

DRAFT

FILL MATERIAL SAMPLING REPORT

**14005 TACOMA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48205**



**NOVEMBER 4, 2025
REVISED DECEMBER 12, 2025**

PREPARED FOR:

THE CITY OF DETROIT DEMOLITION DEPARTMENT

1301 THIRD STREET, SUITE 606

DETROIT, MICHIGAN 48226



FILL MATERIAL SAMPLING REPORT

**14005 TACOMA STREET
DETROIT, WAYNE COUNTY, MICHIGAN 48205**

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EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to perform sampling and analysis of fill materials at the property commonly addressed as 14005 Tacoma 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:

- The stratigraphy encountered during soil boring advancement of 14005 SB01, 14005 SB02, and 14005 SB03 generally consisted of brown and gray sand clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field photoionization detector (PID) readings of the recovered soil cores ranged from 0.0 to 0.2 parts per million (ppm). There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities; however, brick debris were observed in 14005 SB02 and 14005 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil sample 14005 SB02 (5-6') in excess of their respective Part 201 drinking water protection criteria (DWPC), groundwater surface water interface criteria (GSIPC), and/or direct contact criteria (DCC).
- Concentrations of 4,4-DDE barium, chloride, copper, lead, mercury, methylcyclohexane, and zinc were detected in soil samples 14005 SB01 (1-2'), 14005 SB02 (5-6'), and/or 14005 SB03 (3-4') at concentrations above laboratory method detection limits; however, detected concentrations were below their respective Part 201 GRCC and/or Statewide Default Background Levels.
- Toxicity Characteristic Leaching Procedure (TCLP) laboratory analytical results revealed that concentrations of arsenic and chromium were not in excess of 40 C.F.R. § 261.24 Title 40 - *Protection of Environment, Chapter I - Environmental Protection Agency, Subchapter I - Solid Wastes, Part 261- Identification and Listing of Hazardous Waste, Subpart C - Characteristics of Hazardous Waste*.
- 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. Given that the site is residential, exceedances of DCC may merit further consideration.

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

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

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the City of Detroit (COD) to conduct sampling and analysis of fill materials at the property commonly addressed as 14005 Tacoma 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 11, 2025. The findings of this report are valid as of the report date, subject to the limitations presented in *Appendix A, Limitations*.

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

2.0 PURPOSE AND SCOPE OF WORK

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

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

- Advanced three (3) onsite soil borings to a maximum depth of six (6) feet below ground surface (bgs) utilizing a direct push drill rig at the locations depicted on Figure 2.
- Collected one (1) discrete soil sample for laboratory analysis from each soil boring at a depth of 1-2 feet bgs, 3-4 feet bgs, or 5-6 feet bgs, depending on the soil boring.
- Submitted soil samples to an independent analytical laboratory for chemical analysis.
- Prepared this report summarizing the activities and results of this work.

Per the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, sample analyses included volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc (10 Michigan metals); chloride; herbicides; and pesticides. Soil sample analytical results were compared to the current generic residential cleanup criteria (GRCC) promulgated under Part 201 of the *Natural Resources and Environmental Protection Act* (NREPA), 1994 P.A. 451, as amended (Part 201).

3.0 SITE ASSESSMENT METHODOLOGY

The following subsections describe the methodologies employed by MSG at the Site during sampling activities that were conducted on August 11, 2025 and October 10, 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 14005 SB01, 14005 SB02, and 14005 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 10, 2025, MSG mobilized to the Site to collect an additional soil sample based on request from the COD. Sample location and analyte(s) were based on the laboratory results of the initial soil investigation. MSG personnel advanced one soil boring in the immediate vicinity of the soil boring location that exhibited the highest laboratory result(s) in excess of Part 201 GRCC. Soils were continuously profiled from the ground surface to the termination depth of six feet bgs using a direct push drill rig. These soils were homogenized in a stainless-steel bowl (or equivalent) to produce a single, composite soil sample. The composite soil sample was placed into unpreserved laboratory-supplied sample containers, as appropriate for the associated laboratory analyses.

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

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 14005 SB01 (1-2), 14005 SB02 (5-6), and 14005 SB03 (3-4), and one (1) composite soil sample designated 14005 Tacoma SB02 TCLP were collected as part of this investigation. These soil samples were submitted to ALS Environmental Laboratory (ALS) in Holland, Michigan for laboratory analysis of the following parameters per the requested parameters as described in the COD's *Sampling and Analysis of Fill Materials Scope of Services*, dated June 17, 2025, and individual TCLP analysis:

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

3.6 Quality Assurance/Quality Control

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

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

4.0 SUMMARY OF RESULTS

The following subsections include a discussion of the soil samples that were collected from the Site on August 11, 2025 and October 10, 2025.

4.1 Site Geology and Hydrogeology

The stratigraphy encountered during soil boring advancement of 14005 SB01, 14005 SB02, and 14005 SB03 generally consisted of brown and gray sand clay to six feet below ground surface (bgs), the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, brick debris were observed in 14005 SB02 and 14005 SB03.

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 14005 SB01 (1-2'), 14005 SB02 (5-6'), and 14005 SB03 (3-4'), 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	14005 SB02 (5-6')	DWPC ² / 4,600 GSIPC ³ / 4,600 DCC ⁴ / 7,600	14,200
Chromium (Total)	7440-47-3	14005 SB02 (5-6')	GSIPC / 3,300	21,300

¹µg/kg – micrograms per kilogram;

²DWPC – Drinking Water Protection Criteria

³GSIPC – Groundwater Surface Water Interface Protection Criteria

⁴DCC – Direct Contact Criteria

To support waste characterization and potential disposal decisions, the laboratory was requested to include the method detection limits in an amended laboratory analytical data report. A copy of the amended laboratory analytical data report is included in *Appendix F, Amended Laboratory Analytical Data Report*.

4.3 TCLP Analytical Results

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

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

4.4 Exposure Evaluation

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

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

5.0 FINDINGS

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

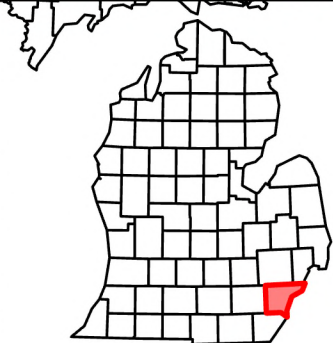
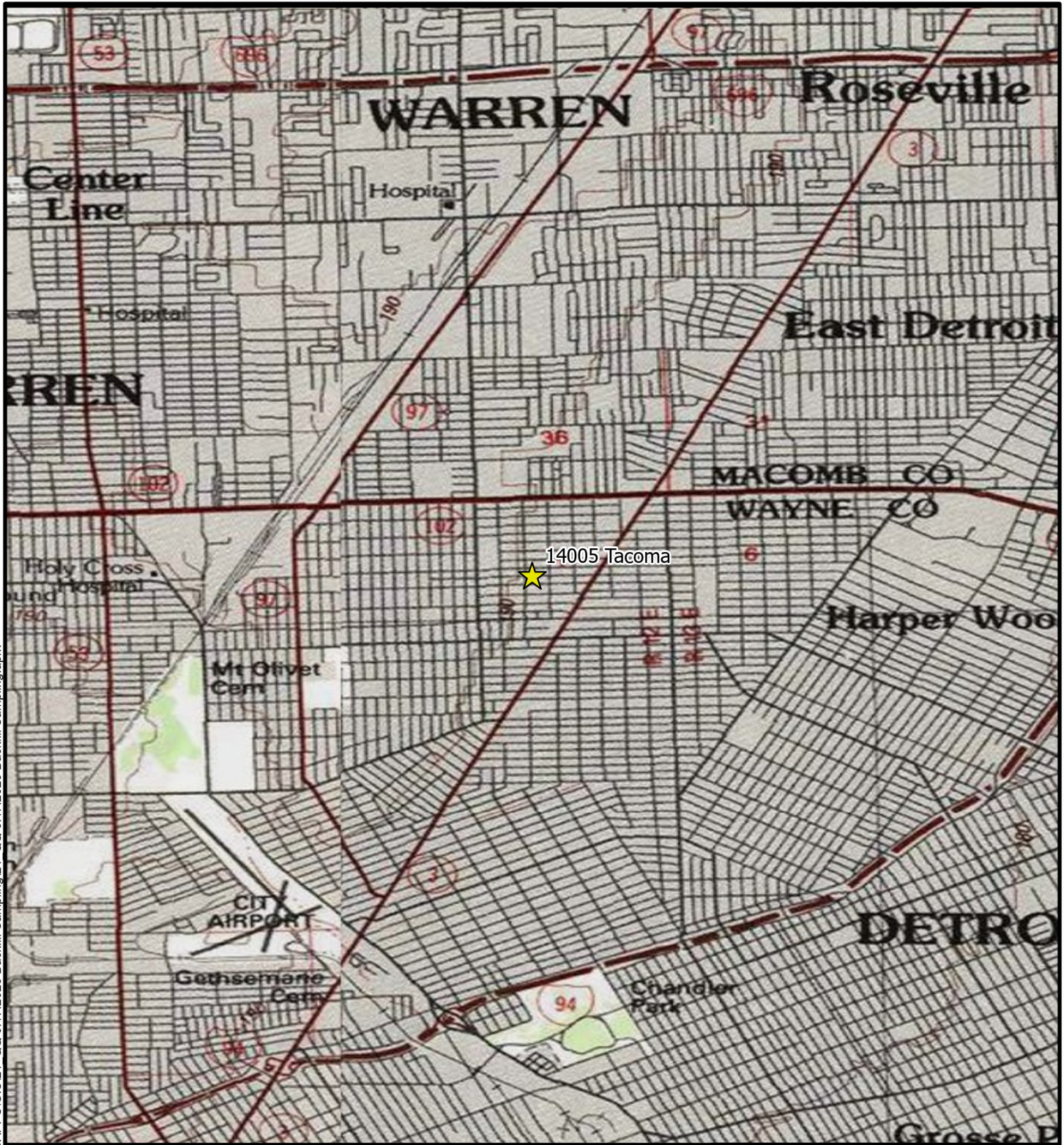
- The stratigraphy encountered during soil boring advancement of 14005 SB01, 14005 SB02, and 14005 SB03 generally consisted of brown and gray sand clay to six feet bgs, the maximum depth explored for this investigation. Field PID readings of the recovered soil cores ranged from 0.0 to 0.2 ppm. There were no visual (staining) and/or olfactory (e.g., petroleum-like odors) indications of contamination observed during soil sampling activities, however, brick debris were observed in 14005 SB02 and 14005 SB03.
- Concentrations of arsenic and chromium (Total) were detected in soil sample 14005 SB02 (5-6') in excess of their respective Part 201 DWPC, GSIPC, and/or DCC.
- Concentrations of 4,4-DDE barium, chloride, copper, lead, mercury, methylcyclohexane, and zinc were detected in soil samples 14005 SB01 (1-2'), 14005 SB02 (5-6'), and/or 14005 SB03 (3-4') 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 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. Given that the site is residential, exceedances of DCC may merit further consideration.

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

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

FIGURES





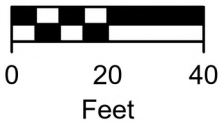
★ Site Location



FIGURE 1
SITE LOCATION

14005 Tacoma, Detroit, MI

DATE 9/23/2025	DRAWN BY JWW	DESIGNED BY JWW	PROJECT NO. DETR0060
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- Sample Locations
- - - Parcels (Current)
- - - Subject Property

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



FIGURE 2
Site Layout

14005 Tacoma, Detroit, MI

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



Table 1
Soil Sample Analytical Detection Summary

Detroit Backfill Sampling
14005 Tacoma, Detroit, Michigan

SOIL: Part 201/213 Generic Residential Cleanup Criteria Revised October 12, 2023 Units: µg/kg			Volatile Organic Compounds (VOCs)	Semivolatile Organic Compounds (SVOCs)	Michigan 10 Metals										Pesticides/Herbicides	Polychlorinated Biphenyls (PCBs)	Inorganic Anions/Ions
			Methylcyclohexane		Arsenic	Barium (B)	Cadmium (B)	Chromium (Total)	Copper (B)	Lead (B)	Mercury (B,Z)	Selenium (B)	Silver (B)	Zinc (B)	4,4'-DDE		Chloride
CAS Number			108-87-2		7440-38-2	7440-39-3	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7782-49-2	7440-22-4	7440-66-6	72-55-9		16887006
Statewide Default Background Levels			NA		5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000	NA		NA
Drinking Water Protection Criteria (DWPC)			NA		4,600	1.3E+06	6,000	30,000	5.8E+06	7.0E+05	1,700	4,000	4,500	2.4E+06	NLL		5.00E+06
Groundwater Surface Water Interface Protection Criteria (GSIPC)			NA		4,600	(G)	(G,X)	3,300	(G)	(G,X)	50 (M); 1.2	400	100 (M); 27	(G)	NLL		(X)
Soil Volatilization to Indoor Air Inhalation (SVIIC)			NA		NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV	NLV		NLV
Soil Volatilization to Indoor Air Pathway (SVIAP)			-		NA	NA	NA	--	NA	NA	22 (M)	NA	NA	NA	NLV		--
Infinite Source Volatile Soil Inhalation Criteria (VSIC)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV		NLV
Finite Source Volatile Soil Inhalation Criteria (5 m) (VSIC 5m)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV		NLV
Finite Source Volatile Soil Inhalation Criteria (2 m) (VSIC 2m)			NA		NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV	NLV		NLV
Particulate Soil Inhalation Criteria (PSIC)			NA		7.2E+05	3.3E+08	1.7E+06	2.6E+05	1.3E+08	1.0E+08	2.0E+07	1.3E+08	6.7E+06	ID	3.2E+07		ID
Direct Contact Criteria (DCC)			NA		7,600	3.7E+07	5.5E+05	2.5E+06	2.0E+07	4.0E+05	1.6E+05	2.6E+06	2.5E+06	1.7E+08	95,000		5.0E+5 (F)
Soil Saturation Concentration Screening Levels (C _{sat})			NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
Recommended Interim Action Screening Level (RIASL)			NA		NA	NA	NA	NA	NA	NA	2.7E-02	NA	NA	NA	NA		--
SAMPLE ID	DEPTH	SAMPLE DATE															
14005 SB01	1-2	8/11/2025	40.5	ND	5,260	61,100	<1,230	14,700	16,300	22,200	49.7	<3,080	<3,080	63,100	<1.9	ND	<11,500
14005 SB02	5-6	8/11/2025	<43.8	ND	14,200	54,200	<1,270	21,300	21,100	10,600	26.4	<3,170	<3,170	71,000	<6.1	ND	<12,100
14005 SB03	3-4	8/11/2025	<40.5	ND	5,380	47,300	<1,300	14,800	11,900	9,170	30.3	<3,250	<3,250	56,300	14	ND	19,000

Notes:
Bold indicates concentration above laboratory reporting limits.
Exceeds DWPC
Exceeds GSIPC
Exceeds Applicable Soil Vapor Inhalation screening level
Exceeds Two or More DWPC, GSIPC, and/or Applicable Soil Vapor Inhalation screening levels
Exceeds PSIC, DCC, and/or C_{sat}, likely exceeds others
ND = Not Detected above laboratory reporting limits
NS = Not Sampled or Not Analyzed
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
14005 Tacoma, Detroit, Michigan

40 C.F.R. § 261.24 Code of Federal Regulations Title 40 - Protection of Environment Chapter I - Environmental Protection Agency Subchapter I - Solid Wastes Part 261- Identification and Listing of Hazardous Waste Subpart C - Characteristics of Hazardous Waste <i>Units: mg/L</i>		TCLP Metals	
		Arsenic	Chromium
Maximum Concentration of Contaminants for the Toxicity Characteristic		5.00	5.00
SAMPLE ID	SAMPLE DATE		
14005 Tacoma SB02 TCLP	10/10/2025	<0.00190	<0.00610

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

APPENDIX A

LIMITATIONS



LIMITATIONS

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

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

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

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

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

APPENDIX B

DAILY FIELD REPORTS



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

Date: 08/11/2025	Day: Monday	Temp: 80° F	(AM)	N/A	(PM)
MSG Personnel: SRK, BJ, BM		Cloud Cover: 0%	(AM)	N/A	(PM)
		Precip.: N/A	(AM)	N/A	(PM)
Personnel: MSG					
MSG Hours On-Site: ~ 1 hours					
Contractors Information					
Contractor: MSG		No. Men and Type: 3; Operator/Helper/Geologist		Equipment Type: Geoprobe 7822DT	
Summary of Work Performed:					
- Advanced three (3) onsite soil borings to a maximum depth of 6 feet below ground surface (bgs) - Collected soil samples from each soil boring (from the interval with the greatest potential to be impacted based on field indicators).					
Field Notes:					
0935 – SRK, BJ, and BM onsite (14005 Tacoma Street) 0938 – Unloaded equipment and marked boring locations 0944 – Began drilling SB01 0946 – Finished drilling SB01 0948 – Began drilling SB02 0950 – Finished drilling SB02 0950 – Sampled 14005 SB01 (1-2') 0952 – Began drilling SB03 0954 – Finished drilling SB03 0955 – Sampled 14005 SB02 (5-6') 1000 – Sampled 14005 SB03 (3-4') 1005 – Packed up equipment 1010 – MSG off site					

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



DAILY FIELD REPORT

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

Report No.: 2
Job No.: DETR0060

Date: <u>10/10/2025</u>	Day: <u>Friday</u>	Temp: <u>40 ° F</u> (AM) <u>N/A</u> (PM)
MSG Personnel: <u>SRK, JF</u>	Cloud Cover: <u>0%</u> (AM) <u>N/A</u> (PM)	Precip.: <u>N/A</u> (AM) <u>N/A</u> (PM)
Personnel: <u>MSG</u>		
MSG Hours On-Site: <u>~ 1 hours</u>		

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

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

Field Notes:
0800 – SRK onsite (14005 Tacoma) 0802 – Attempted to locate previous boring locations. Marked out new boring location. 0810 – Prepared equipment. 0840 – Collected GPS points of previous borings 0840 – JF onsite 0850 – Safety meeting. Unloaded equipment. 0900 – Began drilling SB02 TCLP 0902 – Finished drilling SB02 TCLP 0907 – Sampled 14005 Tacoma SB02 TCLP 0912 – Collected GPS point of new boring 0915 – MSG off site

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

APPENDIX C

INVESTIGATION PHOTOGRAPHS





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

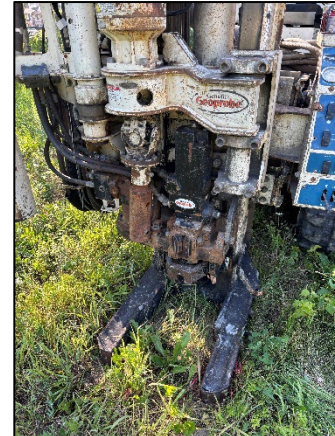


Photo 2: Viewing 14005 SB01 Drilling, Facing Northwest.



Photo 3: Viewing 14005 SB01 Soils, Facing North.



Photo 4: Viewing 14005 SB02 Drilling, Facing West.



Photo 5: Viewing 14005 SB02 Soils, Facing North.



Photo 6: Viewing 14005 SB03 Drilling, Facing West.



Photo 7: Viewing 14005 SB03 Soils, Facing North.



