			3484512	Bill Carey
EPA 8151A	EPA 5035A	003-AD			3484512	Bill Carey
EPA 8260D		003-AA	2162539	Jonathan Vazquez	3431804	Ali Cook
EPA 8270E		003-AD			3484512	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2165419	Katrina Grassel	3408572	Riley Miller

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 09:57
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB01 (1-2)	Lab ID: HN2511514-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	10.8		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	45.5		mg/kg	10.8	1	08/17/25 17:37	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	3.91		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Barium	EPA 6020B	35.6		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Cadmium	EPA 6020B	ND		mg/kg	1.14	10	08/20/25 20:31	08/20/25 09:47
Chromium	EPA 6020B	10.5		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Copper	EPA 6020B	12.5		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Lead	EPA 6020B	28.4		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Selenium	EPA 6020B	ND		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Silver	EPA 6020B	ND		mg/kg	2.86	10	08/20/25 20:31	08/20/25 09:47
Zinc	EPA 6020B	42.5		mg/kg	5.72	10	08/20/25 20:31	08/20/25 09:47
Mercury	EPA 7471B	0.0430		mg/kg	0.0217	1	08/21/25 10:25	08/21/25 08:13
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:45	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 09:57
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB01 (1-2) **Lab ID: HN2511514-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	76.0	1	08/23/25 10:55	08/15/25 13:16
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	253	1	08/23/25 10:55	08/15/25 13:16
2-Hexanone	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Acetone	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Benzene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Bromochloromethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Bromodichloromethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Bromoform	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Carbon disulfide	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Carbon tetrachloride	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Chlorobenzene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Chlorodibromomethane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Chloroform	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	76.0	1	08/23/25 10:55	08/15/25 13:16
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Cyclohexane	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Ethylbenzene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Isopropylbenzene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 09:57
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB01 (1-2)	Lab ID: HN2511514-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	76.0	1	08/23/25 10:55	08/15/25 13:16
Methyl acetate	EPA 8260D	ND		µg/kg	317	1	08/23/25 10:55	08/15/25 13:16
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	127	1	08/23/25 10:55	08/15/25 13:16
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Methylcyclohexane	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	317	1	08/23/25 10:55	08/15/25 13:16
o-Xylene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Styrene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Toluene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Total Xylene	EPA 8260D	ND		µg/kg	114	1	08/23/25 10:55	08/15/25 13:16
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	38.0	1	08/23/25 10:55	08/15/25 13:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	08/23/25 10:55	08/15/25 13:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/23/25 10:55	08/15/25 13:16
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	95.2		%REC	80-120	1	08/23/25 10:55	08/15/25 13:16
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	105		%REC	80-120	1	08/23/25 10:55	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:13
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB02 (3-4)	Lab ID: HN2511514-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	14.9		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	67.8		mg/kg	11.7	1	08/17/25 17:47	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	16.7		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Barium	EPA 6020B	24.1		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Cadmium	EPA 6020B	ND		mg/kg	1.32	10	08/20/25 20:36	08/20/25 09:47
Chromium	EPA 6020B	24.5		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Copper	EPA 6020B	6.55		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Lead	EPA 6020B	25.0		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Selenium	EPA 6020B	ND		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Silver	EPA 6020B	ND		mg/kg	3.30	10	08/20/25 20:36	08/20/25 09:47
Zinc	EPA 6020B	33.8		mg/kg	6.61	10	08/20/25 20:36	08/20/25 09:47
Mercury	EPA 7471B	0.121		mg/kg	0.0209	1	08/21/25 10:27	08/21/25 08:13
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:45	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
1,2,4-Trimethylbenzene	EPA 8260D	110		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:13
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB02 (3-4)	Lab ID: HN2511514-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	80.9	1	08/23/25 11:14	08/15/25 13:16
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	270	1	08/23/25 11:14	08/15/25 13:16
2-Hexanone	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Acetone	EPA 8260D	630		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Benzene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Bromochloromethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Bromoform	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Carbon disulfide	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Chlorobenzene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Chloroform	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	80.9	1	08/23/25 11:14	08/15/25 13:16
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Ethylbenzene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:13
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB02 (3-4)	Lab ID: HN2511514-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	80.9	1	08/23/25 11:14	08/15/25 13:16
Methyl acetate	EPA 8260D	ND		µg/kg	337	1	08/23/25 11:14	08/15/25 13:16
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/23/25 11:14	08/15/25 13:16
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	337	1	08/23/25 11:14	08/15/25 13:16
o-Xylene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Styrene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Toluene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Total Xylene	EPA 8260D	ND		µg/kg	121	1	08/23/25 11:14	08/15/25 13:16
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.4	1	08/23/25 11:14	08/15/25 13:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	92.2		%REC	80-120	1	08/23/25 11:14	08/15/25 13:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	102		%REC	80-120	1	08/23/25 11:14	08/15/25 13:16
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	88.0		%REC	80-120	1	08/23/25 11:14	08/15/25 13:16
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	101		%REC	80-120	1	08/23/25 11:14	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:26
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB03 (5-6)	Lab ID: HN2511514-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	18.6		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	18.6		mg/kg	12.0	1	08/17/25 17:57	08/17/25 14:43
Metals								
Arsenic	EPA 6020B	9.66		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Barium	EPA 6020B	81.7		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Cadmium	EPA 6020B	ND		mg/kg	1.28	10	08/20/25 20:38	08/20/25 09:47
Chromium	EPA 6020B	20.2		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Copper	EPA 6020B	15.0		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Lead	EPA 6020B	49.4		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Selenium	EPA 6020B	ND		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Silver	EPA 6020B	ND		mg/kg	3.21	10	08/20/25 20:38	08/20/25 09:47
Zinc	EPA 6020B	97.8		mg/kg	6.42	10	08/20/25 20:38	08/20/25 09:47
Mercury	EPA 7471B	0.0553		mg/kg	0.0220	1	08/21/25 10:35	08/21/25 08:13
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/11/25 10:45	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/11/25 10:45	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:26
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB03 (5-6) **Lab ID: HN2511514-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	87.6	1	08/23/25 11:33	08/15/25 13:16
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	292	1	08/23/25 11:33	08/15/25 13:16
2-Hexanone	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Acetone	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Benzene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Bromochloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Bromoform	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Carbon disulfide	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Chlorobenzene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Chloroform	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	87.6	1	08/23/25 11:33	08/15/25 13:16
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Cyclohexane	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Ethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 8070_Wisner
Matrix: SOIL/SOLID

Work Order: HN2511514
Date Collected: 08/14/25 10:26
Date Received: 08/15/25 08:00

CLIENT ID: 8070 SB03 (5-6) **Lab ID: HN2511514-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	87.6	1	08/23/25 11:33	08/15/25 13:16
Methyl acetate	EPA 8260D	ND		µg/kg	365	1	08/23/25 11:33	08/15/25 13:16
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	146	1	08/23/25 11:33	08/15/25 13:16
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	365	1	08/23/25 11:33	08/15/25 13:16
o-Xylene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Styrene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Toluene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Total Xylene	EPA 8260D	ND		µg/kg	131	1	08/23/25 11:33	08/15/25 13:16
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.8	1	08/23/25 11:33	08/15/25 13:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	92.6		%REC	80-120	1	08/23/25 11:33	08/15/25 13:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	97.1		%REC	80-120	1	08/23/25 11:33	08/15/25 13:16
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	90.2		%REC	80-120	1	08/23/25 11:33	08/15/25 13:16
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	100		%REC	80-120	1	08/23/25 11:33	08/15/25 13:16



November 20, 2025

Service Request No:R2510166

Bill Carey
ALS Environmental - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 8070_Wisner

Dear Bill,

Enclosed are the results of the sample(s) submitted to our laboratory August 20, 2025
For your reference, these analyses have been assigned our service request number **R2510166**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Received: 08/20/2025

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:

Three soil samples were received for analysis at ALS Environmental on 08/20/2025. 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.

Semivolatiles by GC/MS:

Method 8270E: The Method Reporting Limit (MRL) was elevated due to less than optimal sample mass (15g) used in the microwave preparation process. The nature of the sample necessitated using less mass of sample to avoid overheating. Overheating causes the extraction solvent to vent out of the vessel and may cause damage to the microwave vessels.

Method 8270E, 891252: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. The result(s) are flagged to indicate the matrix interference.

Semivolatile GC:

Method 8081B, 09/10/2025: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/20/2025



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: 8070 SB01 (1-2)	Lab ID: R2510166-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	4.5		0.94	1.9	ug/Kg	8081B
4,4'-DDE	24		0.94	1.9	ug/Kg	8081B
4,4'-DDT	9.6		0.94	1.9	ug/Kg	8081B
alpha-Chlordane	3.0	P	0.94	1.9	ug/Kg	8081B
gamma-Chlordane	2.7		0.94	1.9	ug/Kg	8081B
Total Solids	89.2				Percent	ALS SOP

CLIENT ID: 8070 SB02 (3-4)	Lab ID: R2510166-002
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	9.1		0.98	2.0	ug/Kg	8081B
4,4'-DDE	33		0.98	2.0	ug/Kg	8081B
4,4'-DDT	4.3		0.98	2.0	ug/Kg	8081B
alpha-Chlordane	2.0	J	0.98	2.0	ug/Kg	8081B
Dieldrin	2.4		0.98	2.0	ug/Kg	8081B
Total Solids	85.1				Percent	ALS SOP

CLIENT ID: 8070 SB03 (5-6)	Lab ID: R2510166-003
-----------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	5.4		1.1	2.1	ug/Kg	8081B
4,4'-DDE	15		1.1	2.1	ug/Kg	8081B
4,4'-DDT	3.6	P	1.1	2.1	ug/Kg	8081B
Total Solids	81.4				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: ALS Environmental - US
Project: 8070_Wisner

Service Request:R2510166

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510166-001	8070 SB01 (1-2)	8/14/2025	0957
R2510166-002	8070 SB02 (3-4)	8/14/2025	1013
R2510166-003	8070 SB03 (5-6)	8/14/2025	1026

ALS Group USA, Corp.

3352 128th Ave Holland Michigan 49424 United States
T+1 616 399 6070 | F



right solutions.
right partners.

Subcontract Chain of Custody

SAMPLING STATE:

COC ID: HN2511514

Subcontract To:

Rochester - Environmental TEL: +1 585 288 5380
1565 Jefferson Road, Building 300, Suite 360 FAX:
Rochester New York 14623

Due Date: 08/26/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis					
Purchase Order		Project Name	8070_Wisner	A	EPA 8081B-3546-S (INT SUB)				
Work Order	HN2511514			B	EPA 8082A-3546-S (INT SUB)				
Company Name	Holland - Environmental	Bill To Company	Holland - Environmental	C	EPA 8151A-S (INT SUB)				
Send Report To	Bill Carey	Inv Attn	Accounts Payable	D	EPA 8270E-TCL-3546-S (INT SUB)				
Address	3352 128th Ave	Address	3352 128th Ave	E					
				F					
City/State/Zip	Holland Michigan 49424	City/State/Zip	Holland Michigan 49424	G					
Phone	+1 616 399 6070	Phone	+1 616 399 6070	H					
Fax		Fax		I					
Email Address	bill.carey@alsglobal.com			J					

ALS Sample ID	Client Sample ID	Matrix	Collection Date	Bottle	A	B	C	D	E	F	G	H	I	J
HN2511514-001	8070 SB01 (1-2)	Soil/Solid	08/14/2025 09:57	001-AD	x	x	x	x						
HN2511514-002	8070 SB02 (3-4)	Soil/Solid	08/14/2025 10:13	002-AD	x	x	x	x						
HN2511514-003	8070 SB03 (5-6)	Soil/Solid	08/14/2025 10:26	003-AD	x	x	x	x						

Relinquished by	Date Time	Received by	Date Time	Cooler ID's
Relinquished by	Date Time	Received by	Date Time	
Sampled by	Date Time	Received by	Date Time	





Cooler Receipt and Preservation Check Form

R2510166

ALS Environmental - Holland
8070 Wiener

5

Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RMCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>(N)</u>
2	Custody papers properly completed (ink, signed)?	<u>(Y)</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>(Y)</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>(Y)</u> N

5a	Did VOA vials have sig* bubbles?	Y N <u>(NA)</u>
5b	Sig* bubbles: Alk? Y N <u>(NA)</u> Sulfide? Y N <u>(NA)</u>	
6	Where did the bottles originate?	ALS/ROC <u>(CLIENT)</u>
7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 8/20/25 Time: 10:01 ID: IR#12 (IR#11) From: Temp Blank (Sample Bottle)

Temp (°C)	<u>4.2</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> N	<u>(Y)</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by RM on 8/20 at 12:16

5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 15:49 by: MM

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? YES NO (N/A)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 062325-1SR

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ALS Environmental - US
Project: 8070_Wisner

Service Request: R2510166

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8270E	Soil	1-Methylnaphthalene
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ALS Environmental - US
Project: 8070_Wisner/

