

DRAFT

FILL MATERIAL SAMPLING REPORT

12027 CHELSEA AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48213



NOVEMBER 19, 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

12027 CHELSEA AVENUE
DETROIT, WAYNE COUNTY, MICHIGAN 48213

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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 12027 Chelsea 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 12027 SB01, 12027 SB02, and 12027 SB03 generally consisted of two to five feet of brown to gray clayey sand underlain by gray to brown silty clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 11.1 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, brick and concrete debris was observed in all borings.
- Concentrations of arsenic were detected in soil sample 12027 SB03 (5-6') in excess of its respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC), and direct contact criteria (DCC). Concentrations of total chromium were detected in soil sample 12027 SB03 (5-6') in excess of its GSIPC.
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, acetone, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, cadmium, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 12027 SB01 (1-2'), 12027 SB02 (3-4'), 12027 SB03 (5-6'), and/or 12027 Chelsea 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, chromium, and pesticides 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 direct contact criteria may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 12027 Chelsea 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 13, 2025, October 9, 2025, and October 27, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

- Advanced three (3) onsite soil borings to a maximum depth of six feet 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 13, 2025, October 9, 2025, and October 27, 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 12027 SB01, 12027 SB02, and 12027 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 9, 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 27, 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

Five (5) soil samples, designated 12027 SB01 (1-2'), 12027 SB02 (3-4'), 12027 SB03 (5-6'), 12027 Chelsea SB02 (3-4')-R, and 12027 Chelsea SB03 TCLP, were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 13, 2025, October 9, 2025, and October 27, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 12027 SB01, 12027 SB02, and 12027 SB03 generally consisted of two to five feet of brown to gray clayey sand underlain by gray to brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 11.1 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors)

indications of contamination observed during soil sampling activities, however, brick and concrete debris was observed in all borings. Groundwater was not encountered during soil boring activities completed as part of this investigation.

4.2 Soil Sample Analytical Results

Four (4) soil samples, designated 12027 SB-01 (1-2'), 12027 SB-02 (3-4'), 12027 SB-03 (5-6'), and 12027 Chelsea 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	12027 SB03 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	17,700
Chromium (Total)	7440-47-3	12027 SB03 (5-6')	GSIPC / 3,300	21,600

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, chromium, and pesticides 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 DDC 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:

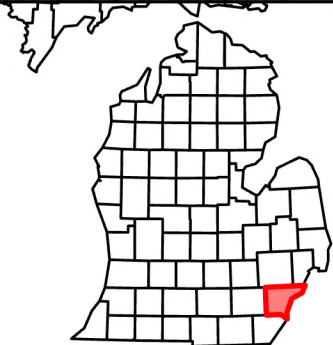
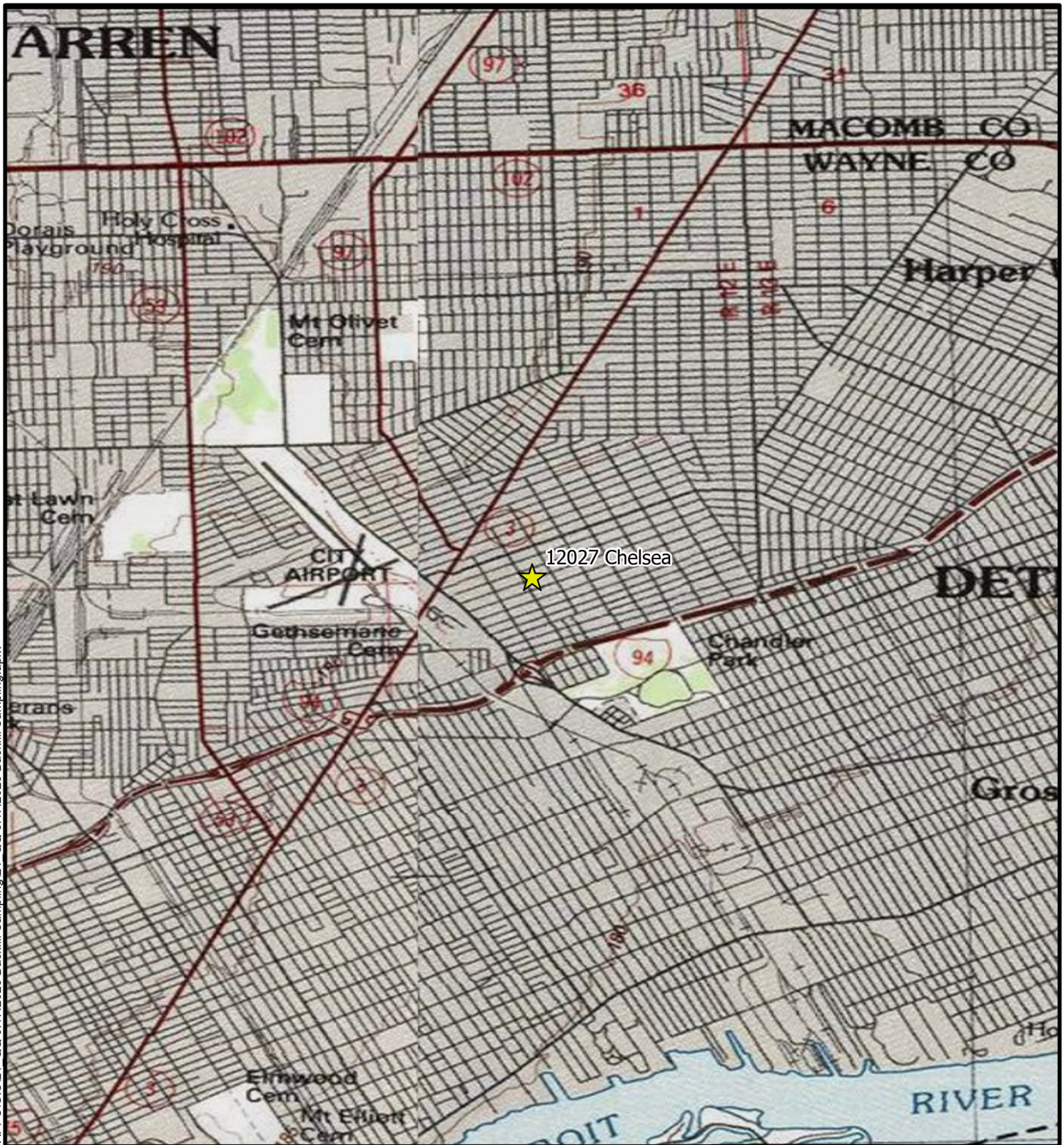
- The stratigraphy encountered during soil boring advancement of 12027 SB01, 12027 SB02, and 12027 SB03 generally consisted of two to five feet of brown to gray clayey sand underlain by gray to brown silty clay to six feet bgs, the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 11.1 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, brick and concrete debris was observed in all borings.
- Concentrations of arsenic were detected in soil sample 12027 SB03 (5-6') in excess of its respective Part 201 DWPC, GSIPC, and DCC. Concentrations of total chromium were detected in soil sample 12027 SB03 (5-6') in excess of its GSIPC.
- Concentrations of 1-methylnaphthalene, 2-methylnaphthalene, 1,2,4-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, acetone, anthracene, barium, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, cadmium, chloride, chrysene, copper, fluoranthene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, pyrene, and zinc were detected in soil samples 12027 SB01 (1-2'), 12027 SB02 (3-4'), 12027 SB03 (5-6'), and/or 12027 Chelsea 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, chromium, and pesticides were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- PCBs were not detected above laboratory method detection reporting limits.
- Groundwater was not encountered during soil boring activities completed as part of this investigation. Groundwater is not utilized as drinking water at or near the Site, as municipal water is supplied via the COD, and the general geology of the Site and surrounding area consists of fill materials underlain by clay overlying bedrock. Therefore, the DW exposure pathway can be considered not applicable. Additionally, groundwater was not encountered during this investigation to transport contaminants to either storm sewers or surface water and the clay layer also inhibits migration, therefore, the groundwater surface water exposure pathway can be considered not applicable. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

FIGURES





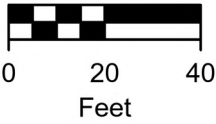
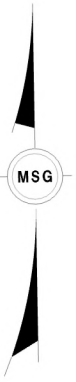
★ Site Location



FIGURE 1
SITE LOCATION

12027 Chelsea, Detroit, MI

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

12027 Chelsea, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
12027 Chelsea, 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)													
	Acetone	1,2,4-Trimethylbenzene	1-Methylnaphthalene	2-Methylnaphthalene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(a)pyrene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene		
	CAS Number	67-64-1	95-63-6	90-12-0	91-57-6	120-12-7	56-55-3	205-99-2	191-24-2	50-32-8	218-01-9	206-44-0	193-39-5	85-01-8	129-00-0	
	Statewide Default Background Levels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Drinking Water Protection Criteria (DWPC)	15,000	2,100	NA	57,000	41,000	NLL	NLL	NLL	NLL	NLL	7.3E+05	NLL	56,000	4.8E+05	
	Groundwater Surface Water Interface Protection Criteria (GSIPC)	34,000	570	NA	4,200	ID	NLL	NLL	NLL	NLL	NLL	5,500	NLL	2,100	ID	
	Soil Volatilization to Indoor Air Inhalation (SVIIC)	2.9E+8 (C)	4.3E+6 (C)	NA	2.7E+06	1.0E+09 (D)	NLV	ID	NLV	NLV	ID	1.0E+09 (D)	NLV	2.8E+06	1.0E+09 (D)	
	Soil Volatilization to Indoor Air Pathway (SVIAP)	2.6E+05 (EE)	150 (JT)	NA	1,700	1.3E+07	1.6E+05 (MM)	NA	NA	NA	NA	NA	NA	1,700	2.5E+07	
	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	1.3E+08	2.1E+07	NA	1.5E+06	1.4E+09	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08	
	Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	1.3E+08	5.0E+08	NA	1.5E+06	1.4E+09	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08	
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	1.9E+08	5.0E+08	NA	1.5E+06	1.4E+09	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.6E+05	6.5E+08		
Particulate Soil Inhalation Criteria (PSIC)	3.9E+11	8.2E+10	NA	6.7E+08	6.7E+10	ID	ID	8.0E+08	1.5E+06	ID	9.3E+09	ID	6.7E+06	6.7E+09		
Direct Contact Criteria (DCC)	2.3E+07	3.2E+07 (C)	NA	8.1E+06	2.3E+08	20,000	20,000	2.5E+06	2,000	2.0E+06	4.6E+07	20,000	1.6E+06	2.9E+07		
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		
Recommended Interim Action Screening Level (RIASL)	2.6E+05	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SAMPLE ID	DEPTH (ft)	SAMPLE DATE														
12027 SB01	1-2	8/13/2025	<136	<40.8	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	<5,400	
12027 SB02	3-4	8/13/2025	158	53.9	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	<5,500	
12027 SB03	5-6	8/13/2025	<145	<43.4	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	<1,200	
12027 Chelsea SB02 - R	3-4	10/27/2025	NS	NS	198	234	234	342	450	360	324	234	540	306	414	666

Notes:

Bold indicates concentration above laboratory reporting limits.

Exceeds DWPC

Exceeds GSIPC

Exceeds Applicable Soil Vapor Inhalation screening level

Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels

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

ND = Not Detected above laboratory reporting limits

NS = Not Sampled or Not Analyzed

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023

VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
12027 Chelsea, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg	Michigan 10 Metals										Pesticides/Herbicides			Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions		
	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		Chloride		
CAS Number	7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	72-54-8	72-55-9	50-29-3		16887006		
Statewide Default Background Levels	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA	NA	NA		NA		
Drinking Water Protection Criteria (DWPC)	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		5.00E+06		
Groundwater Surface Water Interface Protection Criteria (GSIPC)	4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL	NLL	NLL		(X)		
Soil Volatilization to Indoor Air Inhalation (SVIIC)	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV		
Soil Volatilization to Indoor Air Pathway (SVIAP)	NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV	NLV	NLV		--		
Infinite Source Volatile Soil Inhalation Criteria (VSIC)	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV		
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV		
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV	NLV	NLV		NLV		
Particulate Soil Inhalation Criteria (PSIC)	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	3.2E+07	3.2E+07		ID		
Direct Contact Criteria (DCC)	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	95,000	45,000		5.0E+5 (F)		
Soil Saturation Concentration Screening Levels (C _{sat})	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		
Recommended Interim Action Screening Level (RIASL)	NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA	NA	NA		--		
SAMPLE ID	DEPTH (ft)	SAMPLE DATE															
12027 SB01	1-2	8/13/2025	4,470	49,900	<1,330	12,100	15,000	43,700	28.9	<3,320	<3,320	52,500	26	110	120	ND	29,900
12027 SB02	3-4	8/13/2025	3,470	46,400	<1,320	9,690	12,200	21,000	52.8	<3,300	<3,300	36,900	20	86	20	ND	75,300
12027 SB03	5-6	8/13/2025	17,700	69,600	<1,480	21,600	22,100	13,000	24.2	<3,710	<3,710	63,200	<6.0	<6.0	<6.0	ND	<12,200
12027 Chelsea SB02 - R	3-4	10/27/2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<170	<175	<176	NS	NS

Notes:

Bold indicates concentration above laboratory reporting limits.

