DRAFT

FILL MATERIAL SAMPLING REPORT

5180 ST CLAIR STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48213

OCTOBER 24, 2025
REVISED DECEMBER 12, 2025

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

Mannik Smith GROUP

Fill Material Sampling Report

5180 St Clair Street
Detroit, Wayne County, Michigan 48213

Prepared By: _____

Olivia Mitchell
Environmental Scientist

Reviewed By: _____

Michael Reece
Senior Project Manager

Reviewed and
Approved By: _____

Ryan Montri, CPG
Senior Project Manager

Mannik Smith Group

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 5180 St Clair Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location, as referenced to nearby roads and major geographic features, is shown on Figure *1, Site Location Map*. *Figure 2, Site Layout,* depicts the current layout of the Site.

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

The purpose of the work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths, as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. Sample analyses associated with this work included volatile organic compounds (VOCs); 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: SSSS

- The stratigraphy encountered during soil boring advancement of 5180 SB01, 5180 SB02, and 5180 SB03 generally consisted of three feet of grayish brown clay underlain by brown and gray mottled 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 4.6 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and brick debris was observed in each soil boring.
- Concentrations of 1,2,4-trimethylbenzene, arsenic, and chromium (Total) were detected in soil samples 5180 SB01 (1-2'), 5180 SB02 (3-4'), and/or 5180 SB03 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface protection criteria (GSIPC), and/or direct contact criteria (DCC).
- Concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes were detected in soil sample 5180 SB02 (3-4') at concentrations in excess of their respective soil vapor to indoor air pathway (SVIAP) and/or recommended interim action screening level (RIASL).
- Concentrations of 1,3,5-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, alpha chlordane, barium, chloride, copper, lead, mercury, methylcyclohexane, alpha-chlordane, total xylenes, and zinc were detected in soil samples 5180 SB01 (1-2'), 5180 SB02 (3-4'), and/or 5180 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic, chromium, and VOCs 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.*
- SVOCs and 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. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete; however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

TABLE OF CONTENTS

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 5180 St Clair Street, Detroit, Wayne County, Michigan (hereinafter, the "Site"). The Site location as referenced to nearby roads and major geographic features is presented as *Figure 1, Site Location Map*. *Figure 2, Site Layout,* depicts the current layout of the Site.

The purpose of this work was to assist the COD's blight remediation efforts with the sampling and analysis of fill material at the Site through soil sample collection from pre-determined depths. The scope of work for this investigation was performed in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. This report presents the findings of this investigation. Soil samples were collected by MSG on August 14, 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 14, 2025, and October 8, 2025. Daily field activity reports prepared by MSG are presented in *Appendix B, Daily Field Reports.*

3.1 Preliminary Site Work Activities

Prior to conducting subsurface soil sampling activities, MSG contacted the MISSDIG utility locating system to identify and physically mark underground utilities. If necessary, proposed soil boring locations were modified based on the results of the utility markings. Additionally, MSG reviewed readily available Site building records

or documents to ensure that this scope of work was conducted on the correct property and in the areas of the former Site structure.

3.2 Soil Sample Collection

The sampling plan for the Site was based on the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and modified in the field (if necessary) based on encountered conditions and professional judgment of MSG's field personnel. MSG advanced three (3) soil borings, designated 5180 SB01, 5180 SB02, and 5180 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 8, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs utilizing a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

3.4 Decontamination

Before initiation of sampling and drilling activities and between each sampling/soil boring, equipment was cleaned to avoid the potential for cross-contamination during field activities. Pertinent equipment and tooling

were thoroughly cleaned using a phosphate-free soap to remove chemical residue and caked-on soils. After sample collection was completed, each soil boring location was abandoned with the soil cuttings generated at each soil boring location and finished to match the original surface.

3.5 Analytical Methods

A total of three (3) soil samples, designated 5180 SB01 (1-2'), 5180 SB02 (3-4'), and 5180 SB03 (5-6'), and one (1) composite soil sample designated 5180 St. Clair SB01 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 14, 2025, and October 8, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 5180 SB01, 5180 SB02, and 5180 SB03 generally consisted three feet of grayish brown clay underlain by brown and gray mottled 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 4.6 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and brick debris was observed in each soil boring.

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

4.2 Soil Sample Analytical Results

Three (3) soil samples, designated 5180 SB01 (1-2'), 5180 SB02 (3-4'), and 5180 SB03 (5-6'), were collected from the Site and submitted to ALS for laboratory analysis of VOCs, SVOCs, PCBs, Michigan 10 Metals, chloride, herbicides, and pesticides.

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

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

Chemical	CAS Number	Soil Sample (feet bgs)	Part 201 GRCC Exceeded / Concentration (µg/kg[1])	Maximum Detected Concentration (µg/kg)
Arsenic	7440-38-2	5180 SB01 (1-2') 5180 SB02 (3-4') 5180 SB03 (5-6')	DWPC[2] / 4,600 GSIPC[3] / 4,600 DCC[4] / 7,600	7,930
Chromium (Total)	7440-47-3	5180 SB01 (1-2')	GSIPC / 3,300	19,600
1,2,4-Trimethylbenzene	95-63-6	5180 SB02 (3-4')	GSIPC / 570	602

[1]µg/kg – micrograms per kilogram;
[2]DWPC – Drinking Water Protection Criteria
[3]GSIPC – Groundwater Surface Water Interface Protection Criteria
[4]DCC – Direct Contact Criteria

4.3 TCLP Analytical Results

Arsenic, chromium, and VOCs 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. Since the building on site has been razed, the soil volatilization to indoor air pathway (SVIAP) is not currently complete; however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

5.0 FINDINGS

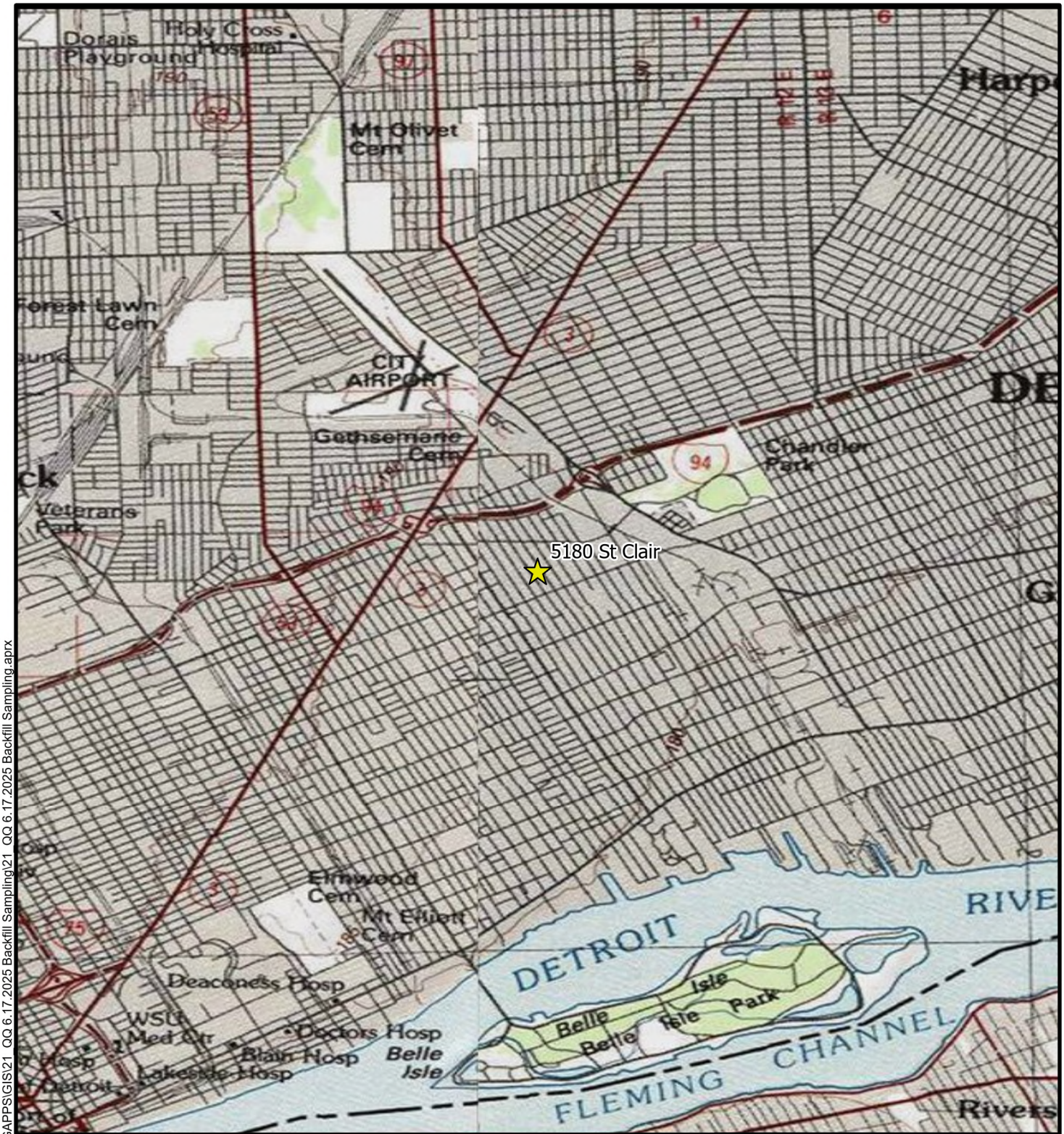
MSG has evaluated the analytical results of the fill material samples collected at the Site in general accordance with the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025. The findings of this investigation are presented below:

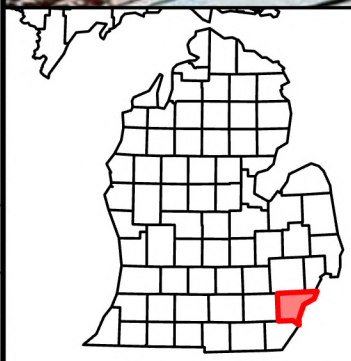
- The stratigraphy encountered during soil boring advancement of 5180 SB01, 5180 SB02, and 5180 SB03 generally consisted of three feet of grayish brown clay underlain by brown and gray mottled clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 4.6 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, concrete and brick debris was observed in each soil boring.
- Concentrations of 1,2,4-trimethylbenzene, arsenic, and chromium (Total) were detected in soil samples 5180 SB01 (1-2'), 5180 SB02 (3-4'), and/or 5180 SB03 (5-6') in excess of their respective Part 201 DWPC, GSIPC, and/or DCC.
- Concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes were detected in soil sample 5180 SB02 (3-4') at concentrations in excess of their respective soil vapor to indoor air pathway (SVIAP) and/or recommended interim action screening level (RIASL).
- Concentrations of 1,3,5-trimethylbenzene, 4,4-DDD, 4,4-DDE, 4,4-DDT, alpha chlordane, barium, chloride, copper, lead, mercury, methylcyclohexane, alpha-chlordane, total xylenes, and zinc were detected in soil samples 5180 SB01 (1-2'), 5180 SB02 (3-4'), and/or 5180 SB03 (5-6') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- TCLP laboratory analytical results revealed that concentrations of arsenic, chromium, and VOCs 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.*
- SVOCs and 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. Since the building on site has been razed, the SVIAP is not currently complete; however, consideration may need to be given to this pathway if future construction is planned. Given that the site is residential, exceedances of direct contact criteria may merit further consideration.