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



Photo 9: View of TCLP soil boring location

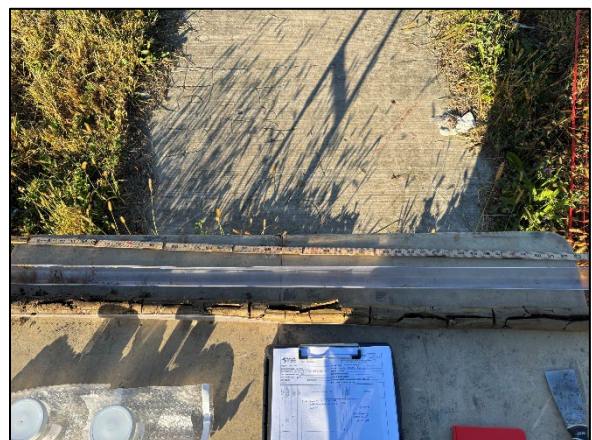


Photo 10: View of soil recovery at the time of TCLP sampling

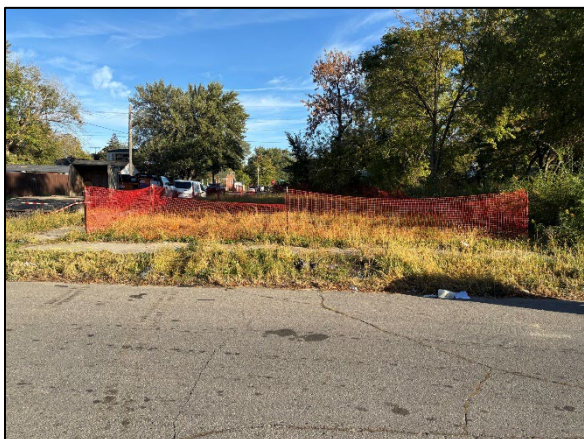


Photo 11: View of Site at the time of TCLP soil boring activities

APPENDIX D

SOIL BORING LOGS





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

BORING ID: SB01

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	14005 Tacoma
PROJECT NUMBER	DETR0060	PROJECT LOCATION	14005 Tacoma St, Detroit, Michigan
DATE STARTED	8/11/25	COMPLETED	8/11/25
DRILLING CONTRACTOR	MSG	BORING DIAMETER:	3.25 inches
DRILLING METHOD	Direct Push	SURVEY COORDINATES:	N/A
LOGGED BY	SRK	CHECKED BY	PDH
NOTES	GROUND WATER ENCOUNTERED DURING DRILLING: Not Encountered		
		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 14:59 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25 2025 BACKFILL SAMPLING (48 SITES)\14005 TACOMA\BORING LOGS\DETR0060_14005.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
5	MC 1	4.8		6.0	Brown and Gray Sandy CLAY, some gravel	0.0 0.0 0.0 0.0 0.0 0.0		Collected soil sample 14005 SB01 (1-2) at 9:50
					Bottom of borehole at 6.0 feet.			



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

BORING ID: SB02

PAGE 1 OF 1

CLIENT <u>City of Detroit</u>	PROJECT NAME <u>14005 Tacoma</u>
PROJECT NUMBER <u>DETR0060</u>	PROJECT LOCATION <u>14005 Tacoma St, Detroit, Michigan</u>
DATE STARTED <u>8/11/25</u> COMPLETED <u>8/11/25</u>	BORING DIAMETER: <u>3.25 inches</u>
DRILLING CONTRACTOR <u>MSG</u>	SURVEY COORDINATES: <u>N/A</u>
DRILLING METHOD <u>Direct Push</u>	GROUND SURFACE ELEV.: <u>N/A</u>
LOGGED BY <u>SRK</u> CHECKED BY <u>PDH</u>	GROUND WATER ENCOUNTERED DURING DRILLING: <u>Not Encountered</u>
NOTES	WATER LEVEL AFTER DRILLING: <u>N/A</u>

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 14:59 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\14005 TACOMA\BORING LOGS\DETR0060_14005.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
					Brown and Gray Sandy CLAY, some gravel	0.0		
						0.0		
						0.0		
					Some brick debris at 3.5 feet bgs	0.0		
5						0.2		
	MC 1	5.0						
				6.0				
					Bottom of borehole at 6.0 feet.	0.0		
								Collected soil sample 14005 SB02 (5-6) at 9:55



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

BORING ID: SB03

PAGE 1 OF 1

CLIENT	City of Detroit	PROJECT NAME	14005 Tacoma
PROJECT NUMBER	DETR0060	PROJECT LOCATION	14005 Tacoma St, Detroit, Michigan
DATE STARTED	8/11/25	COMPLETED	8/11/25
BORING DIAMETER:	3.25 inches		
DRILLING CONTRACTOR	MSG		
SURVEY COORDINATES:	N/A		
DRILLING METHOD	Direct Push		
GROUND SURFACE ELEV.:	N/A		
LOGGED BY	SRK	CHECKED BY	PDH
		GROUND WATER ENCOUNTERED DURING DRILLING:	Not Encountered
NOTES		WATER LEVEL AFTER DRILLING: N/A	

ENV BORING LOG (PID) - GINT STD US LAB.GDT - 8/20/25 14:59 - W:\PROJECTS\PROJECTS A-EDETR0060\ADMIN\23_QQ 7.25.2025 BACKFILL SAMPLING (48 SITES)\14005 TACOMA\BORING LOGS\DETR0060_14005.GPJ

DEPTH (FEET)	SAMPLE TYPE NUMBER	RECOVERY (FEET)	GRAPHIC LOG	DEPTH (FEET)	MATERIAL DESCRIPTION	PID (ppm)	LABORATORY SAMPLE	REMARKS
0								
0					Brown and Gray Sandy CLAY, some gravel	0.0		
						0.0		
						0.0		
	MC 1	3.0				0.0		
					Some brick debris at 3.75 feet bgs	0.0		Collected soil sample 14005 SB03 (3-4) at 10:00
5						0.0		
						0.0		
				6.0		0.0		
					Bottom of borehole at 6.0 feet.			

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS





right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order

HN2511264

Client

The Mannik & Smith Group, Inc.

Project

14005_Tacoma

Project Date

August 12, 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: **HN2511264**

Re: **14005_Tacoma**

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

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

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

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

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



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264
Date Received: 12-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 12-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organics

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

Run ID: 3410072

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

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

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

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

Run ID: 3403304

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

Metals

EPA 6020B-3050B-S



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264
Date Received: 12-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.

Run ID: 3410824

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Pb Batch 2165850

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Fe, Zn Batch 2165850

The Continuing Calibration Verification did not meet acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Ag batch 2165859

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Pb Batch 2165850

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Pb Batch 2165850

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Ba, Fe, Zn Batch 2165850

HN2511264-001: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se

HN2511264-002: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511264-002: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511264-002: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511264-003: Cadmium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511264-003: Selenium - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

HN2511264-003: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Cd, Se, Ag

Run ID: 3413394

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Mg, Si Batch 2165868

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Mg, Ag Batch 2165868

The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Si Batch 2165859

The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Se, Ag Batch 2165868

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: As, Cr, Ni, Zn Batch 2165868

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mg Batch 2165859

The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Na Batch 2165868

The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Se Batch 2165868

The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: As, Cr, Ni, Zn Batch 2165868

The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): Se, Si Batch 2165868

The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mg Batch 2165859

The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Si Batch 2165859

HN2511264-001: Silver - The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Ag

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

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

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: 14005 SB01 (1-2)	Lab ID: HN2511264-001
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.26		3.08	mg/kg	EPA 6020B
Barium	61.1		3.08	mg/kg	EPA 6020B
Chromium	14.7		3.08	mg/kg	EPA 6020B
Copper	16.3		3.08	mg/kg	EPA 6020B
Lead	22.2	S	3.08	mg/kg	EPA 6020B
Mercury	0.0497		0.0200	mg/kg	EPA 7471B
Methylcyclohexane	40.5		40.5	µg/kg	EPA 8260D
Percent Moisture	13.2		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	63.1		6.16	mg/kg	EPA 6020B

CLIENT ID: 14005 SB02 (5-6)	Lab ID: HN2511264-002
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	14.2		3.17	mg/kg	EPA 6020B
Barium	54.2		3.17	mg/kg	EPA 6020B
Chromium	21.3		3.17	mg/kg	EPA 6020B
Copper	21.1		3.17	mg/kg	EPA 6020B
Lead	10.6		3.17	mg/kg	EPA 6020B
Mercury	0.0264		0.0200	mg/kg	EPA 7471B
Percent Moisture	17.5		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	71.0		6.34	mg/kg	EPA 6020B

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.38		3.25	mg/kg	EPA 6020B
Barium	47.3		3.25	mg/kg	EPA 6020B
Chloride	19.0		11.6	mg/kg	EPA 9056A
Chromium	14.8		3.25	mg/kg	EPA 6020B
Copper	11.9		3.25	mg/kg	EPA 6020B
Lead	9.17		3.25	mg/kg	EPA 6020B
Mercury	0.0303		0.0202	mg/kg	EPA 7471B
Percent Moisture	13.1		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B

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: 14005 SB03 (3-4)

Lab ID: HN2511264-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Zinc	56.3		6.50	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Workorder: HN2511264

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511264-001	14005 SB01 (1-2)	SOIL/SOLID	08/11/25 09:50	08/12/25 09:30
HN2511264-002	14005 SB02 (5-6)	SOIL/SOLID	08/11/25 09:55	08/12/25 09:30
HN2511264-003	14005 SB03 (3-4)	SOIL/SOLID	08/11/25 10:00	08/12/25 09:30



ALS Environmental

Laboratory location:

Chain of Custody Form

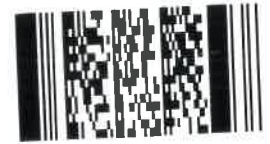
Page 1 of 1

Customer Information			Project Information				Parameter/Method Request for Analysis								
Purchase Order		Project Name	14005_Tacoma				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		Billed To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)						
Send Report To	Ryan Montri		Invoice Attn					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)						
Address	2365 Haggerty Rd South Suite 100		Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)						
City/State/Zip	Canton, MI 48188		City/State/Zip	Canton, MI 48188				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))						
Phone	734-397-3100		Phone	734-397-3100				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))						
Fax			Fax					H							
e-Mail Address	RMontri@mannaiksmithgroup.com		e-Mail Address					I							
								J							

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G
1	14005 SB01 (1-2)	8/11/25	9:58	Soil	7	3	X	X	X	X	X	X	X
2	14005 SB02 (3-6)	8/11/25	9:55	Soil	7	3	X	X	X	X	X	X	X
3	14005 SB03 (3-4)	8/11/25	10:00	Soil	7	3	X	X	X	X	X	X	X
4													
5													
6													
7													
8													
9													
10													

Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by: <i>Shannon Kaczmarek</i>		Date: 8/11/25	Time: 17:46	Received by: <i>Colin</i>		Notes:		Quote# HN-061825-M&S-MA	
Relinquished by: <i>[Signature]</i>		Date: 8/11/25	Time: 17:09	Received by (Laboratory): <i>[Signature]</i>		Cooler Temp.		QC Package: (Check Box Below)	
Logged by (Laboratory): <i>BC</i>		Date: 8/12/25	Time: 12:15	Checked by (Laboratory):		4.0°C		Level II: Standard QC	
						IR6		Level III: Std QC + Raw Data	
								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

Environmental Division
Holland
Work Order Reference
HN2511264

Telephone : +1 616 399 6070

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

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

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/12/25 0830

Carrier Name:

FedEx

Shipping container/cooler in good condition?

Yes / No / Not Present

Custody seals intact on shipping container/cooler?

Yes / No / Not Present

Custody seals intact on sample bottles?

Yes / No / Not Present

Chain of Custody present?

Yes / No

COC signed when relinquished and received?

Yes / No

COC agrees with sample labels?

Yes / No

Samples in proper container/bottle?

Yes / No

Sample containers intact?

Yes / No

Sufficient sample volume for indicated test?

Yes / No

All samples received within holding time?

Yes / No

Container/Temp Blank temperature in compliance?

Yes / No

Temperature(s) (°C):

4.0°C

Thermometer(s):

IR6

Sample(s) received on ice?

Yes / No

Matrix/Matrices:

BC soil BC soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/14/25 12:30

Water – VOA vials have zero headspace?

Yes / No / No Vials

Water – pH acceptable upon receipt?

Yes / No / N/A

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

pH adjusted (note adjustments below)?

Yes / No / N/A

pH adjusted by:

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264

Sample Name: 14005 SB01 (1-2)
Laboratory Code: HN2511264-001
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	001-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	001-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		001-AD			3475773	Bill Carey
EPA 8082A		001-AD			3475773	Bill Carey
EPA 8151A		001-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		001-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2163330	Quoc Nguyen	3405747	Bill Carey

Sample Name: 14005 SB02 (5-6)
Laboratory Code: HN2511264-002
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	002-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	002-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		002-AD			3475773	Bill Carey
EPA 8082A		002-AD			3475773	Bill Carey
EPA 8151A		002-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		002-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2163330	Quoc Nguyen	3405747	Bill Carey

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264

Sample Name: 14005 SB03 (3-4)
Laboratory Code: HN2511264-003
Sample Matrix: SOIL/SOLID

Date Collected: 08/11/25
Date Received: 08/12/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	003-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	003-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		003-AD			3475773	Bill Carey
EPA 8082A		003-AD			3475773	Bill Carey
EPA 8151A		003-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		003-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Bill Carey

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2) **Lab ID: HN2511264-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.2		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.5	1	08/15/25 22:45	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.26		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Barium	EPA 6020B	61.1		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.23	10	08/18/25 21:28	08/18/25 10:23
Chromium	EPA 6020B	14.7		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Copper	EPA 6020B	16.3		mg/kg	3.08	10	08/19/25 17:44	08/18/25 10:23
Lead	EPA 6020B	22.2	S	mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Silver	EPA 6020B	ND		mg/kg	3.08	10	08/19/25 17:44	08/18/25 10:23
Zinc	EPA 6020B	63.1		mg/kg	6.16	10	08/18/25 21:28	08/18/25 10:23
Mercury	EPA 7471B	0.0497		mg/kg	0.0200	1	08/18/25 09:48	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2) **Lab ID: HN2511264-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	270	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2) **Lab ID: HN2511264-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	40.5		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	94.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	100		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	78.0	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	99.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6)	Lab ID: HN2511264-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.5		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	12.1	1	08/15/25 22:55	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	14.2		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Barium	EPA 6020B	54.2		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.27	10	08/18/25 21:38	08/18/25 10:23
Chromium	EPA 6020B	21.3		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Copper	EPA 6020B	21.1		mg/kg	3.17	10	08/19/25 17:56	08/18/25 10:23
Lead	EPA 6020B	10.6		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Silver	EPA 6020B	ND	V	mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Zinc	EPA 6020B	71.0		mg/kg	6.34	10	08/18/25 21:38	08/18/25 10:23
Mercury	EPA 7471B	0.0264		mg/kg	0.0200	1	08/18/25 09:55	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6) **Lab ID: HN2511264-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	292	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6) **Lab ID: HN2511264-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	365	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	365	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	131	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	94.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	96.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	79.6	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.1		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	19.0		mg/kg	11.6	1	08/15/25 23:05	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.38		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Barium	EPA 6020B	47.3		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.30	10	08/18/25 21:39	08/18/25 10:23
Chromium	EPA 6020B	14.8		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Copper	EPA 6020B	11.9		mg/kg	3.25	10	08/19/25 17:57	08/18/25 10:23
Lead	EPA 6020B	9.17		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Silver	EPA 6020B	ND	V	mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Zinc	EPA 6020B	56.3		mg/kg	6.50	10	08/18/25 21:39	08/18/25 10:23
Mercury	EPA 7471B	0.0303		mg/kg	0.0202	1	08/18/25 09:57	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	270	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Ethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
m+p-Xylene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>EPA 8260D</i>	96.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: 4-Bromofluorobenzene</i>	<i>EPA 8260D</i>	98.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Dibromofluoromethane</i>	<i>EPA 8260D</i>	79.0	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
<i>Surr: Toluene-d8</i>	<i>EPA 8260D</i>	97.6		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29



September 08, 2025

Service Request No:R2510218

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

Laboratory Results for: 14005_Tacoma

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 **R2510218**.

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: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
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, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

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

Semivolatile GC:

Method 8081B, 08/28/2025: 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, 08/26/2025: 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.

The RPD between the LCS and the LCSD was greater than the RPD limit. The percent recovery limit was met for both the LCS and the LCSD.

General Chemistry:

No significant anomalies were noted with this analysis.

Total solid results provided from parent lab.

Approved by 

Date 09/08/2025



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: 14005 SB03 (3-4)				Lab ID: R2510218-003		
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	14			2.0	ug/Kg	8081B
Total Solids	86.9				Percent	ALS SOP

CLIENT ID: 14005 SB01 (1-2)				Lab ID: R2510218-001		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	86.8				Percent	ALS SOP

CLIENT ID: 14005 SB02 (5-6)				Lab ID: R2510218-002		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	82.5				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 14005_Tacoma

Service Request:R2510218

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510218-001	14005 SB01 (1-2)	8/11/2025	0950
R2510218-002	14005 SB02 (5-6)	8/11/2025	0955
R2510218-003	14005 SB03 (3-4)	8/11/2025	1000

ALS Group USA, Corp.3352 128th Ave Holland Michigan 49424 United States
T+1 616 399 6070 | Fright solutions,
right partner.**Subcontract Chain of Custody****SAMPLING STATE:****COC ID: HN2511264****Subcontract To:**Rochester - Environmental TEL: +1 585 288 5380
1565 Jefferson Road, Building 300, Suite 360 FAX:
Rochester New York 14623

Due Date: 08/21/2025

Analysis Report Format: ALS Standard – Level II

Electronic Data Deliverable:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	14005_Tacoma	A	EPA 8081B-3546-S (INT SUB)
Work Order	HN2511264			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
HN2511264-001	14005 SB01 (1-2)	Soil/Solid	08/11/2025 09:50	001-AD	x	x	x	x						
HN2511264-002	14005 SB02 (5-6)	Soil/Solid	08/11/2025 09:55	002-AD	x	x	x	x						
HN2511264-003	14005 SB03 (3-4)	Soil/Solid	08/11/2025 10:00	003-AD	x	x	x	x						

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

R2510218**5**ALS Environmental - Holland
14005_Tacoma

ALS Group USA, Corp.

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



right solutions,
right partners.