Service Request: R2510166

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003
Sample Matrix: Soil

Date Collected: 08/14/25
Date Received: 08/20/25

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSSES
ALS SOP		CKUTZER



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7 / 200.8	200.2
6010D	3005A/3010A
6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010D	3050B
6010D TCLP (1311) extract	3005A/3010A
6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	820 U	3700	820	10	08/26/25 17:56	8/25/25	
1-Methylnaphthalene	680 U	3700	680	10	08/26/25 17:56	8/25/25	
2-Methylnaphthalene	1300 U	3700	1300	10	08/26/25 17:56	8/25/25	
Acenaphthene	700 U	3700	700	10	08/26/25 17:56	8/25/25	
Acenaphthylene	750 U	3700	750	10	08/26/25 17:56	8/25/25	
Anthracene	620 U	3700	620	10	08/26/25 17:56	8/25/25	
Benz(a)anthracene	550 U	3700	550	10	08/26/25 17:56	8/25/25	
Benzo(a)pyrene	980 U	3700	980	10	08/26/25 17:56	8/25/25	
Benzo(b)fluoranthene	620 U	3700	620	10	08/26/25 17:56	8/25/25	
Benzo(g,h,i)perylene	850 U	3700	850	10	08/26/25 17:56	8/25/25	
1,4-Dichlorobenzene	620 U	3700	620	10	08/26/25 17:56	8/25/25	
Benzo(k)fluoranthene	600 U	3700	600	10	08/26/25 17:56	8/25/25	
Biphenyl	1100 U	3700	1100	10	08/26/25 17:56	8/25/25	
Chrysene	540 U	3700	540	10	08/26/25 17:56	8/25/25	
Dibenz(a,h)anthracene	800 U	3700	800	10	08/26/25 17:56	8/25/25	
1,4-Dioxane	360 U	750	360	10	08/26/25 17:56	8/25/25	
Dibenzofuran	670 U	3700	670	10	08/26/25 17:56	8/25/25	
Fluoranthene	930 U	3700	930	10	08/26/25 17:56	8/25/25	
Fluorene	690 U	3700	690	10	08/26/25 17:56	8/25/25	
Indeno(1,2,3-cd)pyrene	1200 U	3700	1200	10	08/26/25 17:56	8/25/25	
Naphthalene	690 U	3700	690	10	08/26/25 17:56	8/25/25	
Phenanthrene	520 U	3700	520	10	08/26/25 17:56	8/25/25	
Pyrene	610 U	3700	610	10	08/26/25 17:56	8/25/25	
2,3,4,6-Tetrachlorophenol	1300 U	3700	1300	10	08/26/25 17:56	8/25/25	
2,4,5-Trichlorophenol	910 U	3700	910	10	08/26/25 17:56	8/25/25	
2,4,6-Trichlorophenol	820 U	3700	820	10	08/26/25 17:56	8/25/25	
2,4-Dichlorophenol	710 U	3700	710	10	08/26/25 17:56	8/25/25	
2,4-Dimethylphenol	660 U	3700	660	10	08/26/25 17:56	8/25/25	
2,4-Dinitrophenol	6300 U	19000	6300	10	08/26/25 17:56	8/25/25	
2,4-Dinitrotoluene	1500 U	3700	1500	10	08/26/25 17:56	8/25/25	
2,6-Dinitrotoluene	810 U	3700	810	10	08/26/25 17:56	8/25/25	
2-Chloronaphthalene	740 U	3700	740	10	08/26/25 17:56	8/25/25	
2-Chlorophenol	620 U	3700	620	10	08/26/25 17:56	8/25/25	
2-Methylphenol	760 U	3700	760	10	08/26/25 17:56	8/25/25	
2-Nitroaniline	870 U	19000	870	10	08/26/25 17:56	8/25/25	
2-Nitrophenol	860 U	3700	860	10	08/26/25 17:56	8/25/25	
3,3'-Dichlorobenzidine	1400 U	3700	1400	10	08/26/25 17:56	8/25/25	
3- and 4-Methylphenol Coelution	710 U	3700	710	10	08/26/25 17:56	8/25/25	
3-Nitroaniline	740 U	19000	740	10	08/26/25 17:56	8/25/25	
4,6-Dinitro-2-methylphenol	2100 U	19000	2100	10	08/26/25 17:56	8/25/25	
4-Bromophenyl Phenyl Ether	970 U	3700	970	10	08/26/25 17:56	8/25/25	
4-Chloro-3-methylphenol	740 U	3700	740	10	08/26/25 17:56	8/25/25	
4-Chloroaniline	1400 U	3700	1400	10	08/26/25 17:56	8/25/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	790 U	3700	790	10	08/26/25 17:56	8/25/25	
4-Nitroaniline	800 U	19000	800	10	08/26/25 17:56	8/25/25	
4-Nitrophenol	1900 U	19000	1900	10	08/26/25 17:56	8/25/25	
Acetophenone	1100 U	3700	1100	10	08/26/25 17:56	8/25/25	
Atrazine	1100 U	3700	1100	10	08/26/25 17:56	8/25/25	
Benzaldehyde	890 U	19000	890	10	08/26/25 17:56	8/25/25	
Benzoic Acid	5800 U	19000	5800	10	08/26/25 17:56	8/25/25	
Bis(1-chloroisopropyl) Ether	760 U	3700	760	10	08/26/25 17:56	8/25/25	
Bis(2-chloroethoxy)methane	900 U	3700	900	10	08/26/25 17:56	8/25/25	
Bis(2-chloroethyl) Ether	730 U	3700	730	10	08/26/25 17:56	8/25/25	
Bis(2-ethylhexyl) Phthalate	670 U	5600	670	10	08/26/25 17:56	8/25/25	
Butyl Benzyl Phthalate	1100 U	3700	1100	10	08/26/25 17:56	8/25/25	
Caprolactam	810 U	3700	810	10	08/26/25 17:56	8/25/25	
Carbazole	600 U	3700	600	10	08/26/25 17:56	8/25/25	
Di-n-butyl Phthalate	600 U	3700	600	10	08/26/25 17:56	8/25/25	
Di-n-octyl Phthalate	1300 U	3700	1300	10	08/26/25 17:56	8/25/25	
Diethyl Phthalate	660 U	3700	660	10	08/26/25 17:56	8/25/25	
Dimethyl Phthalate	700 U	3700	700	10	08/26/25 17:56	8/25/25	
Hexachlorobenzene	890 U	3700	890	10	08/26/25 17:56	8/25/25	
Hexachlorobutadiene	1300 U	3700	1300	10	08/26/25 17:56	8/25/25	
Hexachlorocyclopentadiene	1200 U	3700	1200	10	08/26/25 17:56	8/25/25	
Hexachloroethane	690 U	3700	690	10	08/26/25 17:56	8/25/25	
Isophorone	770 U	3700	770	10	08/26/25 17:56	8/25/25	
N-Nitrosodi-n-propylamine	1200 U	3700	1200	10	08/26/25 17:56	8/25/25	
N-Nitrosodiphenylamine	2300 U	3700	2300	10	08/26/25 17:56	8/25/25	
Nitrobenzene	660 U	3700	660	10	08/26/25 17:56	8/25/25	
Pentachlorophenol (PCP)	3700 U	19000	3700	10	08/26/25 17:56	8/25/25	
Phenol	740 U	3700	740	10	08/26/25 17:56	8/25/25	
Pyridine	500 U	19000	500	10	08/26/25 17:56	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	18 - 104	08/26/25 17:56	
Nitrobenzene-d5	53	12 - 98	08/26/25 17:56	
p-Terphenyl-d14	68	26 - 134	08/26/25 17:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	860 U	3900	860	10	08/26/25 18:20	8/25/25	
1-Methylnaphthalene	710 U	3900	710	10	08/26/25 18:20	8/25/25	
2-Methylnaphthalene	1400 U	3900	1400	10	08/26/25 18:20	8/25/25	
Acenaphthene	730 U	3900	730	10	08/26/25 18:20	8/25/25	
Acenaphthylene	790 U	3900	790	10	08/26/25 18:20	8/25/25	
Anthracene	650 U	3900	650	10	08/26/25 18:20	8/25/25	
Benz(a)anthracene	580 U	3900	580	10	08/26/25 18:20	8/25/25	
Benzo(a)pyrene	1100 U	3900	1100	10	08/26/25 18:20	8/25/25	
Benzo(b)fluoranthene	650 U	3900	650	10	08/26/25 18:20	8/25/25	
Benzo(g,h,i)perylene	890 U	3900	890	10	08/26/25 18:20	8/25/25	
1,4-Dichlorobenzene	650 U	3900	650	10	08/26/25 18:20	8/25/25	
Benzo(k)fluoranthene	630 U	3900	630	10	08/26/25 18:20	8/25/25	
Biphenyl	1200 U	3900	1200	10	08/26/25 18:20	8/25/25	
Chrysene	570 U	3900	570	10	08/26/25 18:20	8/25/25	
Dibenz(a,h)anthracene	840 U	3900	840	10	08/26/25 18:20	8/25/25	
1,4-Dioxane	380 U	790	380	10	08/26/25 18:20	8/25/25	
Dibenzofuran	710 U	3900	710	10	08/26/25 18:20	8/25/25	
Fluoranthene	970 U	3900	970	10	08/26/25 18:20	8/25/25	
Fluorene	730 U	3900	730	10	08/26/25 18:20	8/25/25	
Indeno(1,2,3-cd)pyrene	1300 U	3900	1300	10	08/26/25 18:20	8/25/25	
Naphthalene	730 U	3900	730	10	08/26/25 18:20	8/25/25	
Phenanthrene	550 U	3900	550	10	08/26/25 18:20	8/25/25	
Pyrene	650 U	3900	650	10	08/26/25 18:20	8/25/25	
2,3,4,6-Tetrachlorophenol	1400 U	3900	1400	10	08/26/25 18:20	8/25/25	
2,4,5-Trichlorophenol	960 U	3900	960	10	08/26/25 18:20	8/25/25	
2,4,6-Trichlorophenol	860 U	3900	860	10	08/26/25 18:20	8/25/25	
2,4-Dichlorophenol	750 U	3900	750	10	08/26/25 18:20	8/25/25	
2,4-Dimethylphenol	700 U	3900	700	10	08/26/25 18:20	8/25/25	
2,4-Dinitrophenol	6600 U	20000	6600	10	08/26/25 18:20	8/25/25	
2,4-Dinitrotoluene	1500 U	3900	1500	10	08/26/25 18:20	8/25/25	
2,6-Dinitrotoluene	850 U	3900	850	10	08/26/25 18:20	8/25/25	
2-Chloronaphthalene	780 U	3900	780	10	08/26/25 18:20	8/25/25	
2-Chlorophenol	650 U	3900	650	10	08/26/25 18:20	8/25/25	
2-Methylphenol	800 U	3900	800	10	08/26/25 18:20	8/25/25	
2-Nitroaniline	920 U	20000	920	10	08/26/25 18:20	8/25/25	
2-Nitrophenol	900 U	3900	900	10	08/26/25 18:20	8/25/25	
3,3'-Dichlorobenzidine	1500 U	3900	1500	10	08/26/25 18:20	8/25/25	
3- and 4-Methylphenol Coelution	740 U	3900	740	10	08/26/25 18:20	8/25/25	
3-Nitroaniline	780 U	20000	780	10	08/26/25 18:20	8/25/25	
4,6-Dinitro-2-methylphenol	2200 U	20000	2200	10	08/26/25 18:20	8/25/25	
4-Bromophenyl Phenyl Ether	1100 U	3900	1100	10	08/26/25 18:20	8/25/25	
4-Chloro-3-methylphenol	780 U	3900	780	10	08/26/25 18:20	8/25/25	
4-Chloroaniline	1500 U	3900	1500	10	08/26/25 18:20	8/25/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	830 U	3900	830	10	08/26/25 18:20	8/25/25	
4-Nitroaniline	840 U	20000	840	10	08/26/25 18:20	8/25/25	
4-Nitrophenol	2000 U	20000	2000	10	08/26/25 18:20	8/25/25	
Acetophenone	1200 U	3900	1200	10	08/26/25 18:20	8/25/25	
Atrazine	1200 U	3900	1200	10	08/26/25 18:20	8/25/25	
Benzaldehyde	940 U	20000	940	10	08/26/25 18:20	8/25/25	
Benzoic Acid	6100 U	20000	6100	10	08/26/25 18:20	8/25/25	
Bis(1-chloroisopropyl) Ether	800 U	3900	800	10	08/26/25 18:20	8/25/25	
Bis(2-chloroethoxy)methane	950 U	3900	950	10	08/26/25 18:20	8/25/25	
Bis(2-chloroethyl) Ether	770 U	3900	770	10	08/26/25 18:20	8/25/25	
Bis(2-ethylhexyl) Phthalate	710 U	5900	710	10	08/26/25 18:20	8/25/25	
Butyl Benzyl Phthalate	1200 U	3900	1200	10	08/26/25 18:20	8/25/25	
Caprolactam	850 U	3900	850	10	08/26/25 18:20	8/25/25	
Carbazole	630 U	3900	630	10	08/26/25 18:20	8/25/25	
Di-n-butyl Phthalate	630 U	3900	630	10	08/26/25 18:20	8/25/25	
Di-n-octyl Phthalate	1400 U	3900	1400	10	08/26/25 18:20	8/25/25	
Diethyl Phthalate	690 U	3900	690	10	08/26/25 18:20	8/25/25	
Dimethyl Phthalate	740 U	3900	740	10	08/26/25 18:20	8/25/25	
Hexachlorobenzene	930 U	3900	930	10	08/26/25 18:20	8/25/25	
Hexachlorobutadiene	1400 U	3900	1400	10	08/26/25 18:20	8/25/25	
Hexachlorocyclopentadiene	1300 U	3900	1300	10	08/26/25 18:20	8/25/25	
Hexachloroethane	730 U	3900	730	10	08/26/25 18:20	8/25/25	
Isophorone	810 U	3900	810	10	08/26/25 18:20	8/25/25	
N-Nitrosodi-n-propylamine	1200 U	3900	1200	10	08/26/25 18:20	8/25/25	
N-Nitrosodiphenylamine	2500 U	3900	2500	10	08/26/25 18:20	8/25/25	
Nitrobenzene	690 U	3900	690	10	08/26/25 18:20	8/25/25	
Pentachlorophenol (PCP)	3900 U	20000	3900	10	08/26/25 18:20	8/25/25	
Phenol	780 U	3900	780	10	08/26/25 18:20	8/25/25	
Pyridine	520 U	20000	520	10	08/26/25 18:20	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	71	18 - 104	08/26/25 18:20	
Nitrobenzene-d5	65	12 - 98	08/26/25 18:20	
p-Terphenyl-d14	86	26 - 134	08/26/25 18:20	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	520 U	2300	520	2	08/26/25 18:44	8/25/25	
1-Methylnaphthalene	430 U	2300	430	2	08/26/25 18:44	8/25/25	
2-Methylnaphthalene	830 U	2300	830	2	08/26/25 18:44	8/25/25	
Acenaphthene	450 U	2300	450	2	08/26/25 18:44	8/25/25	
Acenaphthylene	480 U	2300	480	2	08/26/25 18:44	8/25/25	
Anthracene	390 U	2300	390	2	08/26/25 18:44	8/25/25	
Benz(a)anthracene	350 U	2300	350	2	08/26/25 18:44	8/25/25	
Benzo(a)pyrene	630 U	2300	630	2	08/26/25 18:44	8/25/25	
Benzo(b)fluoranthene	390 U	2300	390	2	08/26/25 18:44	8/25/25	
Benzo(g,h,i)perylene	540 U	2300	540	2	08/26/25 18:44	8/25/25	
1,4-Dichlorobenzene	390 U	2300	390	2	08/26/25 18:44	8/25/25	
Benzo(k)fluoranthene	380 U	2300	380	2	08/26/25 18:44	8/25/25	
Biphenyl	690 U	2300	690	2	08/26/25 18:44	8/25/25	
Chrysene	350 U	2300	350	2	08/26/25 18:44	8/25/25	
1,4-Dioxane	230 U	470	230	2	08/26/25 18:44	8/25/25	
Dibenz(a,h)anthracene	510 U	2300	510	2	08/26/25 18:44	8/25/25	
Dibenzofuran	430 U	2300	430	2	08/26/25 18:44	8/25/25	
Fluoranthene	590 U	2300	590	2	08/26/25 18:44	8/25/25	
Fluorene	440 U	2300	440	2	08/26/25 18:44	8/25/25	
Indeno(1,2,3-cd)pyrene	760 U	2300	760	2	08/26/25 18:44	8/25/25	
Naphthalene	440 U	2300	440	2	08/26/25 18:44	8/25/25	
Phenanthrene	330 U	2300	330	2	08/26/25 18:44	8/25/25	
Pyrene	390 U	2300	390	2	08/26/25 18:44	8/25/25	
2,3,4,6-Tetrachlorophenol	820 U	2300	820	2	08/26/25 18:44	8/25/25	
2,4,5-Trichlorophenol	580 U	2300	580	2	08/26/25 18:44	8/25/25	
2,4,6-Trichlorophenol	520 U	2300	520	2	08/26/25 18:44	8/25/25	
2,4-Dichlorophenol	450 U	2300	450	2	08/26/25 18:44	8/25/25	
2,4-Dimethylphenol	420 U	2300	420	2	08/26/25 18:44	8/25/25	
2,4-Dinitrophenol	4000 U	12000	4000	2	08/26/25 18:44	8/25/25	
2,4-Dinitrotoluene	900 U	2300	900	2	08/26/25 18:44	8/25/25	
2,6-Dinitrotoluene	510 U	2300	510	2	08/26/25 18:44	8/25/25	
2-Chloronaphthalene	470 U	2300	470	2	08/26/25 18:44	8/25/25	
2-Chlorophenol	390 U	2300	390	2	08/26/25 18:44	8/25/25	
2-Methylphenol	490 U	2300	490	2	08/26/25 18:44	8/25/25	
2-Nitroaniline	560 U	12000	560	2	08/26/25 18:44	8/25/25	
2-Nitrophenol	550 U	2300	550	2	08/26/25 18:44	8/25/25	
3,3'-Dichlorobenzidine	860 U	2300	860	2	08/26/25 18:44	8/25/25	
3- and 4-Methylphenol Coelution	450 U	2300	450	2	08/26/25 18:44	8/25/25	
3-Nitroaniline	470 U	12000	470	2	08/26/25 18:44	8/25/25	
4,6-Dinitro-2-methylphenol	1400 U	12000	1400	2	08/26/25 18:44	8/25/25	
4-Bromophenyl Phenyl Ether	620 U	2300	620	2	08/26/25 18:44	8/25/25	
4-Chloro-3-methylphenol	470 U	2300	470	2	08/26/25 18:44	8/25/25	
4-Chloroaniline	860 U	2300	860	2	08/26/25 18:44	8/25/25	