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

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

FIGURES





Site Location

MSG

0 0.5 1 Miles

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FIGURE 1

SITE LOCATION

5180 St Clair, Detroit, MI

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

Date Saved: 9/22/2025 8:38 PM Coordinate System: GCS WGS 1984
Path: W:\Projects\Projects A-E\DETR0060\ENGAPPS\GIS\21 QQ 6.17.2025 Backfill Sampling\21 QQ 6.17.2025 Backfill Sampling.aprx

Basemap Source: ESRI USA_Topo_Maps Web Service

MSG

0 20 40
Feet

Sample Locations
Parcels (Current)
Subject Property

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

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FIGURE 2

Site Layout

5180 St Clair, Detroit, MI

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

Date Saved: 9/22/2025 8:38 PM
Path: W:\Projects\Projects A-E\DETR0060\ENGAPPS\GIS\21_QQ 6.17.2025 Backfill Sampling\21_QQ 6.17.2025 Backfill Sampling.aprx

TABLES

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
5180 St Clair, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)				Semivolatile Organic Compounds (SVOCs)	Michigan 10 Metals									
			Methylcyclohexane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes		Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)
CAS Number			108-87-2	95-63-6	108-67-8	1330-20-7		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
Statewide Default Background Levels			NA	NA	NA	NA		5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Drinking Water Protection Criteria (DWPC)			NA	2,100	1,800	5,600		4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NA	570	1,100	980		4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NA	4.3E+6 (C)	2.6E+6 (C)	6.3E+6 (C)		NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			--	150 (JT)	100 (JT)	280 (J)		NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NA	2.1E+07	1.60E+07	4.6E+07		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NA	5.0E+08	3.80E+08	6.1E+07		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NA	5.0E+08	3.80E+08	1.3E+08		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Particulate Soil Inhalation Criteria (PSIC)			NA	8.2E+10	8.20E+10	2.9E+11		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
Direct Contact Criteria (DCC)			NA	3.2E+07 (C)	3.2E+07 (C)	4.1E+08 (C)		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
Soil Saturation Concentration Screening Levels (C_{sat})			NA	1.1E+05	94,000	1.5E+05		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Recommended Interim Action Screening Level (RIASL)			NA	150	100	280		NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA
SAMPLE ID	DEPTH	SAMPLE DATE															
5180 SB01	1-2	8/14/2025	<42.4	<42.4	<141	<127	ND	**7,930**	**79,000**	<1,310	**19,600**	**18,400**	**28,000**	**30.7**	<3,270	<3,270	**62,000**
5180 SB02	3-4	8/14/2025	**42.0**	**602**	**276**	**282**	ND	**6,600**	**62,700**	<1,160	**15,100**	**17,400**	**16,400**	**20.1**	<2,900	<2,900	**54,000**
5180 SB03	5-6	8/14/2025	<33.7	<33.7	<112	<101	ND	**6,080**	**54,500**	<1,430	**15,500**	**16,100**	**34,600**	**40.4**	<3,580	<3,580	**58,900**

Notes:

Bold indicates concentration above laboratory reporting limits.

Exceeds DWPC

Exceeds GSIPC

Exceeds Applicable Soil Vapor Inhalation screening level

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

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

ND = Not Detected above laboratory reporting limits

NS = Not Sampled or Not Analyzed

NR = Not Reported (Data missing from provided report)

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

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

Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
5180 St Clair, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Pesticides/Herbicides					Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions
			4,4;-DDD	4,4;-DDE	4,4;-DDT	alpha-Chlordane	Total Chlordane		Chloride
CAS Number			72548	72559	50-29-3	NA	57-74-9		16887006
Statewide Default Background Levels			NA	NA	NA	NA	NA		NA
Drinking Water Protection Criteria (DWPC)			NLL	NLL	NLL	NA	NLL		5.00E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NLL	NLL	NLL	NA	NLL		(X)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NLV	NLV	NLV	NA	1.10E+07		NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			NLV	NA	--	NA	13,000		--
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NLV	NLV	NLV	NA	1.20E+06		NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NLV	NLV	NLV	NA	1.20E+06		NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NLV	NLV	NLV	NA	1.20E+06		NLV
Particulate Soil Inhalation Criteria (PSIC)			4.4E+07	3.20E+07	3.20E+07	NA	3.1E+07		ID
Direct Contact Criteria (DCC)			95,000	45,000	57,000	NA	31,000		5.0E+5 (F)
Soil Saturation Concentration Screening Levels (C_{sat})			NA	NA	NA	NA	NA		NA
Recommended Interim Action Screening Level (RIASL)			NA	NA	--	NA	NA		--
SAMPLE ID	DEPTH	SAMPLE DATE							
5180 SB01	1-2	8/14/2025	**2.8**	**21**	**8.2**	**4.2**	**4.2**	ND	**74,400**
5180 SB02	3-4	8/14/2025	**2.5**	**10**	<1.9	<1.9	<9.4	ND	**57,900**
5180 SB03	5-6	8/14/2025	**3.4**	**24**	**12**	**3.0**	**3.0**	ND	**70,200**

Notes:

Bold indicates concentration above laboratory reporting limits.

Exceeds DWPC

Exceeds GSIPC

Exceeds Applicable Soil Vapor Inhalation screening level

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

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

ND = Not Detected above laboratory reporting limits

NS = Not Sampled or Not Analyzed

NR = Not Reported (Data missing from provided report)

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

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

Table 2
TCLP Analytical Detection Summary

Detroit Backfill Sampling
5180 St Clair, 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 *Units: mg/L*		**TCLP Metals**		**TCLP Volatile Organic Compounds (VOCs)**								
		Arsenic	Chromium	1,1-Dichloroethylene	1,2-Dichloroethane	2-Butanone	Carbon tetrachloride	Chlorobenzene	Chloroform	Tetrachloroethylene	Trichloroethene	Vinyl chloride
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00	0.7	0.5	200.0	0.5	100	6	0.7	0.5	0.2
SAMPLE ID	SAMPLE DATE											
5180 St. Clair SB01 TCLP	10/8/2025	<0.00190	<0.00610	<0.00800	<0.00880	<0.0486	<0.00800	<0.00800	<0.00920	<0.00780	<0.00860	<0.0106

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

APPENDIX A

LIMITATIONS

LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS

DAILY FIELD REPORT

Client: City of Detroit Demolition Department
Project: Sampling and Analysis of Fill Material
Report No.: 1
Job No.: DETR0060

Date: 08/14/2025 **Day:** Thursday
MSG Personnel: WRD, ZRG, JDF

Temp:	77º F	**(AM)**	N/A	**(PM)**
Cloud Cover:	0%	**(AM)**	N/A	**(PM)**
Precip.:	None	**(AM)**	N/A	**(PM)**

Personnel: MSG
MSG Hours On-Site: 0.75 hours

Contractors Information

Contractor:	No. Men and Type:	Equipment Type:
MSG	3; Helper/Geologist/Driller	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:

- 1124 – ZRG & WRD onsite (5180 St Clair St)
- 1125 – Unloaded equipment and checked boring locations
- 1127– Began drilling SB01
- 1134– Finished drilling SB01
- 1135– Began drilling SB02
- 1141– Finished drilling SB02
- 1142– Began drilling SB03
- 1144– Finished drilling SB03
- 1145– Sampled 5180 SB01 (1-2')
- 1150– Sampled 5180 SB02 (3-4')
- 1155– Sampled 5180 SB03 (5-6')
- 1157– Packed up equipment
- 1203 – MSG off site

Supporting Documentation

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

Problem Identification and Corrective Measures

N/A

Resolved? Yes ☐ No ☐

DAILY FIELD REPORT

Client: City of Detroit Demolition Department
Project: Sampling and Analysis of Fill Material
Report No.: 2
Job No.: DETR0060

Date: 10/8/2025 **Day:** Wednesday
MSG Personnel: SRK, JF

Temp:	N/A	**(AM)**	60 º F	**(PM)**
Cloud Cover:	N/A	**(AM)**	0%	**(PM)**
Precip.:	N/A	**(AM)**	N/A	**(PM)**

Personnel: MSG
MSG Hours On-Site: ~ 0.5 hours

Contractors Information

Contractor:	No. Men and Type:	Equipment Type:
MSG	2; Operator/Geologist	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:

- 1535 – MSG (SRK, JF) onsite (5180 St Clair)
- 1540 – Attempted to locate previous boring locations. Marked out new boring location.
- 1546 – Began drilling SB01 TCLP
- 1548 – Finished drilling SB01 TCLP
- 1555 – Sampled 5180 St Clair SB01 TCLP
- 1600 – Collected GPS points
- 1610 – Packed up equipment
- 1615 – MSG off site

Supporting Documentation

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

Problem Identification and Corrective Measures

N/A

Resolved? Yes ☐ No ☐

APPENDIX C

INVESTIGATION PHOTOGRAPHS

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

Photo 2: View of soil recovery at the time of TCLP sampling

Photo 3: View of soil recovery at the time of TCLP sampling

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

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

APPENDIX D

SOIL BORING LOGS

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

BOREHOLE NUMBER SB01

CLIENT City of Detroit
PROJECT NAME Backfill Soil Sampling
PROJECT NUMBER DETR0060.BFS20
PROJECT LOCATION 5180 St Clair, Detroit, MI
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
POSITION
DRILLING CONTRACTOR MSG
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
DRILLING METHOD Direct Push
LOGGED BY WRD **CHECKED BY** PDH
EQUIPMENT Geoprobe 7822DT **Operator** JDF
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Grayish-Brown CLAY, some coarse Sand & Peastone; moist	0.0	
				1.0 Grayish-Brown CLAY, some Silt, Concrete, & Brick debris; moist	0.0	Collected soil sample 5180 SB01 (1-2) at 11:45
	ES	46		3.0 Brown & Gray Mottled CLAY, some Concrete & Brick debris; moist	0.0	
					0.1	
5				5.0 Concrete & Brick DEBRIS, some Clay, moist	0.1	
				6.0		
				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

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

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

BOREHOLE NUMBER SB02

CLIENT City of Detroit
PROJECT NAME Backfill Soil Sampling
PROJECT NUMBER DETR0060.BFS20
PROJECT LOCATION 5180 St Clair, Detroit, MI
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
POSITION
DRILLING CONTRACTOR MSG
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
DRILLING METHOD Direct Push
LOGGED BY WRD **CHECKED BY** PDH
EQUIPMENT Geoprobe 7822DT **Operator** JDF
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Grayish-Brown CLAY, some coarse Sand & Peastone; moist	0.1	
				1.0		
				Grayish-Brown CLAY, some Silt, Concrete, & Brick debris; moist	0.1	
	ES	42			1.2	Collected soil sample 5180 SB02 (3-4) at 11:50
				3.0		
				Brown & Gray Mottled CLAY, some Concrete & Brick debris; moist	3.5	
					1.8	
5				5.0		
				Concrete & Brick DEBRIS, some Clay, moist	0.5	
				6.0		
				Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

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

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

BOREHOLE NUMBER SB03

CLIENT City of Detroit
PROJECT NAME Backfill Soil Sampling
PROJECT NUMBER DETR0060.BFS20
PROJECT LOCATION 5180 St Clair, Detroit, MI
DATE STARTED 08-14-2025 **COMPLETED** 08-14-2025
POSITION
DRILLING CONTRACTOR MSG
SURFACE ELEVATION **FINAL DEPTH** 6.0 ft
DRILLING METHOD Direct Push
LOGGED BY WRD **CHECKED BY** PDH
EQUIPMENT Geoprobe 7822DT **Operator** JDF
REMARKS

DEPTH (ft)	SAMPLE INTERVALS	RECOVERY %	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (PPM)	REMARKS
				Grayish-Brown CLAY, some coarse Sand & Peastone; moist	0.1	
				1.0 Grayish-Brown CLAY, some Silt, Concrete, & Brick debris; moist	0.3	
					2.3	
	ES	17		3.0 Brown & Gray Mottled CLAY, some Concrete & Brick debris; moist	4.2	
					4.4	
5				5.0 Concrete & Brick DEBRIS, some Clay, moist	4.6	Collected soil sample 5180 SB03 (5-6) at 11:55
				6.0 Terminated at 6.00 ft.		
10						
15						
20						

LEGEND:

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

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS

right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511529

Client

The Mannik & Smith Group, Inc.

Project

5180 St Clair

Project Date

August 15, 2025

Reporting Contact

Ryan Montri

right solutions.
right partner.