Purchase Order

PO: HN2511264

Subcontractor:

Rochester - Environmental
1565 Jefferson Road, Building 300, Suite 360
Rochester New York 14623

Phone: +1 585 288 5380

CUSTOMER INFORMATION:

Company: Holland - Environmental
Contact: Bill Carey
Address: 3352 128th Ave
Phone: +1 616 399 6070
Email: bill.carey@alsglobal.com

INVOICE INFORMATION:

Company: Holland - Environmental
Contact: Accounts Payable
Address: 3352 128th Ave
Phone: +1 616 399 6070

Sales Item	QTY	Unit Price	Total Price
EPA 8081B-3546-S (INT SUB)	-	\$-	\$-
	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00
EPA 8082A-3546-S (INT SUB)	-	\$-	\$-
	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00
EPA 8151A-S (INT SUB)	-	\$-	\$-
	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00
EPA 8270E-TCL-3546-S (INT SUB)	-	\$-	\$-
	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00	79,228,162,514,264,337,593,543,950,335.00

Comments:



R2510218

5

ALS Environmental - Holland
14006 Tacoma

Cooler Receipt and Preservation Check Form

Project/Client ALS Folder Number _____Cooler received on 8/20/25 by: RMCOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

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

Temp (°C)	<u>4.7</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> N	<u>(Y)</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: SMO by RM on 8/20 at 12:16
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 16:30 by: MLL

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 (NA)
13. Were dissolved metals filtered in the field? YES NO (NA)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (NA)

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

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062325-152

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MLL

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



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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

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REPORT QUALIFIERS AND DEFINITIONS

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 14005_Tacoma

Service Request: R2510218

Non-Certified Analytes

Certifying Agency: New York Department of Health

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: ALS Environmental - US
Project: 14005_Tacoma/

Service Request: R2510218

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 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
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	1	08/25/25 20:34	8/22/25	
1,2,4,5-Tetrachlorobenzene	380 U	380	1	08/25/25 20:34	8/22/25	
1-Methylnaphthalene	380 U	380	1	08/25/25 20:34	8/22/25	
2-Methylnaphthalene	380 U	380	1	08/25/25 20:34	8/22/25	
Acenaphthene	380 U	380	1	08/25/25 20:34	8/22/25	
Acenaphthylene	380 U	380	1	08/25/25 20:34	8/22/25	
Anthracene	380 U	380	1	08/25/25 20:34	8/22/25	
Benz(a)anthracene	380 U	380	1	08/25/25 20:34	8/22/25	
Benzo(a)pyrene	380 U	380	1	08/25/25 20:34	8/22/25	
Benzo(b)fluoranthene	380 U	380	1	08/25/25 20:34	8/22/25	
Benzo(g,h,i)perylene	380 U	380	1	08/25/25 20:34	8/22/25	
1,4-Dichlorobenzene	380 U	380	1	08/25/25 20:34	8/22/25	
Benzo(k)fluoranthene	380 U	380	1	08/25/25 20:34	8/22/25	
Biphenyl	380 U	380	1	08/25/25 20:34	8/22/25	
Chrysene	380 U	380	1	08/25/25 20:34	8/22/25	
1,4-Dioxane	77 U	77	1	08/25/25 20:34	8/22/25	
Dibenz(a,h)anthracene	380 U	380	1	08/25/25 20:34	8/22/25	
Dibenzofuran	380 U	380	1	08/25/25 20:34	8/22/25	
Fluoranthene	380 U	380	1	08/25/25 20:34	8/22/25	
Fluorene	380 U	380	1	08/25/25 20:34	8/22/25	
Indeno(1,2,3-cd)pyrene	380 U	380	1	08/25/25 20:34	8/22/25	
Naphthalene	380 U	380	1	08/25/25 20:34	8/22/25	
Phenanthrene	380 U	380	1	08/25/25 20:34	8/22/25	
Pyrene	380 U	380	1	08/25/25 20:34	8/22/25	
2,3,4,6-Tetrachlorophenol	380 U	380	1	08/25/25 20:34	8/22/25	
2,4,5-Trichlorophenol	380 U	380	1	08/25/25 20:34	8/22/25	
2,4,6-Trichlorophenol	380 U	380	1	08/25/25 20:34	8/22/25	
2,4-Dichlorophenol	380 U	380	1	08/25/25 20:34	8/22/25	
2,4-Dimethylphenol	380 U	380	1	08/25/25 20:34	8/22/25	
2,4-Dinitrophenol	1900 U	1900	1	08/25/25 20:34	8/22/25	
2,4-Dinitrotoluene	380 U	380	1	08/25/25 20:34	8/22/25	
2,6-Dinitrotoluene	380 U	380	1	08/25/25 20:34	8/22/25	
2-Chloronaphthalene	380 U	380	1	08/25/25 20:34	8/22/25	
2-Chlorophenol	380 U	380	1	08/25/25 20:34	8/22/25	
2-Methylphenol	380 U	380	1	08/25/25 20:34	8/22/25	
2-Nitroaniline	1900 U	1900	1	08/25/25 20:34	8/22/25	
2-Nitrophenol	380 U	380	1	08/25/25 20:34	8/22/25	
3,3'-Dichlorobenzidine	380 U	380	1	08/25/25 20:34	8/22/25	
3- and 4-Methylphenol Coelution	380 U	380	1	08/25/25 20:34	8/22/25	
3-Nitroaniline	1900 U	1900	1	08/25/25 20:34	8/22/25	
4,6-Dinitro-2-methylphenol	1900 U	1900	1	08/25/25 20:34	8/22/25	
4-Bromophenyl Phenyl Ether	380 U	380	1	08/25/25 20:34	8/22/25	
4-Chloro-3-methylphenol	380 U	380	1	08/25/25 20:34	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	380 U	380	1	08/25/25 20:34	8/22/25	
4-Chlorophenyl Phenyl Ether	380 U	380	1	08/25/25 20:34	8/22/25	
4-Nitroaniline	1900 U	1900	1	08/25/25 20:34	8/22/25	
4-Nitrophenol	1900 U	1900	1	08/25/25 20:34	8/22/25	
Acetophenone	380 U	380	1	08/25/25 20:34	8/22/25	
Atrazine	380 U	380	1	08/25/25 20:34	8/22/25	
Benzaldehyde	1900 U	1900	1	08/25/25 20:34	8/22/25	
Benzoic Acid	1900 U	1900	1	08/25/25 20:34	8/22/25	
Bis(1-chloroisopropyl) Ether	380 U	380	1	08/25/25 20:34	8/22/25	
Bis(2-chloroethoxy)methane	380 U	380	1	08/25/25 20:34	8/22/25	
Bis(2-chloroethyl) Ether	380 U	380	1	08/25/25 20:34	8/22/25	
Bis(2-ethylhexyl) Phthalate	570 U	570	1	08/25/25 20:34	8/22/25	
Butyl Benzyl Phthalate	380 U	380	1	08/25/25 20:34	8/22/25	
Caprolactam	380 U	380	1	08/25/25 20:34	8/22/25	
Carbazole	380 U	380	1	08/25/25 20:34	8/22/25	
Di-n-butyl Phthalate	380 U	380	1	08/25/25 20:34	8/22/25	
Di-n-octyl Phthalate	380 U	380	1	08/25/25 20:34	8/22/25	
Diethyl Phthalate	380 U	380	1	08/25/25 20:34	8/22/25	
Dimethyl Phthalate	380 U	380	1	08/25/25 20:34	8/22/25	
Hexachlorobenzene	380 U	380	1	08/25/25 20:34	8/22/25	
Hexachlorobutadiene	380 U	380	1	08/25/25 20:34	8/22/25	
Hexachlorocyclopentadiene	380 U	380	1	08/25/25 20:34	8/22/25	
Hexachloroethane	380 U	380	1	08/25/25 20:34	8/22/25	
Isophorone	380 U	380	1	08/25/25 20:34	8/22/25	
N-Nitrosodi-n-propylamine	380 U	380	1	08/25/25 20:34	8/22/25	
N-Nitrosodiphenylamine	380 U	380	1	08/25/25 20:34	8/22/25	
Nitrobenzene	380 U	380	1	08/25/25 20:34	8/22/25	
Pentachlorophenol (PCP)	1900 U	1900	1	08/25/25 20:34	8/22/25	
Phenol	380 U	380	1	08/25/25 20:34	8/22/25	
Pyridine	1900 U	1900	1	08/25/25 20:34	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	81	18 - 104	08/25/25 20:34	
Nitrobenzene-d5	75	12 - 98	08/25/25 20:34	
p-Terphenyl-d14	101	26 - 134	08/25/25 20:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	1	08/25/25 20:58	8/22/25	
1,2,4,5-Tetrachlorobenzene	1100 U	1100	1	08/25/25 20:58	8/22/25	
1-Methylnaphthalene	1100 U	1100	1	08/25/25 20:58	8/22/25	
2-Methylnaphthalene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Acenaphthene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Acenaphthylene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Anthracene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benz(a)anthracene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benzo(a)pyrene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benzo(b)fluoranthene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benzo(g,h,i)perylene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benzo(k)fluoranthene	1100 U	1100	1	08/25/25 20:58	8/22/25	
1,4-Dichlorobenzene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Biphenyl	1100 U	1100	1	08/25/25 20:58	8/22/25	
Chrysene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Dibenz(a,h)anthracene	1100 U	1100	1	08/25/25 20:58	8/22/25	
1,4-Dioxane	230 U	230	1	08/25/25 20:58	8/22/25	
Dibenzofuran	1100 U	1100	1	08/25/25 20:58	8/22/25	
Fluoranthene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Fluorene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Indeno(1,2,3-cd)pyrene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Naphthalene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Phenanthrene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Pyrene	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,3,4,6-Tetrachlorophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,4,5-Trichlorophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,4,6-Trichlorophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,4-Dichlorophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,4-Dimethylphenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,4-Dinitrophenol	5900 U	5900	1	08/25/25 20:58	8/22/25	
2,4-Dinitrotoluene	1100 U	1100	1	08/25/25 20:58	8/22/25	
2,6-Dinitrotoluene	1100 U	1100	1	08/25/25 20:58	8/22/25	
2-Chloronaphthalene	1100 U	1100	1	08/25/25 20:58	8/22/25	
2-Chlorophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2-Methylphenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
2-Nitroaniline	5900 U	5900	1	08/25/25 20:58	8/22/25	
2-Nitrophenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
3,3'-Dichlorobenzidine	1100 U	1100	1	08/25/25 20:58	8/22/25	
3- and 4-Methylphenol Coelution	1100 U	1100	1	08/25/25 20:58	8/22/25	
3-Nitroaniline	5900 U	5900	1	08/25/25 20:58	8/22/25	
4,6-Dinitro-2-methylphenol	5900 U	5900	1	08/25/25 20:58	8/22/25	
4-Bromophenyl Phenyl Ether	1100 U	1100	1	08/25/25 20:58	8/22/25	
4-Chloro-3-methylphenol	1100 U	1100	1	08/25/25 20:58	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	1100 U	1100	1	08/25/25 20:58	8/22/25	
4-Chlorophenyl Phenyl Ether	1100 U	1100	1	08/25/25 20:58	8/22/25	
4-Nitroaniline	5900 U	5900	1	08/25/25 20:58	8/22/25	
4-Nitrophenol	5900 U	5900	1	08/25/25 20:58	8/22/25	
Acetophenone	1100 U	1100	1	08/25/25 20:58	8/22/25	
Atrazine	1100 U	1100	1	08/25/25 20:58	8/22/25	
Benzaldehyde	5900 U	5900	1	08/25/25 20:58	8/22/25	
Benzoic Acid	5900 U	5900	1	08/25/25 20:58	8/22/25	
Bis(1-chloroisopropyl) Ether	1100 U	1100	1	08/25/25 20:58	8/22/25	
Bis(2-chloroethoxy)methane	1100 U	1100	1	08/25/25 20:58	8/22/25	
Bis(2-chloroethyl) Ether	1100 U	1100	1	08/25/25 20:58	8/22/25	
Bis(2-ethylhexyl) Phthalate	1700 U	1700	1	08/25/25 20:58	8/22/25	
Butyl Benzyl Phthalate	1100 U	1100	1	08/25/25 20:58	8/22/25	
Caprolactam	1100 U	1100	1	08/25/25 20:58	8/22/25	
Carbazole	1100 U	1100	1	08/25/25 20:58	8/22/25	
Di-n-butyl Phthalate	1100 U	1100	1	08/25/25 20:58	8/22/25	
Di-n-octyl Phthalate	1100 U	1100	1	08/25/25 20:58	8/22/25	
Diethyl Phthalate	1100 U	1100	1	08/25/25 20:58	8/22/25	
Dimethyl Phthalate	1100 U	1100	1	08/25/25 20:58	8/22/25	
Hexachlorobenzene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Hexachlorobutadiene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Hexachlorocyclopentadiene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Hexachloroethane	1100 U	1100	1	08/25/25 20:58	8/22/25	
Isophorone	1100 U	1100	1	08/25/25 20:58	8/22/25	
N-Nitrosodi-n-propylamine	1100 U	1100	1	08/25/25 20:58	8/22/25	
N-Nitrosodiphenylamine	1100 U	1100	1	08/25/25 20:58	8/22/25	
Nitrobenzene	1100 U	1100	1	08/25/25 20:58	8/22/25	
Pentachlorophenol (PCP)	5900 U	5900	1	08/25/25 20:58	8/22/25	
Phenol	1100 U	1100	1	08/25/25 20:58	8/22/25	
Pyridine	5900 U	5900	1	08/25/25 20:58	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	77	18 - 104	08/25/25 20:58	
Nitrobenzene-d5	72	12 - 98	08/25/25 20:58	
p-Terphenyl-d14	99	26 - 134	08/25/25 20:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	U	-	1	08/25/25 21:22	8/22/25	
1-Methylnaphthalene	380 U	380	1	08/25/25 21:22	8/22/25	
1,2,4,5-Tetrachlorobenzene	380 U	380	1	08/25/25 21:22	8/22/25	
2-Methylnaphthalene	380 U	380	1	08/25/25 21:22	8/22/25	
Acenaphthene	380 U	380	1	08/25/25 21:22	8/22/25	
Acenaphthylene	380 U	380	1	08/25/25 21:22	8/22/25	
Anthracene	380 U	380	1	08/25/25 21:22	8/22/25	
Benz(a)anthracene	380 U	380	1	08/25/25 21:22	8/22/25	
Benzo(a)pyrene	380 U	380	1	08/25/25 21:22	8/22/25	
Benzo(b)fluoranthene	380 U	380	1	08/25/25 21:22	8/22/25	
Benzo(g,h,i)perylene	380 U	380	1	08/25/25 21:22	8/22/25	
Benzo(k)fluoranthene	380 U	380	1	08/25/25 21:22	8/22/25	
1,4-Dichlorobenzene	380 U	380	1	08/25/25 21:22	8/22/25	
Biphenyl	380 U	380	1	08/25/25 21:22	8/22/25	
Chrysene	380 U	380	1	08/25/25 21:22	8/22/25	
1,4-Dioxane	77 U	77	1	08/25/25 21:22	8/22/25	
Dibenz(a,h)anthracene	380 U	380	1	08/25/25 21:22	8/22/25	
Dibenzofuran	380 U	380	1	08/25/25 21:22	8/22/25	
Fluoranthene	380 U	380	1	08/25/25 21:22	8/22/25	
Fluorene	380 U	380	1	08/25/25 21:22	8/22/25	
Indeno(1,2,3-cd)pyrene	380 U	380	1	08/25/25 21:22	8/22/25	
Naphthalene	380 U	380	1	08/25/25 21:22	8/22/25	
Phenanthrene	380 U	380	1	08/25/25 21:22	8/22/25	
Pyrene	380 U	380	1	08/25/25 21:22	8/22/25	
2,3,4,6-Tetrachlorophenol	380 U	380	1	08/25/25 21:22	8/22/25	
2,4,5-Trichlorophenol	380 U	380	1	08/25/25 21:22	8/22/25	
2,4,6-Trichlorophenol	380 U	380	1	08/25/25 21:22	8/22/25	
2,4-Dichlorophenol	380 U	380	1	08/25/25 21:22	8/22/25	
2,4-Dimethylphenol	380 U	380	1	08/25/25 21:22	8/22/25	
2,4-Dinitrophenol	1900 U	1900	1	08/25/25 21:22	8/22/25	
2,4-Dinitrotoluene	380 U	380	1	08/25/25 21:22	8/22/25	
2,6-Dinitrotoluene	380 U	380	1	08/25/25 21:22	8/22/25	
2-Chloronaphthalene	380 U	380	1	08/25/25 21:22	8/22/25	
2-Chlorophenol	380 U	380	1	08/25/25 21:22	8/22/25	
2-Methylphenol	380 U	380	1	08/25/25 21:22	8/22/25	
2-Nitroaniline	1900 U	1900	1	08/25/25 21:22	8/22/25	
2-Nitrophenol	380 U	380	1	08/25/25 21:22	8/22/25	
3,3'-Dichlorobenzidine	380 U	380	1	08/25/25 21:22	8/22/25	
3- and 4-Methylphenol Coelution	380 U	380	1	08/25/25 21:22	8/22/25	
3-Nitroaniline	1900 U	1900	1	08/25/25 21:22	8/22/25	
4,6-Dinitro-2-methylphenol	1900 U	1900	1	08/25/25 21:22	8/22/25	
4-Bromophenyl Phenyl Ether	380 U	380	1	08/25/25 21:22	8/22/25	
4-Chloro-3-methylphenol	380 U	380	1	08/25/25 21:22	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	380 U	380	1	08/25/25 21:22	8/22/25	
4-Chlorophenyl Phenyl Ether	380 U	380	1	08/25/25 21:22	8/22/25	
4-Nitroaniline	1900 U	1900	1	08/25/25 21:22	8/22/25	
4-Nitrophenol	1900 U	1900	1	08/25/25 21:22	8/22/25	
Acetophenone	380 U	380	1	08/25/25 21:22	8/22/25	
Atrazine	380 U	380	1	08/25/25 21:22	8/22/25	
Benzaldehyde	1900 U	1900	1	08/25/25 21:22	8/22/25	
Benzoic Acid	1900 U	1900	1	08/25/25 21:22	8/22/25	
Bis(1-chloroisopropyl) Ether	380 U	380	1	08/25/25 21:22	8/22/25	
Bis(2-chloroethoxy)methane	380 U	380	1	08/25/25 21:22	8/22/25	
Bis(2-chloroethyl) Ether	380 U	380	1	08/25/25 21:22	8/22/25	
Bis(2-ethylhexyl) Phthalate	570 U	570	1	08/25/25 21:22	8/22/25	
Butyl Benzyl Phthalate	380 U	380	1	08/25/25 21:22	8/22/25	
Caprolactam	380 U	380	1	08/25/25 21:22	8/22/25	
Carbazole	380 U	380	1	08/25/25 21:22	8/22/25	
Di-n-butyl Phthalate	380 U	380	1	08/25/25 21:22	8/22/25	
Di-n-octyl Phthalate	380 U	380	1	08/25/25 21:22	8/22/25	
Diethyl Phthalate	380 U	380	1	08/25/25 21:22	8/22/25	
Dimethyl Phthalate	380 U	380	1	08/25/25 21:22	8/22/25	
Hexachlorobenzene	380 U	380	1	08/25/25 21:22	8/22/25	
Hexachlorobutadiene	380 U	380	1	08/25/25 21:22	8/22/25	
Hexachlorocyclopentadiene	380 U	380	1	08/25/25 21:22	8/22/25	
Hexachloroethane	380 U	380	1	08/25/25 21:22	8/22/25	
Isophorone	380 U	380	1	08/25/25 21:22	8/22/25	
N-Nitrosodi-n-propylamine	380 U	380	1	08/25/25 21:22	8/22/25	
N-Nitrosodiphenylamine	380 U	380	1	08/25/25 21:22	8/22/25	
Nitrobenzene	380 U	380	1	08/25/25 21:22	8/22/25	
Pentachlorophenol (PCP)	1900 U	1900	1	08/25/25 21:22	8/22/25	
Phenol	380 U	380	1	08/25/25 21:22	8/22/25	
Pyridine	1900 U	1900	1	08/25/25 21:22	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	76	18 - 104	08/25/25 21:22	
Nitrobenzene-d5	70	12 - 98	08/25/25 21:22	
p-Terphenyl-d14	97	26 - 134	08/25/25 21:22	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
4,4'-DDE	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
4,4'-DDT	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Aldrin	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Chlordane	9.5 U	9.5	1	08/26/25 19:57	8/22/25	
Dieldrin	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endosulfan I	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endosulfan II	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endosulfan Sulfate	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endrin	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endrin Aldehyde	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Endrin Ketone	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Heptachlor	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Heptachlor Epoxide	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Methoxychlor	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
Toxaphene	38 U	38	1	08/26/25 19:57	8/22/25	
alpha-BHC	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
alpha-Chlordane	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
beta-BHC	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
delta-BHC	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
gamma-BHC (Lindane)	1.9 U	1.9	1	08/26/25 19:57	8/22/25	
gamma-Chlordane	1.9 U	1.9	1	08/26/25 19:57	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 159	08/26/25 19:57	
Tetrachloro-m-xylene	56	10 - 132	08/26/25 19:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
4,4'-DDE	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
4,4'-DDT	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Aldrin	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Chlordane	30 U	30	1	08/26/25 20:14	8/22/25	
Dieldrin	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endosulfan I	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endosulfan II	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endosulfan Sulfate	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endrin	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endrin Aldehyde	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Endrin Ketone	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Heptachlor	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Heptachlor Epoxide	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Methoxychlor	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
Toxaphene	120 U	120	1	08/26/25 20:14	8/22/25	
alpha-BHC	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
alpha-Chlordane	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
beta-BHC	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
delta-BHC	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
gamma-BHC (Lindane)	6.1 U	6.1	1	08/26/25 20:14	8/22/25	
gamma-Chlordane	6.1 U	6.1	1	08/26/25 20:14	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 159	08/26/25 20:14	
Tetrachloro-m-xylene	47	10 - 132	08/26/25 20:14	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
4,4'-DDE	14	2.0	1	08/28/25 22:51	8/22/25	
4,4'-DDT	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Aldrin	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Chlordane	9.5 U	9.5	1	08/28/25 22:51	8/22/25	
Dieldrin	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endosulfan I	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endosulfan II	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endosulfan Sulfate	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endrin	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endrin Aldehyde	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Endrin Ketone	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Heptachlor	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Heptachlor Epoxide	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Methoxychlor	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
Toxaphene	38 U	38	1	08/28/25 22:51	8/22/25	
alpha-BHC	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
alpha-Chlordane	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
beta-BHC	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
delta-BHC	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
gamma-BHC (Lindane)	2.0 U	2.0	1	08/28/25 22:51	8/22/25	
gamma-Chlordane	2.0 U	2.0	1	08/28/25 22:51	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	08/28/25 22:51	
Tetrachloro-m-xylene	58	10 - 132	08/28/25 22:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1221	76 U	76	1	08/26/25 21:31	8/22/25	
Aroclor 1232	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1242	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1248	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1254	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1260	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1262	38 U	38	1	08/26/25 21:31	8/22/25	
Aroclor 1268	38 U	38	1	08/26/25 21:31	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	93	10 - 138	08/26/25 21:31	
Tetrachloro-m-xylene	63	11 - 122	08/26/25 21:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1221	240 U	240	1	08/26/25 21:45	8/22/25	
Aroclor 1232	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1242	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1248	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1254	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1260	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1262	120 U	120	1	08/26/25 21:45	8/22/25	
Aroclor 1268	120 U	120	1	08/26/25 21:45	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 21:45	
Tetrachloro-m-xylene	50	11 - 122	08/26/25 21:45	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1221	77 U	77	1	08/26/25 21:58	8/22/25	
Aroclor 1232	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1242	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1248	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1254	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1260	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1262	38 U	38	1	08/26/25 21:58	8/22/25	
Aroclor 1268	38 U	38	1	08/26/25 21:58	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 21:58	
Tetrachloro-m-xylene	63	11 - 122	08/26/25 21:58	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	15 U	15	1	08/27/25 07:10	8/25/25	
2,4,5-TP	15 U	15	1	08/27/25 07:10	8/25/25	
2,4-D	15 U	15	1	08/27/25 07:10	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	10 - 151	08/27/25 07:10	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	1	08/27/25 08:05	8/25/25	
2,4,5-TP	12 U	12	1	08/27/25 08:05	8/25/25	
2,4-D	12 U	12	1	08/27/25 08:05	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	10 - 151	08/27/25 08:05	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	14 U	14	1	08/27/25 08:23	8/25/25	
2,4,5-TP	14 U	14	1	08/27/25 08:23	8/25/25	
2,4-D	14 U	14	1	08/27/25 08:23	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	31	10 - 151	08/27/25 08:23	