Exceeds DWPC

Exceeds GSIPC

Exceeds Applicable Soil Vapor Inhalation screening level

Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels

Exceeds PSIC, DCC, and/or C_{sat}, likely exceeds others

ND = Not Detected above laboratory reporting limits

NS = Not Sampled or Not Analyzed

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, updated October 12, 2023

VIAP Screening Levels and notes from EGLE Guidance Document For The Vapor Intrusion Pathway, Appendix D.1 Vapor Intrusion Screening Values, May 2013, updated February 26, 2024

Table 2
TCLP Analytical Detection Summary

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
12027 Chelsea, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals		TCLP Pesticides						
		Arsenic	Chromium	Chlordane, Technical	Endrin	Lindane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00	-	0.002	0.4	0.008	0.008	10.0	0.5
SAMPLE ID	SAMPLE DATE									
12027 Chelsea SB03 TCLP	10/9/2025	<0.0499	<0.0499	NS	NS	NS	NS	NS	NS	NS
12027 Chelsea SB02 (3-4')-R	10/27/2025	NS	NS	0.0000335	0.00000838	0.00000819	0.00000749	0.00000782	0.00000974	0.000108

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: 08/13/2025	Day: Wednesday	Temp: N/A (AM) 80 ° F (PM)
MSG Personnel: SRK, BM	Cloud Cover: N/A (AM) 80% (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:
1200 – SRK and BM onsite (12027 Chelsea Avenue) 1202 – Unloaded equipment and marked boring locations 1212 – Began drilling SB01 1214 – Finished drilling SB01 1216 – Began drilling SB02 1218 – Finished drilling SB02 1220 – Began drilling SB03 1222 – Finished drilling SB03 1222 – Sampled 12027 SB01 (1-2) 1235 – Sampled 12027 SB02 (3-4) 1250 – Sampled 12027 SB03 (5-6) 1255 – Packed up equipment 1310 – 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.: 2
Job No.: DETR0060

Date: 10/9/2025	Day: Thursday	Temp: 40 ° F	(AM)	N/A	(PM)
MSG Personnel: SRK, JF		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 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:					
0915 – MSG (SRK, JF) onsite (12027 Chelsea) 0918 – Attempted to locate previous boring locations. Marked out new boring location. 0929 – Began drilling SB03 TCLP 0931 – Finished drilling SB03 TCLP 0940 – Sampled 12027 Chelsea SB03 TCLP 0945 – Collected GPS points 0950 – Packed up equipment 0955 – 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: 10/27/2025	Day: Monday	Temp: 58 ° 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 Pesticides, Herbicides, & SVOCs).					
Field Notes:					
1342 – MSG (WRD, BSM) onsite (12027 Chelsea) 1348 – Attempted to locate previous boring locations. Marked out new boring location. 1352 – Began drilling SB02 (3-4')-R 1402 – Finished drilling SB02 (3-4')-R 1407– Sampled 12027 Chelsea SB02 (3-4')-R 1409 – Packed up equipment 1411 – MSG off site					

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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



Photo 2: Viewing 12027 SB01 Drilling, Facing East.



Photo 3: Viewing 12027 SB01 Soils, Facing Northwest.



Photo 4: Viewing 12027 SB02 Drilling, Facing East.



Photo 5: Viewing 12027 SB02 Soils, Facing Northwest.



Photo 6: Viewing 12027 SB03 Drilling, Facing East.



Photo 7: Viewing 12027 SB03 Soils, Facing Northwest.



Photo 8: View of Site at the time of TCLP soil boring activities

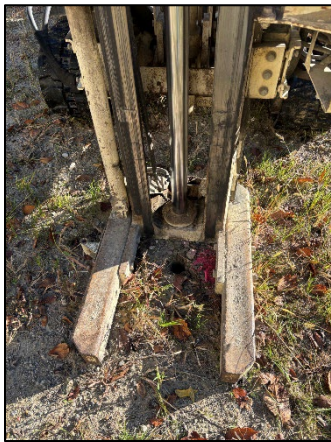


Photo 9: View of TCLP soil boring location

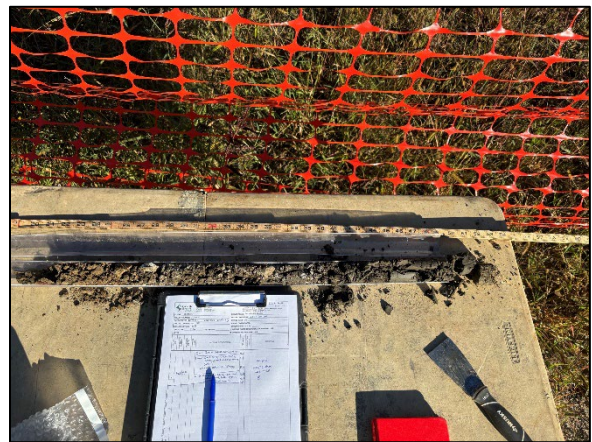


Photo 10: View of soil recovery at the time of TCLP sampling

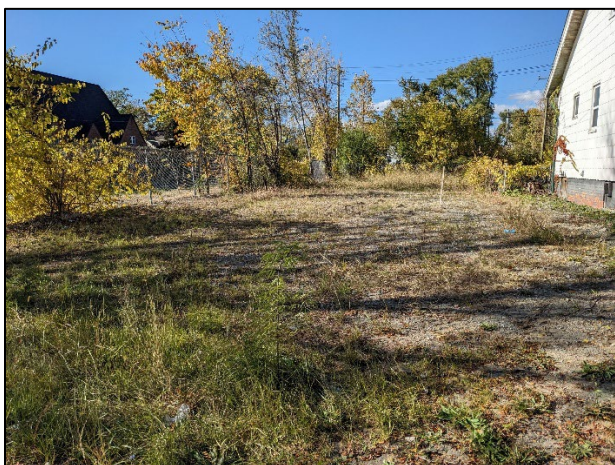


Photo 11: View of Site at the time of supplemental soil boring activities



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

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 <u>City of Detroit</u>	PROJECT NAME <u>12027 Chelsea</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>12027 Chelsea Ave, Detroit, Michigan</u>
DATE STARTED <u>8/13/25</u> COMPLETED <u>8/13/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 13:25 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\12027 CHELSEA\BORING LOGS\DETR0060_12027.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown to Gray Clayey SAND, some gravel	0.1		
					Some concrete debris from 2 - 4 feet bgs	0.9		Collected soil sample 12027 SB01 (1-2) at 12:22
						1.3		
						3.6		
5				5.0	Gray Silty CLAY, some sand, some gravel	3.8		
				6.0		3.6		
					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 Detroit

PROJECT NAME 12027 Chelsea

PROJECT NUMBER DETR0060

PROJECT LOCATION 12027 Chelsea Ave, Detroit, Michigan

DATE STARTED 8/13/25 COMPLETED 8/13/25

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 - 8/20/25 13:25 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\12027 CHELSEA\BORING LOGS\DETR0060_12027.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown SAND, some gravel, some concrete debris	0.8		
				2.0		0.8		
					Brown and Gray Silty CLAY, some sand, some gravel	4.9		
	MC 1	3.5				10.7		Collected soil sample 12027 SB02 (3-4) at 12:35
					Some concrete and brick debris at 4 feet bgs			Slight odor at 4 feet bgs
5						9.1		
					Some brick debris at 5 feet bgs			
				6.0		2.3		
					Bottom of borehole at 6.0 feet.			



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CLIENT City of Detroit

PROJECT NAME 12027 Chelsea

PROJECT NUMBER DETR0060

PROJECT LOCATION 12027 Chelsea Ave, Detroit, Michigan

DATE STARTED 8/13/25 COMPLETED 8/13/25

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 - 8/20/25 13:25 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\12027 CHELSEA\BORING LOGS\DETR0060_12027.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown to Gray Clayey SAND, some gravel	0.1		
					Some concrete debris at 1.5 feet bgs	1.1		
						11.1		
				4.0	Gray to Brown Silty CLAY, some sand, some gravel	1.2		
5					Some brick debris at 5 feet bgs	0.7		
				6.0				
					Bottom of borehole at 6.0 feet.	0.5		

MC
1

3.5

4.0



Collected soil sample 12027 SB03 (5-6) at 12:50

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511415

Client

The Mannik & Smith Group, Inc.

Project

12027_Chelsea

Project Date

August 14, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

September 05, 2025

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

Work Order: **HN2511415**

Re: **12027_Chelsea**

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: 12027_Chelsea

Work Order: HN2511415
Date Received: 14-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 14-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.

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

Matrix spike duplicate value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S
Matrix spike value was outside upper limit of calibration. Processed at equivalent dilution level as the parent. C,S

EPA 3550C-Moisture

Run ID: 3406746

HN2511415-003; Percent Moisture - The RPD between the sample and its duplicate was out of control. The corresponding sample result should be considered estimated for this analyte.

Organics

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

Run ID: 3403304

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:
bromodichloromethane

Run ID: 3410072

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): see qc

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:
bromodichloromethane

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

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: see qc

Metals

EPA 6020B-3050B-S

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 2167684

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 2167684

HN2511415-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-001: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511415-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

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: 12027 SB01 (1-2)	Lab ID: HN2511415-001
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	4.47		3.32	mg/kg	EPA 6020B
Barium	49.9		3.32	mg/kg	EPA 6020B
Chloride	29.9		11.6	mg/kg	EPA 9056A
Chromium	12.1		3.32	mg/kg	EPA 6020B
Copper	15.0		3.32	mg/kg	EPA 6020B
Lead	43.7		3.32	mg/kg	EPA 6020B
Mercury	0.0289		0.0218	mg/kg	EPA 7471B
Percent Moisture	13.3		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	52.5		6.64	mg/kg	EPA 6020B

CLIENT ID: 12027 SB02 (3-4)	Lab ID: HN2511415-002
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
1,2,4-Trimethylbenzene	53.9		38.5	µg/kg	EPA 8260D
Acetone	158		128	µg/kg	EPA 8260D
Arsenic	3.47		3.30	mg/kg	EPA 6020B
Barium	46.4		3.30	mg/kg	EPA 6020B
Chloride	75.3		11.4	mg/kg	EPA 9056A
Chromium	9.69		3.30	mg/kg	EPA 6020B
Copper	12.2		3.30	mg/kg	EPA 6020B
Lead	21.0		3.30	mg/kg	EPA 6020B
Mercury	0.0528		0.0209	mg/kg	EPA 7471B
Percent Moisture	11.9		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	36.9		6.61	mg/kg	EPA 6020B

CLIENT ID: 12027 SB03 (5-6)	Lab ID: HN2511415-003
-----------------------------	-----------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	17.7		3.71	mg/kg	EPA 6020B
Barium	69.6		3.71	mg/kg	EPA 6020B
Chromium	21.6		3.71	mg/kg	EPA 6020B
Copper	22.1		3.71	mg/kg	EPA 6020B
Lead	13.0		3.71	mg/kg	EPA 6020B
Mercury	0.0242		0.0208	mg/kg	EPA 7471B
Percent Moisture	17.6		0.1	%	EPA 3550C

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: 12027 SB03 (5-6)			Lab ID: HN2511415-003		
Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	63.2		7.42	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Workorder: HN2511415

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511415-001	12027 SB01 (1-2)	SOIL/SOLID	08/13/25 12:22	08/14/25 08:00
HN2511415-002	12027 SB02 (3-4)	SOIL/SOLID	08/13/25 12:35	08/14/25 08:00
HN2511415-003	12027 SB03 (5-6)	SOIL/SOLID	08/13/25 00:50	08/14/25 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	12027_Chelsea		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 Chlorides (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@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	12027 SB01 (1-2)	8/13/25	12:22	Soil	7	3	X	X	X	X	X	X	X						
2	12027 SB02 (3-4)	8/13/25	12:35	Soil	7	3	↓	↓	↓	↓	↓	↓	↓						
3	12027 SB03 (5-6)	8/13/25	12:50	Soil	7	3	↓	↓	↓	↓	↓	↓	↓						
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign Shannon Kaczmarek		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by: Shannon Kaczmarek		Date: 8/13/25	Time: 1530	Received by:		Notes: Quote# HN-061825-M&S-MA					
Relinquished by:		Date: 8/14/25	Time: 1700	Received by (Laboratory): QS		Cooler Temp. 4.00C					
Logged by (Laboratory): BC		Date: 8/14/25	Time: 09:00	Checked by (Laboratory):		QC Package: (Check Box Below)					
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						☐ Level II: Standard QC ☐ TRRP-Checklist					
						☐ Level III: Std QC + Raw Data ☐ TRRP Level IV					
						☐ Level IV: SW846 CLP-Like					
						Other:					

Environmental Division
Holland
Work Order Reference
HN2511415

Telephone : + 1 616 399 6070

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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: DC

Date/Time: 8/14/25 0800

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 4.6°C

Thermometer(s): IR6

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 8/14/25 09:30

Water – VOA vials have zero headspace? Yes / No / No Vials

Water – pH acceptable upon receipt? Yes / No / N/A

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

pH adjusted (note adjustments below)? Yes / No / N/A

pH adjusted by: _____

Login Notes:

--

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	12/17/2024	12/31/2025
Colorado	UST		07/01/2025	06/30/2026
Connecticut	Drinking Water (Secondary)	PH-0155	12/10/2024	12/31/2026
Florida	NELAP (Primary)	E871106	07/01/2025	06/30/2026
Illinois	NELAP (Secondary)	200076	11/14/2024	12/31/2025
Indiana	Drinking Water (Secondary)	C-MI-08	12/31/2024	09/04/2026
Iowa	State Specific	403	09/18/2023	09/01/2025
Kansas	NELAP (Secondary)	E-10411	07/09/2024	07/31/2025
Kentucky	Waste Water	KY98004	12/20/2024	12/31/2025
Kentucky	UST	120474	06/24/2024	06/30/2025
Michigan	Drinking Water (Primary)	0022	12/19/2023	09/04/2026
Minnesota	NELAP (Secondary)	026-999-449	12/17/2024	12/31/2025
Missouri	Drinking Water (Secondary)	01262	11/14/2024	12/30/2027
New Jersey	NELAP (Secondary)	MI015	07/01/2024	6/30/2025
New York	NELAP (Secondary)	12128	04/01/2025	04/01/2026
North Dakota	State Specific	R-192	11/18/2024	06/30/2025
Ohio	Drinking Water (Secondary)	87783	06/26/2025	6/30/2026
Pennsylvania	NELAP (Secondary)	68-03827	06/14/2024	07/31/2025
Texas	NELAP (Secondary)	T104704494	02/12/2025	01/31/2026
USDA	Domestic CA	Soil-MI-007	02/06/2025	08/07/2026
USDA	Soil Import	525-23-62-77572	03/03/2023	03/03/2026
West Virginia	State Specific	355	06/07/2025	08/31/2026
Wisconsin	State Specific	399084510	08/15/2024	08/31/2025