September 09, 2025

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

Work Order: **HN2511529**

Re: **5180 St Clair**

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. **Work Order:** HN2511529

Project: 5180 St Clair **Date Received:** 15-Aug-2025

CASE NARRATIVE

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

Sample Receipt

3 soil/solid samples were received for analysis at ALS Environmental on 15-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

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: 5180 SB01 (1-2)		Lab ID: HN2511529-001			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**
Arsenic	7.93		3.27	mg/kg	EPA 6020B
Barium	79.0		3.27	mg/kg	EPA 6020B
Chloride	74.4		12.6	mg/kg	EPA 9056A
Chromium	19.6		3.27	mg/kg	EPA 6020B
Copper	18.4		3.27	mg/kg	EPA 6020B
Lead	28.0		3.27	mg/kg	EPA 6020B
Mercury	0.0307		0.0241	mg/kg	EPA 7471B
Percent Moisture	20.4		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	62.0		6.54	mg/kg	EPA 6020B

CLIENT ID: 5180 SB02 (3-4)		Lab ID: HN2511529-002			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**
1,2,4-Trimethylbenzene	602		40.0	µg/kg	EPA 8260D
1,3,5-Trimethylbenzene	276		133	µg/kg	EPA 8260D
Arsenic	6.60		2.90	mg/kg	EPA 6020B
Barium	62.7		2.90	mg/kg	EPA 6020B
Chloride	57.9		11.4	mg/kg	EPA 9056A
Chromium	15.1		2.90	mg/kg	EPA 6020B
Copper	17.4		2.90	mg/kg	EPA 6020B
Lead	16.4		2.90	mg/kg	EPA 6020B
m+p-Xylene	105		80.1	µg/kg	EPA 8260D
Mercury	0.0201		0.0200	mg/kg	EPA 7471B
Methylcyclohexane	42.0		40.0	µg/kg	EPA 8260D
o-Xylene	176		40.0	µg/kg	EPA 8260D
Percent Moisture	11.7		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Total Xylene	282		120	µg/kg	EPA 8260D
Zinc	54.0		5.80	mg/kg	EPA 6020B

CLIENT ID: 5180 SB03 (5-6)		Lab ID: HN2511529-003			
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**
Arsenic	6.08		3.58	mg/kg	EPA 6020B
Barium	54.5		3.58	mg/kg	EPA 6020B
Chloride	70.2		11.4	mg/kg	EPA 9056A

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: 5180 SB03 (5-6)			Lab ID: HN2511529-003		
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**
Chromium	15.5		3.58	mg/kg	EPA 6020B
Copper	16.1		3.58	mg/kg	EPA 6020B
Lead	34.6		3.58	mg/kg	EPA 6020B
Mercury	0.0404		0.0202	mg/kg	EPA 7471B
Percent Moisture	12.8		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	58.9		7.15	mg/kg	EPA 6020B

SAMPLE SUMMARY

Client: The Mannik & Smith Group, Inc.
Project: 5180 St Clair
Workorder: HN2511529

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511529-001	5180 SB01 (1-2)	SOIL/SOLID	08/14/25 11:45	08/15/25 08:00
HN2511529-002	5180 SB02 (3-4)	SOIL/SOLID	08/14/25 11:50	08/15/25 08:00
HN2511529-003	5180 SB03 (5-6)	SOIL/SOLID	08/14/25 11:55	08/15/25 08:00

ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

ALS Project Manager: | **Work Order #:**

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	5180 St Clair	A	VOCs (U.S. EPA Method 8260C (or Method 8260))
Work Order		Project Number	DETR0060	B	SVOCs (U.S. EPA Method 8270D (or Method 8270))
Company Name	The Mannik and Smith Group	Bill To Company	The Mannik and Smith Group	C	PCBs (U.S. EPA Method 8082)
Send Report To	Ryan Montri	Invoice Attn.		D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100	E	Chorides (U.S. EPA Method 9056A)
				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	Herbicides (U.S. EPA Method 8151A (or Method 8151))
Phone	734-397-3100	Phone	734-397-3100	H	
Fax		Fax		I	
e-Mail Address	RMontri@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	5180 SB01 (1 - 2)	8/14/25	1145	Soil	METH	3											
2	5180 SB02 (3 - 4)	"	1150	Soil	"	3											
3	5180 SB03 (5 - 6)	"	1155	Soil	"	3											
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Environmental Division Holland
Work Order Reference
HN2511529

Telephone : +1 616 399 6070

Sampler(s): Please Print & Sign WILEY DAVENPORT

Shipment Method:

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

Results Due Date:

Relinquished by: WILEY	**Date:** 8/14/25	**Time:** 1420	**Received by:**	**Notes:** Quote# HN-061825-M&S-MA	
Relinquished by:	**Date:** 8/14/25	**Time:** 1700	**Received by (Laboratory):** QS	**Cooler Temp.**	**QC Package: (Check Box Below)**
Logged by (Laboratory): BC	**Date:** 8/15/25	**Time:** 11:05	**Checked by (Laboratory):**	2.1°C IRC	☐ Level II: Standard QC ☐ TRRP-Checklist ☐ Level III: Std QC + Raw Data ☐ TRRP Level IV ☐ Level IV: SW846 CLP-Like ☐ Other:

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

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

ALS Holland Sample Receiving Checklist

Received by:	BC
Date/Time:	8/15/25 08:00
Carrier Name:	QS
Shipping container/cooler in good condition?	Yes / No / Not Present
Custody seals intact on shipping container/cooler?	Yes / No / Not Present
Custody seals intact on sample bottles?	Yes / No / Not Present
Chain of Custody present?	Yes / No
COC signed when relinquished and received?	Yes / No
COC agrees with sample labels?	Yes / No
Samples in proper container/bottle?	Yes / No
Sample containers intact?	Yes / No
Sufficient sample volume for indicated test?	Yes / No
All samples received within holding time?	Yes / No
Container/Temp Blank temperature in compliance?	Yes / No
Temperature(s) (°C):	2.1°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:	8/15/25 11:15
Water – VOA vials have zero headspace?	Yes / No / No Vials
Water – pH acceptable upon receipt?	Yes / No / N/A
pH strip lot #: _____	< 2 _____ > 12 _____ Other _____
pH adjusted (note adjustments below)?	Yes / No / N/A
pH adjusted by:	
Login Notes:	

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 Certifications[1]

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. **Work Order:** HN2511529
Project: 5180 St Clair

Sample Name: 5180 SB01 (1-2) **Date Collected:** 08/14/25
Laboratory Code: HN2511529-001 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2179609		3431184	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	001-AC	2172932	Maxx Richey	3422787	Denise Coffey
EPA 8081B		001-AD			3475795	Bill Carey
EPA 8082A		001-AD			3475795	Bill Carey
EPA 8151A		001-AD			3475795	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2162930	Jonathan Vazquez	3431701	John Garvale
EPA 8270E		001-AD			3475795	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2166599	Quoc Nguyen	3412595	Jessica Bacon

Sample Name: 5180 SB02 (3-4) **Date Collected:** 08/14/25
Laboratory Code: HN2511529-002 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2170198		3416413	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	002-AC	2172932	Maxx Richey	3422787	Maxx Richey
EPA 8081B		002-AD			3475795	Bill Carey
EPA 8082A		002-AD			3475795	Bill Carey
EPA 8151A		002-AD			3475795	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2162930	Jonathan Vazquez	3431804	Ali Cook
EPA 8270E		002-AD			3475795	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Sample Name: 5180 SB03 (5-6) **Date Collected:** 08/14/25
Laboratory Code: HN2511529-003 **Date Received:** 08/15/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2170198		3416413	Nicole Maleski

ANALYST SUMMARY

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair		

Sample Name:	5180 SB03 (5-6)	**Date Collected:**	08/14/25
Laboratory Code:	HN2511529-003	**Date Received:**	08/15/25
Sample Matrix:	SOIL/SOLID		

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3050B	003-AC	2170128	Weston Kotecki	3418159	Hunter Johnson
EPA 7471B	Method	003-AC	2172932	Maxx Richey	3422787	Maxx Richey
EPA 8081B		003-AD			3475795	Bill Carey
EPA 8082A		003-AD			3475795	Bill Carey
EPA 8151A		003-AD			3475795	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2162930	Jonathan Vazquez	3431804	Ali Cook
EPA 8270E		003-AD			3475795	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2166599	Quoc Nguyen	3412595	Riley Miller

Analytical Report

Client: The Mannik & Smith Group, Inc.
Project: 5180 St Clair
Matrix: SOIL/SOLID

Work Order: HN2511529
Date Collected: 08/14/25 11:45
Date Received: 08/15/25 08:00

CLIENT ID: 5180 SB01 (1-2) **Lab ID: HN2511529-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	**20.4**		%	0.1	1	08/25/25 14:14	NA
Chloride	EPA 9056A	**74.4**		mg/kg	12.6	1	08/18/25 22:01	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	**7.93**		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Barium	EPA 6020B	**79.0**		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.31	10	08/20/25 21:40	08/20/25 10:10
Chromium	EPA 6020B	**19.6**		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Copper	EPA 6020B	**18.4**		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Lead	EPA 6020B	**28.0**		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.27	10	08/20/25 21:40	08/20/25 10:10
Zinc	EPA 6020B	**62.0**		mg/kg	6.54	10	08/20/25 21:40	08/20/25 10:10
Mercury	EPA 7471B	**0.0307**		mg/kg	0.0241	1	08/22/25 09:13	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8082A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8151A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8270E	**See attached.**		-		1	09/09/25 08:35	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB01 (1-2) **Lab ID: HN2511529-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	84.8	1	08/23/25 06:16	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	283	1	08/23/25 06:16	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	84.8	1	08/23/25 06:16	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB01 (1-2) **Lab ID: HN2511529-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	84.8	1	08/23/25 06:16	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	354	1	08/23/25 06:16	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	141	1	08/23/25 06:16	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	354	1	08/23/25 06:16	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	127	1	08/23/25 06:16	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	42.4	1	08/23/25 06:16	08/15/25 15:57
Surr: 1,2-Dichloroethane-d4	*EPA 8260D*	***94.4***		*%REC*	*80-120*	*1*	*08/23/25 06:16*	*08/15/25 15:57*
Surr: 4-Bromofluorobenzene	*EPA 8260D*	***101***		*%REC*	*80-120*	*1*	*08/23/25 06:16*	*08/15/25 15:57*
Surr: Dibromofluoromethane	*EPA 8260D*	***91.0***		*%REC*	*72-120*	*1*	*08/23/25 06:16*	*08/15/25 15:57*
Surr: Toluene-d8	*EPA 8260D*	***102***		*%REC*	*80-120*	*1*	*08/23/25 06:16*	*08/15/25 15:57*

Analytical Report

Client: The Mannik & Smith Group, Inc.
Project: 5180 St Clair
Matrix: SOIL/SOLID

Work Order: HN2511529
Date Collected: 08/14/25 11:50
Date Received: 08/15/25 08:00

CLIENT ID: 5180 SB02 (3-4) **Lab ID: HN2511529-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	**11.7**		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	**57.9**		mg/kg	11.4	1	08/18/25 22:09	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	**6.60**		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Barium	EPA 6020B	**62.7**		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.16	10	08/20/25 21:42	08/20/25 10:10
Chromium	EPA 6020B	**15.1**		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Copper	EPA 6020B	**17.4**		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Lead	EPA 6020B	**16.4**		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	2.90	10	08/20/25 21:42	08/20/25 10:10
Zinc	EPA 6020B	**54.0**		mg/kg	5.80	10	08/20/25 21:42	08/20/25 10:10
Mercury	EPA 7471B	**0.0201**		mg/kg	0.0200	1	08/22/25 09:14	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8082A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8151A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8270E	**See attached.**		-		1	09/09/25 08:35	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	**602**		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB02 (3-4) **Lab ID: HN2511529-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	**276**		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	80.1	1	08/23/25 12:30	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	267	1	08/23/25 12:30	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	80.1	1	08/23/25 12:30	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB02 (3-4) **Lab ID: HN2511529-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	**105**		µg/kg	80.1	1	08/23/25 12:30	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	334	1	08/23/25 12:30	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	133	1	08/23/25 12:30	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Methylcyclohexane	EPA 8260D	**42.0**		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	334	1	08/23/25 12:30	08/15/25 15:57
o-Xylene	EPA 8260D	**176**		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Total Xylene	EPA 8260D	**282**		µg/kg	120	1	08/23/25 12:30	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.0	1	08/23/25 12:30	08/15/25 15:57
Surr: 1,2-Dichloroethane-d4	*EPA 8260D*	***94.4***		*%REC*	*80-120*	*1*	*08/23/25 12:30*	*08/15/25 15:57*
Surr: 4-Bromofluorobenzene	*EPA 8260D*	***103***		*%REC*	*80-120*	*1*	*08/23/25 12:30*	*08/15/25 15:57*
Surr: Dibromofluoromethane	*EPA 8260D*	***89.4***		*%REC*	*72-120*	*1*	*08/23/25 12:30*	*08/15/25 15:57*
Surr: Toluene-d8	*EPA 8260D*	***102***		*%REC*	*80-120*	*1*	*08/23/25 12:30*	*08/15/25 15:57*

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB03 (5-6) **Lab ID: HN2511529-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	**12.8**		%	0.1	1	08/20/25 14:08	NA
Chloride	EPA 9056A	**70.2**		mg/kg	11.4	1	08/18/25 22:17	08/18/25 15:49
Metals								
Arsenic	EPA 6020B	**6.08**		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Barium	EPA 6020B	**54.5**		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Cadmium	EPA 6020B	ND		mg/kg	1.43	10	08/20/25 21:43	08/20/25 10:10
Chromium	EPA 6020B	**15.5**		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Copper	EPA 6020B	**16.1**		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Lead	EPA 6020B	**34.6**		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Selenium	EPA 6020B	ND		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Silver	EPA 6020B	ND		mg/kg	3.58	10	08/20/25 21:43	08/20/25 10:10
Zinc	EPA 6020B	**58.9**		mg/kg	7.15	10	08/20/25 21:43	08/20/25 10:10
Mercury	EPA 7471B	**0.0404**		mg/kg	0.0202	1	08/22/25 09:16	08/21/25 15:34
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8082A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8151A	**See attached.**		-		1	09/09/25 08:35	NA
Subcontract Analysis	EPA 8270E	**See attached.**		-		1	09/09/25 08:35	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB03 (5-6) **Lab ID: HN2511529-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	67.4	1	08/23/25 12:49	08/15/25 15:57
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	225	1	08/23/25 12:49	08/15/25 15:57
2-Hexanone	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Acetone	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Benzene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Bromochloromethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Bromodichloromethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Bromoform	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Carbon disulfide	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Carbon tetrachloride	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Chlorobenzene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Chlorodibromomethane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Chloroform	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	67.4	1	08/23/25 12:49	08/15/25 15:57
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Cyclohexane	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Ethylbenzene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Isopropylbenzene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2511529
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Matrix:	SOIL/SOLID	**Date Received:**	08/15/25 08:00

CLIENT ID: 5180 SB03 (5-6) **Lab ID: HN2511529-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	67.4	1	08/23/25 12:49	08/15/25 15:57
Methyl acetate	EPA 8260D	ND		µg/kg	281	1	08/23/25 12:49	08/15/25 15:57
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	112	1	08/23/25 12:49	08/15/25 15:57
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Methylcyclohexane	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	281	1	08/23/25 12:49	08/15/25 15:57
o-Xylene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Styrene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Toluene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Total Xylene	EPA 8260D	ND		µg/kg	101	1	08/23/25 12:49	08/15/25 15:57
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	33.7	1	08/23/25 12:49	08/15/25 15:57
Surr: 1,2-Dichloroethane-d4	*EPA 8260D*	***98.8***		*%REC*	*80-120*	*1*	*08/23/25 12:49*	*08/15/25 15:57*
Surr: 4-Bromofluorobenzene	*EPA 8260D*	***102***		*%REC*	*80-120*	*1*	*08/23/25 12:49*	*08/15/25 15:57*
Surr: Dibromofluoromethane	*EPA 8260D*	***91.6***		*%REC*	*72-120*	*1*	*08/23/25 12:49*	*08/15/25 15:57*
Surr: Toluene-d8	*EPA 8260D*	***99.0***		*%REC*	*80-120*	*1*	*08/23/25 12:49*	*08/15/25 15:57*

November 19, 2025 Service Request No:R2510172

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

Laboratory Results for: 5180 St Clair

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 **R2510172.**

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 +1 585 288 5380 | FAX +1 585 288 8475
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: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
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, 891756: 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.