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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	500 U	2300	500	2	08/26/25 18:44	8/25/25	
4-Nitroaniline	510 U	12000	510	2	08/26/25 18:44	8/25/25	
4-Nitrophenol	1300 U	12000	1300	2	08/26/25 18:44	8/25/25	
Acetophenone	680 U	2300	680	2	08/26/25 18:44	8/25/25	
Atrazine	700 U	2300	700	2	08/26/25 18:44	8/25/25	
Benzaldehyde	570 U	12000	570	2	08/26/25 18:44	8/25/25	
Benzoic Acid	3700 U	12000	3700	2	08/26/25 18:44	8/25/25	
Bis(1-chloroisopropyl) Ether	480 U	2300	480	2	08/26/25 18:44	8/25/25	
Bis(2-chloroethoxy)methane	570 U	2300	570	2	08/26/25 18:44	8/25/25	
Bis(2-chloroethyl) Ether	460 U	2300	460	2	08/26/25 18:44	8/25/25	
Bis(2-ethylhexyl) Phthalate	430 U	3500	430	2	08/26/25 18:44	8/25/25	
Butyl Benzyl Phthalate	690 U	2300	690	2	08/26/25 18:44	8/25/25	
Caprolactam	520 U	2300	520	2	08/26/25 18:44	8/25/25	
Carbazole	380 U	2300	380	2	08/26/25 18:44	8/25/25	
Di-n-butyl Phthalate	380 U	2300	380	2	08/26/25 18:44	8/25/25	
Di-n-octyl Phthalate	820 U	2300	820	2	08/26/25 18:44	8/25/25	
Diethyl Phthalate	420 U	2300	420	2	08/26/25 18:44	8/25/25	
Dimethyl Phthalate	450 U	2300	450	2	08/26/25 18:44	8/25/25	
Hexachlorobenzene	560 U	2300	560	2	08/26/25 18:44	8/25/25	
Hexachlorobutadiene	830 U	2300	830	2	08/26/25 18:44	8/25/25	
Hexachlorocyclopentadiene	750 U	2300	750	2	08/26/25 18:44	8/25/25	
Hexachloroethane	440 U	2300	440	2	08/26/25 18:44	8/25/25	
Isophorone	490 U	2300	490	2	08/26/25 18:44	8/25/25	
N-Nitrosodi-n-propylamine	720 U	2300	720	2	08/26/25 18:44	8/25/25	
N-Nitrosodiphenylamine	1500 U	2300	1500	2	08/26/25 18:44	8/25/25	
Nitrobenzene	420 U	2300	420	2	08/26/25 18:44	8/25/25	
Pentachlorophenol (PCP)	2400 U	12000	2400	2	08/26/25 18:44	8/25/25	
Phenol	470 U	2300	470	2	08/26/25 18:44	8/25/25	
Pyridine	320 U	12000	320	2	08/26/25 18:44	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	69	18 - 104	08/26/25 18:44	
Nitrobenzene-d5	64	12 - 98	08/26/25 18:44	
p-Terphenyl-d14	96	26 - 134	08/26/25 18:44	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	4.5	1.9	0.94	1	09/10/25 01:12	8/25/25	
4,4'-DDE	24	1.9	0.94	1	09/10/25 01:12	8/25/25	
4,4'-DDT	9.6	1.9	0.94	1	09/10/25 01:12	8/25/25	
Aldrin	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Chlordane	4.7 U	9.2	4.7	1	09/10/25 01:12	8/25/25	
Dieldrin	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endosulfan I	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endosulfan II	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endosulfan Sulfate	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endrin	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endrin Aldehyde	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Endrin Ketone	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Heptachlor	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Heptachlor Epoxide	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Methoxychlor	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
Toxaphene	22 U	37	22	1	09/10/25 01:12	8/25/25	
alpha-BHC	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
alpha-Chlordane	3.0 P	1.9	0.94	1	09/10/25 01:12	8/25/25	
beta-BHC	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
delta-BHC	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
gamma-BHC (Lindane)	0.94 U	1.9	0.94	1	09/10/25 01:12	8/25/25	
gamma-Chlordane	2.7	1.9	0.94	1	09/10/25 01:12	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	68	10 - 159	09/10/25 01:12	
Tetrachloro-m-xylene	51	10 - 132	09/10/25 01:12	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.1	2.0	0.98	1	09/10/25 01:29	8/25/25	
4,4'-DDE	33	2.0	0.98	1	09/10/25 01:29	8/25/25	
4,4'-DDT	4.3	2.0	0.98	1	09/10/25 01:29	8/25/25	
Aldrin	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Chlordane	4.9 U	9.7	4.9	1	09/10/25 01:29	8/25/25	
Dieldrin	2.4	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endosulfan I	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endosulfan II	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endosulfan Sulfate	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endrin	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endrin Aldehyde	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Endrin Ketone	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Heptachlor	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Heptachlor Epoxide	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Methoxychlor	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
Toxaphene	23 U	38	23	1	09/10/25 01:29	8/25/25	
alpha-BHC	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
alpha-Chlordane	2.0 J	2.0	0.98	1	09/10/25 01:29	8/25/25	
beta-BHC	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
delta-BHC	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
gamma-BHC (Lindane)	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	
gamma-Chlordane	0.98 U	2.0	0.98	1	09/10/25 01:29	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 159	09/10/25 01:29	
Tetrachloro-m-xylene	33	10 - 132	09/10/25 01:29	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	5.4	2.1	1.1	1	09/10/25 01:47	8/25/25	
4,4'-DDE	15	2.1	1.1	1	09/10/25 01:47	8/25/25	
4,4'-DDT	3.6 P	2.1	1.1	1	09/10/25 01:47	8/25/25	
Aldrin	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Chlordane	5.1 U	10	5.1	1	09/10/25 01:47	8/25/25	
Dieldrin	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endosulfan I	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endosulfan II	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endosulfan Sulfate	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endrin	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endrin Aldehyde	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Endrin Ketone	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Heptachlor	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Heptachlor Epoxide	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Methoxychlor	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
Toxaphene	24 U	40	24	1	09/10/25 01:47	8/25/25	
alpha-BHC	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
alpha-Chlordane	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
beta-BHC	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
delta-BHC	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
gamma-BHC (Lindane)	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	
gamma-Chlordane	1.1 U	2.1	1.1	1	09/10/25 01:47	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 159	09/10/25 01:47	
Tetrachloro-m-xylene	44	10 - 132	09/10/25 01:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	19 U	37	19	1	08/30/25 00:41	8/25/25	
Aroclor 1221	29 U	74	29	1	08/30/25 00:41	8/25/25	
Aroclor 1232	22 U	37	22	1	08/30/25 00:41	8/25/25	
Aroclor 1242	19 U	37	19	1	08/30/25 00:41	8/25/25	
Aroclor 1248	20 U	37	20	1	08/30/25 00:41	8/25/25	
Aroclor 1254	19 U	37	19	1	08/30/25 00:41	8/25/25	
Aroclor 1260	19 U	37	19	1	08/30/25 00:41	8/25/25	
Aroclor 1262	19 U	37	19	1	08/30/25 00:41	8/25/25	
Aroclor 1268	19 U	37	19	1	08/30/25 00:41	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 138	08/30/25 00:41	
Tetrachloro-m-xylene	44	11 - 122	08/30/25 00:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	38	20	1	08/30/25 00:54	8/25/25	
Aroclor 1221	31 U	78	31	1	08/30/25 00:54	8/25/25	
Aroclor 1232	23 U	38	23	1	08/30/25 00:54	8/25/25	
Aroclor 1242	20 U	38	20	1	08/30/25 00:54	8/25/25	
Aroclor 1248	21 U	38	21	1	08/30/25 00:54	8/25/25	
Aroclor 1254	20 U	38	20	1	08/30/25 00:54	8/25/25	
Aroclor 1260	20 U	38	20	1	08/30/25 00:54	8/25/25	
Aroclor 1262	20 U	38	20	1	08/30/25 00:54	8/25/25	
Aroclor 1268	20 U	38	20	1	08/30/25 00:54	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 138	08/30/25 00:54	
Tetrachloro-m-xylene	34	11 - 122	08/30/25 00:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	21 U	40	21	1	08/30/25 01:08	8/25/25	
Aroclor 1221	32 U	81	32	1	08/30/25 01:08	8/25/25	
Aroclor 1232	24 U	40	24	1	08/30/25 01:08	8/25/25	
Aroclor 1242	21 U	40	21	1	08/30/25 01:08	8/25/25	
Aroclor 1248	22 U	40	22	1	08/30/25 01:08	8/25/25	
Aroclor 1254	21 U	40	21	1	08/30/25 01:08	8/25/25	
Aroclor 1260	21 U	40	21	1	08/30/25 01:08	8/25/25	
Aroclor 1262	21 U	40	21	1	08/30/25 01:08	8/25/25	
Aroclor 1268	21 U	40	21	1	08/30/25 01:08	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 138	08/30/25 01:08	
Tetrachloro-m-xylene	46	11 - 122	08/30/25 01:08	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.6 U	11	5.6	1	09/03/25 23:18	8/27/25	
2,4,5-TP	5.1 U	11	5.1	1	09/03/25 23:18	8/27/25	
2,4-D	7.3 U	11	7.3	1	09/03/25 23:18	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	10 - 151	09/03/25 23:18	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.9 U	12	5.9	1	09/03/25 23:37	8/27/25	
2,4,5-TP	5.3 U	12	5.3	1	09/03/25 23:37	8/27/25	
2,4-D	7.7 U	12	7.7	1	09/03/25 23:37	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	49	10 - 151	09/03/25 23:37	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.1 U	12	6.1	1	09/03/25 23:55	8/27/25	
2,4,5-TP	5.5 U	12	5.5	1	09/03/25 23:55	8/27/25	
2,4-D	7.9 U	12	7.9	1	09/03/25 23:55	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	72	10 - 151	09/03/25 23:55	