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea

Work Order: HN2511415

Sample Name: 12027 SB01 (1-2)
Laboratory Code: HN2511415-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/13/25
Date Received: 08/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	EPA 3050B Method	001-AC	2164274	Weston Kotecki Maxx Richey	3406746	Nicole Maleski
EPA 6020B		001-AC	2167684		3414291	Stephanie Pierson
EPA 7471B		001-AC	2167746		3416298	Maxx Richey
EPA 8081B		001-AD			3465990	Bill Carey
EPA 8082A		001-AD			3465990	Bill Carey
EPA 8151A	EPA 5035A	001-AD		Jonathan Vazquez Jonathan Vazquez Jonathan Vazquez John Garvale	3465990	Bill Carey
EPA 8260D		001-AA	2159881		3403304	Sean Bradfield
EPA 8260D		001-AA	2159881		3404845	Sean Bradfield
EPA 8260D		001-AA	2159881		3404887	Sean Bradfield
EPA 8260D		001-AA	2166362		3410072	John Garvale
EPA 8270E	EPA 9056A	001-AD		Quoc Nguyen	3465990	Bill Carey
EPA 9056A		001-AC	2163330		3405747	Jessica Bacon

Sample Name: 12027 SB02 (3-4)
Laboratory Code: HN2511415-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/13/25
Date Received: 08/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C	EPA 3050B Method	002-AC	2164274	Weston Kotecki Maxx Richey	3406746	Nicole Maleski
EPA 6020B		002-AC	2167684		3414291	Stephanie Pierson
EPA 7471B		002-AC	2167746		3416298	Maxx Richey
EPA 8081B		002-AD			3465990	Bill Carey
EPA 8082A		002-AD			3465990	Bill Carey
EPA 8151A	EPA 5035A	002-AD		Jonathan Vazquez Jonathan Vazquez Jonathan Vazquez Quoc Nguyen	3465990	Bill Carey
EPA 8260D		002-AA	2159881		3424725	Nathan Jenkins
EPA 8270E		002-AD			3465990	Bill Carey
EPA 9056A		002-AC	2163330		3405747	Jessica Bacon

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea

Work Order: HN2511415

Sample Name: 12027 SB03 (5-6)
Laboratory Code: HN2511415-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/13/25
Date Received: 08/14/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2166230		3409836	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2167684	Weston Kotecki	3414291	Stephanie Pierson
EPA 7471B	Method	003-AC	2167752	Maxx Richey	3416298	Maxx Richey
EPA 8081B		003-AD			3465990	Bill Carey
EPA 8082A		003-AD			3465990	Bill Carey
EPA 8151A		003-AD			3465990	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2159881	Jonathan Vazquez	3424725	Nathan Jenkins
EPA 8270E		003-AD			3465990	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Quoc Nguyen

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:22
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB01 (1-2)	Lab ID: HN2511415-001
------------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.3		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	29.9		mg/kg	11.6	1	08/16/25 00:13	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	4.47		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Barium	EPA 6020B	49.9		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.33	10	08/19/25 22:50	08/19/25 09:35
Chromium	EPA 6020B	12.1		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Copper	EPA 6020B	15.0		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Lead	EPA 6020B	43.7		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.32	10	08/19/25 22:50	08/19/25 09:35
Zinc	EPA 6020B	52.5		mg/kg	6.64	10	08/19/25 22:50	08/19/25 09:35
Mercury	EPA 7471B	0.0289		mg/kg	0.0218	1	08/20/25 09:56	08/20/25 08:18
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:31	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:22
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB01 (1-2) **Lab ID: HN2511415-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.7	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	272	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND	S	µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.7	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:22
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB01 (1-2) **Lab ID: HN2511415-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	81.7	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	340	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	136	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	340	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND	S	µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.8	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	95.0		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	79.0	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	99.0		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:35
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB02 (3-4) **Lab ID: HN2511415-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	11.9		%	0.1	1	08/16/25 14:40	NA
Chloride	EPA 9056A	75.3		mg/kg	11.4	1	08/16/25 00:23	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	3.47		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Barium	EPA 6020B	46.4		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.32	10	08/19/25 23:02	08/19/25 09:35
Chromium	EPA 6020B	9.69		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Copper	EPA 6020B	12.2		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Lead	EPA 6020B	21.0		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.30	10	08/19/25 23:02	08/19/25 09:35
Zinc	EPA 6020B	36.9		mg/kg	6.61	10	08/19/25 23:02	08/19/25 09:35
Mercury	EPA 7471B	0.0528		mg/kg	0.0209	1	08/20/25 09:58	08/20/25 08:18
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:31	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
1,2,4-Trimethylbenzene	EPA 8260D	53.9		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:35
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB02 (3-4) **Lab ID: HN2511415-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	77.0	1	08/21/25 18:24	08/14/25 12:24
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	257	1	08/21/25 18:24	08/14/25 12:24
2-Hexanone	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Acetone	EPA 8260D	158		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Benzene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Bromochloromethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Bromodichloromethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Bromoform	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Carbon disulfide	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Carbon tetrachloride	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Chlorobenzene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Chlorodibromomethane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Chloroform	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	77.0	1	08/21/25 18:24	08/14/25 12:24
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Cyclohexane	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Ethylbenzene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Isopropylbenzene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 12:35
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB02 (3-4)	Lab ID: HN2511415-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	77.0	1	08/21/25 18:24	08/14/25 12:24
Methyl acetate	EPA 8260D	ND		µg/kg	321	1	08/21/25 18:24	08/14/25 12:24
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	128	1	08/21/25 18:24	08/14/25 12:24
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Methylcyclohexane	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	321	1	08/21/25 18:24	08/14/25 12:24
o-Xylene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Styrene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Toluene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Total Xylene	EPA 8260D	ND		µg/kg	115	1	08/21/25 18:24	08/14/25 12:24
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	38.5	1	08/21/25 18:24	08/14/25 12:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	99.6		%REC	80-120	1	08/21/25 18:24	08/14/25 12:24
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	99.4		%REC	80-120	1	08/21/25 18:24	08/14/25 12:24
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	94.8		%REC	80-120	1	08/21/25 18:24	08/14/25 12:24
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.2		%REC	80-120	1	08/21/25 18:24	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 00:50
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB03 (5-6) **Lab ID: HN2511415-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.6		%	0.1	1	08/18/25 14:01	NA
Chloride	EPA 9056A	ND		mg/kg	12.2	1	08/16/25 00:33	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	17.7		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Barium	EPA 6020B	69.6		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Cadmium	EPA 6020B	ND		mg/kg	1.48	10	08/19/25 23:04	08/19/25 09:35
Chromium	EPA 6020B	21.6		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Copper	EPA 6020B	22.1		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Lead	EPA 6020B	13.0		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Selenium	EPA 6020B	ND		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Silver	EPA 6020B	ND		mg/kg	3.71	10	08/19/25 23:04	08/19/25 09:35
Zinc	EPA 6020B	63.2		mg/kg	7.42	10	08/19/25 23:04	08/19/25 09:35
Mercury	EPA 7471B	0.0242		mg/kg	0.0208	1	08/20/25 10:06	08/20/25 08:19
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/05/25 08:31	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/05/25 08:31	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 00:50
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB03 (5-6) **Lab ID: HN2511415-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	86.9	1	08/21/25 18:40	08/14/25 12:24
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	290	1	08/21/25 18:40	08/14/25 12:24
2-Hexanone	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Acetone	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Benzene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Bromochloromethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Bromoform	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Carbon disulfide	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Chlorobenzene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Chloroform	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	86.9	1	08/21/25 18:40	08/14/25 12:24
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Cyclohexane	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Ethylbenzene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 12027_Chelsea
Matrix: SOIL/SOLID

Work Order: HN2511415
Date Collected: 08/13/25 00:50
Date Received: 08/14/25 08:00

CLIENT ID: 12027 SB03 (5-6)	Lab ID: HN2511415-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	86.9	1	08/21/25 18:40	08/14/25 12:24
Methyl acetate	EPA 8260D	ND		µg/kg	362	1	08/21/25 18:40	08/14/25 12:24
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	145	1	08/21/25 18:40	08/14/25 12:24
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	362	1	08/21/25 18:40	08/14/25 12:24
o-Xylene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Styrene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Toluene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Total Xylene	EPA 8260D	ND		µg/kg	130	1	08/21/25 18:40	08/14/25 12:24
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.4	1	08/21/25 18:40	08/14/25 12:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	106		%REC	80-120	1	08/21/25 18:40	08/14/25 12:24
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	103		%REC	80-120	1	08/21/25 18:40	08/14/25 12:24
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	91.8		%REC	80-120	1	08/21/25 18:40	08/14/25 12:24
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	96.5		%REC	80-120	1	08/21/25 18:40	08/14/25 12:24



November 20, 2025

Service Request No:R2510160

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

Laboratory Results for: 12027_Chelsea

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 **R2510160**.

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

PHONE

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FAX

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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: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
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, 891243: 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.

Method 8270E, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

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.

Semivolatile GC:

Method 8081B, 08/27/2025: 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: 12027 SB01 (1-2)	Lab ID: R2510160-001
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	26		2.9	5.8	ug/Kg	8081B
4,4'-DDE	110		2.9	5.8	ug/Kg	8081B
4,4'-DDT	120		2.9	5.8	ug/Kg	8081B
alpha-Chlordane	5.4	J	2.9	5.8	ug/Kg	8081B
gamma-Chlordane	4.0	J	2.9	5.8	ug/Kg	8081B
Total Solids	86.7				Percent	ALS SOP

CLIENT ID: 12027 SB02 (3-4)	Lab ID: R2510160-002
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	20		2.9	5.7	ug/Kg	8081B
4,4'-DDE	86		2.9	5.7	ug/Kg	8081B
4,4'-DDT	20		2.9	5.7	ug/Kg	8081B
alpha-Chlordane	3.7	J	2.9	5.7	ug/Kg	8081B
Total Solids	88.1				Percent	ALS SOP

CLIENT ID: 12027 SB03 (5-6)	Lab ID: R2510160-003
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	82.4				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: 12027_Chelsea

Service Request:R2510160

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510160-001	12027 SB01 (1-2)	8/13/2025	1222
R2510160-002	12027 SB02 (3-4)	8/13/2025	1235
R2510160-003	12027 SB03 (5-6)	8/13/2025	0050

ALS Group USA, Corp.

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



right solutions.
right partner.

Subcontract Chain of Custody

SAMPLING STATE:

COC ID: HN2511415

Subcontract To: Rochester - Environmental TEL: +1 585 288 5380 1565 Jefferson Road, Building 300, Suite 360 FAX: Rochester New York 14623	Due Date: 08/25/2025 Analysis Report Format: ALS Standard – Level II Electronic Data Deliverable:
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Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	12027_Chelsea	A	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511415			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
HN2511415-001	12027 SB01 (1-2)	Soil/Solid	08/13/2025 12:22	001-AD	x	x	x	x						
HN2511415-002	12027 SB02 (3-4)	Soil/Solid	08/13/2025 12:35	002-AD	x	x	x	x						
HN2511415-003	12027 SB03 (5-6)	Soil/Solid	08/13/2025 00:50	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				

Received by: *WMM* *mem*
 Date Time: 8/20/25 4:30





Cooler Receipt and Preservation Check Form

R2510160

ALS Environmental - Holland
12027_Chelsea

5



Project/Client _____ Folder Number _____

Cooler received on 8/20/25 by: RM

COURIER: 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: 15:29 by: MM

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
- Did all bottle labels and tags agree with custody papers? (YES) NO
- Were correct containers used for the tests indicated? (YES) NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
- Were dissolved metals filtered in the field? YES NO (N/A)
- 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: 062325-15R

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

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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: 12027_Chelsea

Service Request: R2510160

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: 12027_Chelsea/

Service Request: R2510160

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001
Sample Matrix: Soil

Date Collected: 08/13/25
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: 12027 SB02 (3-4)
Lab Code: R2510160-002
Sample Matrix: Soil

Date Collected: 08/13/25
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: 12027 SB03 (5-6)
Lab Code: R2510160-003
Sample Matrix: Soil

Date Collected: 08/13/25
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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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:22
Date Received: 08/20/25 09:30

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

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	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
1-Methylnaphthalene	990 U	5400	990	5	08/25/25 23:23	8/22/25	
2-Methylnaphthalene	1900 U	5400	1900	5	08/25/25 23:23	8/22/25	
Acenaphthene	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Acenaphthylene	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Anthracene	900 U	5400	900	5	08/25/25 23:23	8/22/25	
Benz(a)anthracene	800 U	5400	800	5	08/25/25 23:23	8/22/25	
Benzo(a)pyrene	1500 U	5400	1500	5	08/25/25 23:23	8/22/25	
Benzo(b)fluoranthene	900 U	5400	900	5	08/25/25 23:23	8/22/25	
Benzo(g,h,i)perylene	1300 U	5400	1300	5	08/25/25 23:23	8/22/25	
Benzo(k)fluoranthene	870 U	5400	870	5	08/25/25 23:23	8/22/25	
1,4-Dichlorobenzene	900 U	5400	900	5	08/25/25 23:23	8/22/25	
Biphenyl	1600 U	5400	1600	5	08/25/25 23:23	8/22/25	
Chrysene	800 U	5400	800	5	08/25/25 23:23	8/22/25	
Dibenz(a,h)anthracene	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
1,4-Dioxane	530 U	1100	530	5	08/25/25 23:23	8/22/25	
Dibenzofuran	980 U	5400	980	5	08/25/25 23:23	8/22/25	
Fluoranthene	1400 U	5400	1400	5	08/25/25 23:23	8/22/25	
Fluorene	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Indeno(1,2,3-cd)pyrene	1800 U	5400	1800	5	08/25/25 23:23	8/22/25	
Naphthalene	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Phenanthrene	770 U	5400	770	5	08/25/25 23:23	8/22/25	
Pyrene	900 U	5400	900	5	08/25/25 23:23	8/22/25	
2,3,4,6-Tetrachlorophenol	1900 U	5400	1900	5	08/25/25 23:23	8/22/25	
2,4,5-Trichlorophenol	1400 U	5400	1400	5	08/25/25 23:23	8/22/25	
2,4,6-Trichlorophenol	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
2,4-Dichlorophenol	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
2,4-Dimethylphenol	970 U	5400	970	5	08/25/25 23:23	8/22/25	
2,4-Dinitrophenol	9200 U	28000	9200	5	08/25/25 23:23	8/22/25	
2,4-Dinitrotoluene	2100 U	5400	2100	5	08/25/25 23:23	8/22/25	
2,6-Dinitrotoluene	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
2-Chloronaphthalene	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
2-Chlorophenol	900 U	5400	900	5	08/25/25 23:23	8/22/25	
2-Methylphenol	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
2-Nitroaniline	1300 U	28000	1300	5	08/25/25 23:23	8/22/25	
2-Nitrophenol	1300 U	5400	1300	5	08/25/25 23:23	8/22/25	
3,3'-Dichlorobenzidine	2000 U	5400	2000	5	08/25/25 23:23	8/22/25	
3- and 4-Methylphenol Coelution	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
3-Nitroaniline	1100 U	28000	1100	5	08/25/25 23:23	8/22/25	
4,6-Dinitro-2-methylphenol	3100 U	28000	3100	5	08/25/25 23:23	8/22/25	
4-Bromophenyl Phenyl Ether	1500 U	5400	1500	5	08/25/25 23:23	8/22/25	
4-Chloro-3-methylphenol	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
4-Chloroaniline	2000 U	5400	2000	5	08/25/25 23:23	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:22
Date Received: 08/20/25 09:30