Semivoa GC:

Method 8081B, 09/04/2025: 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.
Method 8081B: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV) on one detector. All recoveries were acceptable on the secondary detector. Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 08/29/2025: 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.

Method 8151A, 09/04/2025: 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.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/19/2025

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: 5180 SB01 (1-2)			Lab ID: R2510172-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
4,4'-DDD	2.8		1.1	2.1	ug/Kg	8081B
4,4'-DDE	21		1.1	2.1	ug/Kg	8081B
4,4'-DDT	8.2		1.1	2.1	ug/Kg	8081B
alpha-Chlordane	4.2	P	1.1	2.1	ug/Kg	8081B
gamma-Chlordane	1.9	J	1.1	2.1	ug/Kg	8081B
Total Solids	79.6				Percent	ALS SOP

CLIENT ID: 5180 SB02 (3-4)			Lab ID: R2510172-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
4,4'-DDD	2.5		0.96	1.9	ug/Kg	8081B
4,4'-DDE	10		0.96	1.9	ug/Kg	8081B
Total Solids	88.3				Percent	ALS SOP

CLIENT ID: 5180 SB03 (5-6)			Lab ID: R2510172-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
4,4'-DDD	3.4		0.95	1.9	ug/Kg	8081B
4,4'-DDE	24		0.95	1.9	ug/Kg	8081B
4,4'-DDT	12		0.95	1.9	ug/Kg	8081B
alpha-Chlordane	3.0		0.95	1.9	ug/Kg	8081B
gamma-Chlordane	1.6	J	0.95	1.9	ug/Kg	8081B
Pyrene	370	J	310	1900	ug/Kg	8270E
Total Solids	87.2				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 **Service Request:**R2510172
Project: 5180 St Clair

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2510172-001	5180 SB01 (1-2)	8/14/2025	1145
R2510172-002	5180 SB02 (3-4)	8/14/2025	1150
R2510172-003	5180 SB03 (5-6)	8/14/2025	1155

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: HN2511529

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

Due Date: 08/26/2025
Analysis Report Format: ALS Standard – Level II
Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		**Project Name**	5180 St Clair	**A**	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511529			**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
HN2511529-001	5180 SB01 (1-2)	Soil/Solid	08/14/2025 11:45	001-AD	x	x	x	x						
HN2511529-002	5180 SB02 (3-4)	Soil/Solid	08/14/2025 11:50	002-AD	x	x	x	x						
HN2511529-003	5180 SB03 (5-6)	Soil/Solid	08/14/2025 11:55	003-AD	x	x	x	x						

Relinquished by	Date Time	Received by	Date Time
		[illegible]	8/20/25 9:30
Relinquished by	**Date Time**	**Received by**	**Date Time**
Sampled by			

Cooler ID's

R2510172 5
ALS Environmental - Holland
5180 St Clair

Cooler Receipt and Preservation Check Form

R2510172 5
ALS Environmental - Holland
6180 St Clair

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	(N)
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y)	N

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

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

Temp (°C)	4.7	4.5	5.5				
Within 0-6°C?	(Y) N	(Y) N	(Y) 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: 16:16 by: MM

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

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_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 $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: 062325-1SR, 0008651.3
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MM *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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.
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/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
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.
*	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.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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 Accreditations[1]

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 **Service Request:** R2510172
Project: 5180 St Clair

Non-Certified Analytes

Certifying Agency: New York Department of Health

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

Client: ALS Environmental - US **Service Request:** R2510172
Project: 5180 St Clair/

Sample Name: 5180 SB01 (1-2) **Date Collected:** 08/14/25
Lab Code: R2510172-001 **Date Received:** 08/20/25
Sample Matrix: Soil

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

Sample Name: 5180 SB02 (3-4) **Date Collected:** 08/14/25
Lab Code: R2510172-002 **Date Received:** 08/20/25
Sample Matrix: Soil

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

Sample Name: 5180 SB03 (5-6) **Date Collected:** 08/14/25
Lab Code: R2510172-003 **Date Received:** 08/20/25
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	JVANHEYNINGEN	AFELSER
8082A	JVANHEYNINGEN	AFELSER
8151A	JVANHEYNINGEN	AFELSER
8270E	JVANHEYNINGEN	AMOSES
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
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

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

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Units:**	ug/Kg
Lab Code:	R2510172-001	**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	460 U	2100	460	5	08/28/25 16:24	8/27/25	
1-Methylnaphthalene	380 U	2100	380	5	08/28/25 16:24	8/27/25	
2-Methylnaphthalene	730 U	2100	730	5	08/28/25 16:24	8/27/25	
Acenaphthene	390 U	2100	390	5	08/28/25 16:24	8/27/25	
Acenaphthylene	420 U	2100	420	5	08/28/25 16:24	8/27/25	
Anthracene	350 U	2100	350	5	08/28/25 16:24	8/27/25	
Benz(a)anthracene	310 U	2100	310	5	08/28/25 16:24	8/27/25	
Benzo(a)pyrene	550 U	2100	550	5	08/28/25 16:24	8/27/25	
Benzo(b)fluoranthene	350 U	2100	350	5	08/28/25 16:24	8/27/25	
Benzo(g,h,i)perylene	470 U	2100	470	5	08/28/25 16:24	8/27/25	
1,4-Dichlorobenzene	350 U	2100	350	5	08/28/25 16:24	8/27/25	
Benzo(k)fluoranthene	340 U	2100	340	5	08/28/25 16:24	8/27/25	
Biphenyl	610 U	2100	610	5	08/28/25 16:24	8/27/25	
Chrysene	310 U	2100	310	5	08/28/25 16:24	8/27/25	
Dibenz(a,h)anthracene	450 U	2100	450	5	08/28/25 16:24	8/27/25	
1,4-Dioxane	200 U	420	200	5	08/28/25 16:24	8/27/25	
Dibenzofuran	380 U	2100	380	5	08/28/25 16:24	8/27/25	
Fluoranthene	520 U	2100	520	5	08/28/25 16:24	8/27/25	
Fluorene	390 U	2100	390	5	08/28/25 16:24	8/27/25	
Indeno(1,2,3-cd)pyrene	660 U	2100	660	5	08/28/25 16:24	8/27/25	
Naphthalene	390 U	2100	390	5	08/28/25 16:24	8/27/25	
Phenanthrene	290 U	2100	290	5	08/28/25 16:24	8/27/25	
Pyrene	340 U	2100	340	5	08/28/25 16:24	8/27/25	
2,3,4,6-Tetrachlorophenol	720 U	2100	720	5	08/28/25 16:24	8/27/25	
2,4,5-Trichlorophenol	510 U	2100	510	5	08/28/25 16:24	8/27/25	
2,4,6-Trichlorophenol	460 U	2100	460	5	08/28/25 16:24	8/27/25	
2,4-Dichlorophenol	400 U	2100	400	5	08/28/25 16:24	8/27/25	
2,4-Dimethylphenol	370 U	2100	370	5	08/28/25 16:24	8/27/25	
2,4-Dinitrophenol	3500 U	11000	3500	5	08/28/25 16:24	8/27/25	
2,4-Dinitrotoluene	790 U	2100	790	5	08/28/25 16:24	8/27/25	
2,6-Dinitrotoluene	450 U	2100	450	5	08/28/25 16:24	8/27/25	
2-Chloronaphthalene	410 U	2100	410	5	08/28/25 16:24	8/27/25	
2-Chlorophenol	350 U	2100	350	5	08/28/25 16:24	8/27/25	
2-Methylphenol	430 U	2100	430	5	08/28/25 16:24	8/27/25	
2-Nitroaniline	490 U	11000	490	5	08/28/25 16:24	8/27/25	
2-Nitrophenol	480 U	2100	480	5	08/28/25 16:24	8/27/25	
3,3'-Dichlorobenzidine	750 U	2100	750	5	08/28/25 16:24	8/27/25	
3- and 4-Methylphenol Coelution	400 U	2100	400	5	08/28/25 16:24	8/27/25	
3-Nitroaniline	420 U	11000	420	5	08/28/25 16:24	8/27/25	
4,6-Dinitro-2-methylphenol	1200 U	11000	1200	5	08/28/25 16:24	8/27/25	
4-Bromophenyl Phenyl Ether	540 U	2100	540	5	08/28/25 16:24	8/27/25	
4-Chloro-3-methylphenol	420 U	2100	420	5	08/28/25 16:24	8/27/25	
4-Chloroaniline	750 U	2100	750	5	08/28/25 16:24	8/27/25	