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Sample Name: 8070 SB01 (1-2)
Lab Code: R2510166-001

Service Request: R2510166
Date Collected: 08/14/25 09:57
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	89.2	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Sample Name: 8070 SB02 (3-4)
Lab Code: R2510166-002

Service Request: R2510166
Date Collected: 08/14/25 10:13
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	85.1	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Sample Name: 8070 SB03 (5-6)
Lab Code: R2510166-003

Service Request: R2510166
Date Collected: 08/14/25 10:26
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	81.4	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
8070 SB01 (1-2)	R2510166-001	52	53	68
8070 SB02 (3-4)	R2510166-002	71	65	86
8070 SB03 (5-6)	R2510166-003	69	64	96
Method Blank	RQ2511248-01	60	58	92
Lab Control Sample	RQ2511248-02	57	50	81
Duplicate Lab Control Sample	RQ2511248-03	71	61	104

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511248-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	61 U	330	61	1	08/26/25 13:09	8/25/25	
1,2,4,5-Tetrachlorobenzene	74 U	330	74	1	08/26/25 13:09	8/25/25	
2-Methylnaphthalene	120 U	330	120	1	08/26/25 13:09	8/25/25	
Acenaphthene	63 U	330	63	1	08/26/25 13:09	8/25/25	
Acenaphthylene	67 U	330	67	1	08/26/25 13:09	8/25/25	
Anthracene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Benz(a)anthracene	49 U	330	49	1	08/26/25 13:09	8/25/25	
Benzo(a)pyrene	88 U	330	88	1	08/26/25 13:09	8/25/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/26/25 13:09	8/25/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/26/25 13:09	8/25/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/26/25 13:09	8/25/25	
Biphenyl	98 U	330	98	1	08/26/25 13:09	8/25/25	
Chrysene	49 U	330	49	1	08/26/25 13:09	8/25/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/26/25 13:09	8/25/25	
1,4-Dioxane	32 U	67	32	1	08/26/25 13:09	8/25/25	
Dibenzofuran	60 U	330	60	1	08/26/25 13:09	8/25/25	
Fluoranthene	83 U	330	83	1	08/26/25 13:09	8/25/25	
Fluorene	62 U	330	62	1	08/26/25 13:09	8/25/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/26/25 13:09	8/25/25	
Naphthalene	62 U	330	62	1	08/26/25 13:09	8/25/25	
Phenanthrene	47 U	330	47	1	08/26/25 13:09	8/25/25	
Pyrene	55 U	330	55	1	08/26/25 13:09	8/25/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/26/25 13:09	8/25/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/26/25 13:09	8/25/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/26/25 13:09	8/25/25	
2,4-Dichlorophenol	64 U	330	64	1	08/26/25 13:09	8/25/25	
2,4-Dimethylphenol	59 U	330	59	1	08/26/25 13:09	8/25/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/26/25 13:09	8/25/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/26/25 13:09	8/25/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/26/25 13:09	8/25/25	
2-Chloronaphthalene	66 U	330	66	1	08/26/25 13:09	8/25/25	
2-Chlorophenol	55 U	330	55	1	08/26/25 13:09	8/25/25	
2-Methylphenol	69 U	330	69	1	08/26/25 13:09	8/25/25	
2-Nitroaniline	78 U	1700	78	1	08/26/25 13:09	8/25/25	
2-Nitrophenol	77 U	330	77	1	08/26/25 13:09	8/25/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/26/25 13:09	8/25/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/26/25 13:09	8/25/25	
3-Nitroaniline	67 U	1700	67	1	08/26/25 13:09	8/25/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/26/25 13:09	8/25/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/26/25 13:09	8/25/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/26/25 13:09	8/25/25	
4-Chloroaniline	120 U	330	120	1	08/26/25 13:09	8/25/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511248-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	71 U	330	71	1	08/26/25 13:09	8/25/25	
4-Nitroaniline	71 U	1700	71	1	08/26/25 13:09	8/25/25	
4-Nitrophenol	170 U	1700	170	1	08/26/25 13:09	8/25/25	
Acetophenone	95 U	330	95	1	08/26/25 13:09	8/25/25	
Atrazine	98 U	330	98	1	08/26/25 13:09	8/25/25	
Benzaldehyde	80 U	1700	80	1	08/26/25 13:09	8/25/25	
Benzoic Acid	520 U	1700	520	1	08/26/25 13:09	8/25/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/26/25 13:09	8/25/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/26/25 13:09	8/25/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/26/25 13:09	8/25/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/26/25 13:09	8/25/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/26/25 13:09	8/25/25	
Caprolactam	73 U	330	73	1	08/26/25 13:09	8/25/25	
Carbazole	54 U	330	54	1	08/26/25 13:09	8/25/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/26/25 13:09	8/25/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/26/25 13:09	8/25/25	
Diethyl Phthalate	59 U	330	59	1	08/26/25 13:09	8/25/25	
Dimethyl Phthalate	63 U	330	63	1	08/26/25 13:09	8/25/25	
Hexachlorobenzene	79 U	330	79	1	08/26/25 13:09	8/25/25	
Hexachlorobutadiene	120 U	330	120	1	08/26/25 13:09	8/25/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/26/25 13:09	8/25/25	
Hexachloroethane	62 U	330	62	1	08/26/25 13:09	8/25/25	
Isophorone	69 U	330	69	1	08/26/25 13:09	8/25/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/26/25 13:09	8/25/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/26/25 13:09	8/25/25	
Nitrobenzene	59 U	330	59	1	08/26/25 13:09	8/25/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/26/25 13:09	8/25/25	
Phenol	67 U	330	67	1	08/26/25 13:09	8/25/25	
Pyridine	45 U	1700	45	1	08/26/25 13:09	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	60	18 - 104	08/26/25 13:09	
Nitrobenzene-d5	58	12 - 98	08/26/25 13:09	
p-Terphenyl-d14	92	26 - 134	08/26/25 13:09	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ2511248-02				Duplicate Lab Control Sample RQ2511248-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1-Methylnaphthalene	8270E	1710	3320	51	2040	3310	62	29-100	18	30
1,2,4,5-Tetrachlorobenzene	8270E	1740	3320	52	2130	3310	64	20-126	20	30
2-Methylnaphthalene	8270E	1620	3320	49	1950	3310	59	29-99	18	30
Acenaphthene	8270E	1970	3320	59	2430	3310	73	41-110	21	30
Acenaphthylene	8270E	2180	3320	66	2700	3310	81	44-122	21	30
Anthracene	8270E	2250	3320	68	2840	3310	86	41-123	23	30
Benz(a)anthracene	8270E	2330	3320	70	3020	3310	91	44-116	26	30
Benzo(a)pyrene	8270E	2640	3320	79	3380	3310	102	56-146	25	30
Benzo(b)fluoranthene	8270E	2200	3320	66	2840	3310	86	47-120	25	30
Benzo(g,h,i)perylene	8270E	2210	3320	67	2850	3310	86	41-129	25	30
Benzo(k)fluoranthene	8270E	2350	3320	71	3020	3310	91	49-124	25	30
1,4-Dichlorobenzene	8270E	1620	3320	49	1990	3310	60	16-83	20	30
Biphenyl	8270E	1810	3320	54	2190	3310	66	24-112	19	30
Chrysene	8270E	2350	3320	71	3060	3310	92	44-119	26	30
1,4-Dioxane	8270E	955	3320	29	1220	3310	37	10-58	24	30
Dibenz(a,h)anthracene	8270E	2340	3320	71	3030	3310	92	18-146	25	30
Dibenzofuran	8270E	2050	3320	62	2550	3310	77	43-113	22	30
Fluoranthene	8270E	2360	3320	71	2930	3310	89	39-128	22	30
Fluorene	8270E	2120	3320	64	2620	3310	79	40-117	21	30
Indeno(1,2,3-cd)pyrene	8270E	2450	3320	74	3180	3310	96	43-129	26	30
Naphthalene	8270E	1620	3320	49	1950	3310	59	31-93	18	30
Phenanthrene	8270E	2080	3320	63	2600	3310	79	39-120	22	30
Pyrene	8270E	2340	3320	70	2980	3310	90	45-125	24	30
2,3,4,6-Tetrachlorophenol	8270E	2490	3320	75	3230	3310	98	42-117	26	30
2,4,5-Trichlorophenol	8270E	2230	3320	67	2790	3310	84	40-114	23	30
2,4,6-Trichlorophenol	8270E	2070	3320	62	2620	3310	79	33-108	23	30
2,4-Dichlorophenol	8270E	1890	3320	57	2270	3310	69	30-103	18	30
2,4-Dimethylphenol	8270E	1860	3320	56	2260	3310	68	32-100	19	30
2,4-Dinitrophenol	8270E	1660 J	3320	50	2200	3310	66	10-97	28	30
2,4-Dinitrotoluene	8270E	2390	3320	72	3010	3310	91	53-120	23	30
2,6-Dinitrotoluene	8270E	2350	3320	71	2890	3310	87	48-119	21	30
2-Chloronaphthalene	8270E	1920	3320	58	2370	3310	72	33-103	21	30
2-Chlorophenol	8270E	1820	3320	55	2230	3310	67	26-90	20	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511248-02					Duplicate Lab Control Sample RQ2511248-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	2020	3320	61	2460	3310	74	33-99	20	30
2-Nitroaniline	8270E	2200	3320	66	2720	3310	82	41-119	22	30
2-Nitrophenol	8270E	1720	3320	52	2110	3310	64	24-98	20	30
3- and 4-Methylphenol Coelution	8270E	2100	3320	63	2580	3310	78	32-100	20	30
3-Nitroaniline	8270E	1890	3320	57	2400	3310	72	29-105	24	30
4,6-Dinitro-2-methylphenol	8270E	2280	3320	69	2890	3310	87	20-105	23	30
4-Bromophenyl Phenyl Ether	8270E	2290	3320	69	2860	3310	86	37-116	22	30
4-Chloro-3-methylphenol	8270E	2070	3320	62	2480	3310	75	40-116	18	30
4-Chloroaniline	8270E	1760	3320	53	2260	3310	68	10-87	25	30
4-Chlorophenyl Phenyl Ether	8270E	2090	3320	63	2590	3310	78	42-111	21	30
4-Nitroaniline	8270E	1900	3320	57	2390	3310	72	43-120	22	30
4-Nitrophenol	8270E	1840	3320	55	2340	3310	71	34-116	24	30
Acetophenone	8270E	1750	3320	53	2110	3310	64	23-87	18	30
Benzoic Acid	8270E	1760	3320	53	2300	3310	70	10-126	27	30
Bis(1-chloroisopropyl) Ether	8270E	1910	3320	58	2330	3310	70	22-99	20	30
Bis(2-chloroethoxy)methane	8270E	1920	3320	58	2290	3310	69	38-119	18	30
Bis(2-chloroethyl) Ether	8270E	1760	3320	53	2160	3310	65	23-94	21	30
Bis(2-ethylhexyl) Phthalate	8270E	2530	3320	76	3190	3310	96	38-139	23	30
Butyl Benzyl Phthalate	8270E	2480	3320	75	3140	3310	95	40-134	24	30
Caprolactam	8270E	1970	3320	59	2310	3310	70	21-128	16	30
Carbazole	8270E	2310	3320	70	2860	3310	86	42-131	21	30
Di-n-butyl Phthalate	8270E	2570	3320	77	3210	3310	97	42-141	22	30
Di-n-octyl Phthalate	8270E	2570	3320	77	3300	3310	100	38-143	25	30
Diethyl Phthalate	8270E	2260	3320	68	2810	3310	85	43-118	22	30
Dimethyl Phthalate	8270E	2260	3320	68	2810	3310	85	40-118	21	30
Hexachlorobenzene	8270E	2260	3320	68	2790	3310	84	35-122	21	30
Hexachlorobutadiene	8270E	1620	3320	49	1970	3310	60	28-96	20	30
Hexachlorocyclopentadiene	8270E	1860	3320	56	2330	3310	71	10-111	23	30
Hexachloroethane	8270E	1650	3320	50	2060	3310	62	18-85	22	30
Isophorone	8270E	1940	3320	58	2320	3310	70	39-104	18	30
N-Nitrosodi-n-propylamine	8270E	1890	3320	57	2330	3310	70	30-98	21	30
N-Nitrosodiphenylamine	8270E	2490	3320	75	3060	3310	92	43-130	21	30
Nitrobenzene	8270E	1730	3320	52	2090	3310	63	31-99	19	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 08/26/25