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

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	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
4-Nitroaniline	1200 U	28000	1200	5	08/25/25 23:23	8/22/25	
4-Nitrophenol	2800 U	28000	2800	5	08/25/25 23:23	8/22/25	
Acetophenone	1600 U	5400	1600	5	08/25/25 23:23	8/22/25	
Atrazine	1700 U	5400	1700	5	08/25/25 23:23	8/22/25	
Benzaldehyde	1400 U	28000	1400	5	08/25/25 23:23	8/22/25	
Benzoic Acid	8500 U	28000	8500	5	08/25/25 23:23	8/22/25	
Bis(1-chloroisopropyl) Ether	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
Bis(2-chloroethoxy)methane	1400 U	5400	1400	5	08/25/25 23:23	8/22/25	
Bis(2-chloroethyl) Ether	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Bis(2-ethylhexyl) Phthalate	990 U	8200	990	5	08/25/25 23:23	8/22/25	
Butyl Benzyl Phthalate	1600 U	5400	1600	5	08/25/25 23:23	8/22/25	
Caprolactam	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
Carbazole	880 U	5400	880	5	08/25/25 23:23	8/22/25	
Di-n-butyl Phthalate	870 U	5400	870	5	08/25/25 23:23	8/22/25	
Di-n-octyl Phthalate	1900 U	5400	1900	5	08/25/25 23:23	8/22/25	
Diethyl Phthalate	960 U	5400	960	5	08/25/25 23:23	8/22/25	
Dimethyl Phthalate	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Hexachlorobenzene	1300 U	5400	1300	5	08/25/25 23:23	8/22/25	
Hexachlorobutadiene	1900 U	5400	1900	5	08/25/25 23:23	8/22/25	
Hexachlorocyclopentadiene	1800 U	5400	1800	5	08/25/25 23:23	8/22/25	
Hexachloroethane	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Isophorone	1200 U	5400	1200	5	08/25/25 23:23	8/22/25	
N-Nitrosodi-n-propylamine	1700 U	5400	1700	5	08/25/25 23:23	8/22/25	
N-Nitrosodiphenylamine	3400 U	5400	3400	5	08/25/25 23:23	8/22/25	
Nitrobenzene	970 U	5400	970	5	08/25/25 23:23	8/22/25	
Pentachlorophenol (PCP)	5400 U	28000	5400	5	08/25/25 23:23	8/22/25	
Phenol	1100 U	5400	1100	5	08/25/25 23:23	8/22/25	
Pyridine	730 U	28000	730	5	08/25/25 23:23	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	79	18 - 104	08/25/25 23:23	
Nitrobenzene-d5	76	12 - 98	08/25/25 23:23	
p-Terphenyl-d14	99	26 - 134	08/25/25 23:23	

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dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:35
Date Received: 08/20/25 09:30

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

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	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
1-Methylnaphthalene	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
2-Methylnaphthalene	2000 U	5500	2000	5	08/25/25 23:47	8/22/25	
Acenaphthene	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Acenaphthylene	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
Anthracene	930 U	5500	930	5	08/25/25 23:47	8/22/25	
Benz(a)anthracene	830 U	5500	830	5	08/25/25 23:47	8/22/25	
Benzo(a)pyrene	1500 U	5500	1500	5	08/25/25 23:47	8/22/25	
Benzo(b)fluoranthene	930 U	5500	930	5	08/25/25 23:47	8/22/25	
Benzo(g,h,i)perylene	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
Benzo(k)fluoranthene	900 U	5500	900	5	08/25/25 23:47	8/22/25	
1,4-Dichlorobenzene	930 U	5500	930	5	08/25/25 23:47	8/22/25	
Biphenyl	1700 U	5500	1700	5	08/25/25 23:47	8/22/25	
Chrysene	820 U	5500	820	5	08/25/25 23:47	8/22/25	
1,4-Dioxane	540 U	1100	540	5	08/25/25 23:47	8/22/25	
Dibenz(a,h)anthracene	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
Dibenzofuran	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Fluoranthene	1400 U	5500	1400	5	08/25/25 23:47	8/22/25	
Fluorene	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Indeno(1,2,3-cd)pyrene	1800 U	5500	1800	5	08/25/25 23:47	8/22/25	
Naphthalene	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Phenanthrene	790 U	5500	790	5	08/25/25 23:47	8/22/25	
Pyrene	920 U	5500	920	5	08/25/25 23:47	8/22/25	
2,3,4,6-Tetrachlorophenol	2000 U	5500	2000	5	08/25/25 23:47	8/22/25	
2,4,5-Trichlorophenol	1400 U	5500	1400	5	08/25/25 23:47	8/22/25	
2,4,6-Trichlorophenol	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
2,4-Dichlorophenol	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
2,4-Dimethylphenol	1000 U	5500	1000	5	08/25/25 23:47	8/22/25	
2,4-Dinitrophenol	9400 U	29000	9400	5	08/25/25 23:47	8/22/25	
2,4-Dinitrotoluene	2200 U	5500	2200	5	08/25/25 23:47	8/22/25	
2,6-Dinitrotoluene	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
2-Chloronaphthalene	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
2-Chlorophenol	930 U	5500	930	5	08/25/25 23:47	8/22/25	
2-Methylphenol	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
2-Nitroaniline	1400 U	29000	1400	5	08/25/25 23:47	8/22/25	
2-Nitrophenol	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
3,3'-Dichlorobenzidine	2100 U	5500	2100	5	08/25/25 23:47	8/22/25	
3- and 4-Methylphenol Coelution	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
3-Nitroaniline	1200 U	29000	1200	5	08/25/25 23:47	8/22/25	
4,6-Dinitro-2-methylphenol	3200 U	29000	3200	5	08/25/25 23:47	8/22/25	
4-Bromophenyl Phenyl Ether	1500 U	5500	1500	5	08/25/25 23:47	8/22/25	
4-Chloro-3-methylphenol	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
4-Chloroaniline	2100 U	5500	2100	5	08/25/25 23:47	8/22/25	

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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:35
Date Received: 08/20/25 09:30

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

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	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
4-Nitroaniline	1200 U	29000	1200	5	08/25/25 23:47	8/22/25	
4-Nitrophenol	2900 U	29000	2900	5	08/25/25 23:47	8/22/25	
Acetophenone	1600 U	5500	1600	5	08/25/25 23:47	8/22/25	
Atrazine	1700 U	5500	1700	5	08/25/25 23:47	8/22/25	
Benzaldehyde	1400 U	29000	1400	5	08/25/25 23:47	8/22/25	
Benzoic Acid	8700 U	29000	8700	5	08/25/25 23:47	8/22/25	
Bis(1-chloroisopropyl) Ether	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
Bis(2-chloroethoxy)methane	1400 U	5500	1400	5	08/25/25 23:47	8/22/25	
Bis(2-chloroethyl) Ether	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Bis(2-ethylhexyl) Phthalate	1100 U	8400	1100	5	08/25/25 23:47	8/22/25	
Butyl Benzyl Phthalate	1700 U	5500	1700	5	08/25/25 23:47	8/22/25	
Caprolactam	1300 U	5500	1300	5	08/25/25 23:47	8/22/25	
Carbazole	900 U	5500	900	5	08/25/25 23:47	8/22/25	
Di-n-butyl Phthalate	900 U	5500	900	5	08/25/25 23:47	8/22/25	
Di-n-octyl Phthalate	2000 U	5500	2000	5	08/25/25 23:47	8/22/25	
Diethyl Phthalate	990 U	5500	990	5	08/25/25 23:47	8/22/25	
Dimethyl Phthalate	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Hexachlorobenzene	1400 U	5500	1400	5	08/25/25 23:47	8/22/25	
Hexachlorobutadiene	2000 U	5500	2000	5	08/25/25 23:47	8/22/25	
Hexachlorocyclopentadiene	1800 U	5500	1800	5	08/25/25 23:47	8/22/25	
Hexachloroethane	1100 U	5500	1100	5	08/25/25 23:47	8/22/25	
Isophorone	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
N-Nitrosodi-n-propylamine	1700 U	5500	1700	5	08/25/25 23:47	8/22/25	
N-Nitrosodiphenylamine	3500 U	5500	3500	5	08/25/25 23:47	8/22/25	
Nitrobenzene	990 U	5500	990	5	08/25/25 23:47	8/22/25	
Pentachlorophenol (PCP)	5500 U	29000	5500	5	08/25/25 23:47	8/22/25	
Phenol	1200 U	5500	1200	5	08/25/25 23:47	8/22/25	
Pyridine	750 U	29000	750	5	08/25/25 23:47	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	76	18 - 104	08/25/25 23:47	
Nitrobenzene-d5	71	12 - 98	08/25/25 23:47	
p-Terphenyl-d14	97	26 - 134	08/25/25 23:47	

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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 00:50
Date Received: 08/20/25 09:30

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

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	260 U	1200	260	1	08/26/25 00:11	8/22/25	
1-Methylnaphthalene	220 U	1200	220	1	08/26/25 00:11	8/22/25	
2-Methylnaphthalene	410 U	1200	410	1	08/26/25 00:11	8/22/25	
Acenaphthene	220 U	1200	220	1	08/26/25 00:11	8/22/25	
Acenaphthylene	240 U	1200	240	1	08/26/25 00:11	8/22/25	
Anthracene	200 U	1200	200	1	08/26/25 00:11	8/22/25	
Benz(a)anthracene	180 U	1200	180	1	08/26/25 00:11	8/22/25	
Benzo(a)pyrene	310 U	1200	310	1	08/26/25 00:11	8/22/25	
Benzo(b)fluoranthene	200 U	1200	200	1	08/26/25 00:11	8/22/25	
Benzo(g,h,i)perylene	270 U	1200	270	1	08/26/25 00:11	8/22/25	
Benzo(k)fluoranthene	190 U	1200	190	1	08/26/25 00:11	8/22/25	
1,4-Dichlorobenzene	200 U	1200	200	1	08/26/25 00:11	8/22/25	
Biphenyl	350 U	1200	350	1	08/26/25 00:11	8/22/25	
Chrysene	180 U	1200	180	1	08/26/25 00:11	8/22/25	
Dibenz(a,h)anthracene	260 U	1200	260	1	08/26/25 00:11	8/22/25	
1,4-Dioxane	120 U	240	120	1	08/26/25 00:11	8/22/25	
Dibenzofuran	220 U	1200	220	1	08/26/25 00:11	8/22/25	
Fluoranthene	300 U	1200	300	1	08/26/25 00:11	8/22/25	
Fluorene	220 U	1200	220	1	08/26/25 00:11	8/22/25	
Indeno(1,2,3-cd)pyrene	380 U	1200	380	1	08/26/25 00:11	8/22/25	
Naphthalene	220 U	1200	220	1	08/26/25 00:11	8/22/25	
Phenanthrene	170 U	1200	170	1	08/26/25 00:11	8/22/25	
Pyrene	200 U	1200	200	1	08/26/25 00:11	8/22/25	
2,3,4,6-Tetrachlorophenol	410 U	1200	410	1	08/26/25 00:11	8/22/25	
2,4,5-Trichlorophenol	290 U	1200	290	1	08/26/25 00:11	8/22/25	
2,4,6-Trichlorophenol	260 U	1200	260	1	08/26/25 00:11	8/22/25	
2,4-Dichlorophenol	230 U	1200	230	1	08/26/25 00:11	8/22/25	
2,4-Dimethylphenol	210 U	1200	210	1	08/26/25 00:11	8/22/25	
2,4-Dinitrophenol	2000 U	6000	2000	1	08/26/25 00:11	8/22/25	
2,4-Dinitrotoluene	450 U	1200	450	1	08/26/25 00:11	8/22/25	
2,6-Dinitrotoluene	260 U	1200	260	1	08/26/25 00:11	8/22/25	
2-Chloronaphthalene	240 U	1200	240	1	08/26/25 00:11	8/22/25	
2-Chlorophenol	200 U	1200	200	1	08/26/25 00:11	8/22/25	
2-Methylphenol	250 U	1200	250	1	08/26/25 00:11	8/22/25	
2-Nitroaniline	280 U	6000	280	1	08/26/25 00:11	8/22/25	
2-Nitrophenol	270 U	1200	270	1	08/26/25 00:11	8/22/25	
3,3'-Dichlorobenzidine	430 U	1200	430	1	08/26/25 00:11	8/22/25	
3- and 4-Methylphenol Coelution	230 U	1200	230	1	08/26/25 00:11	8/22/25	
3-Nitroaniline	240 U	6000	240	1	08/26/25 00:11	8/22/25	
4,6-Dinitro-2-methylphenol	660 U	6000	660	1	08/26/25 00:11	8/22/25	
4-Bromophenyl Phenyl Ether	310 U	1200	310	1	08/26/25 00:11	8/22/25	
4-Chloro-3-methylphenol	240 U	1200	240	1	08/26/25 00:11	8/22/25	
4-Chloroaniline	430 U	1200	430	1	08/26/25 00:11	8/22/25	

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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 00:50
Date Received: 08/20/25 09:30