General Chemistry

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.8	Percent	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB02 (5-6)
Lab Code: R2510218-002

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	82.5	Percent	-	1	08/29/25 10:00	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB03 (3-4)
Lab Code: R2510218-003

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.9	Percent	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
14005 SB01 (1-2)	R2510218-001	81	75	101
14005 SB02 (5-6)	R2510218-002	77	72	99
14005 SB03 (3-4)	R2510218-003	76	70	97
Method Blank Lab	RQ2511156-01	64	58	85
Control Sample	RQ2511156-02	68	59	85
Duplicate Lab Control Sample	RQ2511156-03	73	63	91

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Methylphenols, Total	0	-	1	08/25/25 19:22	8/22/25	
1-Methylnaphthalene	330 U	330	1	08/25/25 19:22	8/22/25	
1,2,4,5-Tetrachlorobenzene	330 U	330	1	08/25/25 19:22	8/22/25	
2-Methylnaphthalene	330 U	330	1	08/25/25 19:22	8/22/25	
Acenaphthene	330 U	330	1	08/25/25 19:22	8/22/25	
Acenaphthylene	330 U	330	1	08/25/25 19:22	8/22/25	
Anthracene	330 U	330	1	08/25/25 19:22	8/22/25	
Benz(a)anthracene	330 U	330	1	08/25/25 19:22	8/22/25	
Benzo(a)pyrene	330 U	330	1	08/25/25 19:22	8/22/25	
Benzo(b)fluoranthene	330 U	330	1	08/25/25 19:22	8/22/25	
Benzo(g,h,i)perylene	330 U	330	1	08/25/25 19:22	8/22/25	
1,4-Dichlorobenzene	330 U	330	1	08/25/25 19:22	8/22/25	
Benzo(k)fluoranthene	330 U	330	1	08/25/25 19:22	8/22/25	
Biphenyl	330 U	330	1	08/25/25 19:22	8/22/25	
Chrysene	330 U	330	1	08/25/25 19:22	8/22/25	
Dibenz(a,h)anthracene	330 U	330	1	08/25/25 19:22	8/22/25	
1,4-Dioxane	66 U	66	1	08/25/25 19:22	8/22/25	
Dibenzofuran	330 U	330	1	08/25/25 19:22	8/22/25	
Fluoranthene	330 U	330	1	08/25/25 19:22	8/22/25	
Fluorene	330 U	330	1	08/25/25 19:22	8/22/25	
Indeno(1,2,3-cd)pyrene	330 U	330	1	08/25/25 19:22	8/22/25	
Naphthalene	330 U	330	1	08/25/25 19:22	8/22/25	
Phenanthrene	330 U	330	1	08/25/25 19:22	8/22/25	
Pyrene	330 U	330	1	08/25/25 19:22	8/22/25	
2,3,4,6-Tetrachlorophenol	330 U	330	1	08/25/25 19:22	8/22/25	
2,4,5-Trichlorophenol	330 U	330	1	08/25/25 19:22	8/22/25	
2,4,6-Trichlorophenol	330 U	330	1	08/25/25 19:22	8/22/25	
2,4-Dichlorophenol	330 U	330	1	08/25/25 19:22	8/22/25	
2,4-Dimethylphenol	330 U	330	1	08/25/25 19:22	8/22/25	
2,4-Dinitrophenol	1700 U	1700	1	08/25/25 19:22	8/22/25	
2,4-Dinitrotoluene	330 U	330	1	08/25/25 19:22	8/22/25	
2,6-Dinitrotoluene	330 U	330	1	08/25/25 19:22	8/22/25	
2-Chloronaphthalene	330 U	330	1	08/25/25 19:22	8/22/25	
2-Chlorophenol	330 U	330	1	08/25/25 19:22	8/22/25	
2-Methylphenol	330 U	330	1	08/25/25 19:22	8/22/25	
2-Nitroaniline	1700 U	1700	1	08/25/25 19:22	8/22/25	
2-Nitrophenol	330 U	330	1	08/25/25 19:22	8/22/25	
3,3'-Dichlorobenzidine	330 U	330	1	08/25/25 19:22	8/22/25	
3- and 4-Methylphenol Coelution	330 U	330	1	08/25/25 19:22	8/22/25	
3-Nitroaniline	1700 U	1700	1	08/25/25 19:22	8/22/25	
4,6-Dinitro-2-methylphenol	1700 U	1700	1	08/25/25 19:22	8/22/25	
4-Bromophenyl Phenyl Ether	330 U	330	1	08/25/25 19:22	8/22/25	
4-Chloro-3-methylphenol	330 U	330	1	08/25/25 19:22	8/22/25	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units:
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4-Chloroaniline	330 U	330	1	08/25/25 19:22	8/22/25	
4-Chlorophenyl Phenyl Ether	330 U	330	1	08/25/25 19:22	8/22/25	
4-Nitroaniline	1700 U	1700	1	08/25/25 19:22	8/22/25	
4-Nitrophenol	1700 U	1700	1	08/25/25 19:22	8/22/25	
Acetophenone	330 U	330	1	08/25/25 19:22	8/22/25	
Atrazine	330 U	330	1	08/25/25 19:22	8/22/25	
Benzaldehyde	1700 U	1700	1	08/25/25 19:22	8/22/25	
Benzoic Acid	1700 U	1700	1	08/25/25 19:22	8/22/25	
Bis(1-chloroisopropyl) Ether	330 U	330	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethoxy)methane	330 U	330	1	08/25/25 19:22	8/22/25	
Bis(2-chloroethyl) Ether	330 U	330	1	08/25/25 19:22	8/22/25	
Bis(2-ethylhexyl) Phthalate	500 U	500	1	08/25/25 19:22	8/22/25	
Butyl Benzyl Phthalate	330 U	330	1	08/25/25 19:22	8/22/25	
Caprolactam	330 U	330	1	08/25/25 19:22	8/22/25	
Carbazole	330 U	330	1	08/25/25 19:22	8/22/25	
Di-n-butyl Phthalate	330 U	330	1	08/25/25 19:22	8/22/25	
Di-n-octyl Phthalate	330 U	330	1	08/25/25 19:22	8/22/25	
Diethyl Phthalate	330 U	330	1	08/25/25 19:22	8/22/25	
Dimethyl Phthalate	330 U	330	1	08/25/25 19:22	8/22/25	
Hexachlorobenzene	330 U	330	1	08/25/25 19:22	8/22/25	
Hexachlorobutadiene	330 U	330	1	08/25/25 19:22	8/22/25	
Hexachlorocyclopentadiene	330 U	330	1	08/25/25 19:22	8/22/25	
Hexachloroethane	330 U	330	1	08/25/25 19:22	8/22/25	
Isophorone	330 U	330	1	08/25/25 19:22	8/22/25	
N-Nitrosodi-n-propylamine	330 U	330	1	08/25/25 19:22	8/22/25	
N-Nitrosodiphenylamine	330 U	330	1	08/25/25 19:22	8/22/25	
Nitrobenzene	330 U	330	1	08/25/25 19:22	8/22/25	
Pentachlorophenol (PCP)	1700 U	1700	1	08/25/25 19:22	8/22/25	
Phenol	330 U	330	1	08/25/25 19:22	8/22/25	
Pyridine	1700 U	1700	1	08/25/25 19:22	8/22/25	

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

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

Printed 9/8/2025 9:42:24 AM

Superset Reference:25-0000743183 rev 00

Client:
Project:
Sample Matrix:

ALS Environmental - US
14005_Tacoma
Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Lab Control Sample					Duplicate Lab Control Sample					
RQ2511156-02					RQ2511156-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pentachlorophenol (PCP)	8270E	1960	3330	59	2120	3320	64	36-138	8	30
Phenol	8270E	2180	3330	65	2320	3320	70	31-100	7	30
Pyridine	8270E	3650	6650	55	3880	6640	58	12-80	6	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

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
14005 SB01 (1-2)	R2510218-001	75	56
14005 SB02 (5-6)	R2510218-002	74	47
14005 SB03 (3-4)	R2510218-003	67	58
Method Blank Lab	RQ2511157-01	69	56
Control Sample	RQ2511157-02	89	67
Duplicate Lab Control Sample	RQ2511157-03	72	60

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
4,4'-DDE	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
4,4'-DDT	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Aldrin	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Chlordane	8.3 U	8.3	1	08/26/25 19:05	8/22/25	
Dieldrin	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endosulfan I	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endosulfan II	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endosulfan Sulfate	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endrin	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endrin Aldehyde	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Endrin Ketone	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Heptachlor	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Heptachlor Epoxide	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Methoxychlor	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
Toxaphene	33 U	33	1	08/26/25 19:05	8/22/25	
alpha-BHC	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
alpha-Chlordane	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
beta-BHC	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
delta-BHC	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
gamma-BHC (Lindane)	1.7 U	1.7	1	08/26/25 19:05	8/22/25	
gamma-Chlordane	1.7 U	1.7	1	08/26/25 19:05	8/22/25	

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

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

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
14005 SB01 (1-2)	R2510218-001	93	63
14005 SB02 (5-6)	R2510218-002	78	50
14005 SB03 (3-4)	R2510218-003	78	63
Method Blank Lab	RQ2511157-01	78	58
Control Sample	RQ2511157-04	81	68
Duplicate Lab Control Sample	RQ2511157-05	86	70

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1221	67 U	67	1	08/26/25 20:51	8/22/25	
Aroclor 1232	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1242	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1248	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1254	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1260	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1262	33 U	33	1	08/26/25 20:51	8/22/25	
Aroclor 1268	33 U	33	1	08/26/25 20:51	8/22/25	

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

Client:
Project:
Sample Matrix:

ALS Environmental - US
14005_Tacoma
Soil

Service Request: R2510218
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

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

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
14005 SB01 (1-2)	R2510218-001	56
14005 SB02 (5-6)	R2510218-002	46
14005 SB03 (3-4)	R2510218-003	31
Method Blank Lab	RQ2511241-01	54
Control Sample	RQ2511241-02	54
Duplicate Lab Control Sample	RQ2511241-03	62

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: Method Blank
Lab Code: RQ2511241-01

Service Request: R2510218
Date Collected: NA
Date Received: NA

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	1	08/27/25 01:59	8/25/25	
2,4,5-TP	10 U	10	1	08/27/25 01:59	8/25/25	
2,4-D	10 U	10	1	08/27/25 01:59	8/25/25	

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

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/27/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

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



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158508

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3397652

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158508-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158508-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

DUP	CLIENT ID: 14005 SB03 (3-4)	Lab ID: QC-2158508-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	14.4	%	0.1		13.1			9.03	10	

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2163330

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3405747

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2163330-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 21:57
Prep Date: 08/15/25 16:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2163330-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 22:06
Prep Date: 08/15/25 16:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	99.5	mg/kg	10.0	100		99.5	87-110			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162144

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3405106

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162144-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:44
Prep Date: 08/15/25 14:34

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162144-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:46
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.172	mg/kg	0.0200	0.1665		104	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2162144-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:50
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.173	mg/kg	0.0200	0.13075	0.0497	99.1	75-125			

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2162144-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:53
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.167	mg/kg	0.0200	0.12906	0.0497	96.2	75-125	3.21	35	

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410824

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2165850-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/18/25 21:24
Prep Date: 08/18/25 10:24

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2165850-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/18/25 21:26
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.77	mg/kg	0.250	5		95.3	80-120			
Barium	4.50	mg/kg	0.250	5		90.1	80-120			
Cadmium	4.82	mg/kg	0.100	5		96.4	80-120			
Chromium	4.99	mg/kg	0.250	5		99.7	80-120			
Lead	4.80	mg/kg	0.250	5		96.0	80-120			
Selenium	4.77	mg/kg	0.250	5		95.4	80-120			
Zinc	5.18	mg/kg	0.500	5		104	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/18/25 21:29
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.78	mg/kg	3.20	5.5494	5.26	94.0	75-125			
Barium	63.1	mg/kg	3.20	5	61.1	NC	75-125			O
Cadmium	5.30	mg/kg	1.28	5.5494	<1.23	91.0	75-125			
Chromium	19.4	mg/kg	3.20	5.5494	14.7	120	75-125			
Lead	29.6	mg/kg	3.20	5.5494	22.2	186	75-125			S
Selenium	5.07	mg/kg	3.20	5.5494	ND	87.8	75-125			
Zinc	62.2	mg/kg	6.39	5	63.1	NC	75-125			O

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/18/25 21:31
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.47	mg/kg	3.10	5.3821	5.26	91.0	75-125	3.31	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410824

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B

Dilution: 10

Analysis Date: 08/18/25 21:31

Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Barium	62.0	mg/kg	3.10	5	61.1	NC	75-125	1.70	20	O
Cadmium	5.20	mg/kg	1.24	5.3821	<1.23	91.9	75-125	1.96	20	
Chromium	19.4	mg/kg	3.10	5.3821	14.7	123	75-125	0.186	20	
Lead	39.8	mg/kg	3.10	5.3821	22.2	380	75-125	29.4	20	RS
Selenium	5.12	mg/kg	3.10	5.3821	ND	91.4	75-125	0.884	20	
Zinc	63.8	mg/kg	6.20	5	63.1	NC	75-125	2.49	20	O

PDS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-007
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Method: EPA 6020B

Dilution: 10

Analysis Date: 08/18/25 21:34

Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	54.7	mg/kg	3.08	53.533	5.26	93.7	75-125			
Barium	100	mg/kg	3.08	53.533	61.1	88.2	75-125			
Cadmium	50.2	mg/kg	1.23	53.533	<1.23	93.3	75-125			
Chromium	64.5	mg/kg	3.08	53.533	14.7	96.6	75-125			
Lead	71.0	mg/kg	3.08	53.533	22.2	96.5	75-125			
Selenium	49.4	mg/kg	3.08	53.533	ND	92.0	75-125			
Zinc	108	mg/kg	6.16	53.533	63.1	98.6	75-125			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3413394

Metals

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2165850-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/19/25 17:42
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	4.99	mg/kg	0.250	5		99.8	80-120			
Silver	4.84	mg/kg	0.250	5		96.9	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:49
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	19.7	mg/kg	3.20	5.5494	16.3	101	75-125			
Silver	5.16	mg/kg	3.20	5.5494	ND	92.3	75-125			

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:51
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	20.5	mg/kg	3.10	5.3821	16.3	118	75-125	3.89	20	
Silver	5.06	mg/kg	3.10	5.3821	ND	93.3	75-125	1.95	20	

PDS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:54
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	66.1	mg/kg	3.08	53.533	16.3	97.2	75-125			
Silver	48.3	mg/kg	3.08	53.533	ND	90.2	75-125			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	988	µg/kg		1000		98.8	80-120			
Surr: 4-Bromofluorobenzene	973	µg/kg		1000		97.3	80-120			
Surr: Dibromofluoromethane	914	µg/kg		1000		91.4	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	869	µg/kg	30.0	1000		86.9	75-121			
1,1,2,2-Tetrachloroethane	932	µg/kg	30.0	1000		93.2	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	866	µg/kg	30.0	1000		86.6	62-129			
1,1,2-Trichloroethane	944	µg/kg	30.0	1000		94.4	80-123			
1,1-Dichloroethane	942	µg/kg	30.0	1000		94.2	74-124			
1,1-Dichloroethylene	862	µg/kg	30.0	1000		86.2	68-131			
1,2,3-Trichlorobenzene	846	µg/kg	100	1000		84.6	60-135			
1,2,3-Trichloropropane	852	µg/kg	30.0	1000		85.2	77-121			
1,2,4-Trichlorobenzene	816	µg/kg	100	1000		81.6	63-130			
1,2,4-Trimethylbenzene	855	µg/kg	30.0	1000		85.5	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	885	µg/kg	100	1000		88.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	800	µg/kg	30.0	1000		80.0	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	853	µg/kg	30.0	1000		85.3	77-122			
1,2-Dichloroethane (Ethylene dichloride)	890	µg/kg	100	1000		89.0	70-130			
1,2-Dichloropropane	888	µg/kg	30.0	1000		88.8	71-130			
1,3,5-Trimethylbenzene	843	µg/kg	100	1000		84.3	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	842	µg/kg	30.0	1000		84.2	78-121			
1,3-Dichloropropene	1740	µg/kg	60.0	2000		87.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	854	µg/kg	30.0	1000		85.4	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	966	µg/kg	200	1000		96.6	47-164			
2-Hexanone	970	µg/kg	30.0	1000		97.0	70-137			
4-Methyl-2-pentanone (MIBK)	1530	µg/kg	30.0	1000		153	57-200			
Acetone	1160	µg/kg	100	1000		116	52-190			
Benzene	946	µg/kg	30.0	1000		94.6	78-122			
Bromochloromethane	900	µg/kg	30.0	1000		90.0	68-130			
Bromodichloromethane	996	µg/kg	30.0	1000		99.6	75-125			
Bromoform	806	µg/kg	30.0	1000		80.6	59-120			
Carbon disulfide	1120	µg/kg	30.0	1000		112	60-163			
Carbon tetrachloride	906	µg/kg	30.0	1000		90.6	69-123			
Chlorobenzene	853	µg/kg	30.0	1000		85.3	79-120			
Chlorodibromomethane	796	µg/kg	30.0	1000		79.6	57-123			
Chloroethane (Ethyl chloride)	1030	µg/kg	100	1000		103	38-132			
Chloroform	878	µg/kg	30.0	1000		87.8	72-122			
cis & trans-1,2-Dichloroethene	1800	µg/kg	60.0	2000		90.0	72-127			
cis-1,2-Dichloroethylene	907	µg/kg	30.0	1000		90.7	74-125			
cis-1,3-Dichloropropene	970	µg/kg	30.0	1000		97.0	62-124			
Dichlorodifluoromethane (Freon-12)	1040	µg/kg	100	1000		104	28-137			
Ethylbenzene	863	µg/kg	30.0	1000		86.3	75-121			
Isopropylbenzene	856	µg/kg	30.0	1000		85.6	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		88.8	67-129			
Methyl acetate	582	µg/kg	250	1000		58.2	61-125			
Methyl bromide (Bromomethane)	1040	µg/kg	100	1000		104	31-169			
Methyl chloride (Chloromethane)	979	µg/kg	100	1000		97.9	24-119			
Methyl tert-butyl ether (MTBE)	983	µg/kg	30.0	1000		98.3	79-139			
Methylene chloride (Dichloromethane)	876	µg/kg	250	1000		87.6	62-135			
o-Xylene	888	µg/kg	30.0	1000		88.8	75-120			
Styrene	868	µg/kg	30.0	1000		86.8	74-126			
Tetrachloroethylene (Perchloroethylene)	899	µg/kg	30.0	1000		89.9	76-128			
Toluene	924	µg/kg	30.0	1000		92.4	76-120			
Total Xylene	2660	µg/kg	90.0	3000		88.8	67-129			
trans-1,2-Dichloroethylene	894	µg/kg	30.0	1000		89.4	72-127			
trans-1,3-Dichloropropylene	770	µg/kg	30.0	1000		77.0	66-120			
Trichloroethene (Trichloroethylene)	888	µg/kg	30.0	1000		88.8	75-122			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	818	µg/kg	30.0	1000		81.8	51-115			
Vinyl chloride (Chloroethene)	1090	µg/kg	30.0	1000		109	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	1000	<i>µg/kg</i>		1000		100	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	957	<i>µg/kg</i>		1000		95.7	80-120			
<i>Surr: Dibromofluoromethane</i>	1040	<i>µg/kg</i>		1000		104	80-120			
<i>Surr: Toluene-d8</i>	955	<i>µg/kg</i>		1000		95.5	80-120			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