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Units:**	ug/Kg
Lab Code:	R2510172-001	**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	440 U	2100	440	5	08/28/25 16:24	8/27/25	
4-Nitroaniline	450 U	11000	450	5	08/28/25 16:24	8/27/25	
4-Nitrophenol	1100 U	11000	1100	5	08/28/25 16:24	8/27/25	
Acetophenone	590 U	2100	590	5	08/28/25 16:24	8/27/25	
Atrazine	610 U	2100	610	5	08/28/25 16:24	8/27/25	
Benzaldehyde	500 U	11000	500	5	08/28/25 16:24	8/27/25	
Benzoic Acid	3300 U	11000	3300	5	08/28/25 16:24	8/27/25	
Bis(1-chloroisopropyl) Ether	420 U	2100	420	5	08/28/25 16:24	8/27/25	
Bis(2-chloroethoxy)methane	500 U	2100	500	5	08/28/25 16:24	8/27/25	
Bis(2-chloroethyl) Ether	410 U	2100	410	5	08/28/25 16:24	8/27/25	
Bis(2-ethylhexyl) Phthalate	380 U	3100	380	5	08/28/25 16:24	8/27/25	
Butyl Benzyl Phthalate	600 U	2100	600	5	08/28/25 16:24	8/27/25	
Caprolactam	450 U	2100	450	5	08/28/25 16:24	8/27/25	
Carbazole	340 U	2100	340	5	08/28/25 16:24	8/27/25	
Di-n-butyl Phthalate	340 U	2100	340	5	08/28/25 16:24	8/27/25	
Di-n-octyl Phthalate	720 U	2100	720	5	08/28/25 16:24	8/27/25	
Diethyl Phthalate	370 U	2100	370	5	08/28/25 16:24	8/27/25	
Dimethyl Phthalate	390 U	2100	390	5	08/28/25 16:24	8/27/25	
Hexachlorobenzene	500 U	2100	500	5	08/28/25 16:24	8/27/25	
Hexachlorobutadiene	730 U	2100	730	5	08/28/25 16:24	8/27/25	
Hexachlorocyclopentadiene	660 U	2100	660	5	08/28/25 16:24	8/27/25	
Hexachloroethane	390 U	2100	390	5	08/28/25 16:24	8/27/25	
Isophorone	430 U	2100	430	5	08/28/25 16:24	8/27/25	
N-Nitrosodi-n-propylamine	630 U	2100	630	5	08/28/25 16:24	8/27/25	
N-Nitrosodiphenylamine	1300 U	2100	1300	5	08/28/25 16:24	8/27/25	
Nitrobenzene	370 U	2100	370	5	08/28/25 16:24	8/27/25	
Pentachlorophenol (PCP)	2100 U	11000	2100	5	08/28/25 16:24	8/27/25	
Phenol	420 U	2100	420	5	08/28/25 16:24	8/27/25	
Pyridine	280 U	11000	280	5	08/28/25 16:24	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	58	18 - 104	08/28/25 16:24	
Nitrobenzene-d5	56	12 - 98	08/28/25 16:24	
p-Terphenyl-d14	68	26 - 134	08/28/25 16:24	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Units:**	ug/Kg
Lab Code:	R2510172-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	340 U	1800	340	5	08/28/25 16:48	8/27/25	
1,2,4,5-Tetrachlorobenzene	410 U	1800	410	5	08/28/25 16:48	8/27/25	
2-Methylnaphthalene	650 U	1800	650	5	08/28/25 16:48	8/27/25	
Acenaphthene	350 U	1800	350	5	08/28/25 16:48	8/27/25	
Acenaphthylene	380 U	1800	380	5	08/28/25 16:48	8/27/25	
Anthracene	310 U	1800	310	5	08/28/25 16:48	8/27/25	
Benz(a)anthracene	280 U	1800	280	5	08/28/25 16:48	8/27/25	
Benzo(a)pyrene	490 U	1800	490	5	08/28/25 16:48	8/27/25	
Benzo(b)fluoranthene	310 U	1800	310	5	08/28/25 16:48	8/27/25	
Benzo(g,h,i)perylene	430 U	1800	430	5	08/28/25 16:48	8/27/25	
Benzo(k)fluoranthene	300 U	1800	300	5	08/28/25 16:48	8/27/25	
1,4-Dichlorobenzene	310 U	1800	310	5	08/28/25 16:48	8/27/25	
Biphenyl	550 U	1800	550	5	08/28/25 16:48	8/27/25	
Chrysene	270 U	1800	270	5	08/28/25 16:48	8/27/25	
1,4-Dioxane	180 U	370	180	5	08/28/25 16:48	8/27/25	
Dibenz(a,h)anthracene	400 U	1800	400	5	08/28/25 16:48	8/27/25	
Dibenzofuran	340 U	1800	340	5	08/28/25 16:48	8/27/25	
Fluoranthene	470 U	1800	470	5	08/28/25 16:48	8/27/25	
Fluorene	350 U	1800	350	5	08/28/25 16:48	8/27/25	
Indeno(1,2,3-cd)pyrene	600 U	1800	600	5	08/28/25 16:48	8/27/25	
Naphthalene	350 U	1800	350	5	08/28/25 16:48	8/27/25	
Phenanthrene	260 U	1800	260	5	08/28/25 16:48	8/27/25	
Pyrene	310 U	1800	310	5	08/28/25 16:48	8/27/25	
2,3,4,6-Tetrachlorophenol	640 U	1800	640	5	08/28/25 16:48	8/27/25	
2,4,5-Trichlorophenol	460 U	1800	460	5	08/28/25 16:48	8/27/25	
2,4,6-Trichlorophenol	410 U	1800	410	5	08/28/25 16:48	8/27/25	
2,4-Dichlorophenol	360 U	1800	360	5	08/28/25 16:48	8/27/25	
2,4-Dimethylphenol	330 U	1800	330	5	08/28/25 16:48	8/27/25	
2,4-Dinitrophenol	3200 U	9500	3200	5	08/28/25 16:48	8/27/25	
2,4-Dinitrotoluene	710 U	1800	710	5	08/28/25 16:48	8/27/25	
2,6-Dinitrotoluene	410 U	1800	410	5	08/28/25 16:48	8/27/25	
2-Chloronaphthalene	370 U	1800	370	5	08/28/25 16:48	8/27/25	
2-Chlorophenol	310 U	1800	310	5	08/28/25 16:48	8/27/25	
2-Methylphenol	390 U	1800	390	5	08/28/25 16:48	8/27/25	
2-Nitroaniline	440 U	9500	440	5	08/28/25 16:48	8/27/25	
2-Nitrophenol	430 U	1800	430	5	08/28/25 16:48	8/27/25	
3,3'-Dichlorobenzidine	670 U	1800	670	5	08/28/25 16:48	8/27/25	
3- and 4-Methylphenol Coelution	360 U	1800	360	5	08/28/25 16:48	8/27/25	
3-Nitroaniline	370 U	9500	370	5	08/28/25 16:48	8/27/25	
4,6-Dinitro-2-methylphenol	1100 U	9500	1100	5	08/28/25 16:48	8/27/25	
4-Bromophenyl Phenyl Ether	490 U	1800	490	5	08/28/25 16:48	8/27/25	
4-Chloro-3-methylphenol	370 U	1800	370	5	08/28/25 16:48	8/27/25	
4-Chloroaniline	670 U	1800	670	5	08/28/25 16:48	8/27/25	

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Units:**	ug/Kg
Lab Code:	R2510172-002	**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	400 U	1800	400	5	08/28/25 16:48	8/27/25	
4-Nitroaniline	400 U	9500	400	5	08/28/25 16:48	8/27/25	
4-Nitrophenol	950 U	9500	950	5	08/28/25 16:48	8/27/25	
Acetophenone	530 U	1800	530	5	08/28/25 16:48	8/27/25	
Atrazine	550 U	1800	550	5	08/28/25 16:48	8/27/25	
Benzaldehyde	450 U	9500	450	5	08/28/25 16:48	8/27/25	
Benzoic Acid	2900 U	9500	2900	5	08/28/25 16:48	8/27/25	
Bis(1-chloroisopropyl) Ether	380 U	1800	380	5	08/28/25 16:48	8/27/25	
Bis(2-chloroethoxy)methane	450 U	1800	450	5	08/28/25 16:48	8/27/25	
Bis(2-chloroethyl) Ether	370 U	1800	370	5	08/28/25 16:48	8/27/25	
Bis(2-ethylhexyl) Phthalate	340 U	2800	340	5	08/28/25 16:48	8/27/25	
Butyl Benzyl Phthalate	540 U	1800	540	5	08/28/25 16:48	8/27/25	
Caprolactam	410 U	1800	410	5	08/28/25 16:48	8/27/25	
Carbazole	300 U	1800	300	5	08/28/25 16:48	8/27/25	
Di-n-butyl Phthalate	300 U	1800	300	5	08/28/25 16:48	8/27/25	
Di-n-octyl Phthalate	650 U	1800	650	5	08/28/25 16:48	8/27/25	
Diethyl Phthalate	330 U	1800	330	5	08/28/25 16:48	8/27/25	
Dimethyl Phthalate	350 U	1800	350	5	08/28/25 16:48	8/27/25	
Hexachlorobenzene	450 U	1800	450	5	08/28/25 16:48	8/27/25	
Hexachlorobutadiene	650 U	1800	650	5	08/28/25 16:48	8/27/25	
Hexachlorocyclopentadiene	590 U	1800	590	5	08/28/25 16:48	8/27/25	
Hexachloroethane	350 U	1800	350	5	08/28/25 16:48	8/27/25	
Isophorone	390 U	1800	390	5	08/28/25 16:48	8/27/25	
N-Nitrosodi-n-propylamine	570 U	1800	570	5	08/28/25 16:48	8/27/25	
N-Nitrosodiphenylamine	1200 U	1800	1200	5	08/28/25 16:48	8/27/25	
Nitrobenzene	330 U	1800	330	5	08/28/25 16:48	8/27/25	
Pentachlorophenol (PCP)	1900 U	9500	1900	5	08/28/25 16:48	8/27/25	
Phenol	370 U	1800	370	5	08/28/25 16:48	8/27/25	
Pyridine	250 U	9500	250	5	08/28/25 16:48	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	55	18 - 104	08/28/25 16:48	
Nitrobenzene-d5	55	12 - 98	08/28/25 16:48	
p-Terphenyl-d14	68	26 - 134	08/28/25 16:48	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Units:**	ug/Kg
Lab Code:	R2510172-003	**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	420	U	1900	420	5	08/28/25 17:12	8/27/25	
1-Methylnaphthalene	340	U	1900	340	5	08/28/25 17:12	8/27/25	
2-Methylnaphthalene	660	U	1900	660	5	08/28/25 17:12	8/27/25	
Acenaphthene	350	U	1900	350	5	08/28/25 17:12	8/27/25	
Acenaphthylene	380	U	1900	380	5	08/28/25 17:12	8/27/25	
Anthracene	310	U	1900	310	5	08/28/25 17:12	8/27/25	
Benz(a)anthracene	280	U	1900	280	5	08/28/25 17:12	8/27/25	
Benzo(a)pyrene	500	U	1900	500	5	08/28/25 17:12	8/27/25	
Benzo(b)fluoranthene	310	U	1900	310	5	08/28/25 17:12	8/27/25	
Benzo(g,h,i)perylene	430	U	1900	430	5	08/28/25 17:12	8/27/25	
1,4-Dichlorobenzene	310	U	1900	310	5	08/28/25 17:12	8/27/25	
Benzo(k)fluoranthene	300	U	1900	300	5	08/28/25 17:12	8/27/25	
Biphenyl	550	U	1900	550	5	08/28/25 17:12	8/27/25	
Chrysene	280	U	1900	280	5	08/28/25 17:12	8/27/25	
1,4-Dioxane	180	U	380	180	5	08/28/25 17:12	8/27/25	
Dibenz(a,h)anthracene	410	U	1900	410	5	08/28/25 17:12	8/27/25	
Dibenzofuran	340	U	1900	340	5	08/28/25 17:12	8/27/25	
Fluoranthene	470	U	1900	470	5	08/28/25 17:12	8/27/25	
Fluorene	350	U	1900	350	5	08/28/25 17:12	8/27/25	
Indeno(1,2,3-cd)pyrene	600	U	1900	600	5	08/28/25 17:12	8/27/25	
Naphthalene	350	U	1900	350	5	08/28/25 17:12	8/27/25	
Phenanthrene	270	U	1900	270	5	08/28/25 17:12	8/27/25	
Pyrene	**370**	**J**	1900	310	5	08/28/25 17:12	8/27/25	
2,3,4,6-Tetrachlorophenol	650	U	1900	650	5	08/28/25 17:12	8/27/25	
2,4,5-Trichlorophenol	460	U	1900	460	5	08/28/25 17:12	8/27/25	
2,4,6-Trichlorophenol	420	U	1900	420	5	08/28/25 17:12	8/27/25	
2,4-Dichlorophenol	360	U	1900	360	5	08/28/25 17:12	8/27/25	
2,4-Dimethylphenol	340	U	1900	340	5	08/28/25 17:12	8/27/25	
2,4-Dinitrophenol	3200	U	9500	3200	5	08/28/25 17:12	8/27/25	
2,4-Dinitrotoluene	720	U	1900	720	5	08/28/25 17:12	8/27/25	
2,6-Dinitrotoluene	410	U	1900	410	5	08/28/25 17:12	8/27/25	
2-Chloronaphthalene	370	U	1900	370	5	08/28/25 17:12	8/27/25	
2-Chlorophenol	310	U	1900	310	5	08/28/25 17:12	8/27/25	
2-Methylphenol	390	U	1900	390	5	08/28/25 17:12	8/27/25	
2-Nitroaniline	440	U	9500	440	5	08/28/25 17:12	8/27/25	
2-Nitrophenol	430	U	1900	430	5	08/28/25 17:12	8/27/25	
3,3'-Dichlorobenzidine	680	U	1900	680	5	08/28/25 17:12	8/27/25	
3- and 4-Methylphenol Coelution	360	U	1900	360	5	08/28/25 17:12	8/27/25	
3-Nitroaniline	380	U	9500	380	5	08/28/25 17:12	8/27/25	
4,6-Dinitro-2-methylphenol	1100	U	9500	1100	5	08/28/25 17:12	8/27/25	
4-Bromophenyl Phenyl Ether	490	U	1900	490	5	08/28/25 17:12	8/27/25	
4-Chloro-3-methylphenol	380	U	1900	380	5	08/28/25 17:12	8/27/25	
4-Chloroaniline	680	U	1900	680	5	08/28/25 17:12	8/27/25	