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

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	250 U	1200	250	1	08/26/25 00:11	8/22/25	
4-Nitroaniline	260 U	6000	260	1	08/26/25 00:11	8/22/25	
4-Nitrophenol	600 U	6000	600	1	08/26/25 00:11	8/22/25	
Acetophenone	340 U	1200	340	1	08/26/25 00:11	8/22/25	
Atrazine	350 U	1200	350	1	08/26/25 00:11	8/22/25	
Benzaldehyde	290 U	6000	290	1	08/26/25 00:11	8/22/25	
Benzoic Acid	1900 U	6000	1900	1	08/26/25 00:11	8/22/25	
Bis(1-chloroisopropyl) Ether	240 U	1200	240	1	08/26/25 00:11	8/22/25	
Bis(2-chloroethoxy)methane	290 U	1200	290	1	08/26/25 00:11	8/22/25	
Bis(2-chloroethyl) Ether	230 U	1200	230	1	08/26/25 00:11	8/22/25	
Bis(2-ethylhexyl) Phthalate	220 U	1800	220	1	08/26/25 00:11	8/22/25	
Butyl Benzyl Phthalate	340 U	1200	340	1	08/26/25 00:11	8/22/25	
Caprolactam	260 U	1200	260	1	08/26/25 00:11	8/22/25	
Carbazole	190 U	1200	190	1	08/26/25 00:11	8/22/25	
Di-n-butyl Phthalate	190 U	1200	190	1	08/26/25 00:11	8/22/25	
Di-n-octyl Phthalate	410 U	1200	410	1	08/26/25 00:11	8/22/25	
Diethyl Phthalate	210 U	1200	210	1	08/26/25 00:11	8/22/25	
Dimethyl Phthalate	230 U	1200	230	1	08/26/25 00:11	8/22/25	
Hexachlorobenzene	280 U	1200	280	1	08/26/25 00:11	8/22/25	
Hexachlorobutadiene	410 U	1200	410	1	08/26/25 00:11	8/22/25	
Hexachlorocyclopentadiene	370 U	1200	370	1	08/26/25 00:11	8/22/25	
Hexachloroethane	220 U	1200	220	1	08/26/25 00:11	8/22/25	
Isophorone	250 U	1200	250	1	08/26/25 00:11	8/22/25	
N-Nitrosodi-n-propylamine	360 U	1200	360	1	08/26/25 00:11	8/22/25	
N-Nitrosodiphenylamine	730 U	1200	730	1	08/26/25 00:11	8/22/25	
Nitrobenzene	210 U	1200	210	1	08/26/25 00:11	8/22/25	
Pentachlorophenol (PCP)	1200 U	6000	1200	1	08/26/25 00:11	8/22/25	
Phenol	240 U	1200	240	1	08/26/25 00:11	8/22/25	
Pyridine	160 U	6000	160	1	08/26/25 00:11	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	65	18 - 104	08/26/25 00:11	
Nitrobenzene-d5	62	12 - 98	08/26/25 00:11	
p-Terphenyl-d14	80	26 - 134	08/26/25 00:11	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:22
Date Received: 08/20/25 09:30

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

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	26	5.8	2.9	1	08/27/25 18:19	8/22/25	
4,4'-DDE	110	5.8	2.9	1	08/27/25 18:19	8/22/25	
4,4'-DDT	120	5.8	2.9	1	08/27/25 18:19	8/22/25	
Aldrin	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Chlordane	15 U	28	15	1	08/27/25 18:19	8/22/25	
Dieldrin	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endosulfan I	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endosulfan II	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endosulfan Sulfate	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endrin	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endrin Aldehyde	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Endrin Ketone	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Heptachlor	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Heptachlor Epoxide	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Methoxychlor	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
Toxaphene	65 U	110	65	1	08/27/25 18:19	8/22/25	
alpha-BHC	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
alpha-Chlordane	5.4 J	5.8	2.9	1	08/27/25 18:19	8/22/25	
beta-BHC	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
delta-BHC	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
gamma-BHC (Lindane)	2.9 U	5.8	2.9	1	08/27/25 18:19	8/22/25	
gamma-Chlordane	4.0 J	5.8	2.9	1	08/27/25 18:19	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 159	08/27/25 18:19	
Tetrachloro-m-xylene	56	10 - 132	08/27/25 18:19	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:35
Date Received: 08/20/25 09:30

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

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	20	5.7	2.9	1	08/27/25 18:36	8/22/25	
4,4'-DDE	86	5.7	2.9	1	08/27/25 18:36	8/22/25	
4,4'-DDT	20	5.7	2.9	1	08/27/25 18:36	8/22/25	
Aldrin	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Chlordane	15 U	28	15	1	08/27/25 18:36	8/22/25	
Dieldrin	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endosulfan I	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endosulfan II	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endosulfan Sulfate	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endrin	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endrin Aldehyde	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Endrin Ketone	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Heptachlor	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Heptachlor Epoxide	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Methoxychlor	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
Toxaphene	65 U	110	65	1	08/27/25 18:36	8/22/25	
alpha-BHC	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
alpha-Chlordane	3.7 J	5.7	2.9	1	08/27/25 18:36	8/22/25	
beta-BHC	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
delta-BHC	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
gamma-BHC (Lindane)	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	
gamma-Chlordane	2.9 U	5.7	2.9	1	08/27/25 18:36	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 159	08/27/25 18:36	
Tetrachloro-m-xylene	45	10 - 132	08/27/25 18:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 00:50
Date Received: 08/20/25 09:30

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

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	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
4,4'-DDE	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
4,4'-DDT	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Aldrin	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Chlordane	15 U	30	15	1	08/27/25 18:53	8/22/25	
Dieldrin	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endosulfan I	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endosulfan II	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endosulfan Sulfate	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endrin	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endrin Aldehyde	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Endrin Ketone	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Heptachlor	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Heptachlor Epoxide	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Methoxychlor	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
Toxaphene	68 U	120	68	1	08/27/25 18:53	8/22/25	
alpha-BHC	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
alpha-Chlordane	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
beta-BHC	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
delta-BHC	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
gamma-BHC (Lindane)	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	
gamma-Chlordane	3.0 U	6.0	3.0	1	08/27/25 18:53	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 159	08/27/25 18:53	
Tetrachloro-m-xylene	45	10 - 132	08/27/25 18:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:22
Date Received: 08/20/25 09:30

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

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	59 U	110	59	1	08/26/25 23:20	8/22/25	
Aroclor 1221	89 U	230	89	1	08/26/25 23:20	8/22/25	
Aroclor 1232	65 U	110	65	1	08/26/25 23:20	8/22/25	
Aroclor 1242	59 U	110	59	1	08/26/25 23:20	8/22/25	
Aroclor 1248	62 U	110	62	1	08/26/25 23:20	8/22/25	
Aroclor 1254	59 U	110	59	1	08/26/25 23:20	8/22/25	
Aroclor 1260	59 U	110	59	1	08/26/25 23:20	8/22/25	
Aroclor 1262	59 U	110	59	1	08/26/25 23:20	8/22/25	
Aroclor 1268	59 U	110	59	1	08/26/25 23:20	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 138	08/26/25 23:20	
Tetrachloro-m-xylene	65	11 - 122	08/26/25 23:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:35
Date Received: 08/20/25 09:30

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

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	58 U	110	58	1	08/26/25 23:33	8/22/25	
Aroclor 1221	88 U	230	88	1	08/26/25 23:33	8/22/25	
Aroclor 1232	65 U	110	65	1	08/26/25 23:33	8/22/25	
Aroclor 1242	58 U	110	58	1	08/26/25 23:33	8/22/25	
Aroclor 1248	61 U	110	61	1	08/26/25 23:33	8/22/25	
Aroclor 1254	58 U	110	58	1	08/26/25 23:33	8/22/25	
Aroclor 1260	58 U	110	58	1	08/26/25 23:33	8/22/25	
Aroclor 1262	58 U	110	58	1	08/26/25 23:33	8/22/25	
Aroclor 1268	58 U	110	58	1	08/26/25 23:33	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 23:33	
Tetrachloro-m-xylene	59	11 - 122	08/26/25 23:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 00:50
Date Received: 08/20/25 09:30

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

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	61 U	120	61	1	08/26/25 23:47	8/22/25	
Aroclor 1221	93 U	240	93	1	08/26/25 23:47	8/22/25	
Aroclor 1232	68 U	120	68	1	08/26/25 23:47	8/22/25	
Aroclor 1242	61 U	120	61	1	08/26/25 23:47	8/22/25	
Aroclor 1248	64 U	120	64	1	08/26/25 23:47	8/22/25	
Aroclor 1254	61 U	120	61	1	08/26/25 23:47	8/22/25	
Aroclor 1260	61 U	120	61	1	08/26/25 23:47	8/22/25	
Aroclor 1262	61 U	120	61	1	08/26/25 23:47	8/22/25	
Aroclor 1268	61 U	120	61	1	08/26/25 23:47	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 138	08/26/25 23:47	
Tetrachloro-m-xylene	53	11 - 122	08/26/25 23:47	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:22
Date Received: 08/20/25 09:30

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

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	5.8 U	12	5.8	1	08/27/25 06:33	8/25/25	
2,4,5-TP	5.2 U	12	5.2	1	08/27/25 06:33	8/25/25	
2,4-D	7.5 U	12	7.5	1	08/27/25 06:33	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	53	10 - 151	08/27/25 06:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 12:35
Date Received: 08/20/25 09:30

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

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	5.7 U	11	5.7	1	08/27/25 06:52	8/25/25	
2,4,5-TP	5.1 U	11	5.1	1	08/27/25 06:52	8/25/25	
2,4-D	7.4 U	11	7.4	1	08/27/25 06:52	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	50	10 - 151	08/27/25 06:52	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: 08/13/25 00:50
Date Received: 08/20/25 09:30

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

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	08/28/25 20:23	8/26/25	
2,4,5-TP	5.5 U	12	5.5	1	08/28/25 20:23	8/26/25	
2,4-D	7.9 U	12	7.9	1	08/28/25 20:23	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	45	10 - 151	08/28/25 20:23	



General Chemistry

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Sample Name: 12027 SB01 (1-2)
Lab Code: R2510160-001

Service Request: R2510160
Date Collected: 08/13/25 12:22
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	86.7	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Sample Name: 12027 SB02 (3-4)
Lab Code: R2510160-002

Service Request: R2510160
Date Collected: 08/13/25 12:35
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	88.1	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Sample Name: 12027 SB03 (5-6)
Lab Code: R2510160-003

Service Request: R2510160
Date Collected: 08/13/25 00:50
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	82.4	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160

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
12027 SB01 (1-2)	R2510160-001	79	76	99
12027 SB02 (3-4)	R2510160-002	76	71	97
12027 SB03 (5-6)	R2510160-003	65	62	80
Method Blank	RQ2511156-01	64	58	85
Lab Control Sample	RQ2511156-02	68	59	85
Duplicate Lab Control Sample	RQ2511156-03	73	63	91

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

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
1,2,4,5-Tetrachlorobenzene	74 U	330	74	1	08/25/25 19:22	8/22/25	
1-Methylnaphthalene	61 U	330	61	1	08/25/25 19:22	8/22/25	
2-Methylnaphthalene	120 U	330	120	1	08/25/25 19:22	8/22/25	
Acenaphthene	63 U	330	63	1	08/25/25 19:22	8/22/25	
Acenaphthylene	67 U	330	67	1	08/25/25 19:22	8/22/25	
Anthracene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Benz(a)anthracene	49 U	330	49	1	08/25/25 19:22	8/22/25	
Benzo(a)pyrene	88 U	330	88	1	08/25/25 19:22	8/22/25	
Benzo(b)fluoranthene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Benzo(g,h,i)perylene	76 U	330	76	1	08/25/25 19:22	8/22/25	
Benzo(k)fluoranthene	54 U	330	54	1	08/25/25 19:22	8/22/25	
1,4-Dichlorobenzene	55 U	330	55	1	08/25/25 19:22	8/22/25	
Biphenyl	98 U	330	98	1	08/25/25 19:22	8/22/25	
Chrysene	49 U	330	49	1	08/25/25 19:22	8/22/25	
1,4-Dioxane	32 U	66	32	1	08/25/25 19:22	8/22/25	
Dibenz(a,h)anthracene	72 U	330	72	1	08/25/25 19:22	8/22/25	
Dibenzofuran	60 U	330	60	1	08/25/25 19:22	8/22/25	
Fluoranthene	83 U	330	83	1	08/25/25 19:22	8/22/25	
Fluorene	62 U	330	62	1	08/25/25 19:22	8/22/25	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	08/25/25 19:22	8/22/25	
Naphthalene	62 U	330	62	1	08/25/25 19:22	8/22/25	
Phenanthrene	47 U	330	47	1	08/25/25 19:22	8/22/25	
Pyrene	55 U	330	55	1	08/25/25 19:22	8/22/25	
2,3,4,6-Tetrachlorophenol	120 U	330	120	1	08/25/25 19:22	8/22/25	
2,4,5-Trichlorophenol	82 U	330	82	1	08/25/25 19:22	8/22/25	
2,4,6-Trichlorophenol	74 U	330	74	1	08/25/25 19:22	8/22/25	
2,4-Dichlorophenol	64 U	330	64	1	08/25/25 19:22	8/22/25	
2,4-Dimethylphenol	59 U	330	59	1	08/25/25 19:22	8/22/25	
2,4-Dinitrophenol	560 U	1700	560	1	08/25/25 19:22	8/22/25	
2,4-Dinitrotoluene	130 U	330	130	1	08/25/25 19:22	8/22/25	
2,6-Dinitrotoluene	72 U	330	72	1	08/25/25 19:22	8/22/25	
2-Chloronaphthalene	66 U	330	66	1	08/25/25 19:22	8/22/25	
2-Chlorophenol	55 U	330	55	1	08/25/25 19:22	8/22/25	
2-Methylphenol	69 U	330	69	1	08/25/25 19:22	8/22/25	
2-Nitroaniline	78 U	1700	78	1	08/25/25 19:22	8/22/25	
2-Nitrophenol	77 U	330	77	1	08/25/25 19:22	8/22/25	
3,3'-Dichlorobenzidine	120 U	330	120	1	08/25/25 19:22	8/22/25	
3- and 4-Methylphenol Coelution	63 U	330	63	1	08/25/25 19:22	8/22/25	
3-Nitroaniline	67 U	1700	67	1	08/25/25 19:22	8/22/25	
4,6-Dinitro-2-methylphenol	190 U	1700	190	1	08/25/25 19:22	8/22/25	
4-Bromophenyl Phenyl Ether	87 U	330	87	1	08/25/25 19:22	8/22/25	
4-Chloro-3-methylphenol	67 U	330	67	1	08/25/25 19:22	8/22/25	
4-Chloroaniline	120 U	330	120	1	08/25/25 19:22	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

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	08/25/25 19:22	8/22/25	
4-Nitroaniline	71 U	1700	71	1	08/25/25 19:22	8/22/25	
4-Nitrophenol	170 U	1700	170	1	08/25/25 19:22	8/22/25	
Acetophenone	95 U	330	95	1	08/25/25 19:22	8/22/25	
Atrazine	98 U	330	98	1	08/25/25 19:22	8/22/25	
Benzaldehyde	80 U	1700	80	1	08/25/25 19:22	8/22/25	
Benzoic Acid	520 U	1700	520	1	08/25/25 19:22	8/22/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/25/25 19:22	8/22/25	
Bis(2-ethylhexyl) Phthalate	61 U	500	61	1	08/25/25 19:22	8/22/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/25/25 19:22	8/22/25	
Caprolactam	73 U	330	73	1	08/25/25 19:22	8/22/25	
Carbazole	54 U	330	54	1	08/25/25 19:22	8/22/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/25/25 19:22	8/22/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/25/25 19:22	8/22/25	
Diethyl Phthalate	59 U	330	59	1	08/25/25 19:22	8/22/25	
Dimethyl Phthalate	63 U	330	63	1	08/25/25 19:22	8/22/25	
Hexachlorobenzene	79 U	330	79	1	08/25/25 19:22	8/22/25	
Hexachlorobutadiene	120 U	330	120	1	08/25/25 19:22	8/22/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/25/25 19:22	8/22/25	
Hexachloroethane	62 U	330	62	1	08/25/25 19:22	8/22/25	
Isophorone	69 U	330	69	1	08/25/25 19:22	8/22/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/25/25 19:22	8/22/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/25/25 19:22	8/22/25	
Nitrobenzene	59 U	330	59	1	08/25/25 19:22	8/22/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/25/25 19:22	8/22/25	
Phenol	67 U	330	67	1	08/25/25 19:22	8/22/25	
Pyridine	45 U	1700	45	1	08/25/25 19:22	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	18 - 104	08/25/25 19:22	
Nitrobenzene-d5	58	12 - 98	08/25/25 19:22	
p-Terphenyl-d14	85	26 - 134	08/25/25 19:22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511156-02					Duplicate Lab Control Sample RQ2511156-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	8270E	1980	3330	59	2100	3320	63	29-100	6	30
1,2,4,5-Tetrachlorobenzene	8270E	2100	3330	63	2210	3320	66	20-126	5	30
2-Methylnaphthalene	8270E	1870	3330	56	2000	3320	60	29-99	7	30
Acenaphthene	8270E	2300	3330	69	2430	3320	73	41-110	6	30
Acenaphthylene	8270E	2580	3330	77	2700	3320	81	44-122	5	30
Anthracene	8270E	2420	3330	73	2580	3320	78	41-123	6	30
Benz(a)anthracene	8270E	2510	3330	75	2740	3320	83	44-116	9	30
Benzo(a)pyrene	8270E	2820	3330	85	3030	3320	91	56-146	7	30
Benzo(b)fluoranthene	8270E	2390	3330	72	2530	3320	76	47-120	6	30
Benzo(g,h,i)perylene	8270E	2360	3330	71	2530	3320	76	41-129	7	30
Benzo(k)fluoranthene	8270E	2560	3330	77	2770	3320	83	49-124	8	30
1,4-Dichlorobenzene	8270E	1880	3330	56	2060	3320	62	16-83	9	30
Biphenyl	8270E	2180	3330	65	2300	3320	69	24-112	6	30
Chrysene	8270E	2560	3330	77	2770	3320	84	44-119	8	30
1,4-Dioxane	8270E	1390	3330	42	1490	3320	45	10-58	7	30
Dibenz(a,h)anthracene	8270E	2490	3330	75	2700	3320	81	18-146	8	30
Dibenzofuran	8270E	2380	3330	72	2520	3320	76	43-113	6	30
Fluoranthene	8270E	2550	3330	77	2680	3320	81	39-128	5	30
Fluorene	8270E	2400	3330	72	2520	3320	76	40-117	5	30
Indeno(1,2,3-cd)pyrene	8270E	2640	3330	79	2810	3320	85	43-129	6	30
Naphthalene	8270E	1900	3330	57	2010	3320	60	31-93	5	30
Phenanthrene	8270E	2240	3330	67	2380	3320	72	39-120	6	30
Pyrene	8270E	2440	3330	73	2620	3320	79	45-125	7	30
2,3,4,6-Tetrachlorophenol	8270E	2720	3330	82	2960	3320	89	42-117	8	30
2,4,5-Trichlorophenol	8270E	2510	3330	75	2650	3320	80	40-114	5	30
2,4,6-Trichlorophenol	8270E	2390	3330	72	2550	3320	77	33-108	6	30
2,4-Dichlorophenol	8270E	2140	3330	64	2290	3320	69	30-103	7	30
2,4-Dimethylphenol	8270E	2110	3330	63	2170	3320	65	32-100	3	30
2,4-Dinitrophenol	8270E	1800	3330	54	1930	3320	58	10-97	7	30
2,4-Dinitrotoluene	8270E	2560	3330	77	2740	3320	82	53-120	7	30
2,6-Dinitrotoluene	8270E	2540	3330	76	2700	3320	81	48-119	6	30
2-Chloronaphthalene	8270E	2310	3330	69	2430	3320	73	33-103	5	30
2-Chlorophenol	8270E	2070	3330	62	2270	3320	68	26-90	9	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511156-02					Duplicate Lab Control Sample RQ2511156-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2-Methylphenol	8270E	2230	3330	67	2550	3320	77	33-99	13	30
2-Nitroaniline	8270E	2450	3330	74	2580	3320	78	41-119	5	30
2-Nitrophenol	8270E	2000	3330	60	2130	3320	64	24-98	6	30
3- and 4-Methylphenol Coelution	8270E	2410	3330	72	2620	3320	79	32-100	8	30
3-Nitroaniline	8270E	1640 J	3330	49	1710	3320	52	29-105	4	30
4,6-Dinitro-2-methylphenol	8270E	2350	3330	71	2510	3320	76	20-105	7	30
4-Bromophenyl Phenyl Ether	8270E	2450	3330	74	2560	3320	77	37-116	5	30
4-Chloro-3-methylphenol	8270E	2250	3330	68	2430	3320	73	40-116	8	30
4-Chloroaniline	8270E	765	3330	23	705	3320	21	10-87	8	30
4-Chlorophenyl Phenyl Ether	8270E	2340	3330	70	2490	3320	75	42-111	6	30
4-Nitroaniline	8270E	1850	3330	56	2080	3320	63	43-120	12	30
4-Nitrophenol	8270E	2090	3330	63	2200	3320	66	34-116	5	30
Acetophenone	8270E	2010	3330	60	2160	3320	65	23-87	7	30
Benzoic Acid	8270E	1910	3330	57	2060	3320	62	10-126	7	30
Bis(1-chloroisopropyl) Ether	8270E	2200	3330	66	2390	3320	72	22-99	8	30
Bis(2-chloroethoxy)methane	8270E	2130	3330	64	2330	3320	70	38-119	9	30
Bis(2-chloroethyl) Ether	8270E	2030	3330	61	2190	3320	66	23-94	8	30
Bis(2-ethylhexyl) Phthalate	8270E	2760	3330	83	3010	3320	91	38-139	8	30
Butyl Benzyl Phthalate	8270E	2590	3330	78	2790	3320	84	40-134	7	30
Caprolactam	8270E	2030	3330	61	2170	3320	65	21-128	7	30
Carbazole	8270E	2410	3330	72	2610	3320	79	42-131	8	30
Di-n-butyl Phthalate	8270E	2650	3330	80	2860	3320	86	42-141	8	30
Di-n-octyl Phthalate	8270E	2980	3330	90	3290	3320	99	38-143	10	30
Diethyl Phthalate	8270E	2370	3330	71	2550	3320	77	43-118	7	30
Dimethyl Phthalate	8270E	2420	3330	73	2590	3320	78	40-118	7	30
Hexachlorobenzene	8270E	2370	3330	71	2530	3320	76	35-122	7	30
Hexachlorobutadiene	8270E	1910	3330	57	2020	3320	61	28-96	6	30
Hexachlorocyclopentadiene	8270E	2210	3330	66	2380	3320	72	10-111	7	30
Hexachloroethane	8270E	1930	3330	58	2090	3320	63	18-85	8	30
Isophorone	8270E	2150	3330	65	2320	3320	70	39-104	8	30
N-Nitrosodi-n-propylamine	8270E	2120	3330	64	2300	3320	69	30-98	9	30
N-Nitrosodiphenylamine	8270E	2660	3330	80	2800	3320	84	43-130	5	30
Nitrobenzene	8270E	2020	3330	61	2130	3320	64	31-99	5	30

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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/25/25

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	1960	3330	59	2120	3320	36-138	8	30
Phenol	8270E	2180	3330	65	2320	3320	31-100	7	30
Pyridine	8270E	3650	6650	55	3880	6640	12-80	6	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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

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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160

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
12027 SB01 (1-2)	R2510160-001	69	56
12027 SB02 (3-4)	R2510160-002	63	45
12027 SB03 (5-6)	R2510160-003	66	45
Method Blank	RQ2511157-01	69	56
Lab Control Sample	RQ2511157-02	89	67
Duplicate Lab Control Sample	RQ2511157-03	72	60

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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

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	08/26/25 19:05	8/22/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Aldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Chlordane	4.2 U	8.3	4.2	1	08/26/25 19:05	8/22/25	
Dieldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Toxaphene	19 U	33	19	1	08/26/25 19:05	8/22/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
beta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
delta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 159	08/26/25 19:05	
Tetrachloro-m-xylene	56	10 - 132	08/26/25 19:05	

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample RQ2511157-02					Duplicate Lab Control Sample RQ2511157-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	6.85	6.60	104	5.14	6.59	78	48-121	28	30
4,4'-DDE	8081B	6.08	6.60	92	5.34	6.59	81	51-119	13	30
4,4'-DDT	8081B	7.19	6.60	109	4.95	6.59	75	51-126	37*	30
Aldrin	8081B	5.92	6.60	90	5.01	6.59	76	45-109	17	30
Dieldrin	8081B	6.24	6.60	95	5.32	6.59	81	56-111	16	30
Endosulfan I	8081B	5.74	6.60	87	4.81	6.59	73	54-109	18	30
Endosulfan II	8081B	6.35	6.60	96	5.02	6.59	76	50-116	23	30
Endosulfan Sulfate	8081B	6.42	6.60	97	5.25	6.59	80	55-115	20	30
Endrin	8081B	6.53	6.60	99	5.11	6.59	78	49-124	24	30
Endrin Aldehyde	8081B	7.79	6.60	118	5.67	6.59	86	21-139	31*	30
Endrin Ketone	8081B	6.96	6.60	105	5.27	6.59	80	50-124	28	30
Heptachlor	8081B	6.61	6.60	100	5.26	6.59	80	43-115	23	30
Heptachlor Epoxide	8081B	6.26	6.60	95	5.32	6.59	81	53-113	16	30
Methoxychlor	8081B	8.71	6.60	132	6.10	6.59	93	47-141	35*	30
alpha-BHC	8081B	5.92	6.60	90	4.95	6.59	75	44-109	18	30
alpha-Chlordane	8081B	6.05	6.60	92	4.91	6.59	74	52-114	21	30
beta-BHC	8081B	6.11	6.60	93	5.15	6.59	78	49-119	17	30
delta-BHC	8081B	6.20	6.60	94	5.22	6.59	79	49-113	17	30
gamma-BHC (Lindane)	8081B	6.10	6.60	93	5.13	6.59	78	43-112	17	30
gamma-Chlordane	8081B	6.45	6.60	98	5.41	6.59	82	51-117	18	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160

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
12027 SB01 (1-2)	R2510160-001	82	65
12027 SB02 (3-4)	R2510160-002	78	59
12027 SB03 (5-6)	R2510160-003	74	53
Method Blank	RQ2511157-01	78	58
Lab Control Sample	RQ2511157-04	81	68
Duplicate Lab Control Sample	RQ2511157-05	86	70

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

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	08/26/25 20:51	8/22/25	
Aroclor 1221	26 U	67	26	1	08/26/25 20:51	8/22/25	
Aroclor 1232	19 U	33	19	1	08/26/25 20:51	8/22/25	
Aroclor 1242	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1248	18 U	33	18	1	08/26/25 20:51	8/22/25	
Aroclor 1254	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1260	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1262	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1268	17 U	33	17	1	08/26/25 20:51	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 20:51	
Tetrachloro-m-xylene	58	11 - 122	08/26/25 20:51	

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/26/25

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				
			RQ2511157-04			RQ2511157-05				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	138	166	83	134	166	81	34-141	3	30
Aroclor 1260	8082A	145	166	87	146	166	88	30-158	<1	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
12027 SB01 (1-2)	R2510160-001	53
12027 SB02 (3-4)	R2510160-002	50
12027 SB03 (5-6)	R2510160-003	45
Method Blank	RQ2511241-01	54
Lab Control Sample	RQ2511241-02	54
Duplicate Lab Control Sample	RQ2511241-03	62
Method Blank	RQ2511320-01	60
Lab Control Sample	RQ2511320-02	55
Duplicate Lab Control Sample	RQ2511320-03	61

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511241-01

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	5.1 U	10	5.1	1	08/27/25 01:59	8/25/25	
2,4,5-TP	4.6 U	10	4.6	1	08/27/25 01:59	8/25/25	
2,4-D	6.6 U	10	6.6	1	08/27/25 01:59	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	10 - 151	08/27/25 01:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511320-01

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	08/28/25 19:28	8/26/25	
2,4,5-TP	4.5 U	10	4.5	1	08/28/25 19:28	8/26/25	
2,4-D	6.5 U	10	6.5	1	08/28/25 19:28	8/26/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	60	10 - 151	08/28/25 19:28	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/27/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511241-02					RQ2511241-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	17.4	25.1	69	19.2	24.8	78	19-127	10	30
2,4,5-TP	8151A	14.1	25.1	56	16.2	24.8	65	18-122	14	30
2,4-D	8151A	13.6	25.1	54	15.0	24.8	61	31-119	10	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 12027_Chelsea
Sample Matrix: Soil

Service Request: R2510160
Date Analyzed: 08/28/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ2511320-02

Duplicate Lab Control Sample
RQ2511320-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	15.5	24.9	62	17.6	24.9	71	19-127	13	30
2,4,5-TP	8151A	13.3	24.9	53	15.6	24.9	63	18-122	16	30
2,4-D	8151A	12.0	24.9	48	13.9	24.9	56	31-119	15	30



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October 20, 2025

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

Re: **DETR0060**

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

Work Order: **HN2515056**

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: HN2515056
Date Received: 10-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 10-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: HN2515056

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515056-001	12027 Chelsea SB03 TCLP	SOIL/SOLID	10/09/25 09:40	10/10/25 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: HN2515056
Date Collected: 10/09/25 09:40
Date Received: 10/10/25 07:00

CLIENT ID: 12027 Chelsea SB03 TCLP	Lab ID: HN2515056-001
---	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	ND		mg/L	0.0499	1	10/17/25 00:25	10/16/25 10:34
Chromium	EPA 6020B	ND		mg/L	0.0499	1	10/17/25 00:25	10/16/25 10:34



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2278706

Work Order: HN2515056
Date Collected: NA
Date Received: NA
Run ID: 3595179

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2278706-001
-----------	--------------------------------	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:06
Prep Date: 10/16/25 10:35

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2278706-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 00:08
Prep Date: 10/16/25 10:35

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.05	mg/L	0.0499	1		105	80-120			
Chromium	1.01	mg/L	0.0499	1		101	80-120			

The following samples were analyzed in this batch: HN2515056-001



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	12027 Chelsea	A	TCLP Arsenic
Work Order	Quote ID - 11631	Project Number	DETR0060	B	TCLP Chromium
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C	
Send Report To	Ryan Montri	Invoice Attn:		D	
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E	
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F	
Phone	734-397-3100	Phone	734-397-3100	G	
Fax		Fax		H	
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	Hold
1	12027 Chelsea SBO3 TCLP	10/9/25	0940	Soil		2	X	X			
2											
3											
4											
5											
6											
7											
8											
9											
10											

Sampler(s): Please Print & Sign Shannon Halzmann Ryan Montri		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: Shannon Halzmann		Date: 10/9/25	Time: 1601	Received by: [Signature]		Notes: QS to Bultman 10/10/25	
Relinquished by: [Signature]		Date: 10/9/25	Time: 1700	Received by (Laboratory): QS		QC Package: (Check Box Below)	
Logged by (Laboratory): BH		Date: 10/10/25	Time: 14:18	Checked by (Laboratory):		Cooler Temp. 12.7 1.9C	Level II: Standard QC Level III: Std QC + Raw Data 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
HN2515056

Telephone : + 1 616 399 6070

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

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

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

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ALS Holland Sample Receiving Checklist

Received by:

Brittany H

Date/Time:

10/10/25 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):

1.9/1.9c

Thermometer(s):

IR7

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

water

Cooler(s)/Kit(s):

1

Date/Time sample(s) sent to storage:

10/10/25 14:13

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:

ANALYST SUMMARY



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

Work Order: HN2515056

Sample Name: 12027 Chelsea SB03 TCLP
Laboratory Code: HN2515056-001
Sample Matrix: SOIL/SOLID

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

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2278706	Chloe Patrick	3595179	Hunter Johnson



right solutions.
right partner.

November 17, 2025

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

Re: **DETR0060 - 12027 Chelsea**

Date Received: **10/28/2025**
Work Order: **HN2516059**
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

Kathy Jones-Gronda

/S/ KATHY JONES-GRONDA

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea

Work Order: HN2516059
Date Received: 28-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 28-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.

WorkOrder: HN2516059

Analytical report amended to include the additional analysis requested. This replaces report dated 11/7/25.

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

HN2516059-001: One or more acid surrogate recoveries were below the lower control limits. The acidic sample results may be biased low.

HN2516059-001: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

EPA 8081B-3546-S (High)

Run ID: 3641348

HN2516059-001: 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: 12027 Chelsea SB02 (3-4')-R

Lab ID: HN2516059-001

Analyte	Results	Flag	MRL	Units	Method
1-Methylnaphthalene	198		180	µg/kg	EPA 8270E
2-Methylnaphthalene	234		180	µg/kg	EPA 8270E
Anthracene	234		180	µg/kg	EPA 8270E
Benzo(a)anthracene	342		180	µg/kg	EPA 8270E
Benzo(a)pyrene	324		180	µg/kg	EPA 8270E
Benzo(b)fluoranthene	450		180	µg/kg	EPA 8270E
Benzo(g,h,i)perylene	360		180	µg/kg	EPA 8270E
Chrysene	234		180	µg/kg	EPA 8270E
Fluoranthene	540		180	µg/kg	EPA 8270E
Indeno(1,2,3-cd) pyrene	306		180	µg/kg	EPA 8270E
Percent Moisture	8.7		0.1	%	EPA 3550C
Phenanthrene	414		180	µg/kg	EPA 8270E
Pyrene	666		180	µg/kg	EPA 8270E

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Workorder: HN2516059

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2516059-001	12027 Chelsea SB02 (3-4')-R	SOIL/SOLID	10/27/25 14:07	10/28/25 06:00



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	12027 CHELSEA						A	Pesticides (U.S. EPA Method 8081B (or Method 8081))			
Work Order		Project Number	DETR0060						B	Herbicides (U.S. EPA Method 8151A (or Method 8151))			
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group						C	SVOLs (US EPA METH 8151A (or 8151))			
Send Report To	Ryan Montri	Invoice Attn.							D				
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100						E				
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188						F				
Phone	734-397-3100	Phone	734-397-3100						G				
Fax		Fax							H				
e-Mail Address	RMontri@manniksmithgroup.com	e-Mail Address							I				
									J				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	Hold		
1	12027 CHELSEA SBO2(3-4)-R	10/27/25	1407	S	NA	1	X	X	X				
2													
3													
4													
5													
6													
7													
8													
9													
10													

ALS Project Manager:

Work Order #:

Environmental Division
Holland
Work Order Reference
HN2516059

Telephone : +1 616 399 8070

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 hours		Results Due Date:	
Relinquished by: WILEY DAVENPORT		Date: 10/27/25	Time: 1558	Received by: [Signature]		Notes: Quote# HN-061825-M&S-MA	
Relinquished by: [Signature]		Date: 10/27/25	Time: 1558	Received by (Laboratory): QS		QC Package: (Check Box Below)	
Logged by (Laboratory): BH		Date: 10/28/25	Time: 0829	Checked by (Laboratory):		Cooler Temp. 18.7 5.8C	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Other:	

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
Signature denotes acceptance of ALS Group USA, Corp. Terms and Conditions - Please click the link below for detailed Terms & Conditions:
<https://www.alsglobal.com/ALSGroupUSACorpTC>
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ALS Holland Sample Receiving Checklist

Received by: Brilliant H

Date/Time: 10/28/25 0600

Carrier Name: QS

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

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

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

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

Container/Temp Blank temperature in compliance? Yes / No

Temperature(s) (°C): 5.8/5.8c

Thermometer(s): 1R7

Sample(s) received on ice? Yes / No

Matrix/Matrices: Soil

Cooler(s)/Kit(s): 1

Date/Time sample(s) sent to storage: 10/28/25 0829

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 - 12027 Chelsea

Work Order: HN2516059

Sample Name: 12027 Chelsea SB02 (3-4')-R
Laboratory Code: HN2516059-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/27/25
Date Received: 10/28/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AA	2302720		3631423	Nicole Maleski
EPA 8081B	EPA 3546	001-AA	2305050	Mya Harmer	3641348	Madison VandenBer
EPA 8081B	EPA 3511	001-AC	2334132	Mac Peterson	3686395	Madison VandenBer
EPA 8151A	Method	001-AA	2309163	Sam Bruzan	3642247	Kathy Malmyga
EPA 8270E	EPA 3546	001-AA	2319451	Willow Julien	3667671	Sam Bruzan

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID

Work Order: HN2516059
Date Collected: 10/27/25 14:07
Date Received: 10/28/25 06:00

CLIENT ID: 12027 Chelsea SB02 (3-4')-R

Lab ID: HN2516059-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Chlorinated Herbicides by GC/ECD								
2,4,5-T	EPA 8151A	<2.42	U	µg/kg	13.1	1	10/30/25 17:41	10/29/25 10:50
2,4,5-TP (Silvex)	EPA 8151A	<4.31	U	µg/kg	13.1	1	10/30/25 17:41	10/29/25 10:50
2,4-D	EPA 8151A	<7.01	U	µg/kg	26.3	1	10/30/25 17:41	10/29/25 10:50
Surr: DCAA	EPA 8151A	56.0		%REC	10-116	1	10/30/25 17:41	10/29/25 10:50
General Chemistry Parameters								
Percent Moisture	EPA 3550C	8.7		%	0.1	1	10/28/25 11:36	NA
Organochlorine Pesticides by GC/ECD								
4,4'-DDD	EPA 8081B	<170	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
4,4'-DDE	EPA 8081B	<175	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
4,4'-DDT	EPA 8081B	<176	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Aldrin	EPA 8081B	<172	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
alpha-BHC	EPA 8081B	<175	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
beta-BHC	EPA 8081B	<174	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Chlordane, Technical	EPA 8081B	<263	U	µg/kg	663	10	10/30/25 01:43	10/29/25 11:36
cis-Chlordane	EPA 8081B	<177	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
delta-BHC	EPA 8081B	<174	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Dieldrin	EPA 8081B	<186	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endosulfan I	EPA 8081B	<178	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endosulfan II	EPA 8081B	<176	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endosulfan sulfate	EPA 8081B	<163	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endrin	EPA 8081B	<215	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endrin aldehyde	EPA 8081B	<168	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Endrin ketone	EPA 8081B	<161	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
gamma-BHC (Lindane)	EPA 8081B	<174	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Heptachlor	EPA 8081B	<171	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Heptachlor epoxide	EPA 8081B	<175	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Methoxychlor	EPA 8081B	<177	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36
Toxaphene	EPA 8081B	<286	U	µg/kg	1590	10	10/30/25 01:43	10/29/25 11:36
trans-Chlordane	EPA 8081B	<176	U	µg/kg	265	10	10/30/25 01:43	10/29/25 11:36

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID

Work Order: HN2516059
Date Collected: 10/27/25 14:07
Date Received: 10/28/25 06:00

CLIENT ID: 12027 Chelsea SB02 (3-4')-R

Lab ID: HN2516059-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
<i>Surr: Decachlorobiphenyl</i>	EPA 8081B	90.0		%REC	53-151	10	10/30/25 01:43	10/29/25 11:36
<i>Surr: Tetrachloro-m-xylene</i>	EPA 8081B	67.0		%REC	67-127	10	10/30/25 01:43	10/29/25 11:36

Semivolatile Organic Compounds by GC-MS

1,1'-Biphenyl (BZ-0)	EPA 8270E	<146	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
1,2,4,5-Tetrachlorobenzene	EPA 8270E	<207	U	µg/kg	8990	10	11/06/25 20:02	11/05/25 12:25
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	<645	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
1-Methylnaphthalene	EPA 8270E	198		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270E	<211	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,3,4,6-Tetrachlorophenol	EPA 8270E	<659	U	µg/kg	1800	10	11/06/25 20:02	11/05/25 12:25
2,4,5-Trichlorophenol	EPA 8270E	<533	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,4,6-Trichlorophenol	EPA 8270E	<239	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,4-Dichlorophenol	EPA 8270E	<484	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,4-Dimethylphenol	EPA 8270E	<463	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,4-Dinitrophenol	EPA 8270E	<6580	U	µg/kg	8990	10	11/06/25 20:02	11/05/25 12:25
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	<584	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	<230	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2-Chloronaphthalene	EPA 8270E	<126	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
2-Chlorophenol	EPA 8270E	<589	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270E	<751	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2-Methylnaphthalene	EPA 8270E	234		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
2-Methylphenol (o-Cresol)	EPA 8270E	<243	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2-Nitroaniline	EPA 8270E	<500	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
2-Nitrophenol	EPA 8270E	<256	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
3&4-Methylphenol	EPA 8270E	<490	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
3,3'-Dichlorobenzidine	EPA 8270E	<420	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
3-Nitroaniline	EPA 8270E	<522	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270E	<493	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID

Work Order: HN2516059
Date Collected: 10/27/25 14:07
Date Received: 10/28/25 06:00

CLIENT ID: 12027 Chelsea SB02 (3-4')-R

Lab ID: HN2516059-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270E	<256	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
4-Chloroaniline	EPA 8270E	<457	U	µg/kg	1800	10	11/06/25 20:02	11/05/25 12:25
4-Chlorophenyl phenylether	EPA 8270E	<249	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
4-Nitroaniline	EPA 8270E	<1400	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
4-Nitrophenol	EPA 8270E	<2110	U	µg/kg	8990	10	11/06/25 20:02	11/05/25 12:25
Acenaphthene	EPA 8270E	<130	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Acenaphthylene	EPA 8270E	<156	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Acetophenone	EPA 8270E	<141	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Anthracene	EPA 8270E	234		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Atrazine	EPA 8270E	<527	SU	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Benzaldehyde	EPA 8270E	<1380	U	µg/kg	1800	10	11/06/25 20:02	11/05/25 12:25
Benzo(a)anthracene	EPA 8270E	342		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Benzo(a)pyrene	EPA 8270E	324		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Benzo(b)fluoranthene	EPA 8270E	450		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Benzo(g,h,i)perylene	EPA 8270E	360		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Benzo(k)fluoranthene	EPA 8270E	<136	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
bis(2-Chloroethoxy) methane	EPA 8270E	<570	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
bis(2-Chloroethyl) ether	EPA 8270E	<255	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Butyl benzyl phthalate	EPA 8270E	<1130	U	µg/kg	1800	10	11/06/25 20:02	11/05/25 12:25
Caprolactam	EPA 8270E	<812	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Carbazole	EPA 8270E	<265	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Chrysene	EPA 8270E	234		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270E	<744	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Dibenz(a,h) anthracene	EPA 8270E	<97.2	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Dibenzofuran	EPA 8270E	<132	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Diethyl phthalate	EPA 8270E	<306	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Dimethyl phthalate	EPA 8270E	<175	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Fluoranthene	EPA 8270E	540		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Fluorene	EPA 8270E	<131	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Hexachlorobenzene	EPA 8270E	<262	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID

Work Order: HN2516059
Date Collected: 10/27/25 14:07
Date Received: 10/28/25 06:00

CLIENT ID: 12027 Chelsea SB02 (3-4')-R

Lab ID: HN2516059-001

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Hexachlorobutadiene	EPA 8270E	<212	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Hexachlorocyclopentadiene	EPA 8270E	<853	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Hexachloroethane	EPA 8270E	<372	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Indeno(1,2,3-cd) pyrene	EPA 8270E	306		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Isophorone	EPA 8270E	<176	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
Methylphenol, Total	EPA 8270E	<243	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Naphthalene	EPA 8270E	<115	U	µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Nitrobenzene	EPA 8270E	<302	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
n-Nitrosodi-n-propylamine	EPA 8270E	<148	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
N-Nitrosodiphenylamine	EPA 8270E	<521	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Pentachlorophenol	EPA 8270E	<715	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Phenanthrene	EPA 8270E	414		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Phenol	EPA 8270E	<452	U	µg/kg	891	10	11/06/25 20:02	11/05/25 12:25
Pyrene	EPA 8270E	666		µg/kg	180	10	11/06/25 20:02	11/05/25 12:25
Pyridine	EPA 8270E	<1770	U	µg/kg	4500	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>EPA 8270E</i>	51.2		%REC	48-94	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: 2-Fluorobiphenyl</i>	<i>EPA 8270E</i>	58.8		%REC	50-103	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: 2-Fluorophenol</i>	<i>EPA 8270E</i>	48.4		%REC	43-105	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: 4-Terphenyl-d14</i>	<i>EPA 8270E</i>	59.8		%REC	55-111	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: Nitrobenzene-d5</i>	<i>EPA 8270E</i>	48.4		%REC	47-100	10	11/06/25 20:02	11/05/25 12:25
<i>Surr: Phenol-d6</i>	<i>EPA 8270E</i>	45.0	S	%REC	49-110	10	11/06/25 20:02	11/05/25 12:25

TCLP Organochlorine Pesticides by GC/ECD

Chlordane, Technical	EPA 8081B	<0.0335	U	µg/L	0.493	1	11/13/25 19:23	11/13/25 12:24
Endrin	EPA 8081B	<0.00838	U	µg/L	0.00985	1	11/13/25 19:23	11/13/25 12:24
gamma-BHC (Lindane)	EPA 8081B	<0.00819	U	µg/L	0.00985	1	11/13/25 19:23	11/13/25 12:24
Heptachlor	EPA 8081B	<0.00749	U	µg/L	0.00985	1	11/13/25 19:23	11/13/25 12:24
Heptachlor epoxide	EPA 8081B	<0.00782	U	µg/L	0.00985	1	11/13/25 19:23	11/13/25 12:24
Methoxychlor	EPA 8081B	<0.00974	U	µg/L	0.00985	1	11/13/25 19:23	11/13/25 12:24
Toxaphene	EPA 8081B	<0.108	U	µg/L	1.97	1	11/13/25 19:23	11/13/25 12:24
<i>Surr: Decachlorobiphenyl</i>	<i>EPA 8081B</i>	81.4		%REC	42-148	1	11/13/25 19:23	11/13/25 12:24
<i>Surr: Tetrachloro-m-xylene</i>	<i>EPA 8081B</i>	61.7		%REC	57-141	1	11/13/25 19:23	11/13/25 12:24



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2309163

Work Order: HN2516059
Date Collected: NA
Date Received: NA
Run ID: 3642247

Chlorinated Herbicides by GC/ECD

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2309163-002
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:49
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	30.0	µg/kg	5.00	50		60.0	10-119			
2,4,5-TP (Silvex)	29.0	µg/kg	5.00	50		58.0	10-101			
2,4-D	26.0	µg/kg	10.0	50		52.0	10-128			
Surr: DCAA	27.0	µg/kg		50		54.0	10-116			

MS	CLIENT ID: Batch QC	Lab ID: QC-2309163-005
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:02
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	74.5	µg/kg	14.5	124.22	<2.29	60.0	10-119			
2,4,5-TP (Silvex)	72.0	µg/kg	14.5	124.22	<4.07	58.0	10-101			
2,4-D	72.0	µg/kg	29.0	124.22	<6.63	58.0	10-128			
Surr: DCAA	77.0	µg/kg		124.22		62.0	10-116			

MSD	CLIENT ID: Batch QC	Lab ID: QC-2309163-006
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 17:15
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	67.3	µg/kg	14.6	124.69	<2.29	54.0	10-119	10.2	30	
2,4,5-TP (Silvex)	64.8	µg/kg	14.6	124.69	<4.09	52.0	10-101	10.5	30	
2,4-D	67.3	µg/kg	29.1	124.69	<6.66	54.0	10-128	6.77	30	
Surr: DCAA	67.3	µg/kg		124.69		54.0	10-116	13.4	30	

MB	CLIENT ID: Method Blank	Lab ID: QC-MRG2-2309163001
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Method: EPA 8151A **Dilution:** 1 **Analysis Date:** 10/30/25 16:36
Prep Date: 10/29/25 10:50

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
2,4,5-T	<0.920	µg/kg	5.00	0		NC	0-0			U
2,4,5-TP (Silvex)	<1.64	µg/kg	5.00	0		NC	0-0			U
2,4-D	<2.67	µg/kg	10.0	0		NC	0-0			U
Surr: DCAA	30.0	µg/kg		50		60.0	10-116			

The following samples were analyzed in this batch: HN2516059-001

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2302720

Work Order: HN2516059
Date Collected: NA
Date Received: NA
Run ID: 3631423

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2302720-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
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-2302720-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
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-2302720-004
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	37.5	%	0.1	0	37.7	NC	0-0	0.559	10	

DUP	CLIENT ID: Batch QC	Lab ID: QC-2302720-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 10/28/25 11:36
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	38.5	%	0.1	0	39.5	NC	0-0	2.51	10	

The following samples were analyzed in this batch: HN2516059-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516059
Date Collected: NA
Date Received: NA
Run ID: 3641348

Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2305050-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:02

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	<6.39	µg/kg	10.0	0		NC	0-0			U
4,4'-DDE	<6.59	µg/kg	10.0	0		NC	0-0			U
4,4'-DDT	<6.65	µg/kg	10.0	0		NC	0-0			U
Aldrin	<6.50	µg/kg	10.0	0		NC	0-0			U
alpha-BHC	<6.58	µg/kg	10.0	0		NC	0-0			U
beta-BHC	<6.57	µg/kg	10.0	0		NC	0-0			U
Chlordane, Technical	<9.92	µg/kg	25.0	0		NC	0-0			U
cis-Chlordane	<6.68	µg/kg	10.0	0		NC	0-0			U
delta-BHC	<6.55	µg/kg	10.0	0		NC	0-0			U
Dieldrin	<6.99	µg/kg	10.0	0		NC	0-0			U
Endosulfan I	<6.72	µg/kg	10.0	0		NC	0-0			U
Endosulfan II	<6.62	µg/kg	10.0	0		NC	0-0			U
Endosulfan sulfate	<6.15	µg/kg	10.0	0		NC	0-0			U
Endrin	<8.09	µg/kg	10.0	0		NC	0-0			U
Endrin aldehyde	<6.34	µg/kg	10.0	0		NC	0-0			U
Endrin ketone	<6.08	µg/kg	10.0	0		NC	0-0			U
gamma-BHC (Lindane)	<6.56	µg/kg	10.0	0		NC	0-0			U
Heptachlor	<6.45	µg/kg	10.0	0		NC	0-0			U
Heptachlor epoxide	<6.62	µg/kg	10.0	0		NC	0-0			U
Methoxychlor	<6.69	µg/kg	10.0	0		NC	0-0			U
Toxaphene	<10.8	µg/kg	60.0	0		NC	0-0			U
trans-Chlordane	<6.64	µg/kg	10.0	0		NC	0-0			U
Surr: Decachlorobiphenyl	35.8	µg/kg		33.33		107	53-151			
Surr: Tetrachloro-m-xylene	28.7	µg/kg		33.33		86.2	67-127			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305050-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:14

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4,4'-DDD	27.5	µg/kg	10.0	33.33		82.6	55-141			
4,4'-DDE	29.8	µg/kg	10.0	33.33		89.5	55-143			
4,4'-DDT	34.7	µg/kg	10.0	33.33		104	50-144			
Aldrin	30.6	µg/kg	10.0	33.33		91.7	57-141			
alpha-BHC	30.4	µg/kg	10.0	33.33		91.2	58-144			
beta-BHC	30.4	µg/kg	10.0	33.33		91.2	55-147			
cis-Chlordane	30.0	µg/kg	10.0	33.33		90.2	58-142			
delta-BHC	24.8	µg/kg	10.0	33.33		74.4	59-142			
Dieldrin	30.7	µg/kg	10.0	33.33		92.1	59-142			
Endosulfan I	29.2	µg/kg	10.0	33.33		87.8	57-145			
Endosulfan II	29.2	µg/kg	10.0	33.33		87.8	58-138			
Endosulfan sulfate	28.3	µg/kg	10.0	33.33		85.0	54-136			
Endrin	34.8	µg/kg	10.0	33.33		104	45-150			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2305050

Work Order: HN2516059
Date Collected: NA
Date Received: NA
Run ID: 3641348

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2305050-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 10/29/25 23:14

Prep Date: 10/29/25 11:37

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin aldehyde	36.8	µg/kg	10.0	33.33		111	41-147			
Endrin ketone	27.6	µg/kg	10.0	33.33		82.7	54-146			
gamma-BHC (Lindane)	30.6	µg/kg	10.0	33.33		91.9	58-145			
Heptachlor	31.8	µg/kg	10.0	33.33		95.3	51-145			
Heptachlor epoxide	30.7	µg/kg	10.0	33.33		92.1	59-143			
Methoxychlor	33.4	µg/kg	10.0	33.33		100	43-144			
trans-Chlordane	30.0	µg/kg	10.0	33.33		90.0	56-145			
<i>Surr: Decachlorobiphenyl</i>	29.8	<i>µg/kg</i>		33.33		89.3	<i>51-151</i>			
<i>Surr: Tetrachloro-m-xylene</i>	25.8	<i>µg/kg</i>		33.33		77.4	<i>67-127</i>			

The following samples were analyzed in this batch: HN2516059-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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			



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2319451

Work Order: HN2516059
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: HN2516059-001



Client: The Mannik & Smith Group, Inc.
Project: DETR0060 - 12027 Chelsea
Matrix: SOIL/SOLID
QC Lot: 2334132

Work Order: HN2516059
Date Collected: NA
Date Received: NA
Run ID: 3686395

TCLP Organochlorine Pesticides by GC/ECD

MB	CLIENT ID: Method Blank	Lab ID: QC-2334132-001
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 16:53

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chlordane, Technical	<0.0340	µg/L	0.500	0		NC	0-0			U
Endrin	<0.00851	µg/L	0.0100	0		NC	0-0			U
gamma-BHC (Lindane)	<0.00832	µg/L	0.0100	0		NC	0-0			U
Heptachlor	<0.00760	µg/L	0.0100	0		NC	0-0			U
Heptachlor epoxide	<0.00796	µg/L	0.0100	0		NC	0-0			U
Methoxychlor	<0.00989	µg/L	0.0100	0		NC	0-0			U
Toxaphene	<0.110	µg/L	2.00	0		NC	0-0			U
Surr: Decachlorobiphenyl	0.281	µg/L		0.25		112	0.42-148			
Surr: Tetrachloro-m-xylene	0.137	µg/L		0.25		54.8	57-141			S

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2334132-002
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 17:05

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.195	µg/L	0.0100	0.2		97.5	43-176			
gamma-BHC (Lindane)	0.199	µg/L	0.0100	0.2		99.4	63-158			
Heptachlor	0.168	µg/L	0.0100	0.2		84.2	47-166			
Heptachlor epoxide	0.202	µg/L	0.0100	0.2		101	63-164			
Methoxychlor	0.169	µg/L	0.0100	0.2		84.3	36-176			
Surr: Decachlorobiphenyl	0.275	µg/L		0.25		110	42-148			
Surr: Tetrachloro-m-xylene	0.201	µg/L		0.25		80.6	57-141			

DLCS	CLIENT ID: Laboratory Control Sample Duplicate	Lab ID: QC-2334132-003
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Method: EPA 8081B

Dilution: 1

Analysis Date: 11/13/25 17:16

Prep Date: 11/13/25 12:25

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Endrin	0.197	µg/L	0.0100	0.2		98.4	43-176	0.919	20	
gamma-BHC (Lindane)	0.197	µg/L	0.0100	0.2		98.6	63-158	0.808	20	
Heptachlor	0.174	µg/L	0.0100	0.2		87.1	47-166	3.39	20	
Heptachlor epoxide	0.202	µg/L	0.0100	0.2		101	63-164	0.00	20	
Methoxychlor	0.169	µg/L	0.0100	0.2		84.7	36-176	0.473	20	
Surr: Decachlorobiphenyl	0.267	µg/L		0.25		107	42-148	3.10	30	
Surr: Tetrachloro-m-xylene	0.178	µg/L		0.25		71.4	57-141	12.1	30	

The following samples were analyzed in this batch: HN2516059-001