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

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	973	µg/kg		1000		97.3	80-120			
Surr: 4-Bromofluorobenzene	984	µg/kg		1000		98.4	80-120			
Surr: Dibromofluoromethane	946	µg/kg		1000		94.6	72-120			
Surr: Toluene-d8	986	µg/kg		1000		98.6	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D **Dilution:** 1 **Analysis Date:** 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	906	µg/kg	30.0	1000		90.6	75-121			
1,1,2,2-Tetrachloroethane	926	µg/kg	30.0	1000		92.6	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	918	µg/kg	30.0	1000		91.8	62-129			
1,1,2-Trichloroethane	888	µg/kg	30.0	1000		88.8	80-123			
1,1-Dichloroethane	1040	µg/kg	30.0	1000		104	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	957	µg/kg	100	1000		95.7	60-135			
1,2,3-Trichloropropane	890	µg/kg	30.0	1000		89.0	77-121			
1,2,4-Trichlorobenzene	953	µg/kg	100	1000		95.3	63-130			
1,2,4-Trimethylbenzene	912	µg/kg	30.0	1000		91.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	819	µg/kg	100	1000		81.9	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	872	µg/kg	30.0	1000		87.2	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	900	µg/kg	30.0	1000		90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	929	µg/kg	100	1000		92.9	70-130			
1,2-Dichloropropane	915	µg/kg	30.0	1000		91.5	71-130			
1,3,5-Trimethylbenzene	940	µg/kg	100	1000		94.0	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	898	µg/kg	30.0	1000		89.8	78-121			
1,3-Dichloropropene	1490	µg/kg	60.0	2000		74.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	919	µg/kg	30.0	1000		91.9	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1010	µg/kg	200	1000		101	47-164			
2-Hexanone	926	µg/kg	30.0	1000		92.6	70-137			
4-Methyl-2-pentanone (MIBK)	1260	µg/kg	30.0	1000		126	57-200			
Acetone	1390	µg/kg	100	1000		139	52-190			
Benzene	970	µg/kg	30.0	1000		97.0	78-122			
Bromochloromethane	924	µg/kg	30.0	1000		92.4	68-130			
Bromodichloromethane	856	µg/kg	30.0	1000		85.6	75-125			
Bromoform	770	µg/kg	30.0	1000		77.0	59-120			
Carbon disulfide	1190	µg/kg	30.0	1000		119	60-163			
Carbon tetrachloride	938	µg/kg	30.0	1000		93.8	69-123			
Chlorobenzene	903	µg/kg	30.0	1000		90.3	79-120			
Chlorodibromomethane	674	µg/kg	30.0	1000		67.4	57-123			
Chloroethane (Ethyl chloride)	972	µg/kg	100	1000		97.2	38-132			
Chloroform	938	µg/kg	30.0	1000		93.8	72-122			
cis & trans-1,2-Dichloroethene	1930	µg/kg	60.0	2000		96.7	72-127			
cis-1,2-Dichloroethylene	952	µg/kg	30.0	1000		95.2	74-125			
cis-1,3-Dichloropropene	816	µg/kg	30.0	1000		81.6	62-124			
Dichlorodifluoromethane (Freon-12)	837	µg/kg	100	1000		83.7	28-137			
Ethylbenzene	937	µg/kg	30.0	1000		93.7	75-121			
Isopropylbenzene	923	µg/kg	30.0	1000		92.3	74-121			
m+p-Xylene	1870	µg/kg	60.0	2000		93.7	67-129			
Methyl acetate	926	µg/kg	250	1000		92.6	61-125			
Methyl bromide (Bromomethane)	902	µg/kg	100	1000		90.2	31-169			
Methyl chloride (Chloromethane)	921	µg/kg	100	1000		92.1	24-119			
Methyl tert-butyl ether (MTBE)	946	µg/kg	30.0	1000		94.6	79-139			
Methylene chloride (Dichloromethane)	988	µg/kg	250	1000		98.8	62-135			
o-Xylene	926	µg/kg	30.0	1000		92.6	75-120			
Styrene	895	µg/kg	30.0	1000		89.5	74-126			
Tetrachloroethylene (Perchloroethylene)	922	µg/kg	30.0	1000		92.2	76-128			
Toluene	932	µg/kg	30.0	1000		93.2	76-120			
Total Xylene	2800	µg/kg	90.0	3000		93.3	67-129			
trans-1,2-Dichloroethylene	982	µg/kg	30.0	1000		98.2	72-127			
trans-1,3-Dichloropropylene	671	µg/kg	30.0	1000		67.1	66-120			
Trichloroethene (Trichloroethylene)	886	µg/kg	30.0	1000		88.6	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
-----	--------------------------------------	------------------------

Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	874	µg/kg	30.0	1000		87.4	51-115			
Vinyl chloride (Chloroethene)	1030	µg/kg	30.0	1000		103	43-128			
Surr: 1,2-Dichloroethane-d4	960	µg/kg		1000		96.0	80-120			
Surr: 4-Bromofluorobenzene	990	µg/kg		1000		99.0	80-120			
Surr: Dibromofluoromethane	980	µg/kg		1000		98.0	72-120			
Surr: Toluene-d8	980	µg/kg		1000		98.0	80-120			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



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October 20, 2025

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

Re: **DETR0060**

Date Received: **10/11/2025**

Work Order: **HN2515110**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



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

Work Order: HN2515110
Date Received: 11-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 11-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: HN2515110

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2515110-001	14005 Tacoma SB02 TCLP	SOIL/SOLID	10/10/25 09:07	10/11/25 07:00

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



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

Work Order: HN2515110
Date Collected: 10/10/25 09:07
Date Received: 10/11/25 07:00

CLIENT ID: 14005 Tacoma SB02 TCLP

Lab ID: HN2515110-001

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 20:36	10/17/25 10:28
Chromium	EPA 6020B	<0.00610	U	mg/L	0.0499	1	10/17/25 20:36	10/17/25 10:28



Client: The Mannik & Smith Group, Inc.
Project: DETR0060
Matrix: SOIL/SOLID
QC Lot: 2281436

Work Order: HN2515110
Date Collected: NA
Date Received: NA
Run ID: 3599113

TCLP Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2281436-001
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 20:16
Prep Date: 10/17/25 10:29

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-2281436-002
------------	---	-------------------------------

Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 10/17/25 20:18
Prep Date: 10/17/25 10:29

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	1.02	mg/L	0.0499	1		102	80-120			
Chromium	0.994	mg/L	0.0499	1		99.4	80-120			

The following samples were analyzed in this batch: HN2515110-001

ANALYST SUMMARY



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

Work Order: HN2515110

Sample Name: 14005 Tacoma SB02 TCLP
Laboratory Code: HN2515110-001
Sample Matrix: SOIL/SOLID

Date Collected: 10/10/25
Date Received: 10/11/25

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 6020B	EPA 3015A	001-AD	2281436	Chloe Patrick	3599113	Hunter Johnson



ALS Environmental

Laboratory location:

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	14005 TACOMA	A	TCLP Arsenic											
Work Order	Quote ID - 11631	Project Number	DETR0060	B	TCLP Chromium											
Company Name	Mannik Smith Group	Bill To Company	Mannik Smith Group	C												
Send Report To	Ryan Montri	Invoice Attn.		D												
Address	2365 South Haggerty Road	Address	2365 South Haggerty Road	E												
City/State/Zip	Canton, Mi 48188	City/State/Zip	Canton, Mi 48188	F												
Phone	734-397-3100	Phone	734-397-3100	G												
Fax		Fax		H												
e-Mail Address	rmontri@manniksmithgroup.com	e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J
1	14005 Tacoma S1302 TCLP	10/10/25	9:07	Soil		2	X	X								
2																
3																
4																
5																
6																
7																
8																
9																
10																

Sampler(s): Please Print & Sign Shannon Maczmarck Ryan Montri		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:			
Relinquished by: Shannon Maczmarck		Date: 10/10/25	Time: 1430	Received by: Ryan Montri		Date: 10/10/25		Time: 1430		Notes:	
Relinquished by: Ryan Montri		Date: 10/11	Time: 1700	Received by (Laboratory): Ryan Montri		Date: 10/10		Time: 1700		Cooler Temp. 2.1/2.1°C 127	
Logged by (Laboratory): rec 1/5		Date: 10/11/25	Time: 0700	Checked by (Laboratory): NS 10/11/25		Date: 0940				QC Package: (Check Box Below)	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035										☐ Level II: Standard QC TRRP-Checklist	
										☐ Level III: Std QC + Raw Data TRRP Level IV	
										☐ Level IV: SW846 CLP-Like	
										Other: _____	

Environmental Division
Holland
Work Order Reference
HN2515110

Telephone : +1 616 399 6070

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

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

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

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ALS Holland Sample Receiving Checklist

Received by:

Date/Time:

Carrier Name:

Shipping container/cooler in good condition?

Custody seals intact on shipping container/cooler?

Custody seals intact on sample bottles?

Chain of Custody present?

COC signed when relinquished and received?

COC agrees with sample labels?

Samples in proper container/bottle?

Sample containers intact?

Sufficient sample volume for indicated test?

All samples received within holding time?

Container/Temp Blank temperature in compliance?

Temperature(s) (°C):

Thermometer(s):

Sample(s) received on ice?

Matrix/Matrices:

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water – VOA vials have zero headspace?

Water – pH acceptable upon receipt?

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

pH adjusted (note adjustments below)?

pH adjusted by: _____

Login Notes:

APPENDIX F
AMENDED LABORATORY ANALYTICAL DATA REPORT





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CERTIFICATE OF ANALYSIS

Work Order

HN2511264

Client

The Mannik & Smith Group, Inc.

Project

14005_Tacoma

Project Date

August 12, 2025

Reporting Contact

Ryan Montri



right solutions.
right partner.

October 31, 2025

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

Re: **14005_Tacoma**

Date Received: **08/12/2025**
Work Order: **HN2511264**
Revision: **1**

Dear Ryan,

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

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

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

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

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

Dale Schipper

/S/ DALE SCHIPPER

Project Manager



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264
Date Received: 12-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 12-Aug-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals

EPA 6020B-3050B-S

Run ID: 3410824

MS/MSD recoveries were outside of control limits; however, the corresponding result in the parent sample was greater than 4x the amount of the spike. No qualification is required for the analyte(s): Barium, Zinc

MS/MSD recoveries exceeded the upper control limit. Corresponding results in the parent sample may be biased high for the analyte(s): Lead

The RPD between the MS and MSD exceeded the control maximum. Corresponding sample results should be considered estimated: Lead

HN2511264-001: Reporting limits are elevated due to dilution for high concentrations of non-target analytes: See Analytical Report

HN2511264-002: Reporting limits are elevated due to dilution for high concentrations of non-target analytes: See Analytical Report

HN2511264-003: Reporting limits are elevated due to dilution for high concentrations of non-target analytes: See Analytical Report

Organics

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

Run ID: 3410072

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

MS/MSD recoveries were below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): See QA/QC Report

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

Run ID: 3403304

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

Run ID: 3402980

LCS recovery was below the lower control limit. Sample results in the batch may be biased low for the analyte(s): Methyl acetate

Inorganics

EPA 9056A-S (High)

Run ID: 3405747

MS/MSD values were outside upper limit of calibration. Processed at equivalent dilution level as the parent: Chloride

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: 14005 SB01 (1-2)	Lab ID: HN2511264-001
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.26		3.08	mg/kg	EPA 6020B
Barium	61.1		3.08	mg/kg	EPA 6020B
Chromium	14.7		3.08	mg/kg	EPA 6020B
Copper	16.3		3.08	mg/kg	EPA 6020B
Lead	22.2	S	3.08	mg/kg	EPA 6020B
Mercury	0.0497		0.0200	mg/kg	EPA 7471B
Methylcyclohexane	40.5		40.5	µg/kg	EPA 8260D
Percent Moisture	13.2		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8270E
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Subcontract Analysis	See attached.			-	EPA 8082A
Zinc	63.1		6.16	mg/kg	EPA 6020B

CLIENT ID: 14005 SB02 (5-6)	Lab ID: HN2511264-002
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	14.2		3.17	mg/kg	EPA 6020B
Barium	54.2		3.17	mg/kg	EPA 6020B
Chromium	21.3		3.17	mg/kg	EPA 6020B
Copper	21.1		3.17	mg/kg	EPA 6020B
Lead	10.6		3.17	mg/kg	EPA 6020B
Mercury	0.0264		0.0200	mg/kg	EPA 7471B
Percent Moisture	17.5		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Zinc	71.0		6.34	mg/kg	EPA 6020B

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
------------------------------------	------------------------------

Analyte	Results	Flag	MRL	Units	Method
Arsenic	5.38		3.25	mg/kg	EPA 6020B
Barium	47.3		3.25	mg/kg	EPA 6020B
Chloride	19.0		11.6	mg/kg	EPA 9056A
Chromium	14.8		3.25	mg/kg	EPA 6020B
Copper	11.9		3.25	mg/kg	EPA 6020B
Lead	9.17		3.25	mg/kg	EPA 6020B
Mercury	0.0303		0.0202	mg/kg	EPA 7471B
Percent Moisture	13.1		0.1	%	EPA 3550C
Subcontract Analysis	See attached.			-	EPA 8082A
Subcontract Analysis	See attached.			-	EPA 8270E

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: 14005 SB03 (3-4)

Lab ID: HN2511264-003

Analyte	Results	Flag	MRL	Units	Method
Subcontract Analysis	See attached.			-	EPA 8151A
Subcontract Analysis	See attached.			-	EPA 8081B
Zinc	56.3		6.50	mg/kg	EPA 6020B

SAMPLE SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Workorder: HN2511264

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2511264-001	14005 SB01 (1-2)	SOIL/SOLID	08/11/25 09:50	08/12/25 09:30
HN2511264-002	14005 SB02 (5-6)	SOIL/SOLID	08/11/25 09:55	08/12/25 09:30
HN2511264-003	14005 SB03 (3-4)	SOIL/SOLID	08/11/25 10:00	08/12/25 09:30

REPORT QUALIFIERS AND DEFINITIONS

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

Holland Laboratory Certifications¹

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

¹ - Scope available upon request

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2)	Lab ID: HN2511264-001
------------------------------------	------------------------------

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.2		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	11.5	1	08/15/25 22:45	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.26		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Barium	EPA 6020B	61.1		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.23	10	08/18/25 21:28	08/18/25 10:23
Chromium	EPA 6020B	14.7		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Copper	EPA 6020B	16.3		mg/kg	3.08	10	08/19/25 17:44	08/18/25 10:23
Lead	EPA 6020B	22.2	S	mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.08	10	08/18/25 21:28	08/18/25 10:23
Silver	EPA 6020B	ND		mg/kg	3.08	10	08/19/25 17:44	08/18/25 10:23
Zinc	EPA 6020B	63.1		mg/kg	6.16	10	08/18/25 21:28	08/18/25 10:23
Mercury	EPA 7471B	0.0497		mg/kg	0.0200	1	08/18/25 09:48	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2)	Lab ID: HN2511264-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	270	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:50
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB01 (1-2)	Lab ID: HN2511264-001
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	40.5		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	94.2		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	100		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	78.0	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	99.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6)	Lab ID: HN2511264-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	17.5		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	ND		mg/kg	12.1	1	08/15/25 22:55	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	14.2		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Barium	EPA 6020B	54.2		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.27	10	08/18/25 21:38	08/18/25 10:23
Chromium	EPA 6020B	21.3		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Copper	EPA 6020B	21.1		mg/kg	3.17	10	08/19/25 17:56	08/18/25 10:23
Lead	EPA 6020B	10.6		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Silver	EPA 6020B	ND	V	mg/kg	3.17	10	08/18/25 21:38	08/18/25 10:23
Zinc	EPA 6020B	71.0		mg/kg	6.34	10	08/18/25 21:38	08/18/25 10:23
Mercury	EPA 7471B	0.0264		mg/kg	0.0200	1	08/18/25 09:55	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6)	Lab ID: HN2511264-002
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	292	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 09:55
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB02 (5-6) **Lab ID: HN2511264-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	ND		µg/kg	87.6	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	365	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	146	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	365	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	131	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	43.8	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	94.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	96.3		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	79.6	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	97.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
General Chemistry Parameters								
Percent Moisture	EPA 3550C	13.1		%	0.1	1	08/13/25 16:53	NA
Chloride	EPA 9056A	19.0		mg/kg	11.6	1	08/15/25 23:05	08/15/25 16:37
Metals								
Arsenic	EPA 6020B	5.38		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Barium	EPA 6020B	47.3		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Cadmium	EPA 6020B	ND		mg/kg	1.30	10	08/18/25 21:39	08/18/25 10:23
Chromium	EPA 6020B	14.8		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Copper	EPA 6020B	11.9		mg/kg	3.25	10	08/19/25 17:57	08/18/25 10:23
Lead	EPA 6020B	9.17		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Selenium	EPA 6020B	ND		mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Silver	EPA 6020B	ND	V	mg/kg	3.25	10	08/18/25 21:39	08/18/25 10:23
Zinc	EPA 6020B	56.3		mg/kg	6.50	10	08/18/25 21:39	08/18/25 10:23
Mercury	EPA 7471B	0.0303		mg/kg	0.0202	1	08/18/25 09:57	08/15/25 14:33
Subcontracted Parameters								
Subcontract Analysis	EPA 8081B	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8082A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8151A	See attached.		-		1	09/09/25 08:27	NA
Subcontract Analysis	EPA 8270E	See attached.		-		1	09/09/25 08:27	NA
Volatile Organic Compounds by GC-MS								
1,1,1-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2,2-Tetrachloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1,2-Trichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,1-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,3-Trichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trichlorobenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2,4-Trimethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,2-Dichloropropane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3,5-Trimethylbenzene	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
1,3-Dichloropropene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	ND		µg/kg	270	1	08/18/25 12:37	08/18/25 12:29
2-Hexanone	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
4-Methyl-2-pentanone (MIBK)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Acetone	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Benzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromochloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromodichloromethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Bromoform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon disulfide	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Carbon tetrachloride	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorobenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chlorodibromomethane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Chloroethane (Ethyl chloride)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Chloroform	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis & trans-1,2-Dichloroethene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
cis-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
cis-1,3-Dichloropropene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Cyclohexane	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Dichlorodifluoromethane (Freon-12)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29

Analytical Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID

Work Order: HN2511264
Date Collected: 08/11/25 10:00
Date Received: 08/12/25 09:30

CLIENT ID: 14005 SB03 (3-4)	Lab ID: HN2511264-003
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Isopropylbenzene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
m+p-Xylene	EPA 8260D	ND		µg/kg	81.0	1	08/18/25 12:37	08/18/25 12:29
Methyl acetate	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
Methyl bromide (Bromomethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl chloride (Chloromethane)	EPA 8260D	ND		µg/kg	135	1	08/18/25 12:37	08/18/25 12:29
Methyl tert-butyl ether (MTBE)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylcyclohexane	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Methylene chloride (Dichloromethane)	EPA 8260D	ND		µg/kg	338	1	08/18/25 12:37	08/18/25 12:29
o-Xylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Styrene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Tetrachloroethylene (Perchloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Toluene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Total Xylene	EPA 8260D	ND		µg/kg	122	1	08/18/25 12:37	08/18/25 12:29
trans-1,2-Dichloroethylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
trans-1,3-Dichloropropylene	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichloroethene (Trichloroethylene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Vinyl chloride (Chloroethene)	EPA 8260D	ND		µg/kg	40.5	1	08/18/25 12:37	08/18/25 12:29
Surr: 1,2-Dichloroethane-d4	EPA 8260D	96.4		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: 4-Bromofluorobenzene	EPA 8260D	98.8		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Dibromofluoromethane	EPA 8260D	79.0	S	%REC	80-120	1	08/18/25 12:37	08/18/25 12:29
Surr: Toluene-d8	EPA 8260D	97.6		%REC	80-120	1	08/18/25 12:37	08/18/25 12:29