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis:Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount			
Pentachlorophenol (PCP)	8270E	2000	3320	60	2550	3310	36-138	24	30
Phenol	8270E	1900	3320	57	2330	3310	31-100	20	30
Pyridine	8270E	2750	6640	41	3520	6620	12-80	24	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
8070 SB01 (1-2)	R2510166-001	68	51
8070 SB02 (3-4)	R2510166-002	52	33
8070 SB03 (5-6)	R2510166-003	70	44
Method Blank	RQ2511247-01	78	34
Lab Control Sample	RQ2511247-02	81	46
Duplicate Lab Control Sample	RQ2511247-03	78	42

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511247-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
4,4'-DDE	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
4,4'-DDT	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Aldrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Chlordane	4.2 U	8.3	4.2	1	09/08/25 21:38	8/25/25	
Dieldrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan I	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan II	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Endrin Ketone	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Heptachlor	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Methoxychlor	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
Toxaphene	19 U	33	19	1	09/08/25 21:38	8/25/25	
alpha-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
beta-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
delta-BHC	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	09/08/25 21:38	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 159	09/08/25 21:38	
Tetrachloro-m-xylene	34	10 - 132	09/08/25 21:38	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 09/08/25

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511247-02					Duplicate Lab Control Sample RQ2511247-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	5.27	6.62	80	5.47	6.61	83	48-121	4	30
4,4'-DDE	8081B	4.82	6.62	73	4.99	6.61	75	51-119	3	30
4,4'-DDT	8081B	5.80	6.62	88	5.66	6.61	86	51-126	2	30
Aldrin	8081B	4.02	6.62	61	4.07	6.61	62	45-109	1	30
Dieldrin	8081B	4.72	6.62	71	4.98	6.61	75	56-111	5	30
Endosulfan I	8081B	4.13	6.62	62	4.48	6.61	68	54-109	8	30
Endosulfan II	8081B	4.83	6.62	73	4.93	6.61	75	50-116	2	30
Endosulfan Sulfate	8081B	4.97	6.62	75	5.05	6.61	76	55-115	2	30
Endrin	8081B	4.91	6.62	74	5.11	6.61	77	49-124	4	30
Endrin Aldehyde	8081B	4.36	6.62	66	4.99	6.61	75	21-139	14	30
Endrin Ketone	8081B	5.56	6.62	84	5.56	6.61	84	50-124	<1	30
Heptachlor	8081B	4.20	6.62	64	4.26	6.61	64	43-115	1	30
Heptachlor Epoxide	8081B	4.60	6.62	69	4.94	6.61	75	53-113	7	30
Methoxychlor	8081B	6.09	6.62	92	6.42	6.61	97	47-141	5	30
alpha-BHC	8081B	3.91	6.62	59	3.86	6.61	58	44-109	1	30
alpha-Chlordane	8081B	4.64	6.62	70	4.76	6.61	72	52-114	3	30
beta-BHC	8081B	4.80	6.62	73	4.83	6.61	73	49-119	<1	30
delta-BHC	8081B	4.83	6.62	73	5.07	6.61	77	49-113	5	30
gamma-BHC (Lindane)	8081B	3.96	6.62	60	3.98	6.61	60	43-112	<1	30
gamma-Chlordane	8081B	4.75	6.62	72	4.87	6.61	74	51-117	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
8070 SB01 (1-2)	R2510166-001	66	44
8070 SB02 (3-4)	R2510166-002	49	34
8070 SB03 (5-6)	R2510166-003	64	46
Method Blank	RQ2511247-01	70	32
Lab Control Sample	RQ2511247-04	79	44
Duplicate Lab Control Sample	RQ2511247-05	78	43

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511247-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1221	26 U	67	26	1	08/29/25 21:32	8/25/25	
Aroclor 1232	19 U	33	19	1	08/29/25 21:32	8/25/25	
Aroclor 1242	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1248	18 U	33	18	1	08/29/25 21:32	8/25/25	
Aroclor 1254	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1260	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1262	17 U	33	17	1	08/29/25 21:32	8/25/25	
Aroclor 1268	17 U	33	17	1	08/29/25 21:32	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 138	08/29/25 21:32	
Tetrachloro-m-xylene	32	11 - 122	08/29/25 21:32	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 08/29/25

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Units:ug/Kg
Basis:Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2511247-04			RQ2511247-05				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	109	165	66	110	167	66	34-141	<1	30
Aroclor 1260	8082A	138	165	83	133	167	80	30-158	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
8070 SB01 (1-2)	R2510166-001	46
8070 SB02 (3-4)	R2510166-002	49
8070 SB03 (5-6)	R2510166-003	72
Method Blank	RQ2511443-01	53
Lab Control Sample	RQ2511443-02	45
Duplicate Lab Control Sample	RQ2511443-03	41

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511443-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.0 U	10	5.0	1	09/03/25 21:28	8/27/25	
2,4,5-TP	4.5 U	10	4.5	1	09/03/25 21:28	8/27/25	
2,4-D	6.5 U	10	6.5	1	09/03/25 21:28	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	53	10 - 151	09/03/25 21:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 8070_Wisner
Sample Matrix: Soil

Service Request: R2510166
Date Analyzed: 09/03/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511443-02

Duplicate Lab Control Sample
RQ2511443-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	17.5	24.9	70	16.2	25.0	65	19-127	7	30
2,4,5-TP	8151A	15.1	24.9	60	14.2	25.0	57	18-122	6	30
2,4-D	8151A	13.2	24.9	53	11.8	25.0	47	31-119	11	30



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CERTIFICATE OF ANALYSIS

Work Order

HN2514808

Client

The Mannik & Smith Group, Inc.

Project

DETR0060

Project Date

October 03, 2025

Reporting Contact

Ryan Montri



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right partner.

October 15, 2025

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

Re: **DETR0060**

Date Received: **10/03/2025**

Work Order: **HN2514808**

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/ **ALEX CSASZAR** on behalf of PM listed above

Project Manager



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

Work Order: HN2514808
Date Received: 08-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 08-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: HN2514808

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514808-001	8070 Wisner SB02 TCLP	SOIL/SOLID	10/07/25 14:35	10/08/25 07:00



ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/8/25 0700

Carrier Name: QS

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

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

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

Chain of Custody present? (Yes) No

COC signed when relinquished and received? (Yes) No

COC agrees with sample labels? (Yes) No

Samples in proper container/bottle? (Yes) No

Sample containers intact? (Yes) No

Sufficient sample volume for indicated test? (Yes) No

All samples received within holding time? (Yes) No

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

Temperature(s) (°C): 1.5/1.5c

Thermometer(s): 127

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

Matrix/Matrices: soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/8/25 11:09

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: DETR0060

Work Order: HN2514808

Sample Name: 8070 Wisner SB02 TCLP
Laboratory Code: HN2514808-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/07/25
Date Received: 10/08/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2272800	Nicolee Allen	3586409	Hunter Johnson

Analytical Report



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

Work Order: HN2514808
Date Collected: 10/07/25 14:35
Date Received: 10/08/25 07:00

CLIENT ID: 8070 Wisner SB02 TCLP	Lab ID: HN2514808-001
---	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/14/25 18:29	10/12/25 09:34

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2272800

Work Order: HN2514808
Date Collected: NA
Date Received: NA
Run ID: 3584478

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2272800-001
-----------	--------------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:50
Prep Date: 10/12/25 09:35

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2272800-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:52
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.926	mg/L	0.0499	1		92.6	80-120			

MS	CLIENT ID: Batch QC	Lab ID: QC-2272800-004
-----------	----------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:55
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.926	mg/L	0.0499	1	ND	92.6	75-125			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2272800-005
------------	----------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:57
Prep Date: 10/12/25 09:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	0.913	mg/L	0.0499	1	ND	91.3	75-125	1.38	20	

The following samples were analyzed in this batch: HN2514808-001



right solutions.
right partner.

October 20, 2025

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

Re: **DETR0060**

Date Received: **10/08/2025**
Work Order: **HN2514808**
Revision: **1**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Dale Schipper

/S/ **DALE SCHIPPER**

Project Manager



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

Work Order: HN2514808
Date Received: 08-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 08-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: HN2514808

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2514808-001	8070 Wisner SB02 TCLP	SOIL/SOLID	10/07/25 14:35	10/08/25 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: HN2514808
Date Collected: 10/07/25 14:35
Date Received: 10/08/25 07:00

CLIENT ID: 8070 Wisner SB02 TCLP **Lab ID: HN2514808-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/14/25 18:29	10/12/25 09:34
Chromium	EPA 6020B	ND		mg/L	0.0499	1	10/14/25 18:29	10/12/25 09:34

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2272800

Work Order: HN2514808
Date Collected: NA
Date Received: NA
Run ID: 3584478

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2272800-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:50
Prep Date: 10/12/25 09:35

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Spike Amount</u>	<u>Spike Ref. Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Qual</u>
Arsenic	ND	mg/L	0.0499							

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2272800-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/13/25 22:52
Prep Date: 10/12/25 09:35

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Spike Amount</u>	<u>Spike Ref. Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Qual</u>
Arsenic	0.926	mg/L	0.0499	1		92.6	80-120			

The following samples were analyzed in this batch: HN2514808-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2272800

Work Order: HN2514808
Date Collected: NA
Date Received: NA
Run ID: 3586409

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2272800-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/14/25 18:14
Prep Date: 10/12/25 09:35

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2272800-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/14/25 18:16
Prep Date: 10/12/25 09:35

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Spike Amount</u>	<u>Spike Ref. Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>	<u>Qual</u>
Chromium	0.932	mg/L	0.0499	1		93.2	80-120			

The following samples were analyzed in this batch: HN2514808-001

ANALYST SUMMARY



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

Work Order: HN2514808

Sample Name: 8070 Wisner SB02 TCLP
Laboratory Code: HN2514808-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/07/25
Date Received: 10/08/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2272800	Nicolee Allen	3586409	Denise Coffey



ALS Holland Sample Receiving Checklist

Received by: Brittany H

Date/Time: 10/8/25 0700

Carrier Name: QS

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

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

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

Chain of Custody present? (Yes) No

COC signed when relinquished and received? (Yes) No

COC agrees with sample labels? (Yes) No

Samples in proper container/bottle? (Yes) No

Sample containers intact? (Yes) No

Sufficient sample volume for indicated test? (Yes) No

All samples received within holding time? (Yes) No

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

Temperature(s) (°C): 1.5/1.5c

Thermometer(s): 127

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

Matrix/Matrices: soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/8/25 11:09

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:



right solutions.
right partner.

November 07, 2025

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

Re: **DETR0060 - 8070 Wisner**

Date Received: **10/29/2025**

Work Order: **HN2516145**

Dear Ryan,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner

Work Order: HN2516145
Date Received: 29-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 29-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.

Organics

EPA 8270E-FULL HN-3546-S

Run ID: 3667671

The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Atrazine
HN2516145-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

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: 8070 Wisner SB02(3-4')-R

Lab ID: HN2516145-001

Analyte	Results	Flag	MRL	Units	Method
2-Methylnaphthalene	209		174	µg/kg	EPA 8270E
Benzo(a)anthracene	244		174	µg/kg	EPA 8270E
Benzo(a)pyrene	244		174	µg/kg	EPA 8270E
Benzo(b)fluoranthene	244		174	µg/kg	EPA 8270E
Fluoranthene	209		174	µg/kg	EPA 8270E
Percent Moisture	9.7		0.1	%	EPA 3550C
Pyrene	435		174	µg/kg	EPA 8270E

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Workorder: HN2516145

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516145-001	8070 Wisner SB02(3-4')-R	SOIL/SOLID	10/28/25 11:28	10/29/25 08:00



ALS Environmental

Laboratory location:

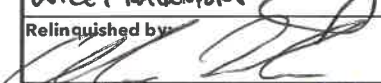
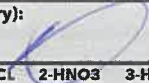
Chain of Custody Form

Page 1 of 1

Customer Information			Project Information				Parameter/Method Request for Analysis														
Purchase Order		Project Name	8070 Wisner				A	SVOCs (U.S. EPA Method 8270D (or Method 8270))													
Work Order		Project Number	DETR0060				B														
Company Name	The Mannik and Smith Group		Bill To Company	The Mannik and Smith Group				C													
Send Report To	Ryan Montri		Invoice Attn.					D													
Address	2365 Haggerty Rd South Suite 100		Address	2365 Haggerty Rd South Suite 100				E													
								F													
City/State/Zip	Canton, MI 48188		City/State/Zip	Canton, MI 48188				G													
Phone	734-397-3100		Phone	734-397-3100				H													
Fax			Fax					I													
e-Mail Address	RMontri@manniksmithgroup.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	8070 Wisner SB02(3-4')-R	10/28/25	1128	Soil	None	1	X														
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Environmental Division
Holland
Work Order Reference
HN2516145

Telephone : +1 616 399 6070

Sampler(s): Please Print & Sign WILEY DAVENPORT		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☒ Other: 72 hrs				Results Due Date:		
Relinquished by: WILEY DAVENPORT	Date: 10/28/25	Time: 1617	Received by: 		Notes: Quote# HN-061825-M&S-MA					
Relinquished by: 	Date: 10/28	Time: 1617	Received by (Laboratory): Q5		Cooler Temp. 3.4 2/6		QC Package: (Check Box Below)			
Logged by (Laboratory): 	Date: 10-29-25	Time: 800	Checked by (Laboratory):				Level II: Standard QC		TRRP-Checklist	
							Level III: Std QC + Raw Data		TRRP Level IV	
							Level IV: SW846 CLP-Like			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							Other:			

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

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

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

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ALS Holland
3352 128th Ave., Holland MI 49424

ALS Holland Sample Receiving Checklist

Received by: _____

Date/Time: _____

Carrier Name: _____

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): _____

Thermometer(s): _____

Sample(s) received on ice?

Yes / No

Matrix/Matrices: _____

Cooler(s)/Kit(s): _____

Date/Time sample(s) sent to storage: _____

Water – VOA vials have zero headspace?

Yes / No / No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

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

pH adjusted (note adjustments below)?

Yes / No / N/A

pH adjusted by: _____

Login Notes:

HN-SHT-160-R01, Sample Receipt Checklist

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the 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: DETR0060 - 8070 Wisner

Work Order: HN2516145

Sample Name: 8070 Wisner SB02(3-4')-R
Laboratory Code: HN2516145-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/28/25
Date Received: 10/29/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2305586		3636414	Nicole Maleski
EPA 8270E	EPA 3546	001-AA	2319451	Willow Julien	3667671	Sam Bruzan

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID

Work Order: HN2516145
Date Collected: 10/28/25 11:28
Date Received: 10/29/25 08:00

CLIENT ID: 8070 Wisner SB02(3-4')-R

Lab ID: HN2516145-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	9.7		%	0.1	1	10/29/25 13:57	NA
Semivolatile Organic Compounds by GC-MS								
1,1'-Biphenyl (BZ-0)	EPA 8270E	<141	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<201	U	µg/kg	8700	10	11/06/25 21:26	11/05/25 12:25
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<624	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
1-Methylnaphthalene	EPA 8270E	<125	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<204	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,3,4,6-Tetrachlorophenol	EPA 8270E	<638	U	µg/kg	1740	10	11/06/25 21:26	11/05/25 12:25
2,4,5-Trichlorophenol	EPA 8270E	<516	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,4,6-Trichlorophenol	EPA 8270E	<232	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,4-Dichlorophenol	EPA 8270E	<469	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,4-Dimethylphenol	EPA 8270E	<448	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,4-Dinitrophenol	EPA 8270E	<6370	U	µg/kg	8700	10	11/06/25 21:26	11/05/25 12:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<566	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<222	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2-Chloronaphthalene	EPA 8270E	<122	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
2-Chlorophenol	EPA 8270E	<570	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<727	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2-Methylnaphthalene	EPA 8270E	209		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
2-Methylphenol (o-Cresol)	EPA 8270E	<235	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2-Nitroaniline	EPA 8270E	<484	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
2-Nitrophenol	EPA 8270E	<248	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
3&4-Methylphenol	EPA 8270E	<475	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
3,3'-Dichlorobenzidine	EPA 8270E	<407	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
3-Nitroaniline	EPA 8270E	<506	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<477	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID

Work Order: HN2516145
Date Collected: 10/28/25 11:28
Date Received: 10/29/25 08:00

CLIENT ID: 8070 Wisner SB02(3-4')-R	Lab ID: HN2516145-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<248	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
4-Chloroaniline	EPA 8270E	<443	U	µg/kg	1740	10	11/06/25 21:26	11/05/25 12:25
4-Chlorophenyl phenylether	EPA 8270E	<241	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
4-Nitroaniline	EPA 8270E	<1350	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
4-Nitrophenol	EPA 8270E	<2040	U	µg/kg	8700	10	11/06/25 21:26	11/05/25 12:25
Acenaphthene	EPA 8270E	<126	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Acenaphthylene	EPA 8270E	<151	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Acetophenone	EPA 8270E	<136	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Anthracene	EPA 8270E	<123	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Atrazine	EPA 8270E	<510	SU	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Benzaldehyde	EPA 8270E	<1340	U	µg/kg	1740	10	11/06/25 21:26	11/05/25 12:25
Benzo(a)anthracene	EPA 8270E	244		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Benzo(a)pyrene	EPA 8270E	244		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Benzo(b)fluoranthene	EPA 8270E	244		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Benzo(g,h,i)perylene	EPA 8270E	<134	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Benzo(k)fluoranthene	EPA 8270E	<132	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
bis(2-Chloroethoxy) methane	EPA 8270E	<552	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
bis(2-Chloroethyl) ether	EPA 8270E	<247	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Butyl benzyl phthalate	EPA 8270E	<1090	U	µg/kg	1740	10	11/06/25 21:26	11/05/25 12:25
Caprolactam	EPA 8270E	<786	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Carbazole	EPA 8270E	<257	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Chrysene	EPA 8270E	<141	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<720	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Dibenz(a,h) anthracene	EPA 8270E	<94.1	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Dibenzofuran	EPA 8270E	<128	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Diethyl phthalate	EPA 8270E	<296	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Dimethyl phthalate	EPA 8270E	<170	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Fluoranthene	EPA 8270E	209		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Fluorene	EPA 8270E	<126	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Hexachlorobenzene	EPA 8270E	<253	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID

Work Order: HN2516145
Date Collected: 10/28/25 11:28
Date Received: 10/29/25 08:00

CLIENT ID: 8070 Wisner SB02(3-4')-R **Lab ID: HN2516145-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<205	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Hexachlorocyclopentadiene	EPA 8270E	<826	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Hexachloroethane	EPA 8270E	<361	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Indeno(1,2,3-cd) pyrene	EPA 8270E	<121	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Isophorone	EPA 8270E	<170	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
Methylphenol, Total	EPA 8270E	<235	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Naphthalene	EPA 8270E	<111	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Nitrobenzene	EPA 8270E	<293	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
n-Nitrosodi-n-propylamine	EPA 8270E	<144	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
N-Nitrosodiphenylamine	EPA 8270E	<504	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Pentachlorophenol	EPA 8270E	<692	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Phenanthrene	EPA 8270E	<81.0	U	µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Phenol	EPA 8270E	<437	U	µg/kg	862	10	11/06/25 21:26	11/05/25 12:25
Pyrene	EPA 8270E	435		µg/kg	174	10	11/06/25 21:26	11/05/25 12:25
Pyridine	EPA 8270E	<1710	U	µg/kg	4350	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	54.8		%REC	48-94	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	66.0		%REC	50-103	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	60.6		%REC	43-105	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	68.6		%REC	55-111	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	60.2		%REC	47-100	10	11/06/25 21:26	11/05/25 12:25
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	54.4		%REC	49-110	10	11/06/25 21:26	11/05/25 12:25



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2305586

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3636414

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2305586-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/29/25 13:57
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	<0.1	%	0.1	0		NC	0-0			U

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305586-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/29/25 13:57
Prep Date: NA

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

DUP	CLIENT ID: Batch QC	Lab ID: QC-2305586-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/29/25 13:57
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	18.3	%	0.1	0	17.3	NC	0-0	6.01	10	

The following samples were analyzed in this batch: HN2516145-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

Semivolatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 12:42

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	<5.41	µg/kg	33.0	0		NC	0-0			U
1,2,4,5-Tetrachlorobenzene	<7.69	µg/kg	333	0		NC	0-0			U
1,4-Dioxane (1,4- Diethyleneoxide)	<23.9	µg/kg	167	0		NC	0-0			U
1-Methylnaphthalene	<4.80	µg/kg	6.67	0		NC	0-0			U
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<7.81	µg/kg	33.0	0		NC	0-0			U
2,3,4,6-Tetrachlorophenol	<24.4	µg/kg	67.0	0		NC	0-0			U
2,4,5-Trichlorophenol	<19.8	µg/kg	33.0	0		NC	0-0			U
2,4,6-Trichlorophenol	<8.87	µg/kg	33.0	0		NC	0-0			U
2,4-Dichlorophenol	<17.9	µg/kg	33.0	0		NC	0-0			U
2,4-Dimethylphenol	<17.1	µg/kg	33.0	0		NC	0-0			U
2,4-Dinitrophenol	<244	µg/kg	333	0		NC	0-0			U
2,4-Dinitrotoluene (2,4-DNT)	<21.6	µg/kg	33.0	0		NC	0-0			U
2,6-Dinitrotoluene (2,6-DNT)	<8.51	µg/kg	33.0	0		NC	0-0			U
2-Chloronaphthalene	<4.66	µg/kg	6.67	0		NC	0-0			U
2-Chlorophenol	<21.8	µg/kg	33.0	0		NC	0-0			U
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<27.8	µg/kg	33.0	0		NC	0-0			U
2-Methylnaphthalene	<3.39	µg/kg	6.67	0		NC	0-0			U
2-Methylphenol (o-Cresol)	<9.01	µg/kg	33.0	0		NC	0-0			U
2-Nitroaniline	<18.5	µg/kg	33.0	0		NC	0-0			U
2-Nitrophenol	<9.50	µg/kg	33.0	0		NC	0-0			U
3&4-Methylphenol	<18.2	µg/kg	33.0	0		NC	0-0			U
3,3'-Dichlorobenzidine	<15.6	µg/kg	167	0		NC	0-0			U
3-Nitroaniline	<19.4	µg/kg	33.0	0		NC	0-0			U
4-Bromophenyl phenyl ether (BDE-3)	<18.3	µg/kg	33.0	0		NC	0-0			U
4-Chloro-3-methylphenol	<9.50	µg/kg	33.0	0		NC	0-0			U
4-Chloroaniline	<16.9	µg/kg	67.0	0		NC	0-0			U
4-Chlorophenyl phenylether	<9.21	µg/kg	33.0	0		NC	0-0			U
4-Nitroaniline	<51.7	µg/kg	167	0		NC	0-0			U
4-Nitrophenol	<78.1	µg/kg	333	0		NC	0-0			U
Acenaphthene	<4.82	µg/kg	6.67	0		NC	0-0			U
Acenaphthylene	<5.78	µg/kg	6.67	0		NC	0-0			U
Acetophenone	<5.22	µg/kg	33.0	0		NC	0-0			U
Anthracene	<4.70	µg/kg	6.67	0		NC	0-0			U
Atrazine	<19.5	µg/kg	33.0	0		NC	0-0			U
Benzaldehyde	<51.2	µg/kg	67.0	0		NC	0-0			U
Benzo(a)anthracene	<5.76	µg/kg	6.67	0		NC	0-0			U
Benzo(a)pyrene	<4.09	µg/kg	6.67	0		NC	0-0			U
Benzo(b)fluoranthene	<4.97	µg/kg	6.67	0		NC	0-0			U
Benzo(g,h,i)perylene	<5.11	µg/kg	6.67	0		NC	0-0			U
Benzo(k)fluoranthene	<5.05	µg/kg	6.67	0		NC	0-0			U
bis(2-Chloroethoxy)methane	<21.1	µg/kg	33.0	0		NC	0-0			U
bis(2-Chloroethyl) ether	<9.44	µg/kg	33.0	0		NC	0-0			U



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

MB	CLIENT ID: Method Blank	Lab ID: QC-2319451-001
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 12:42