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Units:**	ug/Kg
Lab Code:	R2510172-003	**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	400 U	1900	400	5	08/28/25 17:12	8/27/25	
4-Nitroaniline	400 U	9500	400	5	08/28/25 17:12	8/27/25	
4-Nitrophenol	960 U	9500	960	5	08/28/25 17:12	8/27/25	
Acetophenone	540 U	1900	540	5	08/28/25 17:12	8/27/25	
Atrazine	560 U	1900	560	5	08/28/25 17:12	8/27/25	
Benzaldehyde	450 U	9500	450	5	08/28/25 17:12	8/27/25	
Benzoic Acid	3000 U	9500	3000	5	08/28/25 17:12	8/27/25	
Bis(1-chloroisopropyl) Ether	380 U	1900	380	5	08/28/25 17:12	8/27/25	
Bis(2-chloroethoxy)methane	460 U	1900	460	5	08/28/25 17:12	8/27/25	
Bis(2-chloroethyl) Ether	370 U	1900	370	5	08/28/25 17:12	8/27/25	
Bis(2-ethylhexyl) Phthalate	340 U	2800	340	5	08/28/25 17:12	8/27/25	
Butyl Benzyl Phthalate	540 U	1900	540	5	08/28/25 17:12	8/27/25	
Caprolactam	410 U	1900	410	5	08/28/25 17:12	8/27/25	
Carbazole	300 U	1900	300	5	08/28/25 17:12	8/27/25	
Di-n-butyl Phthalate	300 U	1900	300	5	08/28/25 17:12	8/27/25	
Di-n-octyl Phthalate	650 U	1900	650	5	08/28/25 17:12	8/27/25	
Diethyl Phthalate	330 U	1900	330	5	08/28/25 17:12	8/27/25	
Dimethyl Phthalate	360 U	1900	360	5	08/28/25 17:12	8/27/25	
Hexachlorobenzene	450 U	1900	450	5	08/28/25 17:12	8/27/25	
Hexachlorobutadiene	660 U	1900	660	5	08/28/25 17:12	8/27/25	
Hexachlorocyclopentadiene	590 U	1900	590	5	08/28/25 17:12	8/27/25	
Hexachloroethane	350 U	1900	350	5	08/28/25 17:12	8/27/25	
Isophorone	390 U	1900	390	5	08/28/25 17:12	8/27/25	
N-Nitrosodi-n-propylamine	570 U	1900	570	5	08/28/25 17:12	8/27/25	
N-Nitrosodiphenylamine	1200 U	1900	1200	5	08/28/25 17:12	8/27/25	
Nitrobenzene	330 U	1900	330	5	08/28/25 17:12	8/27/25	
Pentachlorophenol (PCP)	1900 U	9500	1900	5	08/28/25 17:12	8/27/25	
Phenol	380 U	1900	380	5	08/28/25 17:12	8/27/25	
Pyridine	250 U	9500	250	5	08/28/25 17:12	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	18 - 104	08/28/25 17:12	
Nitrobenzene-d5	47	12 - 98	08/28/25 17:12	
p-Terphenyl-d14	60	26 - 134	08/28/25 17:12	

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Units:**	ug/Kg
Lab Code:	R2510172-001	**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	**2.8**		2.1	1.1	1	08/29/25 21:39	8/27/25	
4,4'-DDE	**21**		2.1	1.1	1	08/29/25 21:39	8/27/25	
4,4'-DDT	**8.2**		2.1	1.1	1	08/29/25 21:39	8/27/25	
Aldrin	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Chlordane	5.3	U	10	5.3	1	08/29/25 21:39	8/27/25	
Dieldrin	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endosulfan I	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endosulfan II	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endosulfan Sulfate	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endrin	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endrin Aldehyde	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Endrin Ketone	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Heptachlor	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Heptachlor Epoxide	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Methoxychlor	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
Toxaphene	24	U	41	24	1	08/29/25 21:39	8/27/25	
alpha-BHC	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
alpha-Chlordane	**4.2**	**P**	2.1	1.1	1	08/29/25 21:39	8/27/25	
beta-BHC	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
delta-BHC	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
gamma-BHC (Lindane)	1.1	U	2.1	1.1	1	08/29/25 21:39	8/27/25	
gamma-Chlordane	**1.9**	**J**	2.1	1.1	1	08/29/25 21:39	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	08/29/25 21:39	
Tetrachloro-m-xylene	61	10 - 132	08/29/25 21:39	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Units:**	ug/Kg
Lab Code:	R2510172-002	**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	**2.5**	1.9	0.96	1	09/04/25 11:18	8/27/25	
4,4'-DDE	**10**	1.9	0.96	1	09/04/25 11:18	8/27/25	
4,4'-DDT	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Aldrin	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Chlordane	4.8 U	9.4	4.8	1	09/04/25 11:18	8/27/25	
Dieldrin	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endosulfan I	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endosulfan II	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endosulfan Sulfate	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endrin	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endrin Aldehyde	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Endrin Ketone	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Heptachlor	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Heptachlor Epoxide	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Methoxychlor	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
Toxaphene	22 U	37	22	1	09/04/25 11:18	8/27/25	
alpha-BHC	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
alpha-Chlordane	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
beta-BHC	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
delta-BHC	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
gamma-BHC (Lindane)	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	
gamma-Chlordane	0.96 U	1.9	0.96	1	09/04/25 11:18	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 159	09/04/25 11:18	
Tetrachloro-m-xylene	63	10 - 132	09/04/25 11:18	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Units:**	ug/Kg
Lab Code:	R2510172-003	**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	**3.4**		1.9	0.95	1	09/04/25 11:35	8/27/25	
4,4'-DDE	**24**		1.9	0.95	1	09/04/25 11:35	8/27/25	
4,4'-DDT	**12**		1.9	0.95	1	09/04/25 11:35	8/27/25	
Aldrin	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Chlordane	4.8	U	9.4	4.8	1	09/04/25 11:35	8/27/25	
Dieldrin	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endosulfan I	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endosulfan II	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endosulfan Sulfate	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endrin	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endrin Aldehyde	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Endrin Ketone	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Heptachlor	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Heptachlor Epoxide	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Methoxychlor	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
Toxaphene	22	U	37	22	1	09/04/25 11:35	8/27/25	
alpha-BHC	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
alpha-Chlordane	**3.0**		1.9	0.95	1	09/04/25 11:35	8/27/25	
beta-BHC	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
delta-BHC	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
gamma-BHC (Lindane)	0.95	U	1.9	0.95	1	09/04/25 11:35	8/27/25	
gamma-Chlordane	**1.6**	**J**	1.9	0.95	1	09/04/25 11:35	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	09/04/25 11:35	
Tetrachloro-m-xylene	52	10 - 132	09/04/25 11:35	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Units:**	ug/Kg
Lab Code:	R2510172-001	**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	22 U	41	22	1	08/29/25 03:21	8/27/25	
Aroclor 1221	33 U	84	33	1	08/29/25 03:21	8/27/25	
Aroclor 1232	24 U	41	24	1	08/29/25 03:21	8/27/25	
Aroclor 1242	22 U	41	22	1	08/29/25 03:21	8/27/25	
Aroclor 1248	23 U	41	23	1	08/29/25 03:21	8/27/25	
Aroclor 1254	22 U	41	22	1	08/29/25 03:21	8/27/25	
Aroclor 1260	22 U	41	22	1	08/29/25 03:21	8/27/25	
Aroclor 1262	22 U	41	22	1	08/29/25 03:21	8/27/25	
Aroclor 1268	22 U	41	22	1	08/29/25 03:21	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 138	08/29/25 03:21	
Tetrachloro-m-xylene	52	11 - 122	08/29/25 03:21	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Units:**	ug/Kg
Lab Code:	R2510172-002	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	37	20	1	08/29/25 03:35	8/27/25	
Aroclor 1221	30 U	76	30	1	08/29/25 03:35	8/27/25	
Aroclor 1232	22 U	37	22	1	08/29/25 03:35	8/27/25	
Aroclor 1242	20 U	37	20	1	08/29/25 03:35	8/27/25	
Aroclor 1248	21 U	37	21	1	08/29/25 03:35	8/27/25	
Aroclor 1254	20 U	37	20	1	08/29/25 03:35	8/27/25	
Aroclor 1260	20 U	37	20	1	08/29/25 03:35	8/27/25	
Aroclor 1262	20 U	37	20	1	08/29/25 03:35	8/27/25	
Aroclor 1268	20 U	37	20	1	08/29/25 03:35	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	10 - 138	08/29/25 03:35	
Tetrachloro-m-xylene	59	11 - 122	08/29/25 03:35	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Units:**	ug/Kg
Lab Code:	R2510172-003	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	37	20	1	08/29/25 03:48	8/27/25	
Aroclor 1221	30 U	76	30	1	08/29/25 03:48	8/27/25	
Aroclor 1232	22 U	37	22	1	08/29/25 03:48	8/27/25	
Aroclor 1242	20 U	37	20	1	08/29/25 03:48	8/27/25	
Aroclor 1248	21 U	37	21	1	08/29/25 03:48	8/27/25	
Aroclor 1254	20 U	37	20	1	08/29/25 03:48	8/27/25	
Aroclor 1260	20 U	37	20	1	08/29/25 03:48	8/27/25	
Aroclor 1262	20 U	37	20	1	08/29/25 03:48	8/27/25	
Aroclor 1268	20 U	37	20	1	08/29/25 03:48	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 138	08/29/25 03:48	
Tetrachloro-m-xylene	53	11 - 122	08/29/25 03:48	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Units:**	ug/Kg
Lab Code:	R2510172-001	**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	6.3 U	13	6.3	1	09/04/25 04:13	8/27/25	
2,4,5-TP	5.7 U	13	5.7	1	09/04/25 04:13	8/27/25	
2,4-D	8.2 U	13	8.2	1	09/04/25 04:13	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	10 - 151	09/04/25 04:13	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Units:**	ug/Kg
Lab Code:	R2510172-002	**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	09/04/25 05:26	8/28/25	
2,4,5-TP	5.1 U	11	5.1	1	09/04/25 05:26	8/28/25	
2,4-D	7.4 U	11	7.4	1	09/04/25 05:26	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	10 - 151	09/04/25 05:26	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Units:**	ug/Kg
Lab Code:	R2510172-003	**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	11	5.8	1	09/04/25 05:44	8/28/25	
2,4,5-TP	5.2 U	11	5.2	1	09/04/25 05:44	8/28/25	
2,4-D	7.5 U	11	7.5	1	09/04/25 05:44	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	45	10 - 151	09/04/25 05:44	

General Chemistry

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

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:45
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB01 (1-2)	**Basis:**	As Received
Lab Code:	R2510172-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.6**	Percent	-	-	1	08/29/25 10:00	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:50
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB02 (3-4)	**Basis:**	As Received
Lab Code:	R2510172-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.3**	Percent	-	-	1	08/29/25 10:00	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	08/14/25 11:55
Sample Matrix:	Soil	**Date Received:**	08/20/25 09:30
Sample Name:	5180 SB03 (5-6)	**Basis:**	As Received
Lab Code:	R2510172-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.2**	Percent	-	-	1	08/29/25 10:00	

QC Summary Forms

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

Semivolatile Organic Compounds by GC/MS

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 **Service Request:** R2510172
Project: 5180 St Clair
Sample Matrix: Soil

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 18 - 104	Nitrobenzene-d5 12 - 98	p-Terphenyl-d14 26 - 134
5180 SB01 (1-2)	R2510172-001	58	56	68
5180 SB02 (3-4)	R2510172-002	55	55	68
5180 SB03 (5-6)	R2510172-003	46	47	60
Method Blank	RQ2511422-01	83	83	115
Lab Control Sample	RQ2511422-02	64	58	83
Duplicate Lab Control Sample	RQ2511422-03	76	66	101