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2158508

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3397652

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2158508-001
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2158508-002
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

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

DUP	CLIENT ID: 14005 SB03 (3-4)	Lab ID: QC-2158508-015
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Method: EPA 3550C **Dilution:** 1 **Analysis Date:** 08/13/25 16:53
Prep Date: NA

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Percent Moisture	14.4	%	0.1		13.1			9.03	10	

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2163330

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3405747

General Chemistry Parameters

MB	CLIENT ID: Method Blank	Lab ID: QC-2163330-001
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 21:57
Prep Date: 08/15/25 16:38

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2163330-002
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Method: EPA 9056A **Dilution:** 1 **Analysis Date:** 08/15/25 22:06
Prep Date: 08/15/25 16:38

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloride	99.5	mg/kg	10.0	100		99.5	87-110			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2162144

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3405106

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2162144-001
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:44
Prep Date: 08/15/25 14:34

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2162144-002
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:46
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.172	mg/kg	0.0200	0.1665		104	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2162144-004
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:50
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.173	mg/kg	0.0200	0.13075	0.0497	99.1	75-125			

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2162144-005
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Method: EPA 7471B **Dilution:** 1 **Analysis Date:** 08/18/25 09:53
Prep Date: 08/15/25 14:34

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Mercury	0.167	mg/kg	0.0200	0.12906	0.0497	96.2	75-125	3.21	35	

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410824

Metals

MB	CLIENT ID: Method Blank	Lab ID: QC-2165850-001
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 08/18/25 21:24**Prep Date:** 08/18/25 10:24

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

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2165850-002
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Method: EPA 6020B**Dilution:** 1**Analysis Date:** 08/18/25 21:26**Prep Date:** 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	4.77	mg/kg	0.250	5		95.3	80-120			
Barium	4.50	mg/kg	0.250	5		90.1	80-120			
Cadmium	4.82	mg/kg	0.100	5		96.4	80-120			
Chromium	4.99	mg/kg	0.250	5		99.7	80-120			
Lead	4.80	mg/kg	0.250	5		96.0	80-120			
Selenium	4.77	mg/kg	0.250	5		95.4	80-120			
Zinc	5.18	mg/kg	0.500	5		104	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-004
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Method: EPA 6020B**Dilution:** 10**Analysis Date:** 08/18/25 21:29**Prep Date:** 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.78	mg/kg	3.20	5.5494	5.26	94.0	75-125			
Barium	63.1	mg/kg	3.20	5	61.1	NC	75-125			O
Cadmium	5.30	mg/kg	1.28	5.5494	<1.23	91.0	75-125			
Chromium	19.4	mg/kg	3.20	5.5494	14.7	120	75-125			
Lead	29.6	mg/kg	3.20	5.5494	22.2	186	75-125			S
Selenium	5.07	mg/kg	3.20	5.5494	ND	87.8	75-125			
Zinc	62.2	mg/kg	6.39	5	63.1	NC	75-125			O

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B**Dilution:** 10**Analysis Date:** 08/18/25 21:31**Prep Date:** 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	9.47	mg/kg	3.10	5.3821	5.26	91.0	75-125	3.31	20	

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410824

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/18/25 21:31
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Barium	62.0	mg/kg	3.10	5	61.1	NC	75-125	1.70	20	O
Cadmium	5.20	mg/kg	1.24	5.3821	<1.23	91.9	75-125	1.96	20	
Chromium	19.4	mg/kg	3.10	5.3821	14.7	123	75-125	0.186	20	
Lead	39.8	mg/kg	3.10	5.3821	22.2	380	75-125	29.4	20	RS
Selenium	5.12	mg/kg	3.10	5.3821	ND	91.4	75-125	0.884	20	
Zinc	63.8	mg/kg	6.20	5	63.1	NC	75-125	2.49	20	O

PDS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/18/25 21:34
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Arsenic	54.7	mg/kg	3.08	53.533	5.26	93.7	75-125			
Barium	100	mg/kg	3.08	53.533	61.1	88.2	75-125			
Cadmium	50.2	mg/kg	1.23	53.533	<1.23	93.3	75-125			
Chromium	64.5	mg/kg	3.08	53.533	14.7	96.6	75-125			
Lead	71.0	mg/kg	3.08	53.533	22.2	96.5	75-125			
Selenium	49.4	mg/kg	3.08	53.533	ND	92.0	75-125			
Zinc	108	mg/kg	6.16	53.533	63.1	98.6	75-125			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2165850

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3413394

Metals

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2165850-002
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Method: EPA 6020B **Dilution:** 1 **Analysis Date:** 08/19/25 17:42
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	4.99	mg/kg	0.250	5		99.8	80-120			
Silver	4.84	mg/kg	0.250	5		96.9	80-120			

MS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-004
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:49
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	19.7	mg/kg	3.20	5.5494	16.3	101	75-125			
Silver	5.16	mg/kg	3.20	5.5494	ND	92.3	75-125			

MSD	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-005
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:51
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	20.5	mg/kg	3.10	5.3821	16.3	118	75-125	3.89	20	
Silver	5.06	mg/kg	3.10	5.3821	ND	93.3	75-125	1.95	20	

PDS	CLIENT ID: 14005 SB01 (1-2)	Lab ID: QC-2165850-007
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Method: EPA 6020B **Dilution:** 10 **Analysis Date:** 08/19/25 17:54
Prep Date: 08/18/25 10:24

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Copper	66.1	mg/kg	3.08	53.533	16.3	97.2	75-125			
Silver	48.3	mg/kg	3.08	53.533	ND	90.2	75-125			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

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



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

MB	CLIENT ID: Method Blank	Lab ID: QC-2156052-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:40

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane	ND	µg/kg	30.0							
(Fluorotrichloromethane, Freon 11)										
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	988	µg/kg		1000		98.8	80-120			
Surr: 4-Bromofluorobenzene	973	µg/kg		1000		97.3	80-120			
Surr: Dibromofluoromethane	914	µg/kg		1000		91.4	80-120			
Surr: Toluene-d8	1030	µg/kg		1000		103	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	869	µg/kg	30.0	1000		86.9	75-121			
1,1,2,2-Tetrachloroethane	932	µg/kg	30.0	1000		93.2	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	866	µg/kg	30.0	1000		86.6	62-129			
1,1,2-Trichloroethane	944	µg/kg	30.0	1000		94.4	80-123			
1,1-Dichloroethane	942	µg/kg	30.0	1000		94.2	74-124			
1,1-Dichloroethylene	862	µg/kg	30.0	1000		86.2	68-131			
1,2,3-Trichlorobenzene	846	µg/kg	100	1000		84.6	60-135			
1,2,3-Trichloropropane	852	µg/kg	30.0	1000		85.2	77-121			
1,2,4-Trichlorobenzene	816	µg/kg	100	1000		81.6	63-130			
1,2,4-Trimethylbenzene	855	µg/kg	30.0	1000		85.5	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	885	µg/kg	100	1000		88.5	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	800	µg/kg	30.0	1000		80.0	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	853	µg/kg	30.0	1000		85.3	77-122			
1,2-Dichloroethane (Ethylene dichloride)	890	µg/kg	100	1000		89.0	70-130			
1,2-Dichloropropane	888	µg/kg	30.0	1000		88.8	71-130			
1,3,5-Trimethylbenzene	843	µg/kg	100	1000		84.3	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	842	µg/kg	30.0	1000		84.2	78-121			
1,3-Dichloropropene	1740	µg/kg	60.0	2000		87.0	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	854	µg/kg	30.0	1000		85.4	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	966	µg/kg	200	1000		96.6	47-164			
2-Hexanone	970	µg/kg	30.0	1000		97.0	70-137			
4-Methyl-2-pentanone (MIBK)	1530	µg/kg	30.0	1000		153	57-200			
Acetone	1160	µg/kg	100	1000		116	52-190			
Benzene	946	µg/kg	30.0	1000		94.6	78-122			
Bromochloromethane	900	µg/kg	30.0	1000		90.0	68-130			
Bromodichloromethane	996	µg/kg	30.0	1000		99.6	75-125			
Bromoform	806	µg/kg	30.0	1000		80.6	59-120			
Carbon disulfide	1120	µg/kg	30.0	1000		112	60-163			
Carbon tetrachloride	906	µg/kg	30.0	1000		90.6	69-123			
Chlorobenzene	853	µg/kg	30.0	1000		85.3	79-120			
Chlorodibromomethane	796	µg/kg	30.0	1000		79.6	57-123			
Chloroethane (Ethyl chloride)	1030	µg/kg	100	1000		103	38-132			
Chloroform	878	µg/kg	30.0	1000		87.8	72-122			
cis & trans-1,2-Dichloroethene	1800	µg/kg	60.0	2000		90.0	72-127			
cis-1,2-Dichloroethylene	907	µg/kg	30.0	1000		90.7	74-125			
cis-1,3-Dichloropropene	970	µg/kg	30.0	1000		97.0	62-124			
Dichlorodifluoromethane (Freon-12)	1040	µg/kg	100	1000		104	28-137			
Ethylbenzene	863	µg/kg	30.0	1000		86.3	75-121			
Isopropylbenzene	856	µg/kg	30.0	1000		85.6	74-121			
m+p-Xylene	1780	µg/kg	60.0	2000		88.8	67-129			
Methyl acetate	582	µg/kg	250	1000		58.2	61-125			
Methyl bromide (Bromomethane)	1040	µg/kg	100	1000		104	31-169			
Methyl chloride (Chloromethane)	979	µg/kg	100	1000		97.9	24-119			
Methyl tert-butyl ether (MTBE)	983	µg/kg	30.0	1000		98.3	79-139			
Methylene chloride (Dichloromethane)	876	µg/kg	250	1000		87.6	62-135			
o-Xylene	888	µg/kg	30.0	1000		88.8	75-120			
Styrene	868	µg/kg	30.0	1000		86.8	74-126			
Tetrachloroethylene (Perchloroethylene)	899	µg/kg	30.0	1000		89.9	76-128			
Toluene	924	µg/kg	30.0	1000		92.4	76-120			
Total Xylene	2660	µg/kg	90.0	3000		88.8	67-129			
trans-1,2-Dichloroethylene	894	µg/kg	30.0	1000		89.4	72-127			
trans-1,3-Dichloropropylene	770	µg/kg	30.0	1000		77.0	66-120			
Trichloroethene (Trichloroethylene)	888	µg/kg	30.0	1000		88.8	75-122			

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QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2156052

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3402980

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2156052-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/14/25 22:08

Prep Date: 08/12/25 15:49

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	818	µg/kg	30.0	1000		81.8	51-115			
Vinyl chloride (Chloroethene)	1090	µg/kg	30.0	1000		109	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	1000	<i>µg/kg</i>		1000		100	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	957	<i>µg/kg</i>		1000		95.7	80-120			
<i>Surr: Dibromofluoromethane</i>	1040	<i>µg/kg</i>		1000		104	80-120			
<i>Surr: Toluene-d8</i>	955	<i>µg/kg</i>		1000		95.5	80-120			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

Volatile Organic Compounds by GC-MS

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

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



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

MB	CLIENT ID: Method Blank	Lab ID: QC-2166362-001
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Ethylbenzene	ND	µg/kg	30.0							
Isopropylbenzene	ND	µg/kg	30.0							
m+p-Xylene	ND	µg/kg	60.0							
Methyl acetate	ND	µg/kg	250							
Methyl bromide (Bromomethane)	ND	µg/kg	100							
Methyl chloride (Chloromethane)	ND	µg/kg	100							
Methyl tert-butyl ether (MTBE)	ND	µg/kg	30.0							
Methylcyclohexane	ND	µg/kg	30.0							
Methylene chloride (Dichloromethane)	ND	µg/kg	250							
o-Xylene	ND	µg/kg	30.0							
Styrene	ND	µg/kg	30.0							
Tetrachloroethylene (Perchloroethylene)	ND	µg/kg	30.0							
Toluene	ND	µg/kg	30.0							
Total Xylene	ND	µg/kg	90.0							
trans-1,2-Dichloroethylene	ND	µg/kg	30.0							
trans-1,3-Dichloropropylene	ND	µg/kg	30.0							
Trichloroethene (Trichloroethylene)	ND	µg/kg	30.0							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ND	µg/kg	30.0							
Vinyl chloride (Chloroethene)	ND	µg/kg	30.0							
Surr: 1,2-Dichloroethane-d4	973	µg/kg		1000		97.3	80-120			
Surr: 4-Bromofluorobenzene	984	µg/kg		1000		98.4	80-120			
Surr: Dibromofluoromethane	946	µg/kg		1000		94.6	72-120			
Surr: Toluene-d8	986	µg/kg		1000		98.6	80-120			

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	906	µg/kg	30.0	1000		90.6	75-121			
1,1,2,2-Tetrachloroethane	926	µg/kg	30.0	1000		92.6	79-125			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	918	µg/kg	30.0	1000		91.8	62-129			
1,1,2-Trichloroethane	888	µg/kg	30.0	1000		88.8	80-123			
1,1-Dichloroethane	1040	µg/kg	30.0	1000		104	74-124			
1,1-Dichloroethylene	1010	µg/kg	30.0	1000		101	68-131			
1,2,3-Trichlorobenzene	957	µg/kg	100	1000		95.7	60-135			
1,2,3-Trichloropropane	890	µg/kg	30.0	1000		89.0	77-121			
1,2,4-Trichlorobenzene	953	µg/kg	100	1000		95.3	63-130			
1,2,4-Trimethylbenzene	912	µg/kg	30.0	1000		91.2	64-126			
1,2-Dibromo-3-chloropropane (DBCP)	819	µg/kg	100	1000		81.9	55-135			
1,2-Dibromoethane (EDB, Ethylene dibromide)	872	µg/kg	30.0	1000		87.2	63-155			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2-Dichlorobenzene (o-Dichlorobenzene)	900	µg/kg	30.0	1000		90.0	77-122			
1,2-Dichloroethane (Ethylene dichloride)	929	µg/kg	100	1000		92.9	70-130			
1,2-Dichloropropane	915	µg/kg	30.0	1000		91.5	71-130			
1,3,5-Trimethylbenzene	940	µg/kg	100	1000		94.0	66-130			
1,3-Dichlorobenzene (m-Dichlorobenzene)	898	µg/kg	30.0	1000		89.8	78-121			
1,3-Dichloropropene	1490	µg/kg	60.0	2000		74.3	62-124			
1,4-Dichlorobenzene (p-Dichlorobenzene)	919	µg/kg	30.0	1000		91.9	78-122			
2-Butanone (Methyl ethyl ketone, MEK)	1010	µg/kg	200	1000		101	47-164			
2-Hexanone	926	µg/kg	30.0	1000		92.6	70-137			
4-Methyl-2-pentanone (MIBK)	1260	µg/kg	30.0	1000		126	57-200			
Acetone	1390	µg/kg	100	1000		139	52-190			
Benzene	970	µg/kg	30.0	1000		97.0	78-122			
Bromochloromethane	924	µg/kg	30.0	1000		92.4	68-130			
Bromodichloromethane	856	µg/kg	30.0	1000		85.6	75-125			
Bromoform	770	µg/kg	30.0	1000		77.0	59-120			
Carbon disulfide	1190	µg/kg	30.0	1000		119	60-163			
Carbon tetrachloride	938	µg/kg	30.0	1000		93.8	69-123			
Chlorobenzene	903	µg/kg	30.0	1000		90.3	79-120			
Chlorodibromomethane	674	µg/kg	30.0	1000		67.4	57-123			
Chloroethane (Ethyl chloride)	972	µg/kg	100	1000		97.2	38-132			
Chloroform	938	µg/kg	30.0	1000		93.8	72-122			
cis & trans-1,2-Dichloroethene	1930	µg/kg	60.0	2000		96.7	72-127			
cis-1,2-Dichloroethylene	952	µg/kg	30.0	1000		95.2	74-125			
cis-1,3-Dichloropropene	816	µg/kg	30.0	1000		81.6	62-124			
Dichlorodifluoromethane (Freon-12)	837	µg/kg	100	1000		83.7	28-137			
Ethylbenzene	937	µg/kg	30.0	1000		93.7	75-121			
Isopropylbenzene	923	µg/kg	30.0	1000		92.3	74-121			
m+p-Xylene	1870	µg/kg	60.0	2000		93.7	67-129			
Methyl acetate	926	µg/kg	250	1000		92.6	61-125			
Methyl bromide (Bromomethane)	902	µg/kg	100	1000		90.2	31-169			
Methyl chloride (Chloromethane)	921	µg/kg	100	1000		92.1	24-119			
Methyl tert-butyl ether (MTBE)	946	µg/kg	30.0	1000		94.6	79-139			
Methylene chloride (Dichloromethane)	988	µg/kg	250	1000		98.8	62-135			
o-Xylene	926	µg/kg	30.0	1000		92.6	75-120			
Styrene	895	µg/kg	30.0	1000		89.5	74-126			
Tetrachloroethylene (Perchloroethylene)	922	µg/kg	30.0	1000		92.2	76-128			
Toluene	932	µg/kg	30.0	1000		93.2	76-120			
Total Xylene	2800	µg/kg	90.0	3000		93.3	67-129			
trans-1,2-Dichloroethylene	982	µg/kg	30.0	1000		98.2	72-127			
trans-1,3-Dichloropropylene	671	µg/kg	30.0	1000		67.1	66-120			
Trichloroethene (Trichloroethylene)	886	µg/kg	30.0	1000		88.6	75-122			

QA/QC Report



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma
Matrix: SOIL/SOLID
QC Lot: 2166362

Work Order: HN2511264
Date Collected: NA
Date Received: NA
Run ID: 3410072

LCS	CLIENT ID: Laboratory Control Sample	Lab ID: QC-2166362-002
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Method: EPA 8260D

Dilution: 1

Analysis Date: 08/18/25 12:38

Prep Date: 08/18/25 12:30

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	874	µg/kg	30.0	1000		87.4	51-115			
Vinyl chloride (Chloroethene)	1030	µg/kg	30.0	1000		103	43-128			
<i>Surr: 1,2-Dichloroethane-d4</i>	960	<i>µg/kg</i>		1000		96.0	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	990	<i>µg/kg</i>		1000		99.0	80-120			
<i>Surr: Dibromofluoromethane</i>	980	<i>µg/kg</i>		1000		98.0	72-120			
<i>Surr: Toluene-d8</i>	980	<i>µg/kg</i>		1000		98.0	80-120			

The following samples were analyzed in this batch: HN2511264-001, HN2511264-002, HN2511264-003

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264

Sample Name: 14005 SB01 (1-2) **Date Collected:** 08/11/25
Laboratory Code: HN2511264-001 **Date Received:** 08/12/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		001-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	001-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	001-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	001-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		001-AD			3475773	Bill Carey
EPA 8082A		001-AD			3475773	Bill Carey
EPA 8151A		001-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	001-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		001-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	001-AC	2163330	Quoc Nguyen	3405747	Bill Carey

Sample Name: 14005 SB02 (5-6) **Date Collected:** 08/11/25
Laboratory Code: HN2511264-002 **Date Received:** 08/12/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		002-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	002-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	002-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	002-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		002-AD			3475773	Bill Carey
EPA 8082A		002-AD			3475773	Bill Carey
EPA 8151A		002-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	002-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		002-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	002-AC	2163330	Quoc Nguyen	3405747	Bill Carey

ANALYST SUMMARY



Client: The Mannik & Smith Group, Inc.
Project: 14005_Tacoma

Work Order: HN2511264

Sample Name: 14005 SB03 (3-4) **Date Collected:** 08/11/25
Laboratory Code: HN2511264-003 **Date Received:** 08/12/25
Sample Matrix: SOIL/SOLID

Analysis Method	Preparation Method	Container ID	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 3550C		003-AC	2158508		3397652	Nicole Maleski
EPA 6020B	EPA 3050B	003-AC	2165850	Weston Kotecki	3410824	Bill Carey
EPA 6020B	EPA 3050B	003-AC	2165850	Weston Kotecki	3413394	Bill Carey
EPA 7471B	Method	003-AC	2162144	Maxx Richey	3405106	Bill Carey
EPA 8081B		003-AD			3475773	Bill Carey
EPA 8082A		003-AD			3475773	Bill Carey
EPA 8151A		003-AD			3475773	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2166362	John Garvale	3410072	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2156052	Jonathan Vazquez	3403304	Bill Carey
EPA 8260D	EPA 5035A	003-AA	2156052	Jonathan Vazquez	3404823	Bill Carey
EPA 8270E		003-AD			3475773	Bill Carey
EPA 9056A	EPA 9056A	003-AC	2163330	Quoc Nguyen	3405747	Bill Carey



ALS Environmental

Laboratory location:

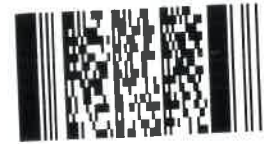
Chain of Custody Form

Page 1 of 1

Customer Information			Project Information				Parameter/Method Request for Analysis							
Purchase Order		Project Name	14005_Tacoma				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	Billed To Company	The Mannik and Smith Group				C	PCBs (U.S. EPA Method 8082)						
Send Report To	Ryan Montri	Invoice Attn					D	Mi 10 Metals (U.S. EPA 6000/7000 Series Methods)						
Address	2365 Haggerty Rd South Suite 100	Address	2365 Haggerty Rd South Suite 100				E	Chorides (U.S. EPA Method 9056A)						
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188				F	Pesticides (U.S. EPA Method 8081B (or Method 8081))						
Phone	734-397-3100	Phone	734-397-3100				G	Herbicides (U.S. EPA Method 8151A (or Method 8151))						
Fax		Fax					H							
e-Mail Address	RMontri@mannaiksmithgroup.com	e-Mail Address					I							
							J							

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G
1	14005 SB01 (1-2)	8/11/25	9:58	Soil	7	3	X	X	X	X	X	X	X
2	14005 SB02 (3-6)	8/11/25	9:55	Soil	7	3	X	X	X	X	X	X	X
3	14005 SB03 (3-4)	8/11/25	10:00	Soil	7	3	X	X	X	X	X	X	X
4													
5													
6													
7													
8													
9													
10													

Sampler(s): Please Print & Sign <i>Shannon Kaczmarek</i>		Shipment Method:		Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: <i>Shannon Kaczmarek</i>		Date: 8/11/25	Time: 17:46	Received by: <i>Colin</i>		Notes: Quote# HN-061825-M&S-MA	
Relinquished by: <i>[Signature]</i>		Date: 8/11/25	Time: 17:09	Received by (Laboratory): <i>[Signature]</i>		Cooler Temp. 4.0°C	
Logged by (Laboratory): <i>BO</i>		Date: 8/12/25	Time: 12:15	Checked by (Laboratory):		QC Package: (Check Box Below)	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Level II: Standard QC TRRP-Checklist	
						Level III: Std QC + Raw Data TRRP Level IV	
						Level IV: SW846 CLP-Like	
						Other:	

Environmental Division
Holland
Work Order Reference
HN2511264

Telephone : +1 616 399 6070

Page 33 of 34

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

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

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ALS Holland Sample Receiving Checklist

Received by:

BC

Date/Time:

8/12/25 0830

Carrier Name:

FedEx

Shipping container/cooler in good condition?

☒ Yes / No / Not Present

Custody seals intact on shipping container/cooler?

☒ Yes / No / Not Present

Custody seals intact on sample bottles?

☒ Yes / No / Not Present

Chain of Custody present?

☒ Yes / No

COC signed when relinquished and received?

☒ Yes / No

COC agrees with sample labels?

☒ Yes / No

Samples in proper container/bottle?

☒ Yes / No

Sample containers intact?

☒ Yes / No

Sufficient sample volume for indicated test?

☒ Yes / No

All samples received within holding time?

☒ Yes / No

Container/Temp Blank temperature in compliance?

☒ Yes / No

Temperature(s) (°C):

4.0°C

Thermometer(s):

IR6

Sample(s) received on ice?

☒ Yes / No

Matrix/Matrices:

BC soil BC soil

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

8/14/25 12:30

Water – VOA vials have zero headspace?

☒ Yes / No / No Vials

Water – pH acceptable upon receipt?

☒ Yes / No / N/A

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

pH adjusted (note adjustments below)?

☒ Yes / No / N/A

pH adjusted by:

Login Notes:



November 19, 2025

Service Request No:R2510218

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

Laboratory Results for: 14005_Tacoma

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 **R2510218**.

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: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
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, 08/25/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

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

Semivolatile GC:

Method 8081B, 08/28/2025: 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, 08/26/2025: 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.

The RPD between the LCS and the LCSD was greater than the RPD limit. The percent recovery limit was met for both the LCS and the LCSD.

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: 14005 SB01 (1-2)	Lab ID: R2510218-001
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
1-Methylnaphthalene	110	J	70	380	ug/Kg	8270E
Benz(a)anthracene	150	J	56	380	ug/Kg	8270E
Benzo(a)pyrene	160	J	100	380	ug/Kg	8270E
Benzo(b)fluoranthene	230	J	63	380	ug/Kg	8270E
Benzo(g,h,i)perylene	110	J	87	380	ug/Kg	8270E
Benzo(k)fluoranthene	82	J	61	380	ug/Kg	8270E
Chrysene	190	J	56	380	ug/Kg	8270E
Fluoranthene	300	J	95	380	ug/Kg	8270E
Naphthalene	89	J	71	380	ug/Kg	8270E
Phenanthrene	220	J	54	380	ug/Kg	8270E
Pyrene	260	J	63	380	ug/Kg	8270E
Total Solids	86.8				Percent	ALS SOP

CLIENT ID: 14005 SB03 (5-6)	Lab ID: R2510218-003
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	1.4	J	0.97	2.0	ug/Kg	8081B
4,4'-DDE	14		0.97	2.0	ug/Kg	8081B
4,4'-DDT	2.0	J	0.97	2.0	ug/Kg	8081B
alpha-Chlordane	1.8	J	0.97	2.0	ug/Kg	8081B
Total Solids	86.9				Percent	ALS SOP

CLIENT ID: 14005 SB02 (3-4)	Lab ID: R2510218-002
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	82.5				Percent	ALS SOP



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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

www.alsglobal.com

Client: ALS Environmental - US
Project: 14005_Tacoma

Service Request:R2510218

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2510218-001	14005 SB01 (1-2)	8/11/2025	0950
R2510218-002	14005 SB02 (3-4)	8/11/2025	0955
R2510218-003	14005 SB03 (5-6)	8/11/2025	1000

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: HN2511264

Subcontract To: Rochester - Environmental TEL: +1 585 288 5380 1565 Jefferson Road, Building 300, Suite 360 FAX: Rochester New York 14623				Due Date: 08/21/2025 Analysis Report Format: ALS Standard – Level II Electronic Data Deliverable:			
---	--	--	--	---	--	--	--

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	14005_Tacoma	A	EPA 8081B-3546-S (INT SUB)											
Work Order	HN2511264			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
HN2511264-001	14005 SB01 (1-2)	Soil/Solid	08/11/2025 09:50	001-AD	x	x	x	x						
HN2511264-002	14005 SB02 (5-6)	Soil/Solid	08/11/2025 09:55	002-AD	x	x	x	x						
HN2511264-003	14005 SB03 (3-4)	Soil/Solid	08/11/2025 10:00	003-AD	x	x	x	x						

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

R2510218

5

ALS Environmental - Holland
14005_Tacoma





R2510218

5

ALS Environmental - Holland
14006 Tacoma

Cooler Receipt and Preservation Check Form

Project/Client ALS Folder Number _____Cooler received on 8/20/25 by: RMCOURIER: ALS UPS FEDEX VELOCITY CLIENT

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

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

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

Temp (°C)	<u>4.7</u>	<u>4.5</u>	<u>5.5</u>				
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> N	<u>(Y)</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: SMO by RM on 8/20 at 12:16
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 8/20/25 Time: 16:30 by: MLL

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 (NA)
13. Were dissolved metals filtered in the field? YES NO (NA)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (NA)

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

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 062325-152

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: MLL

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

Rochester Lab ID # for State Accreditations¹



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

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

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

ALS Laboratory Group

Acronyms

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

Client: ALS Environmental - US
Project: 14005_Tacoma

Service Request: R2510218

Non-Certified Analytes

Certifying Agency: New York Department of Health

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

ALS Group USA, Corp.
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Analyst Summary report

Client: ALS Environmental - US
Project: 14005_Tacoma/

Service Request: R2510218

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003
Sample Matrix: Soil

Date Collected: 08/11/25
Date Received: 08/20/25

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



PREPARATION METHODS

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

INORGANIC

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

ORGANIC

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

Regarding "Bulk/5035A":

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



Sample Results

ALS Environmental—Rochester Laboratory

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

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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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	84 U	380	84	1	08/25/25 20:34	8/22/25	
1-Methylnaphthalene	110 J	380	70	1	08/25/25 20:34	8/22/25	
2-Methylnaphthalene	140 U	380	140	1	08/25/25 20:34	8/22/25	
Acenaphthene	72 U	380	72	1	08/25/25 20:34	8/22/25	
Acenaphthylene	77 U	380	77	1	08/25/25 20:34	8/22/25	
Anthracene	63 U	380	63	1	08/25/25 20:34	8/22/25	
Benz(a)anthracene	150 J	380	56	1	08/25/25 20:34	8/22/25	
Benzo(a)pyrene	160 J	380	100	1	08/25/25 20:34	8/22/25	
Benzo(b)fluoranthene	230 J	380	63	1	08/25/25 20:34	8/22/25	
Benzo(g,h,i)perylene	110 J	380	87	1	08/25/25 20:34	8/22/25	
1,4-Dichlorobenzene	63 U	380	63	1	08/25/25 20:34	8/22/25	
Benzo(k)fluoranthene	82 J	380	61	1	08/25/25 20:34	8/22/25	
Biphenyl	120 U	380	120	1	08/25/25 20:34	8/22/25	
Chrysene	190 J	380	56	1	08/25/25 20:34	8/22/25	
1,4-Dioxane	37 U	77	37	1	08/25/25 20:34	8/22/25	
Dibenz(a,h)anthracene	82 U	380	82	1	08/25/25 20:34	8/22/25	
Dibenzofuran	69 U	380	69	1	08/25/25 20:34	8/22/25	
Fluoranthene	300 J	380	95	1	08/25/25 20:34	8/22/25	
Fluorene	71 U	380	71	1	08/25/25 20:34	8/22/25	
Indeno(1,2,3-cd)pyrene	130 U	380	130	1	08/25/25 20:34	8/22/25	
Naphthalene	89 J	380	71	1	08/25/25 20:34	8/22/25	
Phenanthrene	220 J	380	54	1	08/25/25 20:34	8/22/25	
Pyrene	260 J	380	63	1	08/25/25 20:34	8/22/25	
2,3,4,6-Tetrachlorophenol	140 U	380	140	1	08/25/25 20:34	8/22/25	
2,4,5-Trichlorophenol	93 U	380	93	1	08/25/25 20:34	8/22/25	
2,4,6-Trichlorophenol	84 U	380	84	1	08/25/25 20:34	8/22/25	
2,4-Dichlorophenol	73 U	380	73	1	08/25/25 20:34	8/22/25	
2,4-Dimethylphenol	68 U	380	68	1	08/25/25 20:34	8/22/25	
2,4-Dinitrophenol	640 U	1900	640	1	08/25/25 20:34	8/22/25	
2,4-Dinitrotoluene	150 U	380	150	1	08/25/25 20:34	8/22/25	
2,6-Dinitrotoluene	83 U	380	83	1	08/25/25 20:34	8/22/25	
2-Chloronaphthalene	76 U	380	76	1	08/25/25 20:34	8/22/25	
2-Chlorophenol	63 U	380	63	1	08/25/25 20:34	8/22/25	
2-Methylphenol	78 U	380	78	1	08/25/25 20:34	8/22/25	
2-Nitroaniline	89 U	1900	89	1	08/25/25 20:34	8/22/25	
2-Nitrophenol	88 U	380	88	1	08/25/25 20:34	8/22/25	
3,3'-Dichlorobenzidine	140 U	380	140	1	08/25/25 20:34	8/22/25	
3- and 4-Methylphenol Coelution	72 U	380	72	1	08/25/25 20:34	8/22/25	
3-Nitroaniline	76 U	1900	76	1	08/25/25 20:34	8/22/25	
4,6-Dinitro-2-methylphenol	220 U	1900	220	1	08/25/25 20:34	8/22/25	
4-Bromophenyl Phenyl Ether	100 U	380	100	1	08/25/25 20:34	8/22/25	
4-Chloro-3-methylphenol	76 U	380	76	1	08/25/25 20:34	8/22/25	
4-Chloroaniline	140 U	380	140	1	08/25/25 20:34	8/22/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	81 U	380	81	1	08/25/25 20:34	8/22/25	
4-Nitroaniline	82 U	1900	82	1	08/25/25 20:34	8/22/25	
4-Nitrophenol	200 U	1900	200	1	08/25/25 20:34	8/22/25	
Acetophenone	110 U	380	110	1	08/25/25 20:34	8/22/25	
Atrazine	120 U	380	120	1	08/25/25 20:34	8/22/25	
Benzaldehyde	91 U	1900	91	1	08/25/25 20:34	8/22/25	
Benzoic Acid	600 U	1900	600	1	08/25/25 20:34	8/22/25	
Bis(1-chloroisopropyl) Ether	78 U	380	78	1	08/25/25 20:34	8/22/25	
Bis(2-chloroethoxy)methane	92 U	380	92	1	08/25/25 20:34	8/22/25	
Bis(2-chloroethyl) Ether	75 U	380	75	1	08/25/25 20:34	8/22/25	
Bis(2-ethylhexyl) Phthalate	69 U	570	69	1	08/25/25 20:34	8/22/25	
Butyl Benzyl Phthalate	110 U	380	110	1	08/25/25 20:34	8/22/25	
Caprolactam	83 U	380	83	1	08/25/25 20:34	8/22/25	
Carbazole	61 U	380	61	1	08/25/25 20:34	8/22/25	
Di-n-butyl Phthalate	61 U	380	61	1	08/25/25 20:34	8/22/25	
Di-n-octyl Phthalate	140 U	380	140	1	08/25/25 20:34	8/22/25	
Diethyl Phthalate	67 U	380	67	1	08/25/25 20:34	8/22/25	
Dimethyl Phthalate	72 U	380	72	1	08/25/25 20:34	8/22/25	
Hexachlorobenzene	91 U	380	91	1	08/25/25 20:34	8/22/25	
Hexachlorobutadiene	140 U	380	140	1	08/25/25 20:34	8/22/25	
Hexachlorocyclopentadiene	120 U	380	120	1	08/25/25 20:34	8/22/25	
Hexachloroethane	71 U	380	71	1	08/25/25 20:34	8/22/25	
Isophorone	79 U	380	79	1	08/25/25 20:34	8/22/25	
N-Nitrosodi-n-propylamine	120 U	380	120	1	08/25/25 20:34	8/22/25	
N-Nitrosodiphenylamine	240 U	380	240	1	08/25/25 20:34	8/22/25	
Nitrobenzene	68 U	380	68	1	08/25/25 20:34	8/22/25	
Pentachlorophenol (PCP)	380 U	1900	380	1	08/25/25 20:34	8/22/25	
Phenol	76 U	380	76	1	08/25/25 20:34	8/22/25	
Pyridine	51 U	1900	51	1	08/25/25 20:34	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	81	18 - 104	08/25/25 20:34	
Nitrobenzene-d5	75	12 - 98	08/25/25 20:34	
p-Terphenyl-d14	101	26 - 134	08/25/25 20:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	210 U	1100	210	1	08/25/25 20:58	8/22/25	
1,2,4,5-Tetrachlorobenzene	260 U	1100	260	1	08/25/25 20:58	8/22/25	
2-Methylnaphthalene	410 U	1100	410	1	08/25/25 20:58	8/22/25	
Acenaphthene	220 U	1100	220	1	08/25/25 20:58	8/22/25	
Acenaphthylene	230 U	1100	230	1	08/25/25 20:58	8/22/25	
Anthracene	200 U	1100	200	1	08/25/25 20:58	8/22/25	
Benz(a)anthracene	170 U	1100	170	1	08/25/25 20:58	8/22/25	
Benzo(a)pyrene	310 U	1100	310	1	08/25/25 20:58	8/22/25	
Benzo(b)fluoranthene	190 U	1100	190	1	08/25/25 20:58	8/22/25	
Benzo(g,h,i)perylene	270 U	1100	270	1	08/25/25 20:58	8/22/25	
1,4-Dichlorobenzene	190 U	1100	190	1	08/25/25 20:58	8/22/25	
Benzo(k)fluoranthene	190 U	1100	190	1	08/25/25 20:58	8/22/25	
Biphenyl	340 U	1100	340	1	08/25/25 20:58	8/22/25	
Chrysene	170 U	1100	170	1	08/25/25 20:58	8/22/25	
1,4-Dioxane	120 U	230	120	1	08/25/25 20:58	8/22/25	
Dibenz(a,h)anthracene	250 U	1100	250	1	08/25/25 20:58	8/22/25	
Dibenzofuran	210 U	1100	210	1	08/25/25 20:58	8/22/25	
Fluoranthene	290 U	1100	290	1	08/25/25 20:58	8/22/25	
Fluorene	220 U	1100	220	1	08/25/25 20:58	8/22/25	
Indeno(1,2,3-cd)pyrene	370 U	1100	370	1	08/25/25 20:58	8/22/25	
Naphthalene	220 U	1100	220	1	08/25/25 20:58	8/22/25	
Phenanthrene	170 U	1100	170	1	08/25/25 20:58	8/22/25	
Pyrene	190 U	1100	190	1	08/25/25 20:58	8/22/25	
2,3,4,6-Tetrachlorophenol	400 U	1100	400	1	08/25/25 20:58	8/22/25	
2,4,5-Trichlorophenol	290 U	1100	290	1	08/25/25 20:58	8/22/25	
2,4,6-Trichlorophenol	260 U	1100	260	1	08/25/25 20:58	8/22/25	
2,4-Dichlorophenol	220 U	1100	220	1	08/25/25 20:58	8/22/25	
2,4-Dimethylphenol	210 U	1100	210	1	08/25/25 20:58	8/22/25	
2,4-Dinitrophenol	2000 U	5900	2000	1	08/25/25 20:58	8/22/25	
2,4-Dinitrotoluene	440 U	1100	440	1	08/25/25 20:58	8/22/25	
2,6-Dinitrotoluene	250 U	1100	250	1	08/25/25 20:58	8/22/25	
2-Chloronaphthalene	230 U	1100	230	1	08/25/25 20:58	8/22/25	
2-Chlorophenol	190 U	1100	190	1	08/25/25 20:58	8/22/25	
2-Methylphenol	240 U	1100	240	1	08/25/25 20:58	8/22/25	
2-Nitroaniline	270 U	5900	270	1	08/25/25 20:58	8/22/25	
2-Nitrophenol	270 U	1100	270	1	08/25/25 20:58	8/22/25	
3,3'-Dichlorobenzidine	420 U	1100	420	1	08/25/25 20:58	8/22/25	
3- and 4-Methylphenol Coelution	220 U	1100	220	1	08/25/25 20:58	8/22/25	
3-Nitroaniline	230 U	5900	230	1	08/25/25 20:58	8/22/25	
4,6-Dinitro-2-methylphenol	650 U	5900	650	1	08/25/25 20:58	8/22/25	
4-Bromophenyl Phenyl Ether	300 U	1100	300	1	08/25/25 20:58	8/22/25	
4-Chloro-3-methylphenol	230 U	1100	230	1	08/25/25 20:58	8/22/25	
4-Chloroaniline	420 U	1100	420	1	08/25/25 20:58	8/22/25	

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	250 U	1100	250	1	08/25/25 20:58	8/22/25	
4-Nitroaniline	250 U	5900	250	1	08/25/25 20:58	8/22/25	
4-Nitrophenol	590 U	5900	590	1	08/25/25 20:58	8/22/25	
Acetophenone	330 U	1100	330	1	08/25/25 20:58	8/22/25	
Atrazine	340 U	1100	340	1	08/25/25 20:58	8/22/25	
Benzaldehyde	280 U	5900	280	1	08/25/25 20:58	8/22/25	
Benzoic Acid	1800 U	5900	1800	1	08/25/25 20:58	8/22/25	
Bis(1-chloroisopropyl) Ether	240 U	1100	240	1	08/25/25 20:58	8/22/25	
Bis(2-chloroethoxy)methane	280 U	1100	280	1	08/25/25 20:58	8/22/25	
Bis(2-chloroethyl) Ether	230 U	1100	230	1	08/25/25 20:58	8/22/25	
Bis(2-ethylhexyl) Phthalate	210 U	1700	210	1	08/25/25 20:58	8/22/25	
Butyl Benzyl Phthalate	340 U	1100	340	1	08/25/25 20:58	8/22/25	
Caprolactam	260 U	1100	260	1	08/25/25 20:58	8/22/25	
Carbazole	190 U	1100	190	1	08/25/25 20:58	8/22/25	
Di-n-butyl Phthalate	190 U	1100	190	1	08/25/25 20:58	8/22/25	
Di-n-octyl Phthalate	400 U	1100	400	1	08/25/25 20:58	8/22/25	
Diethyl Phthalate	210 U	1100	210	1	08/25/25 20:58	8/22/25	
Dimethyl Phthalate	220 U	1100	220	1	08/25/25 20:58	8/22/25	
Hexachlorobenzene	280 U	1100	280	1	08/25/25 20:58	8/22/25	
Hexachlorobutadiene	410 U	1100	410	1	08/25/25 20:58	8/22/25	
Hexachlorocyclopentadiene	370 U	1100	370	1	08/25/25 20:58	8/22/25	
Hexachloroethane	220 U	1100	220	1	08/25/25 20:58	8/22/25	
Isophorone	240 U	1100	240	1	08/25/25 20:58	8/22/25	
N-Nitrosodi-n-propylamine	350 U	1100	350	1	08/25/25 20:58	8/22/25	
N-Nitrosodiphenylamine	720 U	1100	720	1	08/25/25 20:58	8/22/25	
Nitrobenzene	210 U	1100	210	1	08/25/25 20:58	8/22/25	
Pentachlorophenol (PCP)	1200 U	5900	1200	1	08/25/25 20:58	8/22/25	
Phenol	230 U	1100	230	1	08/25/25 20:58	8/22/25	
Pyridine	160 U	5900	160	1	08/25/25 20:58	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	77	18 - 104	08/25/25 20:58	
Nitrobenzene-d5	72	12 - 98	08/25/25 20:58	
p-Terphenyl-d14	99	26 - 134	08/25/25 20:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1-Methylnaphthalene	70 U	380	70	1	08/25/25 21:22	8/22/25	
1,2,4,5-Tetrachlorobenzene	84 U	380	84	1	08/25/25 21:22	8/22/25	
2-Methylnaphthalene	140 U	380	140	1	08/25/25 21:22	8/22/25	
Acenaphthene	72 U	380	72	1	08/25/25 21:22	8/22/25	
Acenaphthylene	77 U	380	77	1	08/25/25 21:22	8/22/25	
Anthracene	63 U	380	63	1	08/25/25 21:22	8/22/25	
Benz(a)anthracene	56 U	380	56	1	08/25/25 21:22	8/22/25	
Benzo(a)pyrene	110 U	380	110	1	08/25/25 21:22	8/22/25	
Benzo(b)fluoranthene	63 U	380	63	1	08/25/25 21:22	8/22/25	
Benzo(g,h,i)perylene	87 U	380	87	1	08/25/25 21:22	8/22/25	
Benzo(k)fluoranthene	61 U	380	61	1	08/25/25 21:22	8/22/25	
1,4-Dichlorobenzene	63 U	380	63	1	08/25/25 21:22	8/22/25	
Biphenyl	120 U	380	120	1	08/25/25 21:22	8/22/25	
Chrysene	56 U	380	56	1	08/25/25 21:22	8/22/25	
1,4-Dioxane	37 U	77	37	1	08/25/25 21:22	8/22/25	
Dibenz(a,h)anthracene	82 U	380	82	1	08/25/25 21:22	8/22/25	
Dibenzofuran	69 U	380	69	1	08/25/25 21:22	8/22/25	
Fluoranthene	95 U	380	95	1	08/25/25 21:22	8/22/25	
Fluorene	71 U	380	71	1	08/25/25 21:22	8/22/25	
Indeno(1,2,3-cd)pyrene	130 U	380	130	1	08/25/25 21:22	8/22/25	
Naphthalene	71 U	380	71	1	08/25/25 21:22	8/22/25	
Phenanthrene	54 U	380	54	1	08/25/25 21:22	8/22/25	
Pyrene	63 U	380	63	1	08/25/25 21:22	8/22/25	
2,3,4,6-Tetrachlorophenol	140 U	380	140	1	08/25/25 21:22	8/22/25	
2,4,5-Trichlorophenol	93 U	380	93	1	08/25/25 21:22	8/22/25	
2,4,6-Trichlorophenol	84 U	380	84	1	08/25/25 21:22	8/22/25	
2,4-Dichlorophenol	73 U	380	73	1	08/25/25 21:22	8/22/25	
2,4-Dimethylphenol	68 U	380	68	1	08/25/25 21:22	8/22/25	
2,4-Dinitrophenol	640 U	1900	640	1	08/25/25 21:22	8/22/25	
2,4-Dinitrotoluene	150 U	380	150	1	08/25/25 21:22	8/22/25	
2,6-Dinitrotoluene	83 U	380	83	1	08/25/25 21:22	8/22/25	
2-Chloronaphthalene	76 U	380	76	1	08/25/25 21:22	8/22/25	
2-Chlorophenol	63 U	380	63	1	08/25/25 21:22	8/22/25	
2-Methylphenol	78 U	380	78	1	08/25/25 21:22	8/22/25	
2-Nitroaniline	89 U	1900	89	1	08/25/25 21:22	8/22/25	
2-Nitrophenol	88 U	380	88	1	08/25/25 21:22	8/22/25	
3,3'-Dichlorobenzidine	140 U	380	140	1	08/25/25 21:22	8/22/25	
3- and 4-Methylphenol Coelution	72 U	380	72	1	08/25/25 21:22	8/22/25	
3-Nitroaniline	76 U	1900	76	1	08/25/25 21:22	8/22/25	
4,6-Dinitro-2-methylphenol	220 U	1900	220	1	08/25/25 21:22	8/22/25	
4-Bromophenyl Phenyl Ether	100 U	380	100	1	08/25/25 21:22	8/22/25	
4-Chloro-3-methylphenol	76 U	380	76	1	08/25/25 21:22	8/22/25	
4-Chloroaniline	140 U	380	140	1	08/25/25 21:22	8/22/25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4-Chlorophenyl Phenyl Ether	81 U	380	81	1	08/25/25 21:22	8/22/25	
4-Nitroaniline	82 U	1900	82	1	08/25/25 21:22	8/22/25	
4-Nitrophenol	200 U	1900	200	1	08/25/25 21:22	8/22/25	
Acetophenone	110 U	380	110	1	08/25/25 21:22	8/22/25	
Atrazine	120 U	380	120	1	08/25/25 21:22	8/22/25	
Benzaldehyde	91 U	1900	91	1	08/25/25 21:22	8/22/25	
Benzoic Acid	600 U	1900	600	1	08/25/25 21:22	8/22/25	
Bis(1-chloroisopropyl) Ether	78 U	380	78	1	08/25/25 21:22	8/22/25	
Bis(2-chloroethoxy)methane	92 U	380	92	1	08/25/25 21:22	8/22/25	
Bis(2-chloroethyl) Ether	75 U	380	75	1	08/25/25 21:22	8/22/25	
Bis(2-ethylhexyl) Phthalate	69 U	570	69	1	08/25/25 21:22	8/22/25	
Butyl Benzyl Phthalate	110 U	380	110	1	08/25/25 21:22	8/22/25	
Caprolactam	83 U	380	83	1	08/25/25 21:22	8/22/25	
Carbazole	61 U	380	61	1	08/25/25 21:22	8/22/25	
Di-n-butyl Phthalate	61 U	380	61	1	08/25/25 21:22	8/22/25	
Di-n-octyl Phthalate	140 U	380	140	1	08/25/25 21:22	8/22/25	
Diethyl Phthalate	67 U	380	67	1	08/25/25 21:22	8/22/25	
Dimethyl Phthalate	72 U	380	72	1	08/25/25 21:22	8/22/25	
Hexachlorobenzene	91 U	380	91	1	08/25/25 21:22	8/22/25	
Hexachlorobutadiene	140 U	380	140	1	08/25/25 21:22	8/22/25	
Hexachlorocyclopentadiene	120 U	380	120	1	08/25/25 21:22	8/22/25	
Hexachloroethane	71 U	380	71	1	08/25/25 21:22	8/22/25	
Isophorone	79 U	380	79	1	08/25/25 21:22	8/22/25	
N-Nitrosodi-n-propylamine	120 U	380	120	1	08/25/25 21:22	8/22/25	
N-Nitrosodiphenylamine	240 U	380	240	1	08/25/25 21:22	8/22/25	
Nitrobenzene	68 U	380	68	1	08/25/25 21:22	8/22/25	
Pentachlorophenol (PCP)	380 U	1900	380	1	08/25/25 21:22	8/22/25	
Phenol	76 U	380	76	1	08/25/25 21:22	8/22/25	
Pyridine	51 U	1900	51	1	08/25/25 21:22	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	76	18 - 104	08/25/25 21:22	
Nitrobenzene-d5	70	12 - 98	08/25/25 21:22	
p-Terphenyl-d14	97	26 - 134	08/25/25 21:22	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
4,4'-DDE	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
4,4'-DDT	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Aldrin	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Chlordane	4.8 U	9.5	4.8	1	08/26/25 19:57	8/22/25	
Dieldrin	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endosulfan I	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endosulfan II	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endosulfan Sulfate	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endrin	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endrin Aldehyde	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Endrin Ketone	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Heptachlor	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Heptachlor Epoxide	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Methoxychlor	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
Toxaphene	22 U	38	22	1	08/26/25 19:57	8/22/25	
alpha-BHC	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
alpha-Chlordane	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
beta-BHC	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
delta-BHC	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
gamma-BHC (Lindane)	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	
gamma-Chlordane	0.96 U	1.9	0.96	1	08/26/25 19:57	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	75	10 - 159	08/26/25 19:57	
Tetrachloro-m-xylene	56	10 - 132	08/26/25 19:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
4,4'-DDE	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
4,4'-DDT	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Aldrin	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Chlordane	16 U	30	16	1	08/26/25 20:14	8/22/25	
Dieldrin	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endosulfan I	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endosulfan II	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endosulfan Sulfate	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endrin	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endrin Aldehyde	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Endrin Ketone	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Heptachlor	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Heptachlor Epoxide	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Methoxychlor	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
Toxaphene	68 U	120	68	1	08/26/25 20:14	8/22/25	
alpha-BHC	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
alpha-Chlordane	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
beta-BHC	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
delta-BHC	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
gamma-BHC (Lindane)	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	
gamma-Chlordane	3.1 U	6.1	3.1	1	08/26/25 20:14	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 159	08/26/25 20:14	
Tetrachloro-m-xylene	47	10 - 132	08/26/25 20:14	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.4 J	2.0	0.97	1	08/28/25 22:51	8/22/25	
4,4'-DDE	14	2.0	0.97	1	08/28/25 22:51	8/22/25	
4,4'-DDT	2.0 J	2.0	0.97	1	08/28/25 22:51	8/22/25	
Aldrin	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Chlordane	4.9 U	9.5	4.9	1	08/28/25 22:51	8/22/25	
Dieldrin	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endosulfan I	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endosulfan II	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endosulfan Sulfate	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endrin	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endrin Aldehyde	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Endrin Ketone	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Heptachlor	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Heptachlor Epoxide	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Methoxychlor	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
Toxaphene	22 U	38	22	1	08/28/25 22:51	8/22/25	
alpha-BHC	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
alpha-Chlordane	1.8 J	2.0	0.97	1	08/28/25 22:51	8/22/25	
beta-BHC	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
delta-BHC	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
gamma-BHC (Lindane)	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	
gamma-Chlordane	0.97 U	2.0	0.97	1	08/28/25 22:51	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 159	08/28/25 22:51	
Tetrachloro-m-xylene	58	10 - 132	08/28/25 22:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	38	20	1	08/26/25 21:31	8/22/25	
Aroclor 1221	30 U	76	30	1	08/26/25 21:31	8/22/25	
Aroclor 1232	22 U	38	22	1	08/26/25 21:31	8/22/25	
Aroclor 1242	20 U	38	20	1	08/26/25 21:31	8/22/25	
Aroclor 1248	21 U	38	21	1	08/26/25 21:31	8/22/25	
Aroclor 1254	20 U	38	20	1	08/26/25 21:31	8/22/25	
Aroclor 1260	20 U	38	20	1	08/26/25 21:31	8/22/25	
Aroclor 1262	20 U	38	20	1	08/26/25 21:31	8/22/25	
Aroclor 1268	20 U	38	20	1	08/26/25 21:31	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	93	10 - 138	08/26/25 21:31	
Tetrachloro-m-xylene	63	11 - 122	08/26/25 21:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	61 U	120	61	1	08/26/25 21:45	8/22/25	
Aroclor 1221	93 U	240	93	1	08/26/25 21:45	8/22/25	
Aroclor 1232	68 U	120	68	1	08/26/25 21:45	8/22/25	
Aroclor 1242	61 U	120	61	1	08/26/25 21:45	8/22/25	
Aroclor 1248	65 U	120	65	1	08/26/25 21:45	8/22/25	
Aroclor 1254	61 U	120	61	1	08/26/25 21:45	8/22/25	
Aroclor 1260	61 U	120	61	1	08/26/25 21:45	8/22/25	
Aroclor 1262	61 U	120	61	1	08/26/25 21:45	8/22/25	
Aroclor 1268	61 U	120	61	1	08/26/25 21:45	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 21:45	
Tetrachloro-m-xylene	50	11 - 122	08/26/25 21:45	

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	38	20	1	08/26/25 21:58	8/22/25	
Aroclor 1221	30 U	77	30	1	08/26/25 21:58	8/22/25	
Aroclor 1232	22 U	38	22	1	08/26/25 21:58	8/22/25	
Aroclor 1242	20 U	38	20	1	08/26/25 21:58	8/22/25	
Aroclor 1248	21 U	38	21	1	08/26/25 21:58	8/22/25	
Aroclor 1254	20 U	38	20	1	08/26/25 21:58	8/22/25	
Aroclor 1260	20 U	38	20	1	08/26/25 21:58	8/22/25	
Aroclor 1262	20 U	38	20	1	08/26/25 21:58	8/22/25	
Aroclor 1268	20 U	38	20	1	08/26/25 21:58	8/22/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 138	08/26/25 21:58	
Tetrachloro-m-xylene	63	11 - 122	08/26/25 21:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	7.6 U	15	7.6	1	08/27/25 07:10	8/25/25	
2,4,5-TP	6.9 U	15	6.9	1	08/27/25 07:10	8/25/25	
2,4-D	9.9 U	15	9.9	1	08/27/25 07:10	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	10 - 151	08/27/25 07:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.1 U	12	6.1	1	08/27/25 08:05	8/25/25	
2,4,5-TP	5.5 U	12	5.5	1	08/27/25 08:05	8/25/25	
2,4-D	7.9 U	12	7.9	1	08/27/25 08:05	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	10 - 151	08/27/25 08:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	6.9 U	14	6.9	1	08/27/25 08:23	8/25/25	
2,4,5-TP	6.2 U	14	6.2	1	08/27/25 08:23	8/25/25	
2,4-D	8.9 U	14	8.9	1	08/27/25 08:23	8/25/25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	31	10 - 151	08/27/25 08:23	



General Chemistry

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dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB01 (1-2)
Lab Code: R2510218-001

Service Request: R2510218
Date Collected: 08/11/25 09:50
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.8	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB02 (3-4)
Lab Code: R2510218-002

Service Request: R2510218
Date Collected: 08/11/25 09:55
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	82.5	Percent	-	-	1	08/29/25 10:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Sample Name: 14005 SB03 (5-6)
Lab Code: R2510218-003

Service Request: R2510218
Date Collected: 08/11/25 10:00
Date Received: 08/20/25 09:30

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	86.9	Percent	-	-	1	08/29/25 10:00	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl	Nitrobenzene-d5	p-Terphenyl-d14
		18 - 104	12 - 98	26 - 134
14005 SB01 (1-2)	R2510218-001	81	75	101
14005 SB02 (3-4)	R2510218-002	77	72	99
14005 SB03 (5-6)	R2510218-003	76	70	97
Method Blank	RQ2511156-01	64	58	85
Lab Control Sample	RQ2511156-02	68	59	85
Duplicate Lab Control Sample	RQ2511156-03	73	63	91

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

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

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511156-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270E
Prep Method: EPA 3546

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

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/25/25

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

Units:ug/Kg
Basis:Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec	% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount				
Pentachlorophenol (PCP)	8270E	1960	3330	59	2120	3320	64	36-138	8	30
Phenol	8270E	2180	3330	65	2320	3320	70	31-100	7	30
Pyridine	8270E	3650	6650	55	3880	6640	58	12-80	6	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
14005 SB01 (1-2)	R2510218-001	75	56
14005 SB02 (3-4)	R2510218-002	74	47
14005 SB03 (5-6)	R2510218-003	67	58
Method Blank	RQ2511157-01	69	56
Lab Control Sample	RQ2511157-02	89	67
Duplicate Lab Control Sample	RQ2511157-03	72	60

ALS Group USA, Corp.
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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
4,4'-DDE	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
4,4'-DDT	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Aldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Chlordane	4.2 U	8.3	4.2	1	08/26/25 19:05	8/22/25	
Dieldrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan I	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan II	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endosulfan Sulfate	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Aldehyde	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Endrin Ketone	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Heptachlor Epoxide	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Methoxychlor	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
Toxaphene	19 U	33	19	1	08/26/25 19:05	8/22/25	
alpha-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
alpha-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
beta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
delta-BHC	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-BHC (Lindane)	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	
gamma-Chlordane	0.84 U	1.7	0.84	1	08/26/25 19:05	8/22/25	

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

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

Analysis Method: 8082A
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 138	11 - 122
14005 SB01 (1-2)	R2510218-001	93	63
14005 SB02 (3-4)	R2510218-002	78	50
14005 SB03 (5-6)	R2510218-003	78	63
Method Blank	RQ2511157-01	78	58
Lab Control Sample	RQ2511157-04	81	68
Duplicate Lab Control Sample	RQ2511157-05	86	70

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511157-01

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC using Microwave Extraction

Analysis Method: 8082A
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1221	26 U	67	26	1	08/26/25 20:51	8/22/25	
Aroclor 1232	19 U	33	19	1	08/26/25 20:51	8/22/25	
Aroclor 1242	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1248	18 U	33	18	1	08/26/25 20:51	8/22/25	
Aroclor 1254	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1260	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1262	17 U	33	17	1	08/26/25 20:51	8/22/25	
Aroclor 1268	17 U	33	17	1	08/26/25 20:51	8/22/25	

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/26/25

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

Units:ug/Kg
Basis:Dry

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		10 - 151
14005 SB01 (1-2)	R2510218-001	56
14005 SB02 (3-4)	R2510218-002	46
14005 SB03 (5-6)	R2510218-003	31
Method Blank	RQ2511241-01	54
Lab Control Sample	RQ2511241-02	54
Duplicate Lab Control Sample	RQ2511241-03	62

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Analytical Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2511241-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	5.1 U	10	5.1	1	08/27/25 01:59	8/25/25	
2,4,5-TP	4.6 U	10	4.6	1	08/27/25 01:59	8/25/25	
2,4-D	6.6 U	10	6.6	1	08/27/25 01:59	8/25/25	

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

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QA/QC Report

Client: ALS Environmental - US
Project: 14005_Tacoma
Sample Matrix: Soil

Service Request: R2510218
Date Analyzed: 08/27/25

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:Dry

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

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Confirmation Results

Client: ALS Environmental - US
Project: 14005_Tacoma
Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2511241-02

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	5.1	17.4	16.4	6		1	08/27/25 02:17
2,4,5-TP	4.6	14.1	14.7	4		1	08/27/25 02:17
2,4-D	6.6	13.6	16.2	17		1	08/27/25 02:17

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Confirmation Results

Client: ALS Environmental - US
Project: 14005_Tacoma
Matrix: Soil

Service Request: R2510218
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2511241-03

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	19.2	18.7	3		1	08/27/25 02:36
2,4,5-TP	4.5	16.2	16.7	3		1	08/27/25 02:36
2,4-D	6.5	15.0	17.7	17		1	08/27/25 02:36