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Butyl benzyl phthalate	<41.7	µg/kg	67.0	0		NC	0-0			U
Caprolactam	<30.1	µg/kg	33.0	0		NC	0-0			U
Carbazole	<9.82	µg/kg	33.0	0		NC	0-0			U
Chrysene	<5.39	µg/kg	6.67	0		NC	0-0			U
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<27.6	µg/kg	33.0	0		NC	0-0			U
Dibenz(a,h) anthracene	<3.60	µg/kg	33.0	0		NC	0-0			U
Dibenzofuran	<4.90	µg/kg	33.0	0		NC	0-0			U
Diethyl phthalate	<11.3	µg/kg	33.0	0		NC	0-0			U
Dimethyl phthalate	<6.50	µg/kg	33.0	0		NC	0-0			U
Fluoranthene	<3.20	µg/kg	6.67	0		NC	0-0			U
Fluorene	<4.84	µg/kg	6.67	0		NC	0-0			U
Hexachlorobenzene	<9.70	µg/kg	33.0	0		NC	0-0			U
Hexachlorobutadiene	<7.85	µg/kg	33.0	0		NC	0-0			U
Hexachlorocyclopentadiene	<31.6	µg/kg	33.0	0		NC	0-0			U
Hexachloroethane	<13.8	µg/kg	33.0	0		NC	0-0			U
Indeno(1,2,3-cd) pyrene	<4.64	µg/kg	6.67	0		NC	0-0			U
Isophorone	<6.51	µg/kg	167	0		NC	0-0			U
Methylphenol, Total	<9.01	µg/kg	67.0	0		NC	0-0			U
Naphthalene	<4.26	µg/kg	6.67	0		NC	0-0			U
Nitrobenzene	<11.2	µg/kg	167	0		NC	0-0			U
n-Nitrosodi-n-propylamine	<5.50	µg/kg	33.0	0		NC	0-0			U
N-Nitrosodiphenylamine	<19.3	µg/kg	33.0	0		NC	0-0			U
Pentachlorophenol	<26.5	µg/kg	33.0	0		NC	0-0			U
Phenanthrene	<3.10	µg/kg	6.67	0		NC	0-0			U
Phenol	<16.7	µg/kg	33.0	0		NC	0-0			U
Pyrene	<3.33	µg/kg	6.67	0		NC	0-0			U
Pyridine	<65.6	µg/kg	167	0		NC	0-0			U
Surr: 2,4,6-Tribromophenol	2410	µg/kg		3333		72.4	48-94			
Surr: 2-Fluorobiphenyl	2480	µg/kg		3333		74.4	50-103			
Surr: 2-Fluorophenol	2600	µg/kg		3333		77.9	43-105			
Surr: 4-Terphenyl-d14	2530	µg/kg		3333		76.0	55-111			
Surr: Nitrobenzene-d5	2160	µg/kg		3333		64.7	47-100			
Surr: Phenol-d6	2500	µg/kg		3333		74.9	49-110			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	981	µg/kg	33.0	1333		73.6	57-101			
1,2,4,5-Tetrachlorobenzene	971	µg/kg	333	1333		72.8	54-98			
1-Methylnaphthalene	971	µg/kg	6.67	1333		72.8	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	948	µg/kg	33.0	1333		71.1	50-101			
2,3,4,6-Tetrachlorophenol	1070	µg/kg	67.0	1333		80.1	48-103			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 13:03

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1010	µg/kg	33.0	1333		75.9	54-98			
2,4,6-Trichlorophenol	988	µg/kg	33.0	1333		74.1	56-97			
2,4-Dichlorophenol	929	µg/kg	33.0	1333		69.7	54-99			
2,4-Dimethylphenol	1010	µg/kg	33.0	1333		76.0	47-102			
2,4-Dinitrophenol	850	µg/kg	333	1333		63.8	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1020	µg/kg	33.0	1333		76.8	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1010	µg/kg	33.0	1333		75.4	62-103			
2-Chloronaphthalene	957	µg/kg	6.67	1333		71.8	57-101			
2-Chlorophenol	973	µg/kg	33.0	1333		73.0	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	967	µg/kg	33.0	1333		72.5	42-104			
2-Methylnaphthalene	955	µg/kg	6.67	1333		71.6	55-102			
2-Methylphenol (o-Cresol)	994	µg/kg	33.0	1333		74.6	54-103			
2-Nitroaniline	963	µg/kg	33.0	1333		72.2	57-103			
2-Nitrophenol	976	µg/kg	33.0	1333		73.2	52-102			
3&4-Methylphenol	960	µg/kg	33.0	1333		72.0	56-103			
3,3'-Dichlorobenzidine	773	µg/kg	167	1333		58.0	41-91			
3-Nitroaniline	737	µg/kg	33.0	1333		55.3	35-107			
4-Bromophenyl phenyl ether (BDE-3)	987	µg/kg	33.0	1333		74.0	63-104			
4-Chloro-3-methylphenol	986	µg/kg	33.0	1333		74.0	57-103			
4-Chloroaniline	1000	µg/kg	67.0	1333		75.0	32-99			
4-Chlorophenyl phenylether	1010	µg/kg	33.0	1333		75.7	62-100			
4-Nitroaniline	689	µg/kg	167	1333		51.7	19-124			
4-Nitrophenol	1030	µg/kg	333	1333		77.0	44-106			
Acenaphthene	972	µg/kg	6.67	1333		72.9	60-101			
Acenaphthylene	999	µg/kg	6.67	1333		75.0	59-101			
Acetophenone	948	µg/kg	33.0	1333		71.1	54-102			
Anthracene	997	µg/kg	6.67	1333		74.8	63-96			
Atrazine	1890	µg/kg	33.0	1333		142	60-110			S
Benzaldehyde	371	µg/kg	67.0	1333		27.8	10-143			
Benzo(a)anthracene	1030	µg/kg	6.67	1333		77.3	66-102			
Benzo(a)pyrene	1040	µg/kg	6.67	1333		78.3	66-105			
Benzo(b)fluoranthene	1030	µg/kg	6.67	1333		77.5	67-105			
Benzo(g,h,i)perylene	1030	µg/kg	6.67	1333		77.2	59-110			
Benzo(k)fluoranthene	1040	µg/kg	6.67	1333		78.0	68-106			
bis(2-Chloroethoxy)methane	948	µg/kg	33.0	1333		71.1	54-102			
bis(2-Chloroethyl) ether	953	µg/kg	33.0	1333		71.5	51-101			
Butyl benzyl phthalate	1010	µg/kg	67.0	1333		75.5	59-107			
Caprolactam	921	µg/kg	33.0	1333		69.1	49-103			
Carbazole	989	µg/kg	33.0	1333		74.2	63-103			
Chrysene	1000	µg/kg	6.67	1333		75.2	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1030	µg/kg	33.0	1333		77.6	63-101			
Dibenz(a,h) anthracene	1040	µg/kg	33.0	1333		78.2	61-109			
Dibenzofuran	1000	µg/kg	33.0	1333		75.0	61-101			
Diethyl phthalate	1010	µg/kg	33.0	1333		75.7	63-105			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2319451-002
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 13:03**Prep Date:** 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Dimethyl phthalate	1000	µg/kg	33.0	1333		75.0	64-104			
Fluoranthene	1010	µg/kg	6.67	1333		75.7	66-105			
Fluorene	1000	µg/kg	6.67	1333		75.1	62-101			
Hexachlorobenzene	989	µg/kg	33.0	1333		74.2	61-104			
Hexachlorobutadiene	972	µg/kg	33.0	1333		72.9	52-99			
Hexachlorocyclopentadiene	800	µg/kg	33.0	1333		60.0	39-106			
Hexachloroethane	981	µg/kg	33.0	1333		73.6	59-99			
Indeno(1,2,3-cd) pyrene	1150	µg/kg	6.67	1333		86.0	57-114			
Isophorone	942	µg/kg	167	1333		70.7	55-101			
Methylphenol, Total	1950	µg/kg	67.0	2667		73.3	54-103			
Naphthalene	974	µg/kg	6.67	1333		73.1	54-99			
Nitrobenzene	925	µg/kg	167	1333		69.4	53-100			
n-Nitrosodi-n-propylamine	955	µg/kg	33.0	1333		71.6	52-104			
N-Nitrosodiphenylamine	981	µg/kg	33.0	1333		73.6	61-104			
Pentachlorophenol	993	µg/kg	33.0	1333		74.5	35-100			
Phenanthrene	998	µg/kg	6.67	1333		74.9	64-101			
Phenol	922	µg/kg	33.0	1333		69.2	51-107			
Pyrene	1040	µg/kg	6.67	1333		77.7	62-114			
Pyridine	797	µg/kg	167	1333		59.8	40-84			
Surr: 2,4,6-Tribromophenol	2480	µg/kg		3333		74.4	48-94			
Surr: 2-Fluorobiphenyl	2320	µg/kg		3333		69.7	50-103			
Surr: 2-Fluorophenol	2330	µg/kg		3333		69.8	43-105			
Surr: 4-Terphenyl-d14	2410	µg/kg		3333		72.2	55-111			
Surr: Nitrobenzene-d5	2120	µg/kg		3333		63.7	47-100			
Surr: Phenol-d6	2300	µg/kg		3333		69.1	49-110			

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E**Dilution:** 1**Analysis Date:** 11/06/25 14:06**Prep Date:** 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	995	µg/kg	34.4	1308.5	<5.41	75.7	57-101			
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	347	1308.5	<7.69	76.8	54-98			
1-Methylnaphthalene	1020	µg/kg	6.94	1308.5	<4.80	77.7	56-100			
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	967	µg/kg	34.4	1308.5	<7.81	73.9	50-101			
2,3,4,6-Tetrachlorophenol	1050	µg/kg	69.4	1308.5	<24.4	80.1	48-103			
2,4,5-Trichlorophenol	1030	µg/kg	34.4	1308.5	<19.8	79.0	54-98			
2,4,6-Trichlorophenol	1110	µg/kg	34.4	1308.5	<8.87	84.9	56-97			
2,4-Dichlorophenol	971	µg/kg	34.4	1308.5	<17.9	74.2	54-99			
2,4-Dimethylphenol	1020	µg/kg	34.4	1308.5	<17.1	77.9	47-102			
2,4-Dinitrophenol	382	µg/kg	347	1308.5	<244	29.2	10-100			
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.4	1308.5	<21.6	81.3	62-105			
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.4	1308.5	<8.51	80.1	62-103			
2-Chloronaphthalene	1020	µg/kg	6.94	1308.5	<4.66	77.9	57-101			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS	CLIENT ID: Batch QC	Lab ID: QC-2319451-005
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:06

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2-Chlorophenol	971	µg/kg	34.4	1308.5	<21.8	74.2	52-102			
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	917	µg/kg	34.4	1308.5	<27.8	70.1	42-104			
2-Methylnaphthalene	974	µg/kg	6.94	1308.5	<3.39	74.4	55-102			
2-Methylphenol (o-Cresol)	995	µg/kg	34.4	1308.5	<9.01	76.1	54-103			
2-Nitroaniline	1010	µg/kg	34.4	1308.5	<18.5	77.2	57-103			
2-Nitrophenol	1020	µg/kg	34.4	1308.5	<9.50	77.6	52-102			
3&4-Methylphenol	978	µg/kg	34.4	1308.5	<18.2	74.8	56-103			
3,3'-Dichlorobenzidine	861	µg/kg	174	1308.5	<15.6	65.8	41-91			
3-Nitroaniline	739	µg/kg	34.4	1308.5	<19.4	56.5	35-107			
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.4	1308.5	<18.3	78.3	63-104			
4-Chloro-3-methylphenol	1000	µg/kg	34.4	1308.5	<9.50	76.6	57-103			
4-Chloroaniline	1010	µg/kg	69.4	1308.5	<16.9	76.9	32-99			
4-Chlorophenyl phenylether	1050	µg/kg	34.4	1308.5	<9.21	80.5	62-100			
4-Nitroaniline	589	µg/kg	174	1308.5	<51.7	45.0	19-124			
4-Nitrophenol	1090	µg/kg	347	1308.5	<78.1	83.0	44-106			
Acenaphthene	1020	µg/kg	6.94	1308.5	<4.82	77.8	60-101			
Acenaphthylene	1030	µg/kg	6.94	1308.5	<5.78	79.0	59-101			
Acetophenone	946	µg/kg	34.4	1308.5	<5.22	72.3	54-102			
Anthracene	1030	µg/kg	6.94	1308.5	<4.70	78.9	63-96			
Atrazine	<19.5	µg/kg	34.4	1308.5	<19.5	0.00	60-110			SU
Benzaldehyde	350	µg/kg	69.4	1308.5	<51.2	26.8	10-143			
Benzo(a)anthracene	1050	µg/kg	6.94	1308.5	<5.76	80.2	66-102			
Benzo(a)pyrene	1080	µg/kg	6.94	1308.5	<4.09	82.9	66-105			
Benzo(b)fluoranthene	1090	µg/kg	6.94	1308.5	<4.97	83.1	67-105			
Benzo(g,h,i)perylene	1070	µg/kg	6.94	1308.5	<5.11	82.0	59-110			
Benzo(k)fluoranthene	1080	µg/kg	6.94	1308.5	<5.05	82.2	68-106			
bis(2-Chloroethoxy)methane	967	µg/kg	34.4	1308.5	<21.1	73.9	54-102			
bis(2-Chloroethyl) ether	965	µg/kg	34.4	1308.5	<9.44	73.7	51-101			
Butyl benzyl phthalate	1050	µg/kg	69.4	1308.5	<41.7	80.3	59-107			
Caprolactam	973	µg/kg	34.4	1308.5	<30.1	74.4	49-103			
Carbazole	1020	µg/kg	34.4	1308.5	<9.82	78.1	63-103			
Chrysene	1050	µg/kg	6.94	1308.5	<5.69	80.6	66-105			
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1070	µg/kg	34.4	1308.5	32.5	79.7	63-101			
Dibenz(a,h) anthracene	1070	µg/kg	34.4	1308.5	<3.60	82.1	61-109			
Dibenzofuran	1040	µg/kg	34.4	1308.5	<4.90	79.5	61-101			
Diethyl phthalate	1030	µg/kg	34.4	1308.5	<11.3	78.7	63-105			
Dimethyl phthalate	1030	µg/kg	34.4	1308.5	<6.50	78.8	64-104			
Fluoranthene	1050	µg/kg	6.94	1308.5	<3.20	80.2	66-105			
Fluorene	1040	µg/kg	6.94	1308.5	<4.84	79.6	62-101			
Hexachlorobenzene	1020	µg/kg	34.4	1308.5	<9.70	77.8	61-104			
Hexachlorobutadiene	987	µg/kg	34.4	1308.5	<7.85	75.4	52-99			
Hexachlorocyclopentadiene	887	µg/kg	34.4	1308.5	<32.6	67.8	39-106			
Hexachloroethane	969	µg/kg	34.4	1308.5	<13.8	74.1	59-99			
Indeno(1,2,3-cd) pyrene	1180	µg/kg	6.94	1308.5	<4.64	90.5	57-114			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

MS		CLIENT ID: Batch QC				Lab ID: QC-2319451-005				
Method: EPA 8270E		Dilution: 1				Analysis Date: 11/06/25 14:06				
						Prep Date: 11/05/25 12:26				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Isophorone	965	µg/kg	174	1308.5	<6.51	73.8	55-101			
Methylphenol, Total	1970	µg/kg	67.0	2618	<9.01	75.4	54-103			
Naphthalene	995	µg/kg	6.94	1308.5	<4.26	76.0	54-99			
Nitrobenzene	961	µg/kg	174	1308.5	<11.2	73.5	53-100			
n-Nitrosodi-n-propylamine	963	µg/kg	34.4	1308.5	<5.50	73.6	52-104			
N-Nitrosodiphenylamine	1030	µg/kg	34.4	1308.5	<19.3	78.5	61-104			
Pentachlorophenol	1090	µg/kg	34.4	1308.5	<26.5	83.1	35-100			
Phenanthrene	1020	µg/kg	6.94	1308.5	<3.10	77.9	64-101			
Phenol	934	µg/kg	34.4	1308.5	<16.7	71.4	51-107			
Pyrene	1090	µg/kg	6.94	1308.5	<3.33	83.0	52-114			
Pyridine	834	µg/kg	174	1308.5	<65.6	63.8	40-84			
Surr: 2,4,6-Tribromophenol	2570	µg/kg		3271.7		78.6	48-94			
Surr: 2-Fluorobiphenyl	2420	µg/kg		3271.7		74.1	50-103			
Surr: 2-Fluorophenol	2380	µg/kg		3271.7		72.7	43-105			
Surr: 4-Terphenyl-d14	2490	µg/kg		3271.7		76.1	55-111			
Surr: Nitrobenzene-d5	2180	µg/kg		3271.7		66.7	47-100			
Surr: Phenol-d6	2360	µg/kg		3271.7		72.2	49-110			

MSD		CLIENT ID: Batch QC				Lab ID: QC-2319451-006				
Method: EPA 8270E		Dilution: 1				Analysis Date: 11/06/25 14:27				
						Prep Date: 11/05/25 12:26				
Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1'-Biphenyl (BZ-0)	1020	µg/kg	34.5	1312.7	<5.41	77.2	57-101	2.21	30	
1,2,4,5-Tetrachlorobenzene	1010	µg/kg	348	1312.7	<7.69	77.0	54-98	0.580	30	
1-Methylnaphthalene	1030	µg/kg	6.96	1312.7	<4.80	78.1	56-100	0.898	30	
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	962	µg/kg	34.5	1312.7	<7.81	73.3	50-101	0.428	30	
2,3,4,6-Tetrachlorophenol	1040	µg/kg	69.6	1312.7	<24.4	79.4	48-103	0.495	30	
2,4,5-Trichlorophenol	1060	µg/kg	34.5	1312.7	<19.8	80.6	54-98	2.26	30	
2,4,6-Trichlorophenol	1060	µg/kg	34.5	1312.7	<8.87	80.9	56-97	4.51	30	
2,4-Dichlorophenol	973	µg/kg	34.5	1312.7	<17.9	74.1	54-99	0.185	30	
2,4-Dimethylphenol	1020	µg/kg	34.5	1312.7	<17.1	77.7	47-102	0.0626	30	
2,4-Dinitrophenol	<244	µg/kg	348	1312.7	<244	26.4	10-100	NC		U
2,4-Dinitrotoluene (2,4-DNT)	1060	µg/kg	34.5	1312.7	<21.6	81.0	62-105	0.112	30	
2,6-Dinitrotoluene (2,6-DNT)	1050	µg/kg	34.5	1312.7	<8.51	80.1	62-103	0.320	30	
2-Chloronaphthalene	1010	µg/kg	6.96	1312.7	<4.66	76.9	57-101	0.972	30	
2-Chlorophenol	966	µg/kg	34.5	1312.7	<21.8	73.6	52-102	0.560	30	
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	844	µg/kg	34.5	1312.7	<27.8	64.3	42-104	8.32	30	
2-Methylnaphthalene	1010	µg/kg	6.96	1312.7	<3.39	76.6	55-102	3.23	30	
2-Methylphenol (o-Cresol)	1000	µg/kg	34.5	1312.7	<9.01	76.3	54-103	0.582	30	
2-Nitroaniline	1000	µg/kg	34.5	1312.7	<18.5	76.4	57-103	0.657	30	
2-Nitrophenol	1030	µg/kg	34.5	1312.7	<9.50	78.7	52-102	1.66	30	
3&4-Methylphenol	999	µg/kg	34.5	1312.7	<18.2	76.1	56-103	2.04	30	
3,3'-Dichlorobenzidine	846	µg/kg	174	1312.7	<15.6	64.5	41-91	1.75	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
3-Nitroaniline	690	µg/kg	34.5	1312.7	<19.4	52.6	35-107	6.92	30	
4-Bromophenyl phenyl ether (BDE-3)	1020	µg/kg	34.5	1312.7	<18.3	77.8	63-104	0.321	30	
4-Chloro-3-methylphenol	1020	µg/kg	34.5	1312.7	<9.50	77.5	57-103	1.49	30	
4-Chloroaniline	1030	µg/kg	69.6	1312.7	<16.9	78.2	32-99	1.93	30	
4-Chlorophenyl phenylether	1060	µg/kg	34.5	1312.7	<9.21	80.4	62-100	0.258	30	
4-Nitroaniline	571	µg/kg	174	1312.7	<51.7	43.5	19-124	3.19	30	
4-Nitrophenol	1100	µg/kg	348	1312.7	<78.1	83.5	44-106	0.981	30	
Acenaphthene	1010	µg/kg	6.96	1312.7	<4.82	77.3	60-101	0.390	30	
Acenaphthylene	1050	µg/kg	6.96	1312.7	<5.78	80.1	59-101	1.64	30	
Acetophenone	980	µg/kg	34.5	1312.7	<5.22	74.7	54-102	3.52	30	
Anthracene	1060	µg/kg	6.96	1312.7	<4.70	81.0	63-96	2.95	30	
Atrazine	<19.5	µg/kg	34.5	1312.7	<19.5	0.00	60-110			SU
Benzaldehyde	320	µg/kg	69.6	1312.7	<51.2	24.4	10-143	9.07	30	
Benzo(a)anthracene	1050	µg/kg	6.96	1312.7	<5.76	79.9	66-102	0.0551	30	
Benzo(a)pyrene	1100	µg/kg	6.96	1312.7	<4.09	84.2	66-105	1.88	30	
Benzo(b)fluoranthene	1070	µg/kg	6.96	1312.7	<4.97	81.9	67-105	1.20	30	
Benzo(g,h,i)perylene	1080	µg/kg	6.96	1312.7	<5.11	82.0	59-110	0.259	30	
Benzo(k)fluoranthene	1120	µg/kg	6.96	1312.7	<5.05	85.4	68-106	4.14	30	
bis(2-Chloroethoxy)methane	962	µg/kg	34.5	1312.7	<21.1	73.3	54-102	0.428	30	
bis(2-Chloroethyl) ether	993	µg/kg	34.5	1312.7	<9.44	75.6	51-101	2.87	30	
Butyl benzyl phthalate	1050	µg/kg	69.6	1312.7	<41.7	79.7	59-107	0.368	30	
Caprolactam	1010	µg/kg	34.5	1312.7	<30.1	76.6	49-103	3.24	30	
Carbazole	1030	µg/kg	34.5	1312.7	<9.82	78.4	63-103	0.703	30	
Chrysene	1070	µg/kg	6.96	1312.7	<5.69	81.2	66-105	1.06	30	
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	1090	µg/kg	34.5	1312.7	32.5	80.7	63-101	1.47	30	
Dibenz(a,h) anthracene	1080	µg/kg	34.5	1312.7	<3.60	82.4	61-109	0.685	30	
Dibenzofuran	1040	µg/kg	34.5	1312.7	<4.90	79.4	61-101	0.194	30	
Diethyl phthalate	1050	µg/kg	34.5	1312.7	<11.3	80.2	63-105	2.15	30	
Dimethyl phthalate	1050	µg/kg	34.5	1312.7	<6.50	80.3	64-104	2.14	30	
Fluoranthene	1060	µg/kg	6.96	1312.7	<3.20	81.1	66-105	1.50	30	
Fluorene	1040	µg/kg	6.96	1312.7	<4.84	79.2	62-101	0.184	30	
Hexachlorobenzene	1000	µg/kg	34.5	1312.7	<9.70	76.2	61-104	1.82	30	
Hexachlorobutadiene	970	µg/kg	34.5	1312.7	<7.85	73.9	52-99	1.76	30	
Hexachlorocyclopentadiene	850	µg/kg	34.5	1312.7	<32.6	64.7	39-106	4.36	30	
Hexachloroethane	959	µg/kg	34.5	1312.7	<13.8	73.1	59-99	1.04	30	
Indeno(1,2,3-cd) pyrene	1200	µg/kg	6.96	1312.7	<4.64	91.2	57-114	1.09	30	
Isophorone	989	µg/kg	174	1312.7	<6.51	75.3	55-101	2.40	30	
Methylphenol, Total	2000	µg/kg	67.0	2626.3	<9.01	76.1	54-103	1.31	30	
Naphthalene	967	µg/kg	6.96	1312.7	<4.26	73.7	54-99	2.82	30	
Nitrobenzene	945	µg/kg	174	1312.7	<11.2	72.0	53-100	1.74	30	
n-Nitrosodi-n-propylamine	1010	µg/kg	34.5	1312.7	<5.50	77.3	52-104	5.22	30	
N-Nitrosodiphenylamine	1020	µg/kg	34.5	1312.7	<19.3	77.5	61-104	0.963	30	
Pentachlorophenol	1040	µg/kg	34.5	1312.7	<26.5	79.4	35-100	4.30	30	
Phenanthrene	1010	µg/kg	6.96	1312.7	<3.10	76.7	64-101	1.17	30	
Phenol	999	µg/kg	34.5	1312.7	<16.7	76.1	51-107	6.69	30	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 8070 Wisner
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516145
Date Collected: NA
Date Received: NA
Run ID: 3667671

MSD	CLIENT ID: Batch QC	Lab ID: QC-2319451-006
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Method: EPA 8270E

Dilution: 1

Analysis Date: 11/06/25 14:27

Prep Date: 11/05/25 12:26

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Pyrene	1070	µg/kg	6.96	1312.7	<3.33	81.8	52-114	1.14	30	
Pyridine	809	µg/kg	174	1312.7	<65.6	61.6	40-84	3.11	30	
Surr: 2,4,6-Tribromophenol	2520	µg/kg		3282.2		76.8	48-94	2.05	30	
Surr: 2-Fluorobiphenyl	2370	µg/kg		3282.2		72.2	50-103	2.17	30	
Surr: 2-Fluorophenol	2330	µg/kg		3282.2		71.0	43-105	2.05	30	
Surr: 4-Terphenyl-d14	2520	µg/kg		3282.2		76.9	55-111	1.34	30	
Surr: Nitrobenzene-d5	2160	µg/kg		3282.2		65.8	47-100	1.10	30	
Surr: Phenol-d6	2380	µg/kg		3282.2		72.6	49-110	0.872	30	

The following samples were analyzed in this batch: HN2516145-001