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511422-01	**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	08/28/25 11:56	8/27/25	
1-Methylnaphthalene	61	U	330	61	1	08/28/25 11:56	8/27/25	
2-Methylnaphthalene	120	U	330	120	1	08/28/25 11:56	8/27/25	
Acenaphthene	63	U	330	63	1	08/28/25 11:56	8/27/25	
Acenaphthylene	67	U	330	67	1	08/28/25 11:56	8/27/25	
Anthracene	55	U	330	55	1	08/28/25 11:56	8/27/25	
Benz(a)anthracene	49	U	330	49	1	08/28/25 11:56	8/27/25	
Benzo(a)pyrene	88	U	330	88	1	08/28/25 11:56	8/27/25	
Benzo(b)fluoranthene	55	U	330	55	1	08/28/25 11:56	8/27/25	
Benzo(g,h,i)perylene	76	U	330	76	1	08/28/25 11:56	8/27/25	
1,4-Dichlorobenzene	55	U	330	55	1	08/28/25 11:56	8/27/25	
Benzo(k)fluoranthene	54	U	330	54	1	08/28/25 11:56	8/27/25	
Biphenyl	98	U	330	98	1	08/28/25 11:56	8/27/25	
Chrysene	49	U	330	49	1	08/28/25 11:56	8/27/25	
1,4-Dioxane	32	U	66	32	1	08/28/25 11:56	8/27/25	
Dibenz(a,h)anthracene	72	U	330	72	1	08/28/25 11:56	8/27/25	
Dibenzofuran	60	U	330	60	1	08/28/25 11:56	8/27/25	
Fluoranthene	83	U	330	83	1	08/28/25 11:56	8/27/25	
Fluorene	62	U	330	62	1	08/28/25 11:56	8/27/25	
Indeno(1,2,3-cd)pyrene	110	U	330	110	1	08/28/25 11:56	8/27/25	
Naphthalene	62	U	330	62	1	08/28/25 11:56	8/27/25	
Phenanthrene	47	U	330	47	1	08/28/25 11:56	8/27/25	
Pyrene	55	U	330	55	1	08/28/25 11:56	8/27/25	
2,3,4,6-Tetrachlorophenol	120	U	330	120	1	08/28/25 11:56	8/27/25	
2,4,5-Trichlorophenol	82	U	330	82	1	08/28/25 11:56	8/27/25	
2,4,6-Trichlorophenol	74	U	330	74	1	08/28/25 11:56	8/27/25	
2,4-Dichlorophenol	64	U	330	64	1	08/28/25 11:56	8/27/25	
2,4-Dimethylphenol	59	U	330	59	1	08/28/25 11:56	8/27/25	
2,4-Dinitrophenol	560	U	1700	560	1	08/28/25 11:56	8/27/25	
2,4-Dinitrotoluene	130	U	330	130	1	08/28/25 11:56	8/27/25	
2,6-Dinitrotoluene	72	U	330	72	1	08/28/25 11:56	8/27/25	
2-Chloronaphthalene	66	U	330	66	1	08/28/25 11:56	8/27/25	
2-Chlorophenol	55	U	330	55	1	08/28/25 11:56	8/27/25	
2-Methylphenol	69	U	330	69	1	08/28/25 11:56	8/27/25	
2-Nitroaniline	78	U	1700	78	1	08/28/25 11:56	8/27/25	
2-Nitrophenol	77	U	330	77	1	08/28/25 11:56	8/27/25	
3,3'-Dichlorobenzidine	120	U	330	120	1	08/28/25 11:56	8/27/25	
3- and 4-Methylphenol Coelution	63	U	330	63	1	08/28/25 11:56	8/27/25	
3-Nitroaniline	67	U	1700	67	1	08/28/25 11:56	8/27/25	
4,6-Dinitro-2-methylphenol	190	U	1700	190	1	08/28/25 11:56	8/27/25	
4-Bromophenyl Phenyl Ether	87	U	330	87	1	08/28/25 11:56	8/27/25	
4-Chloro-3-methylphenol	67	U	330	67	1	08/28/25 11:56	8/27/25	
4-Chloroaniline	120	U	330	120	1	08/28/25 11:56	8/27/25	

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511422-01	**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	08/28/25 11:56	8/27/25	
4-Nitroaniline	71 U	1700	71	1	08/28/25 11:56	8/27/25	
4-Nitrophenol	170 U	1700	170	1	08/28/25 11:56	8/27/25	
Acetophenone	95 U	330	95	1	08/28/25 11:56	8/27/25	
Atrazine	98 U	330	98	1	08/28/25 11:56	8/27/25	
Benzaldehyde	80 U	1700	80	1	08/28/25 11:56	8/27/25	
Benzoic Acid	520 U	1700	520	1	08/28/25 11:56	8/27/25	
Bis(1-chloroisopropyl) Ether	68 U	330	68	1	08/28/25 11:56	8/27/25	
Bis(2-chloroethoxy)methane	81 U	330	81	1	08/28/25 11:56	8/27/25	
Bis(2-chloroethyl) Ether	65 U	330	65	1	08/28/25 11:56	8/27/25	
Bis(2-ethylhexyl) Phthalate	61 U	490	61	1	08/28/25 11:56	8/27/25	
Butyl Benzyl Phthalate	96 U	330	96	1	08/28/25 11:56	8/27/25	
Caprolactam	73 U	330	73	1	08/28/25 11:56	8/27/25	
Carbazole	54 U	330	54	1	08/28/25 11:56	8/27/25	
Di-n-butyl Phthalate	54 U	330	54	1	08/28/25 11:56	8/27/25	
Di-n-octyl Phthalate	120 U	330	120	1	08/28/25 11:56	8/27/25	
Diethyl Phthalate	59 U	330	59	1	08/28/25 11:56	8/27/25	
Dimethyl Phthalate	63 U	330	63	1	08/28/25 11:56	8/27/25	
Hexachlorobenzene	79 U	330	79	1	08/28/25 11:56	8/27/25	
Hexachlorobutadiene	120 U	330	120	1	08/28/25 11:56	8/27/25	
Hexachlorocyclopentadiene	110 U	330	110	1	08/28/25 11:56	8/27/25	
Hexachloroethane	62 U	330	62	1	08/28/25 11:56	8/27/25	
Isophorone	69 U	330	69	1	08/28/25 11:56	8/27/25	
N-Nitrosodi-n-propylamine	110 U	330	110	1	08/28/25 11:56	8/27/25	
N-Nitrosodiphenylamine	210 U	330	210	1	08/28/25 11:56	8/27/25	
Nitrobenzene	59 U	330	59	1	08/28/25 11:56	8/27/25	
Pentachlorophenol (PCP)	330 U	1700	330	1	08/28/25 11:56	8/27/25	
Phenol	67 U	330	67	1	08/28/25 11:56	8/27/25	
Pyridine	45 U	1700	45	1	08/28/25 11:56	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	18 - 104	08/28/25 11:56	
Nitrobenzene-d5	83	12 - 98	08/28/25 11:56	
p-Terphenyl-d14	115	26 - 134	08/28/25 11:56	

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2511422-02			RQ2511422-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1-Methylnaphthalene	8270E	1870	3300	57	2160	3290	66	29-100	15	30
1,2,4,5-Tetrachlorobenzene	8270E	1950	3300	59	2260	3290	69	20-126	14	30
2-Methylnaphthalene	8270E	1790	3300	54	2060	3290	63	29-99	14	30
Acenaphthene	8270E	2180	3300	66	2570	3290	78	41-110	17	30
Acenaphthylene	8270E	2420	3300	73	2880	3290	88	44-122	17	30
Anthracene	8270E	2370	3300	72	2880	3290	87	41-123	19	30
Benz(a)anthracene	8270E	2440	3300	74	2900	3290	88	44-116	17	30
Benzo(a)pyrene	8270E	2750	3300	83	3390	3290	103	56-146	21	30
Benzo(b)fluoranthene	8270E	2310	3300	70	2830	3290	86	47-120	20	30
Benzo(g,h,i)perylene	8270E	2290	3300	69	2890	3290	88	41-129	23	30
Benzo(k)fluoranthene	8270E	2440	3300	74	3030	3290	92	49-124	22	30
1,4-Dichlorobenzene	8270E	1860	3300	56	2190	3290	66	16-83	16	30
Biphenyl	8270E	1990	3300	60	2330	3290	71	24-112	16	30
Chrysene	8270E	2450	3300	74	2940	3290	89	44-119	18	30
1,4-Dioxane	8270E	1270	3300	38	1410	3290	43	10-58	10	30
Dibenz(a,h)anthracene	8270E	2390	3300	72	3020	3290	92	18-146	23	30
Dibenzofuran	8270E	2250	3300	68	2690	3290	82	43-113	18	30
Fluoranthene	8270E	2410	3300	73	3010	3290	92	39-128	22	30
Fluorene	8270E	2270	3300	69	2710	3290	82	40-117	18	30
Indeno(1,2,3-cd)pyrene	8270E	2550	3300	77	3210	3290	98	43-129	23	30
Naphthalene	8270E	1840	3300	56	2100	3290	64	31-93	13	30
Phenanthrene	8270E	2170	3300	66	2650	3290	80	39-120	20	30
Pyrene	8270E	2370	3300	72	2920	3290	89	45-125	21	30
2,3,4,6-Tetrachlorophenol	8270E	2620	3300	79	3220	3290	98	42-117	21	30
2,4,5-Trichlorophenol	8270E	2430	3300	73	2910	3290	88	40-114	18	30
2,4,6-Trichlorophenol	8270E	2280	3300	69	2760	3290	84	33-108	19	30
2,4-Dichlorophenol	8270E	2050	3300	62	2400	3290	73	30-103	16	30
2,4-Dimethylphenol	8270E	2030	3300	62	2370	3290	72	32-100	15	30
2,4-Dinitrophenol	8270E	1650 J	3300	50	1910	3290	58	10-97	14	30
2,4-Dinitrotoluene	8270E	2470	3300	75	3040	3290	92	53-120	21	30
2,6-Dinitrotoluene	8270E	2420	3300	73	2980	3290	91	48-119	21	30
2-Chloronaphthalene	8270E	2160	3300	65	2560	3290	78	33-103	17	30
2-Chlorophenol	8270E	2050	3300	62	2430	3290	74	26-90	17	30

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2511422-02			RQ2511422-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylphenol	8270E	2270	3300	69	2660	3290	81	33-99	16	30
2-Nitroaniline	8270E	2310	3300	70	2890	3290	88	41-119	22	30
2-Nitrophenol	8270E	1940	3300	59	2220	3290	67	24-98	14	30
3- and 4-Methylphenol Coelution	8270E	2340	3300	71	2750	3290	84	32-100	16	30
3-Nitroaniline	8270E	1880	3300	57	2340	3290	71	29-105	22	30
4,6-Dinitro-2-methylphenol	8270E	2220	3300	67	2650	3290	80	20-105	17	30
4-Bromophenyl Phenyl Ether	8270E	2350	3300	71	2860	3290	87	37-116	19	30
4-Chloro-3-methylphenol	8270E	2180	3300	66	2590	3290	79	40-116	17	30
4-Chloroaniline	8270E	1890	3300	57	2090	3290	64	10-87	10	30
4-Chlorophenyl Phenyl Ether	8270E	2230	3300	67	2700	3290	82	42-111	19	30
4-Nitroaniline	8270E	1940	3300	59	2410	3290	73	43-120	22	30
4-Nitrophenol	8270E	1770	3300	54	2320	3290	70	34-116	27	30
Acetophenone	8270E	1920	3300	58	2230	3290	68	23-87	15	30
Benzoic Acid	8270E	1940	3300	59	2140	3290	65	10-126	10	30
Bis(1-chloroisopropyl) Ether	8270E	2090	3300	63	2470	3290	75	22-99	16	30
Bis(2-chloroethoxy)methane	8270E	2030	3300	62	2340	3290	71	38-119	14	30
Bis(2-chloroethyl) Ether	8270E	1980	3300	60	2350	3290	71	23-94	17	30
Bis(2-ethylhexyl) Phthalate	8270E	2580	3300	78	3210	3290	98	38-139	22	30
Butyl Benzyl Phthalate	8270E	2450	3300	74	3080	3290	93	40-134	23	30
Caprolactam	8270E	1920	3300	58	2350	3290	71	21-128	20	30
Carbazole	8270E	2370	3300	72	2960	3290	90	42-131	22	30
Di-n-butyl Phthalate	8270E	2540	3300	77	3160	3290	96	42-141	22	30
Di-n-octyl Phthalate	8270E	2750	3300	83	3320	3290	101	38-143	19	30
Diethyl Phthalate	8270E	2330	3300	71	2820	3290	86	43-118	19	30
Dimethyl Phthalate	8270E	2360	3300	71	2880	3290	87	40-118	20	30
Hexachlorobenzene	8270E	2300	3300	70	2830	3290	86	35-122	21	30
Hexachlorobutadiene	8270E	1800	3300	55	2080	3290	63	28-96	14	30
Hexachlorocyclopentadiene	8270E	1880	3300	57	2290	3290	70	10-111	20	30
Hexachloroethane	8270E	1870	3300	56	2200	3290	67	18-85	17	30
Isophorone	8270E	2060	3300	62	2400	3290	73	39-104	15	30
N-Nitrosodi-n-propylamine	8270E	2040	3300	62	2440	3290	74	30-98	18	30
N-Nitrosodiphenylamine	8270E	2580	3300	78	3160	3290	96	43-130	20	30
Nitrobenzene	8270E	1950	3300	59	2240	3290	68	31-99	14	30

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 08/28/25

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

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2511422-02			RQ2511422-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Pentachlorophenol (PCP)	8270E	1830	3300	55	2260	3290	69	36-138	21	30
Phenol	8270E	2130	3300	64	2540	3290	77	31-100	17	30
Pyridine	8270E	3570	6610	54	4000	6580	61	12-80	11	30

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ALS Environmental - US **Service Request:** R2510172
Project: 5180 St Clair
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl 10 - 159	Tetrachloro-m-xylene 10 - 132
5180 SB01 (1-2)	R2510172-001	67	61
5180 SB02 (3-4)	R2510172-002	69	63
5180 SB03 (5-6)	R2510172-003	67	52
Method Blank	RQ2511421-01	82	58
Lab Control Sample	RQ2511421-02	85	67
Duplicate Lab Control Sample	RQ2511421-03	83	56

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511421-01	**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	08/29/25 19:03	8/27/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Aldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Chlordane	4.2 U	8.3	4.2	1	08/29/25 19:03	8/27/25	
Dieldrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
Toxaphene	19 U	33	19	1	08/29/25 19:03	8/27/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
beta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
delta-BHC	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/29/25 19:03	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 159	08/29/25 19:03	
Tetrachloro-m-xylene	58	10 - 132	08/29/25 19:03	

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2511421-02			RQ2511421-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	5.21	6.61	79	5.22	6.63	79	48-121	<1	30
4,4'-DDE	8081B	5.32	6.61	81	5.16	6.63	78	51-119	3	30
4,4'-DDT	8081B	5.14	6.61	78	5.10	6.63	77	51-126	<1	30
Aldrin	8081B	5.55	6.61	84	4.96	6.63	75	45-109	11	30
Dieldrin	8081B	5.53	6.61	84	5.35	6.63	81	56-111	3	30
Endosulfan I	8081B	5.23	6.61	79	4.97	6.63	75	54-109	5	30
Endosulfan II	8081B	5.39	6.61	82	5.39	6.63	81	50-116	<1	30
Endosulfan Sulfate	8081B	5.25	6.61	79	5.21	6.63	79	55-115	<1	30
Endrin	8081B	5.34	6.61	81	5.15	6.63	78	49-124	3	30
Endrin Aldehyde	8081B	6.09	6.61	92	6.16	6.63	93	21-139	1	30
Endrin Ketone	8081B	5.42	6.61	82	5.40	6.63	81	50-124	<1	30
Heptachlor	8081B	5.63	6.61	85	4.98	6.63	75	43-115	12	30
Heptachlor Epoxide	8081B	5.55	6.61	84	5.15	6.63	78	53-113	7	30
Methoxychlor	8081B	5.79	6.61	88	5.88	6.63	89	47-141	2	30
alpha-BHC	8081B	5.21	6.61	79	4.63	6.63	70	44-109	12	30
alpha-Chlordane	8081B	5.42	6.61	82	5.16	6.63	78	52-114	5	30
beta-BHC	8081B	5.48	6.61	83	5.09	6.63	77	49-119	7	30
delta-BHC	8081B	5.55	6.61	84	5.28	6.63	80	49-113	5	30
gamma-BHC (Lindane)	8081B	5.42	6.61	82	4.84	6.63	73	43-112	11	30
gamma-Chlordane	8081B	5.75	6.61	87	5.41	6.63	82	51-117	6	30

Client: ALS Environmental - US **Service Request:** R2510172
Project: 5180 St Clair
Sample Matrix: Soil

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

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl 10 - 138	Tetrachloro-m-xylene 11 - 122
5180 SB01 (1-2)	R2510172-001	79	52
5180 SB02 (3-4)	R2510172-002	76	59
5180 SB03 (5-6)	R2510172-003	69	53
Method Blank	RQ2511421-01	79	53
Lab Control Sample	RQ2511421-04	88	64
Duplicate Lab Control Sample	RQ2511421-05	80	56

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511421-01	**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	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1221	26 U	66	26	1	08/29/25 01:06	8/27/25	
Aroclor 1232	19 U	32	19	1	08/29/25 01:06	8/27/25	
Aroclor 1242	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1248	18 U	32	18	1	08/29/25 01:06	8/27/25	
Aroclor 1254	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1260	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1262	17 U	32	17	1	08/29/25 01:06	8/27/25	
Aroclor 1268	17 U	32	17	1	08/29/25 01:06	8/27/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 138	08/29/25 01:06	
Tetrachloro-m-xylene	53	11 - 122	08/29/25 01:06	

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 08/29/25

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

Units:ug/Kg
Basis: Dry

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2511421-04		RQ2511421-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	130	164	79	122	166	73	34-141	7	30
Aroclor 1260	8082A	140	164	85	137	166	82	30-158	2	30

Client: ALS Environmental - US **Service Request:** R2510172
Project: 5180 St Clair
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA 10 - 151
5180 SB01 (1-2)	R2510172-001	59
5180 SB02 (3-4)	R2510172-002	56
5180 SB03 (5-6)	R2510172-003	45
Method Blank	RQ2511443-01	53
Lab Control Sample	RQ2511443-02	45
Duplicate Lab Control Sample	RQ2511443-03	41
Method Blank	RQ2511578-01	54
Lab Control Sample	RQ2511578-02	51
Duplicate Lab Control Sample	RQ2511578-03	52

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511443-01	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

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

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

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	R2510172
Project:	5180 St Clair	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2511578-01	**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	9.9	5.0	1	09/04/25 04:31	8/28/25	
2,4,5-TP	4.5 U	9.9	4.5	1	09/04/25 04:31	8/28/25	
2,4-D	6.5 U	9.9	6.5	1	09/04/25 04:31	8/28/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	10 - 151	09/04/25 04:31	

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 09/03/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2511443-02		RQ2511443-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	17.5	24.9	70	16.2	25.0	65	19-127	7	30
2,4,5-TP	8151A	15.1	24.9	60	14.2	25.0	57	18-122	6	30
2,4-D	8151A	13.2	24.9	53	11.8	25.0	47	31-119	11	30

Client: ALS Environmental - US
Project: 5180 St Clair
Sample Matrix: Soil

Service Request: R2510172
Date Analyzed: 09/04/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2511578-02		RQ2511578-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	19.0	24.6	77	19.6	24.9	79	19-127	3	30
2,4,5-TP	8151A	17.3	24.6	70	17.9	24.9	72	18-122	4	30
2,4-D	8151A	14.2	24.6	58	15.4	24.9	62	31-119	8	30

Confirmation Results

Client: ALS Environmental - US
Project: 5180 St Clair
Matrix: Soil

Service Request: R2510172
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511443-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	17.5	16.5	6		1	09/03/25 21:46
2,4,5-TP	4.5	15.1	14.9	1		1	09/03/25 21:46
2,4-D	6.5	13.2	14.3	8		1	09/03/25 21:46

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 5180 St Clair
Matrix: Soil

Service Request: R2510172
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511443-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	16.2	15.3	6		1	09/03/25 22:05
2,4,5-TP	4.5	14.2	14.1	<1		1	09/03/25 22:05
2,4-D	6.5	11.8	13.1	10		1	09/03/25 22:05

Confirmation Results

Client: ALS Environmental - US
Project: 5180 St Clair
Matrix: Soil

Service Request: R2510172
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511578-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	19.0	18.5	3		1	09/04/25 04:49
2,4,5-TP	4.5	17.3	17.0	2		1	09/04/25 04:49
2,4-D	6.5	14.2	16.0	12		1	09/04/25 04:49

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: ALS Environmental - US
Project: 5180 St Clair
Matrix: Soil

Service Request: R2510172
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511578-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	5.0	19.6	19.4	1		1	09/04/25 05:08
2,4,5-TP	4.5	17.9	17.3	3		1	09/04/25 05:08
2,4-D	6.5	15.4	16.5	7		1	09/04/25 05:08

September 08, 2025 Service Request No:R2510172

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

Laboratory Results for: 5180 St Clair

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 **R2510172.**

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 +1 585 288 5380 | FAX +1 585 288 8475
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

October 24, 2025

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

Date Received: **10/10/2025**
Work Order: **HN2515052**

Re: **DETR0060**

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.	**Work Order:**	HN2515052
Project:	DETR0060	**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: HN2515052

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515052-001	5180 St. Clair SB01 TCLP	SOIL/SOLID	10/08/25 15:55	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 Certifications[1]

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.	**Work Order:**	HN2515052
Project:	DETR0060	**Date Collected:**	10/08/25 15:55
Matrix:	SOIL/SOLID	**Date Received:**	10/10/25 07:00

CLIENT ID: 5180 St. Clair SB01 TCLP — **Lab ID: HN2515052-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
TCLP Metals								
Arsenic	EPA 6020B	<0.00190	U	mg/L	0.0499	1	10/17/25 00:17	10/16/25 10:34
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 00:17	10/16/25 10:34
TCLP Volatile Organic Compounds by GC-MS								
1,1-Dichloroethylene	EPA 8260D	<8.00	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	<8.80	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	<48.6	U	µg/L	100	1	10/23/25 23:02	10/21/25 14:38
Carbon tetrachloride	EPA 8260D	<8.00	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
Chlorobenzene	EPA 8260D	<8.00	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
Chloroform	EPA 8260D	<9.20	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	<7.80	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
Trichloroethene (Trichloroethylene)	EPA 8260D	<8.60	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38
Vinyl chloride (Chloroethene)	EPA 8260D	<10.6	U	µg/L	20.0	1	10/23/25 23:02	10/21/25 14:38

QA/QC Report

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2515052
Project:	DETR0060	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
QC Lot:	2278706	**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	<0.00190	mg/L	0.0499							U
Chromium	<0.00610	mg/L	0.0499							U

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: HN2515052-001

QA/QC Report

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2515052
Project:	DETR0060	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
QC Lot:	2289028	**Run ID:**	3620739

TCLP Volatile Organic Compounds by GC-MS

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-2289028-001**

Method: EPA 8260D | **Dilution:** 1 | **Analysis Date:** 10/23/25 01:02 | **Prep Date:** 10/21/25 14:39

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1-Dichloroethylene	<8.00	µg/L	20.0							U
1,2-Dichloroethane (Ethylene dichloride)	<8.80	µg/L	20.0							U
2-Butanone (Methyl ethyl ketone, MEK)	<48.6	µg/L	100							U
Carbon tetrachloride	<8.00	µg/L	20.0							U
Chlorobenzene	<8.00	µg/L	20.0							U
Chloroform	<9.20	µg/L	20.0							U
Tetrachloroethylene (Perchloroethylene)	<7.80	µg/L	20.0							U
Trichloroethene (Trichloroethylene)	<8.60	µg/L	20.0							U
Vinyl chloride (Chloroethene)	<10.6	µg/L	20.0							U

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-2289028-002**

Method: EPA 8260D | **Dilution:** 1 | **Analysis Date:** 10/22/25 23:53 | **Prep Date:** 10/21/25 14:39

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1-Dichloroethylene	444	µg/L	20.0	400		111	66-131			
1,2-Dichloroethane (Ethylene dichloride)	426	µg/L	20.0	400		106	78-121			
2-Butanone (Methyl ethyl ketone, MEK)	433	µg/L	100	400		108	69-147			
Carbon tetrachloride	427	µg/L	20.0	400		107	69-124			
Chlorobenzene	395	µg/L	20.0	400		98.8	80-118			
Chloroform	401	µg/L	20.0	400		100	75-119			
Tetrachloroethylene (Perchloroethylene)	441	µg/L	20.0	400		110	80-124			
Trichloroethene (Trichloroethylene)	417	µg/L	20.0	400		104	75-122			
Vinyl chloride (Chloroethene)	339	µg/L	20.0	400		84.8	49-122			

The following samples were analyzed in this batch: HN2515052-001

ANALYST SUMMARY

Client:	The Mannik & Smith Group, Inc.	**Work Order:**	HN2515052
Project:	DETR0060		

Sample Name:	5180 St. Clair SB01 TCLP	**Date Collected:**	10/08/25
Laboratory Code:	HN2515052-001	**Date Received:**	10/10/25
Sample Matrix:	SOIL/SOLID		

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
EPA 8260D	EPA 5030B	001-AF	2289028	Caroline Cox	3620734	Ali Cook

ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

ALS Project Manager: | **Work Order #:**

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	5180 St. Clair	A	TCLP Arsenic
Work Order	Quote ID - 11631	Project Number	DETR0060	B	
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C	
Send Report To	Ryan Montri	Invoice Attn.		D	
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E	
				F	
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	G	
Phone	734-397-3100	Phone	734-397-3100	H	
Fax		Fax		I	
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		J	

Environmental Division Holland
Work Order Reference
HN2515052

Telephone : +1 616 399 6070

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	J	Hold
1	5180 St. Clair SB01 TCLP	10/8/25	1555	Soil		2	X					
2												
3												
4												
5												
6												
7												
8												
9												
10												

Sampler(s): Please Print & Sign Shannon Bucznicki

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	**Date:** 10/9/25	**Time:** 1600	**Received by:**	**Notes:** Qs to Brittany H 10/10/25 0700	
Relinquished by:	**Date:** 10/9/25	**Time:** 1700	**Received by (Laboratory):** QS	**Cooler Temp.**	**QC Package: (Check Box Below)**
Logged by (Laboratory): BH	**Date:** 10/10/25	**Time:** 1409	**Checked by (Laboratory):**	1127 1.9c	☐ Level II: Standard QC ☐ TRRP-Checklist ☐ Level III: Std QC + Raw Data ☐ TRRP Level IV ☐ Level IV: SW846 CLP-Like ☐ Other: _____

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

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

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):	127
Sample(s) received on ice?	(Yes) / No
Matrix/Matrices:	Soil
Cooler(s)/Kit(s):	1
Date/Time sample(s) sent to storage:	10/10/25 1409
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: