Coalburg Road , Birmingham, Alabama

ADEM VCP Site: 461-073-25048

Fact Sheet

A Voluntary Cleanup Program (VCP) Cleanup Plan amendment has been found to be technically adequate by the Alabama Department of Environmental Management (ADEM) for the 4401 Coalburg Road Site . The applicant is Suncap Property Group LLC. This fact sheet has been prepared to briefly advise the public of the principal legal and policy issues of the VCP.

I. VCP PROCESS

The VCP provides a mechanism for the implementation of a cleanup program that encourages applicants to voluntarily assess, remediate, and reuse rural and urban areas of actual or perceived contamination. The program does not relieve any "responsible person" for the liability for administrative, civil, or criminal fines or penalties which are otherwise authorized by law and imposed as a result of the illegal or unpermitted disposal of solid waste, hazardous waste, hazardous constituents, hazardous substances, petroleum products, and/or pollutants to the land, air, or waters of the State on an identified property. The program is designed to expedite the voluntary cleanup process and has been designed for entry at any stage of the cleanup process as long as all applicable criteria have been met up to the point of entry.

II. PROCEDURES FOR REACHING A FINAL DECISION

The ADEM is proposing to issue Suncap Property Group LLC , a final decision for the site remediation.

ADEM Admin Code R. 335-15-6-.02 requires that the public be given a 30- day comment period from the date of the notice. The comment period will begin on November 18,2026 which is the date of publication of the public notice in major local newspaper(s) of general circulation and will end on December 18 , 2026 .

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Persons wishing to comment may do so, in writing or by email, to the Department's named contact above within 30 days following the publication date of this notice. In order to affect final decisions, comments must offer technically substantial information that is applicable to the proposed plan.

ADEM will consider all comments received during the comment period while making a final decision on this issue. When the Department makes its final decision, notice will be given to the applicant and each person who has submitted comments or requested notice of the final decision. Comments on the VCP activities should be submitted to the Alabama Department of Environmental Management and be received by 5:00 p.m. on December 18,2026.

III. FACILITY DESIGN

SunCap Property Group LLC has completed Site Investigation activities under the VCP program at 4401 Coalburg Road Site located at 4401 Coalburg Road , Birmingham, Jefferson County, Alabama 3520. The site consist of 32.3 acres Coordinates for the site are 33°34’01°N and 86°50’30°W

Contaminants found on the site are the following examples: COPCs in soil include 1methylnaphthalene, Arsenic and Thallium. Contaminants in groundwater include antimony, arsenic, barium, beryllium, cadmium, total chromium, copper, lead, mercury, selenium and thallium The property has an extensive history of mining-related operations, with documented activities beginning as early as 1907 and continuing through the 1960s. During this period, the site functioned primarily as a staging and stockpiling area for coal mine tailings generated by the former Sayreton Mine. Following the cessation of mining activities in the late 1960s, the property has remained inactive and undeveloped, and no additional mine spoils or related materials have been generated or deposited on-site. As of 2026, a single remaining stockpile of legacy tailings is present within the southwestern portion of the Site.

IV. TECHNICAL CONTACT

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REVISED VOLUNTARY CLEANUP WORK PLAN

4401 Coalburg Road
Birmingham, Alabama 35207
ADEM VCP Site ID: 461-073-25048

Prepared For:

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14 January 2026
Revised 26 October 2026
350120001

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1.0 INTRODUCTION

On behalf of SunCap Development Group (SunCap), Langan Engineering and Environmental Services, LLC (Langan) has prepared this Revised Voluntary Cleanup Work Plan for the approximately 32.3-acre property located at 4401 Coalburg Road, Birmingham, Jefferson County, Alabama (the Site). A United States Geological Survey (USGS) Site Location Map is included as Figure 1. This revised Cleanup Work Plan updates the original 14 January 2026 plan to include a Human Health Risk Assessment (HHRA) for determining which fill may be used in the cap.

SunCap submitted a Voluntary Cleanup Program (VCP) application to the Alabama Department of Environmental Management (ADEM) on 18 September 2025 to enroll the Site in the VCP. The Site was approved by ADEM on 22 October 2025 and provided Facility ID No. 461-073-25048. The application approval is provided as Appendix A. As outlined in the VCP Application, SunCap is identified as a non-responsible party and did not cause or contribute to any chemicals of potential concern (COPCs) detected during the recent site investigations. SunCap has taken all necessary steps to enroll the property in the Alabama VCP and to obtain regulatory concurrence on the site characterization required to address these COPCs. The facility, also referred to by its alias "4401 Coalburg Road", does not currently possess an EPA Facility ID.

A Voluntary Cleanup Plan Assessment Report (VCPAR) was submitted to ADEM on 14 January 2026 and is pending ADEM approval. The VCPAR documents the completed site characterization activities in accordance with applicable regulatory guidance documents. A summary of the prior investigations is provided in Sections 3.0 and 4.0 below. In short, the COPCs identified at the Site during site characterization activities include one polyaromatic hydrocarbon (PAH), 1-methylnaphthalene, and two metals, arsenic and thallium, in soil only. The proposed cleanup plan to address the COPCs is presented in Section 5.0.

2.0 SITE DESCRIPTION

The Site consists of approximately 32.3 acres and is located at 4401 Coalburg Road in Birmingham, Jefferson County, Alabama. The Site is also identified as Jefferson County parcel number 22 00 10 3 000 001.001. The Site layout is shown on Figure 2 along with the samples which were collected for the VCPAR. The Site is owned by SAIIA Coalburg LLC.

The property has an extensive history of mining-related operations, with documented activities beginning as early as 1907 and continuing through the 1960s. During this period, the Site functioned primarily as a staging and stockpiling area for coal mine tailings generated by the former Sayreton Mine. Following the cessation of mining activities in the late 1960s, the property has remained inactive and undeveloped, and no additional mine spoils or related materials have been generated or deposited on-site. As of 2025, a single remaining stockpile of legacy tailings is present within the southwestern portion of the Site.

Ownership records show the following timeline:

- 2003–2004: Joint ownership by SAIIA Construction LLC, Best Coal Inc., and K & H Development Co.
- 2005–2007: Ownership transitioned to SAIIA Construction LLC and K & H Development Co.
- 2008–2011: SAIIA Construction LLC became the sole owner.
- 2012–Present: The property has been owned by SAIIA Coalburg LLC.

According to the Jefferson County Tax Assessor, the Site is classified as "910 – Undeveloped" and unused land. The property is zoned for industrial use and is surrounded by a mix of forested land and industrial buildings.

SunCap proposes to redevelop the Site with a warehouse (i.e., non-residential use). This concept is preliminary and subject to change, but residential site use is not being considered.

3.0 SUMMARY OF PREVIOUS INVESTIGATIONS

Langan was provided with the following prior reports associated with the Site:

- Phase I ESA, prepared by Spectrum Environmental Services, Inc., July 2002;
- Report of Geotechnical Exploration, prepared by Goodwyn, Mills, and Cawood, Inc (GM&C), 9 April 2008; and,
- Report of Preliminary Geotechnical Evaluation, prepared by Contour Engineering, 29 January 2019.

Langan also identified various correspondence and the following prior reports from the ADEM eFile database pertaining to the Site's involvement in the Voluntary Cleanup Plan (VCP) and a Limited Phase II Assessment:

- Phase II Letter Report prepared by Terracon Consultants, Inc., June 1998;
- Phase II ESA prepared by Davidson Howard, LLC, April 2004;
- VCP Application to Participate, prepared by Daniel Payne Drive LLC & Saiia Construction LLC, 8 June 2009;
- VCP Application Assessment Plan, prepared by GM&C, 3 August 2009; and,
- Limited Phase II Investigation VCP Assessment, prepared by GM&C, March 2011.

Additional documents included site plans, permits, and surveys. Copies of the aforementioned reports and documents were provided in the VCPAR**.**

Voluntary Cleanup Program

An application to participate in the ADEM VCP was submitted for an approximately 125-acre property under the name Daniel Payne Drive & Coalburg Road property, which includes the Site and additional properties to the east of the Site.

An Assessment Plan was prepared to support the application to participate in the ADEM VCP and included the July 2002 Phase I ESA, April 2004 Phase II ESA, and June 1998 Phase II Letter Report. The April 2004 Phase II ESA and June 1998 Phase II Letter Report were associated with the southeast portion of the larger 125-acre property, located approximately 3,000 feet southeast of the Site.

Based on these reports, 16 surficial soil samples, 24 passive soil vapor samples, one surface water sample, and one groundwater sample were proposed in the assessment plan. Of the proposed sampling locations, two superficial soil samples with expanding testing and two passive soil vapor samples were proposed in the southeast and central portions of the Site. Additionally, GM&C identified the central portion of the Site as an area of concern due metals in soil media originating from mine spoils.

A limited Phase II Investigation was performed in 2011 of an approximately 25-acre area, which included the Site and was located in the northwestern portion of the previously indicated 125-acre property. GM&C collected surface water and sediment samples at the northeastern pond

adjoining the Site and composite surficial soil samples at six locations across the 25-acre area, five of which were within the Site. Samples were analyzed for metals including Resource Conservation and Recovery Act (RCRA) 8 metals, aluminum, manganese, and iron and were compared to the ADEM Risk Based Corrective Action (ARBCA) screening levels.

Arsenic was detected at concentrations ranging from 26 to 269 parts per million (ppm) in soil at the Site. Five additional samples were collected on the western portion of the Site "in an area thought to be never-used for spoil storage" for analysis of arsenic. Arsenic concentrations were below method detection limits. Detected metal concentrations in surface water samples from the eastern adjoining pond were below ARBCA screening levels, except for manganese which was detected at 2.1 milligrams per liter (mg/L) which exceeded the 0.088 mg/L ARBCA Tap Water screening level. Due to lack of established ARBCA screening levels for sediment, sediment samples were compared to United States Environmental Protection Agency (USEPA) Region 5 Ecological Screening Values. Detected concentrations of arsenic, chromium, and lead exceeded USEPA Ecological Screening Values.

Due to metals exceedances in soil and sediment at the Site, GM&C recommended capping the 25-acre area using compacted clay topped with gravel, paving, and the proposed building to mitigate the risk of direct contact exposure.

The Limited Phase II Investigation was approved by ADEM in June 2011. The approval letter indicated that a cleanup plan should be prepared to address the identified contamination and should be submitted to ADEM for approval. However, according to a site status letter in August 2016, no cleanup plan was submitted, and the Daniel Payne Drive & Coalburg Road Property was deactivated as a Brownfields Site in June 2016. The previous Site owners indicated the Site was deactivated as there were no future plans for assessment or development anticipated.

Geotechnical Explorations

The Site is situated within the Pottsville Geologic Formation, which consists of sandstone, shale, and siltstone with interbedded coal seams. The following subsurface observations were made during geotechnical explorations conducted in 2008 and 2019:

- Twenty-eight soil borings were advanced at the Site at depths up to 60 feet below ground surface (bgs) and eight test pits were excavated to depths up to 17 feet bgs.
- Fill was observed to depths up to 57 feet bgs and included underground mine spoils consisting of clayey and silty sands with gravel fragments (coal, shale, and sandstone), as well as residual soils consisting of sandy clays, sandy silts, and clayey sands.
- Groundwater was not encountered in soil borings or test pits advanced for the previous geotechnical explorations. Isolated zones of moisture were identified in two borings at depths of approximately 9 and 25 feet bgs.

Previous Investigation Summary

Previous investigations conducted at the Site have identified fill, including underground mine spoils and foundry sand/slag debris, to depths up to 57 feet bgs. Arsenic was identified in surficial soil at the Site at concentrations above ARBCA screening levels.

Previous subsurface investigations identified isolated zones of moisture at various depths in only two borings. The remaining borings, which were advanced to approximately 60 feet bgs, did not encounter groundwater. In addition, no laterally continuous zone of saturation was observed, as would typically be expected if a water table or aquifer were present within the fill materials. Based on these findings, groundwater has not been encountered at the Site.

4.0 SITE ASSESSMENT ACTIVITIES

Langan completed a site assessment at the Site in October and November 2025. The scope of work completed during site assessment activities included the following:

- Collection of 22 soil samples from 10 borings (up to four depth intervals at each location) for analysis of Target Analyte List (TAL) metals and PAHs to determine if former coal mining operations have impacted soil at the Site;
- Collection of 4 water samples for analysis of total TAL metals and PAHs to determine if former coal mining operations impacted groundwater at the Site; and,
- Field screening of soil vapor monitoring points to assess the potential presence of methane.

Langan conducted sampling of the soil borings, groundwater monitoring wells, and soil vapor points in accordance with Alabama Environmental Investigation and Remediation Guidance (AEIRG) requirements as applicable. The soil borings, groundwater monitoring wells, and soil vapor points were installed by an Alabama-licensed driller. Additional site assessment activities and results discussion, including COPCs, are discussed in Sections 4.1 through 4.3 below and included in the VCPAR.

4.1 Soil Investigation and Results

Soil Investigation

On 10 October 2025, Langan collected 22 soil samples from 10 soil borings. The soil borings were advanced to refusal or 40 feet bgs, whichever was encountered first. Shallow refusal was encountered between 9 and 33 feet bgs at SB-04, SB-05, SB-07, SB-08, SB-11 and SB-12. Drilling efforts at SB-11 and SB-12 were abandoned after multiple shallow refusals were encountered. At each soil boring location, Langan recorded odors and visual evidence of staining, and screened the soil samples for hydrocarbon vapors using an organic vapor analyzer (OVA) equipped with a Photoionization Detector (PID).

As the COPCs associated with mining operations do not readily lend themselves to visual, olfactory, or PID detection, the samples designated to be collected from the areas of greatest observed impacts were generally collected directly below the end of mine spoil material when this material ended. Samples were not collected from material that was mostly composed of visibly identifiable mining spoils. In borings where spoils represented the majority of material encountered, samples were collected from the six-inch interval directly above the spoils. If native material was encountered below spoil layers, a sample was collected from the six-inch interval directly below native/spoil interface.

The soil samples were analyzed for TAL metals via USEPA Method 6020 and PAHs via USEPA Method 8270 by Eurofins Environmental Testing, LLC (Eurofins).

Soil Results

A summary of the soil investigation findings is presented below:

- Mine spoils were observed from ground surface to approximately 40 feet bgs on the central and eastern portions of the Site. Sporadic areas of spoils were encountered on the western portion of the Site.
- No field indications of environmental impacts (i.e. staining, odors, and/or elevated PID readings) were observed.

Based on the historical and planned future use of the Site, the soil results were screened against the USEPA Regional Screening Levels (RSLs) for Industrial Soil utilizing the specified target hazard quotient (THQ) and target cancer risk (TR). Concentrations of PAHs and/or metals did not exceed the RSLs, except for 1-methylnaphthalene, arsenic, and thallium. 1-methylnaphthalene exceeded the Industrial Soil RSL of 0.077 milligrams per kilogram (mg/kg) in five soil samples with a maximum detected concentration of 0.76 mg/kg. Arsenic exceeded the Industrial Soil RSL of 3 mg/kg in 20 soil samples with a maximum detection of 230 mg/kg. Thallium exceeded the Industrial Soil RSL of 1.2 mg/kg in three soil samples with a maximum detection of 2.9 mg/kg.

Based on these exceedances, 1-methylnaphthalene, arsenic, and thallium were identified as COPCs in soil. As part of the VCPAR, these COPCs were included in a Human Health Risk Assessment (HHRA) which was completed in accordance with ADEM's Risk Management (RM) – 1 guidelines. Refer to Section 4.4 for more information.

4.2 Groundwater Investigation and Results

Groundwater Investigation

Following the completion of soil sampling activities, Langan supervised the conversion of SB-1 and SB-3 into temporary monitoring wells TMW-1 and TMW-3 because isolated zones of moisture were encountered in those borings. No moisture was encountered in SB-2 before the target depth, so the boring was advanced to 50 feet bgs in an attempt to find groundwater in a deeper interval. Although isolated zones of moisture were not identified down to 50 feet bgs, a temporary well (TMW-2) was conservatively installed.

During field activities, Langan also identified two previously installed temporary wells (GMW-2 and GMW-4) from an earlier site investigation. Both wells were in suitable condition for reuse and were incorporated into this initial groundwater assessment.

The temporary wells were installed for the purpose of evaluating potential groundwater impacts associated with historical mine-spoil stockpiling. As documented on the boring logs included in the VCPAR, saturated soils or cuttings indicative of a groundwater zone were not encountered. Instead, only isolated, discontinuous moisture zones were observed, which are not characteristic of a water-bearing unit.

The existing wells, GMW-2 and GMW-4, were gauged, and their total depths indicated that they were screened across intervals comparable to those of TMW-1 and TMW-3. Because TMW-2 and TMW-4 did not accumulate sufficient water for sampling, Langan proceeded to develop the existing wells and obtain groundwater samples from each. As summarized in the table below, only limited water volumes were present in the temporary monitoring wells; however, the yields were adequate to allow for sample collection.

Well ID	Total Depth (ft bgs)	Screened Interval (feet bgs)	Depth to Water (ft bgs)
TMW-1	37	27-37	34.05
TMW-2	50	40-50	DRY
TMW-3	33	23-33	29.1
GMW-2	34	24-34	32
GMW-4	33	23-33	31.4

Based on the limited volume of water and sufficiently low recharge rates, the temporary monitoring wells were sampled using "evacuate and recover" sampling techniques. In this approach, the wells were pumped dry and samples were obtained from the water that subsequently recharged into the well. Although this technique enabled sample collection from the low-yield wells, the resulting turbidity levels were elevated and may have influenced the analytical results. In accordance with ARBCA guidance, the groundwater samples were collected without filtration.

Water samples were placed in laboratory-supplied containers, immediately stored in a cooler with ice, and transported to Eurofins under chain-of-custody procedures. The water samples were analyzed for TAL metals via USEPA Method 6020 and PAHs via USEPA Method 8270 by Eurofins.

Groundwater Results

Utilizing the specified THQ and TH values, groundwater samples were conservatively screened against the Tapwater RSLs and the USEPA Maximum Contaminant Levels (MCLs). PAHs did not exceed either the Tapwater RSLs or MCLs. Eighteen metals exceeded their respective Tapwater RSLs; however, only eleven of those metals exceeded their corresponding MCLs.

Screening the analytical results against Tapwater RSLs and MCLs represents a conservative assessment, as groundwater is not utilized as a potable water supply at the Site or in the surrounding vicinity. Further, due to the limited recharge in each well, well development and purging activities were limited, resulting in elevated turbidity in all collected samples. In accordance with ADEM guidance, groundwater samples were not filtered; therefore, the results reflect total (unfiltered) concentrations and may overestimate true dissolved-phase groundwater conditions.

Additionally, isolated moisture zones were encountered in some soil borings during this and previous investigations; however, the majority of borings did not identify groundwater to depths of approximately 60 feet bgs. A laterally continuous water table (characteristic of a water-bearing unit within fill material) was not observed at the Site.

4.3 Soil Vapor Investigation and Results

Soil Vapor Investigation

Langan installed three paired exterior soil vapor monitoring points (VP-1, VP-2, and VP-3) at locations across the Site on 2 November 2025 to evaluate the presence of methane in shallow soil gas. Points with an "A" suffix were installed to a depth of approximately 5 feet bgs, while

points with a "B" suffix were installed to a depth of 10 feet bgs. Paired monitoring points consisted of one point installed to 5 feet bgs and one installed to 10 feet bgs. The soil vapor monitoring points consisted of AMS, Inc. (AMS) dedicated gas vapor probe tips connected to an appropriate length of ¼-inch inner diameter low-density polyethylene (LDPE) tubing. Sand was used to backfill each monitoring location to within 1 foot of the ground surface. Each point was finished with one foot of hydrated bentonite to complete a seal.

Each soil vapor monitoring point was left in place to equilibrate for at least 48 hours after installation. Prior to the collection of field parameters, shut-in tests were performed as a quality control measure to ensure no ambient air was drawn into the sampling equipment.

The shut-in test was performed after all tubing connections had been made to the sample canister. Langan field staff connected a vacuum gauge to the sample tubing apparatus and used a handheld vacuum pump to pull a vacuum of between 7.5 and 15 inches of mercury. While holding the vacuum, the field staff monitored the pressure for a period of one minute to confirm the amount of vacuum did not decrease more than 10% from the starting point. If the vacuum decreased more than 10%, the test was repeated after inspecting and testing (using the vacuum hand pump) each valve and coupling on the sampling train. Langan field staff checked each valve and coupling to confirm they were secure and tightened them as necessary.

Prior to screening, each exterior soil vapor extraction point was purged using an SKC Universal Low Flow Sampling pump at a rate of 200 milliliters per minute (mL/min) to evacuate a minimum of three sample tubing volumes prior to field screening. After purging was complete, a calibrated Landtec GEM-5000 gas meter was used to conduct soil vapor screening, recording oxygen, carbon dioxide, carbon monoxide, hydrogen sulfide, and methane, recording once at 0 seconds, 30 seconds, 1 minute and every minute until ten minutes. Methane was not detected in the soil vapor monitoring points.

Soil Vapor Results

Although the identified COPCs are not considered a source of soil vapor contamination, vapor monitoring points were installed to assess the potential presence of methane. Six soil vapor points (VP-1A, VP-1B, VP-2A, VP-2B, VP-3A, and VP-3B) were screened for methane and fixed gases.

Methane was not detected in any of the soil vapor monitoring points. Hydrogen sulfide concentrations ranged from 1.0 to 4.0 ppm.

4.4 Human Health Risk Assessment

As part of the VCPAR, Langan evaluated potential human and ecological receptors at the Site under both the current and anticipated future site use scenarios. The evaluation determined that current and future ecological receptor pathways associated with the Site are considered incomplete.

An HHRA was conducted to further evaluate potential risks to human receptors. The HHRA identifies potentially complete exposure pathways to human receptors and estimates the

associated health risk and hazards based on reasonable maximum exposure (RME) point concentrations of COPCs. Three receptor populations were evaluated in the HHRA, and include:

- Construction workers;
- Commercial/Industrial workers; and,
- Trespassers.

Construction workers, commercial/industrial workers, and trespassers all represent potential future receptors; no other potential human receptor populations were identified. A hypothetical residential receptor was not identified because the Site is zoned industrial and there is no anticipated change in the zoning.

Potentially complete exposure pathways for the construction worker include incidental ingestion of soil, dermal exposure to soil, and inhalation of dust-borne particulates. Potentially complete exposure pathways for the commercial/industrial worker include contact with surface soil (ground surface to one-foot bgs), incidental ingestion of soil, dermal exposure to soil, and inhalation of dust-borne particles. Potentially complete exposure pathways for the trespasser include incidental ingestion of surface soil, dermal exposure to surface soil, and inhalation of dust-borne particulates.

The results of the risk assessment found:

- Groundwater water is not a media of concern.
- No unacceptable non-cancer hazards or cancer risks to the trespasser.
- No unacceptable cancer risks are posed to the construction worker.
- Exceedances of the non-cancer threshold and cancer risks for the commercial/industrial worker from the 0 to 1 ft bgs interval. These results suggest potential unacceptable hazards to this receptor from the surface soil intervals.
- Exceedances of the non-cancer threshold for the construction worker receptor at the 0 to 15 ft bgs soil interval. These results suggest potential unacceptable hazards to this receptor in the absence of an appropriate Health and Safety Plan (HASP) and exposure controls during construction.

The cleanup work plan addressing the risks is presented in Section 5.0 below.

5.0 VOLUNTARY CLEANUP WORK PLAN

The following section describes Langan's selection of a remedial plan for the Site. This remedial plan has been created to address the risks identified in the HHRA. As detailed below, the risks identified to the commercial/industrial worker receptor will be addressed via engineering controls (capping) and institutional controls (environmental covenant requiring cap maintenance). The risks to the construction worker receptor will be addressed through institutional controls (environmental covenant requiring a Materials Management Plan, site-specific HASP, and exposure controls during construction).

5.1 Site Work Permits and Plans

Site work permits and plans will be obtained by the general contractor for the Site prior to the commencement of construction activities. SunCap is proposing to redevelop the Site with a warehouse (i.e., non-residential use). This concept is preliminary and subject to change, but residential site use is not being considered.

5.2 Management of Impacted Soil and Other Materials

Langan prepared a Materials Management Plan (MMP) to support the redevelopment of the Site. The MMP provides procedures for management of materials (e.g., soil, debris, dewatering fluids, etc.) that may be disturbed as part of future construction and utility maintenance at the Site. The MMP includes (but is not limited to) direction on the following topics:

- Preparation of a site-specific HASP;
- Handling of materials during excavation, grading, impervious surface installation, and other intrusive earthwork;
- Storm water and erosion control;
- Vapor, dust, and nuisance control;
- Construction and implementation of a decontamination pad; and,
- Off-site disposal of soil, fluid, regulated construction and demolition wastes, hazardous materials, and asbestos containing materials (ACM).

The MMP is included as Appendix B.

5.3 Engineering Controls - Sitewide Cap

The Site will be capped with either hardscape (i.e. buildings and/or pavement) or landscaped areas consisting of a demarcation barrier and at least 18-inches of clean fill or fill determined through an HHRA to pose no unacceptable risk, to prevent contact with soil that may be impacted with COPCs. In this way, the exposure pathways for the commercial/industrial worker receptor will be incomplete and the risk mitigated. The attached MMP also documents the ADEM-approved HHRA and well abandonment.

After any intrusive construction, the ground surface will be restored with either hardscape or landscape, as appropriate. In landscaped areas, an engineered cap consisting of at least 18-inches of clean fill will be placed over the existing Site soil. The extent of the engineered cap is shown

on Figure 4. In landscaped areas, a demarcation barrier will be placed between the existing Site soil and clean fill. The application of the clean fill material will be performed in accordance with the geotechnical and engineering designs for the Site. Management of soil fill and import of soil fill is discussed in the MMP (Appendix B).

5.4 Institutional Controls - Environmental Covenant

Three COPCs (1-methylnaphthalene, arsenic, and thallium) were detected in Site soils at concentrations exceeding the applicable Industrial Soil RSLs. As a result, residential use of the property will be restricted through an environmental covenant to be recorded for the Site. The covenant will also require that any future intrusive activities involving soil disturbance or handling be conducted in accordance with a site-specific MMP. The MMP, which will be prepared prior to the start of construction activities, will outline procedures for worker health and safety, as well as proper management, handling, and disposal of soil and groundwater. The covenant will also require restoration of the cap following intrusive activities. In this way, the exposure pathways for the construction worker receptor will be incomplete and the risk mitigated.

A laterally continuous groundwater table was not identified at the Site. Although isolated moisture zones were encountered, a shallow aquifer was not observed. The absence of a laterally continuous groundwater table and the isolated nature of observed moisture zones limit the potential for contaminant migration. The exceedances reported in groundwater samples collected from temporary monitoring wells are likely attributable to elevated turbidity during evacuate-and-recover sampling rather than to dissolved-phase metal concentrations. The Site and surrounding properties are within the service area of the public water supply, the Birmingham Water Works, and the Site will be connected to the public water supply. Because groundwater is not used as a potable source at the Site or in the surrounding area, and because no aquifer was encountered, the groundwater exposure pathway is considered incomplete. Regardless, as a conservative measure, groundwater use will be restricted in the environmental covenant.

5.5 Proposed Cleanup Schedule

Pending ADEM approval of the VCPAR and Cleanup Work Plan by the end of March 2026, SunCap anticipates commencing warehouse construction in April 2026. According to the current schedule, the warehouse is expected to be completed by February 2027, which will include installation of the protective cap (either hardscape or 18-inches of clean fill in landscaped areas). Following completion of the warehouse, SunCap will prepare an environmental covenant following Alabama's Uniform Environmental Covenants Act (UECA), ADEM Administrative Code 335-5.

5.6 Certificate of Compliance

Upon completion of activities outlined in this Voluntary Cleanup Work Plan, Langan, on behalf of SunCap, will submit a Certificate of Compliance to the ADEM. Upon submission of the Certificate of Compliance, Langan will request that the ADEM issue a Conditional Letter of Concurrence for the property.

6.0 LIST OF CONTACTS

Below is the list of contacts associated with the preparation of this Voluntary Cleanup Work Plan:

Site Owner/Remediator

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Consultant Responsible for Submittal of Voluntary Cleanup Work Plan:

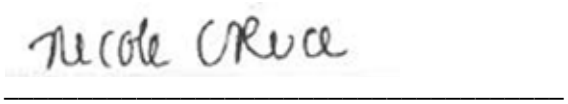
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7.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

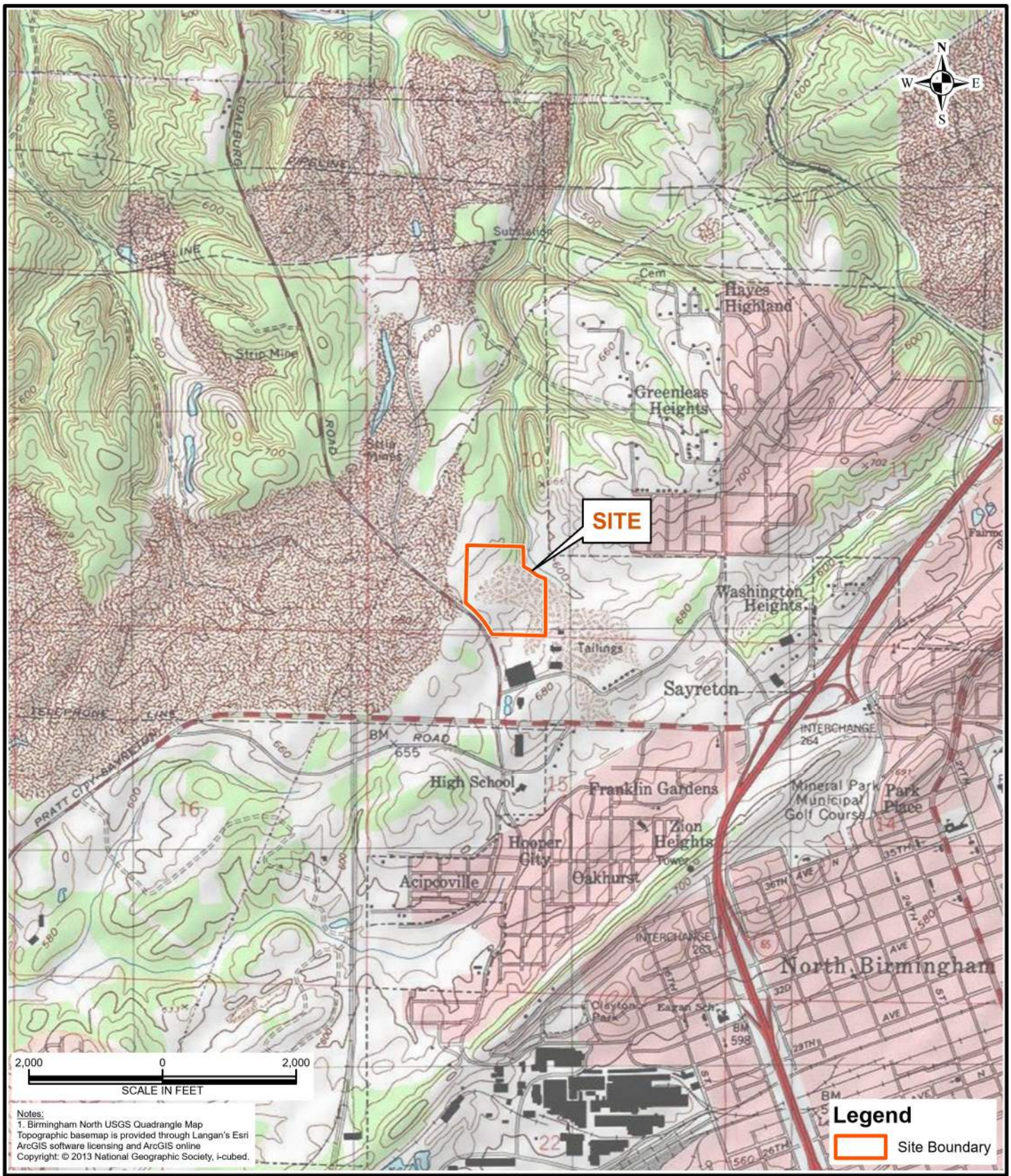


Thomas Antonacci
Senior Project Manager



Nicole Rice
Associate Principal

Figures



Notes:
1. Birmingham North USGS Quadrangle Map Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2013 National Geographic Society, i-cubed.

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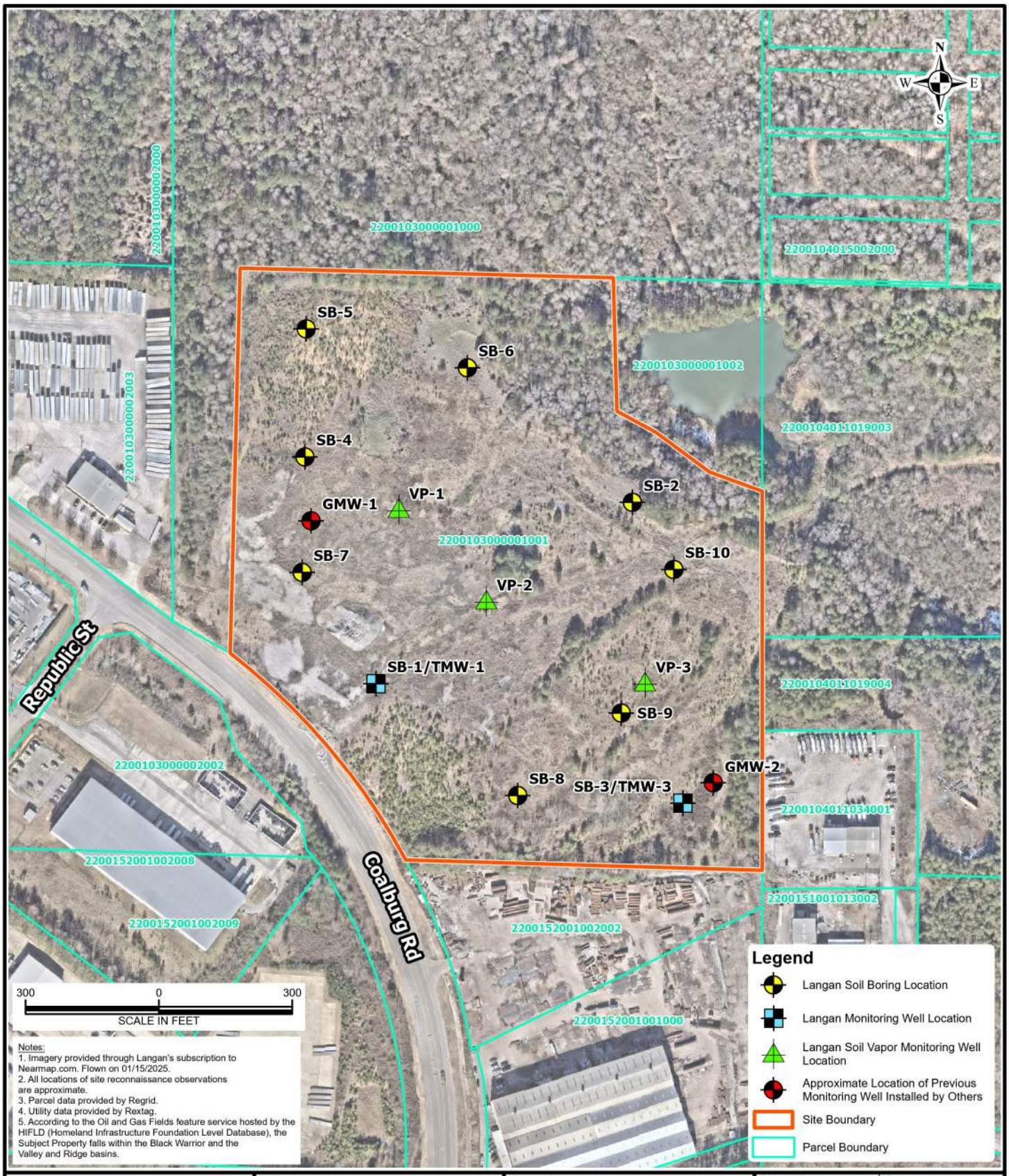
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Project	Figure Title	Project No.	Figure
4401 COALBURG ROAD BIRMINGHAM JEFFERSON COUNTY AL	**SITE LOCATION MAP**	350120001 Date 12/23/2025 Scale 1" = 2,000 feet Drawn By LB	1

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Notes:
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2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Regrid.
4. Utility data provided by Rextag.
5. According to the Oil and Gas Fields feature service hosted by the HIFLD (Homeland Infrastructure Foundation Level Database), the Subject Property falls within the Black Warrior and the Valley and Ridge basins.

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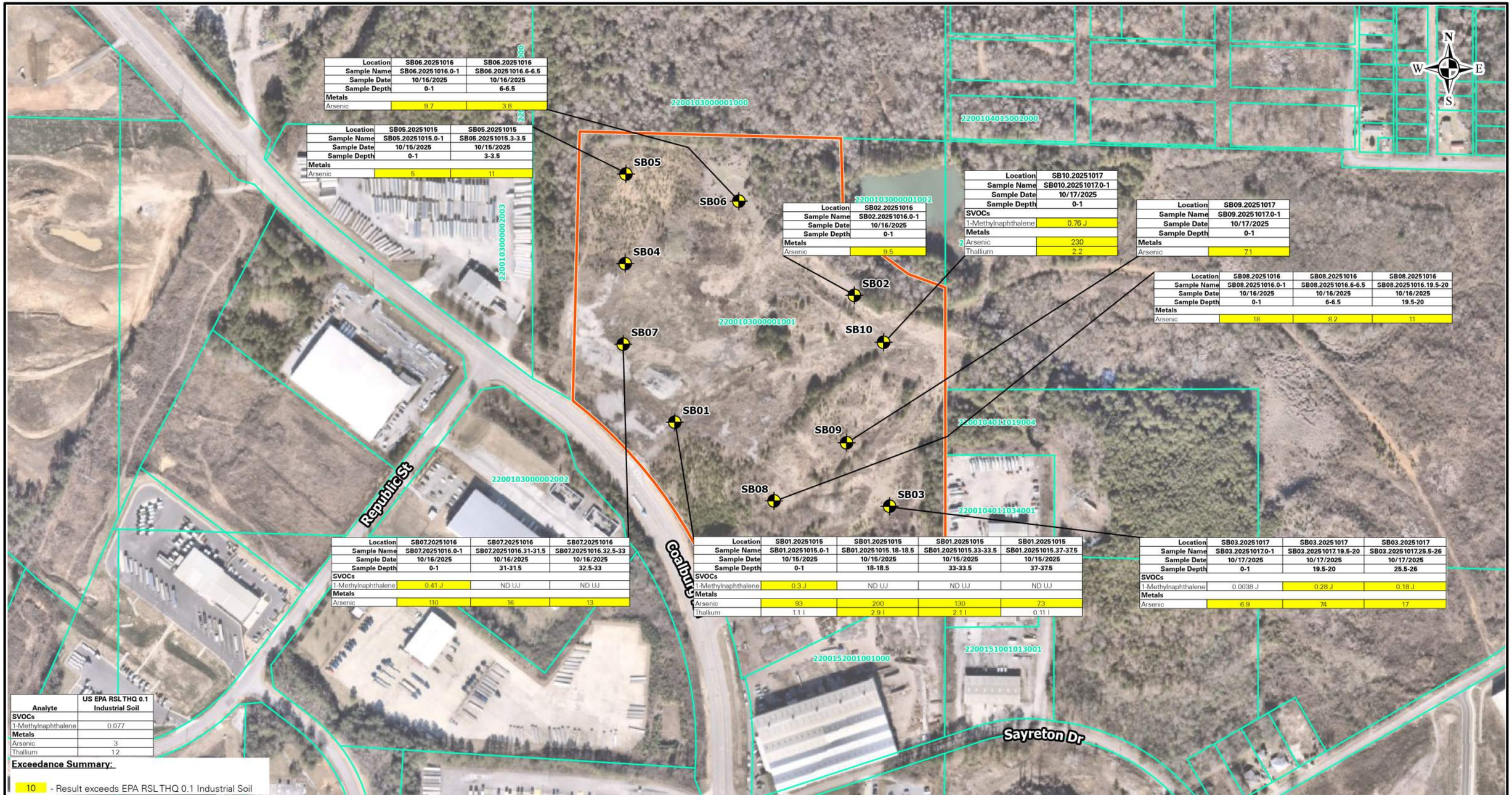
Project
4401 COALBURG ROAD
BIRMINGHAM
JEFFERSON COUNTY AL

Figure Title
SAMPLE LOCATION MAP

Project No.	350120001
Date	9/18/2025
Scale	1" = 300 feet
Drawn By	LB
Figure	2

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Location	SB06.20251016	SB06.20251016
Sample Name	SB06.20251016.0-1	SB06.20251016.6-6.5
Sample Date	10/16/2025	10/16/2025
Sample Depth	0-1	6-6.5
Metals		
Arsenic	9.7	3.8

Location	SB05.20251015	SB05.20251015
Sample Name	SB05.20251015.0-1	SB05.20251015.3-3.5
Sample Date	10/15/2025	10/15/2025
Sample Depth	0-1	3-3.5
Metals		
Arsenic	5	11

Location	SB02.20251016
Sample Name	SB02.20251016.0-1
Sample Date	10/16/2025
Sample Depth	0-1
Metals	
Arsenic	9.5

Location	SB10.20251017
Sample Name	SB010.20251017.0-1
Sample Date	10/17/2025
Sample Depth	0-1
SVOCs	
1-Methylnaphthalene	0.76 J
Metals	
Arsenic	230
Thallium	2.2

Location	SB09.20251017
Sample Name	SB09.20251017.0-1
Sample Date	10/17/2025
Sample Depth	0-1
Metals	
Arsenic	7.1

Location	SB08.20251016	SB08.20251016	SB08.20251016
Sample Name	SB08.20251016.0-1	SB08.20251016.6-6.5	SB08.20251016.19.5-20
Sample Date	10/16/2025	10/16/2025	10/16/2025
Sample Depth	0-1	6-6.5	19.5-20
Metals			
Arsenic	18	8.2	11

Location	SB07.20251016	SB07.20251016	SB07.20251016
Sample Name	SB07.20251016.0-1	SB07.20251016.31-31.5	SB07.20251016.32.5-33
Sample Date	10/16/2025	10/16/2025	10/16/2025
Sample Depth	0-1	31-31.5	32.5-33
SVOCs			
1-Methylnaphthalene	0.41 J	ND UJ	ND UJ
Metals			
Arsenic	110	16	13

Location	SB01.20251015	SB01.20251015	SB01.20251015	SB01.20251015
Sample Name	SB01.20251015.0-1	SB01.20251015.18-18.5	SB01.20251015.33-33.5	SB01.20251015.37-37.5
Sample Date	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Sample Depth	0-1	18-18.5	33-33.5	37-37.5
SVOCs				
1-Methylnaphthalene	0.3 J	ND UJ	ND UJ	ND UJ
Metals				
Arsenic	93	200	130	73
Thallium	1.1 I	2.9 I	2.1 I	0.11 I

Location	SB03.20251017	SB03.20251017	SB03.20251017
Sample Name	SB03.20251017.0-1	SB03.20251017.19.5-20	SB03.20251017.25.5-26
Sample Date	10/17/2025	10/17/2025	10/17/2025
Sample Depth	0-1	19.5-20	25.5-26
SVOCs			
1-Methylnaphthalene	0.0038 J	0.28 J	0.18 J
Metals			
Arsenic	6.9	74	17

Analyte	US EPA RSL THQ 0.1 Industrial Soil
SVOCs	
1-Methylnaphthalene	0.077
Metals	
Arsenic	3
Thallium	1.2

Exceedance Summary:

10 - Result exceeds EPA RSL THQ 0.1 Industrial Soil

300 0 300

SCALE IN FEET

Legend

- Langan Soil Boring Location
- Site Boundary
- Parcel Boundary

Notes:
1. All concentrations mg/kg
2. Imagery provided through Langan's subscription to Nearmap.com. Flown on 01/15/2025.
3. All locations of site reconnaissance observations are approximate.
4. Parcel data provided by Regrid.
5. Utility data provided by Rextag.

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Project
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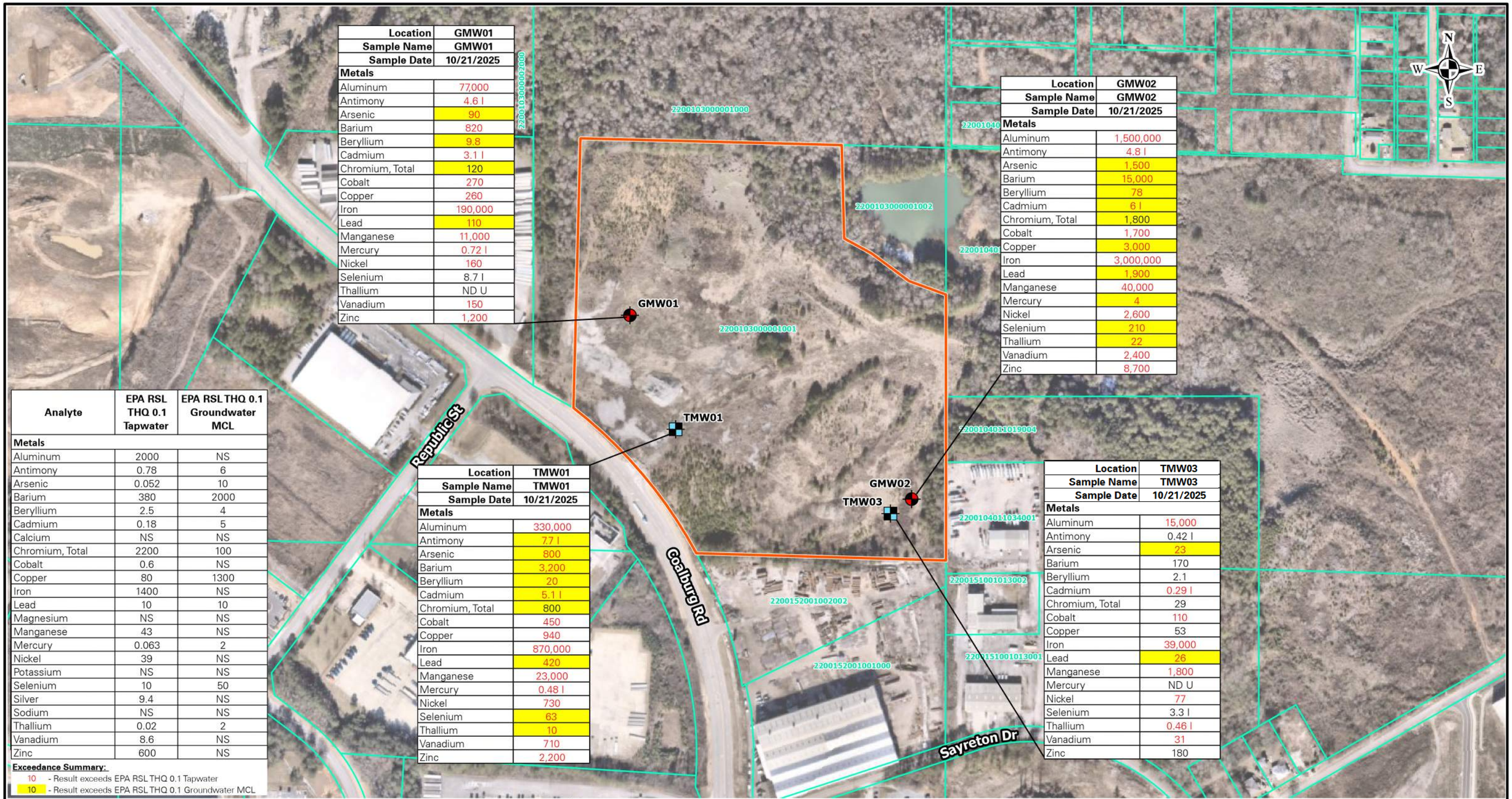
Drawing Title
SOIL ANALYTICAL RESULTS

Project No. 350120001
Date 12/23/2025
Scale 1" = 300 feet
Drawn By RDB

Figure **3A**

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Location	GMW01
Sample Name	GMW01
Sample Date	10/21/2025
Metals	
Aluminum	77,000
Antimony	4.6 I
Arsenic	90
Barium	820
Beryllium	9.8
Cadmium	3.1 I
Chromium, Total	120
Cobalt	270
Copper	260
Iron	190,000
Lead	110
Manganese	11,000
Mercury	0.72 I
Nickel	160
Selenium	8.7 I
Thallium	ND U
Vanadium	150
Zinc	1,200

Location	GMW02
Sample Name	GMW02
Sample Date	10/21/2025
Metals	
Aluminum	1,500,000
Antimony	4.8 I
Arsenic	1,500
Barium	15,000
Beryllium	78
Cadmium	6 I
Chromium, Total	1,800
Cobalt	1,700
Copper	3,000
Iron	3,000,000
Lead	1,900
Manganese	40,000
Mercury	4
Nickel	2,600
Selenium	210
Thallium	22
Vanadium	2,400
Zinc	8,700

Location	TMW01
Sample Name	TMW01
Sample Date	10/21/2025
Metals	
Aluminum	330,000
Antimony	7.7 I
Arsenic	800
Barium	3,200
Beryllium	20
Cadmium	5.1 I
Chromium, Total	800
Cobalt	450
Copper	940
Iron	870,000
Lead	420
Manganese	23,000
Mercury	0.48 I
Nickel	730
Selenium	63
Thallium	10
Vanadium	710
Zinc	2,200

Location	TMW03
Sample Name	TMW03
Sample Date	10/21/2025
Metals	
Aluminum	15,000
Antimony	0.42 I
Arsenic	23
Barium	170
Beryllium	2.1
Cadmium	0.29 I
Chromium, Total	29
Cobalt	110
Copper	53
Iron	39,000
Lead	26
Manganese	1,800
Mercury	ND U
Nickel	77
Selenium	3.3 I
Thallium	0.46 I
Vanadium	31
Zinc	180

Analyte	EPA RSL THQ 0.1 Tapwater	EPA RSL THQ 0.1 Groundwater MCL
Metals		
Aluminum	2000	NS
Antimony	0.78	6
Arsenic	0.052	10
Barium	380	2000
Beryllium	2.5	4
Cadmium	0.18	5
Calcium	NS	NS
Chromium, Total	2200	100
Cobalt	0.6	NS
Copper	80	1300
Iron	1400	NS
Lead	10	10
Magnesium	NS	NS
Manganese	43	NS
Mercury	0.063	2
Nickel	39	NS
Potassium	NS	NS
Selenium	10	50
Silver	9.4	NS
Sodium	NS	NS
Thallium	0.02	2
Vanadium	8.6	NS
Zinc	600	NS

Exceedance Summary:

10 - Result exceeds EPA RSL THQ 0.1 Tapwater

10 - Result exceeds EPA RSL THQ 0.1 Groundwater MCL

300 0 300

SCALE IN FEET

Legend

- Approximate Location of Previous Monitoring Well Installed by Others
- Monitoring Well Location
- Site Boundary
- Parcel Boundary

Notes:
1. All concentrations ug/L
2.Imagery provided through Langan's subscription to Nearmap.com. Flown on 01/15/2025.
3. All locations of site reconnaissance observations are approximate.
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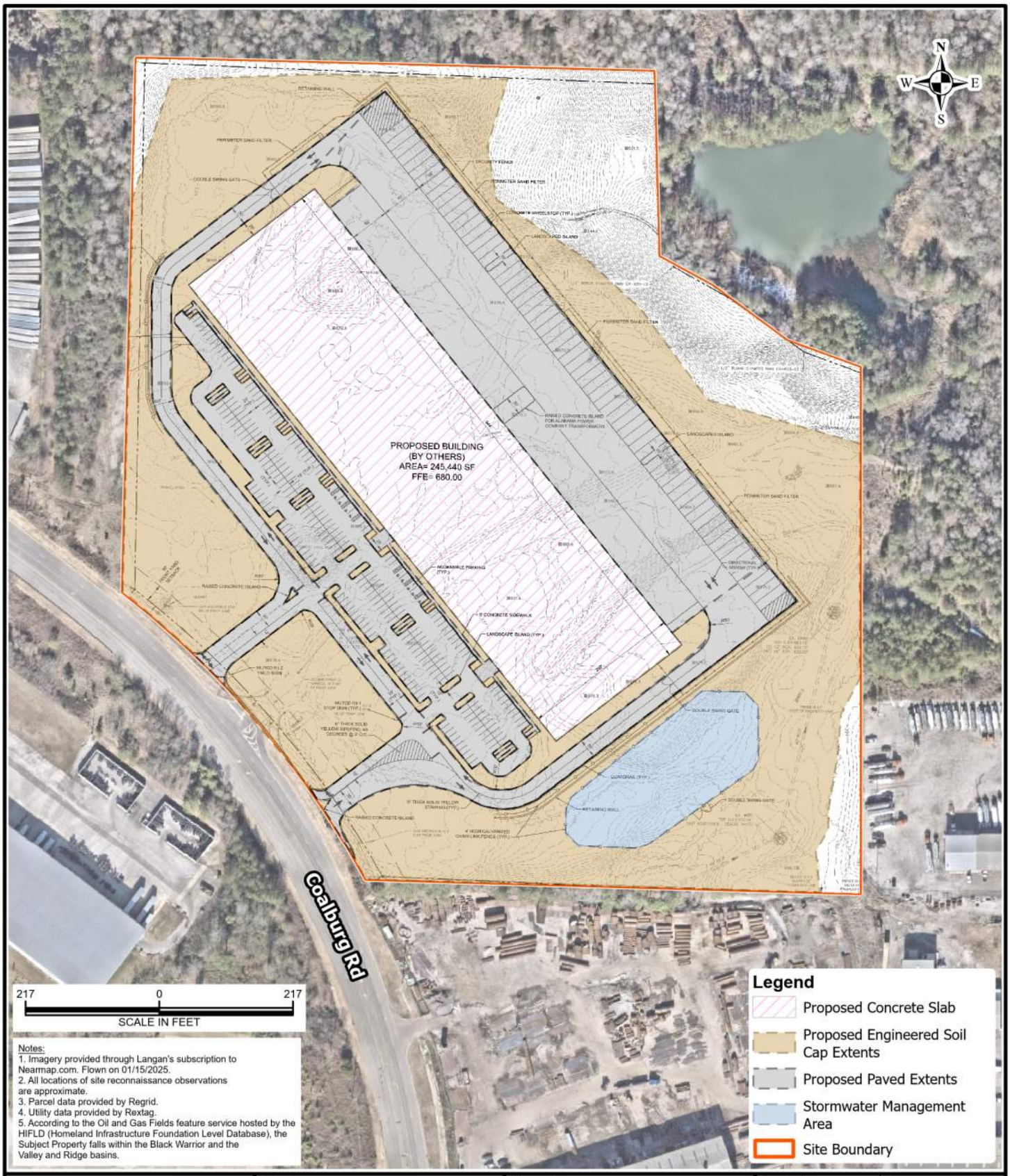
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PERCHED WATER ANALYTICAL RESULTS

Project No. 350120001
Date 1/9/2026
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Figure **3B**

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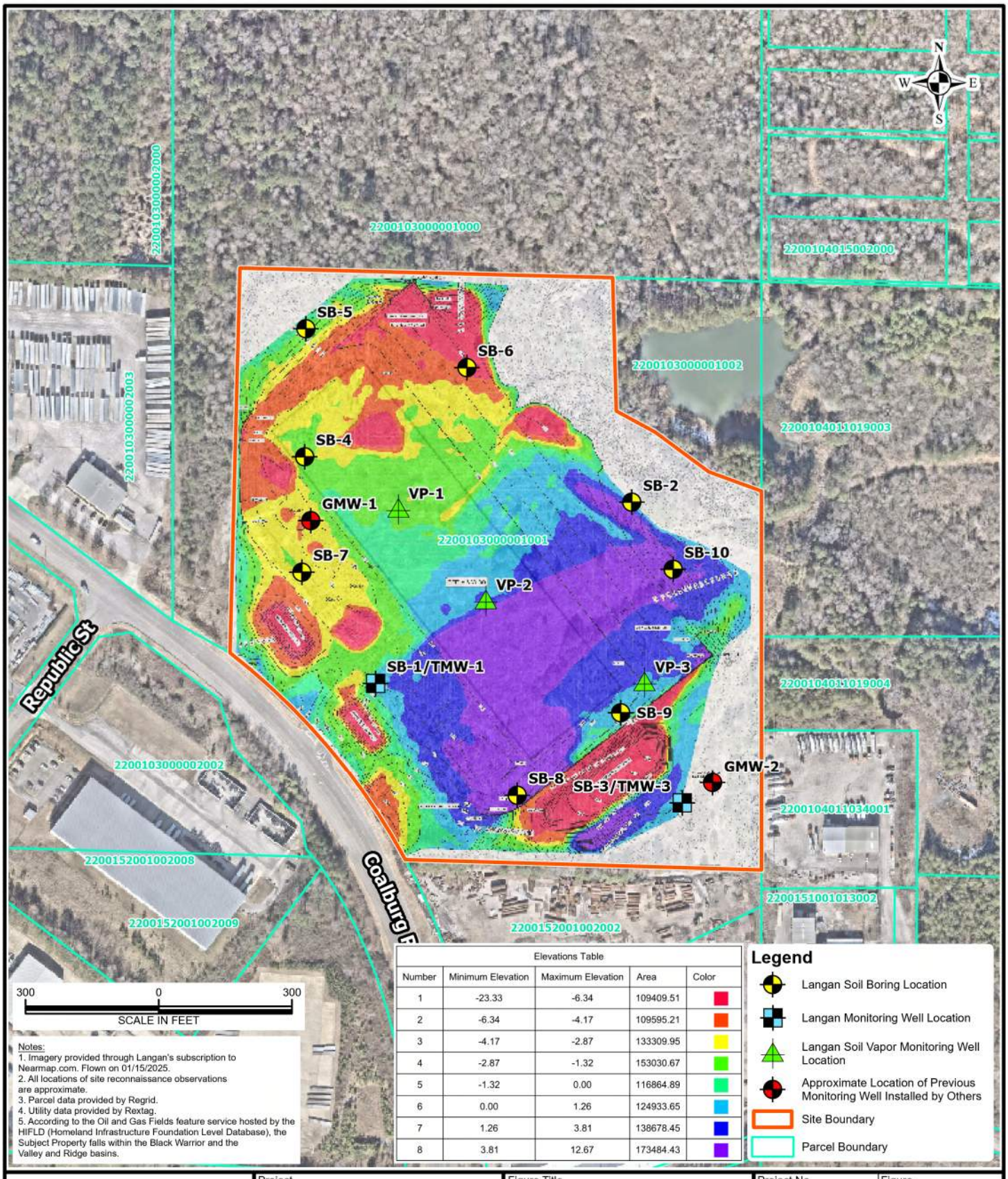
Project
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Figure Title
EXTENTS OF ENGINEERED CAP

Project No. 350120001	Figure 4
Date 01/06/2026	
Scale 1" = 217 feet	
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4. Utility data provided by Rextag.
5. According to the Oil and Gas Fields feature service hosted by the HIFLD (Homeland Infrastructure Foundation Level Database), the Subject Property falls within the Black Warrior and the Valley and Ridge basins.

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-23.33	-6.34	109409.51	
2	-6.34	-4.17	109595.21	
3	-4.17	-2.87	133309.95	
4	-2.87	-1.32	153030.67	
5	-1.32	0.00	116864.89	
6	0.00	1.26	124933.65	
7	1.26	3.81	138678.45	
8	3.81	12.67	173484.43	

Legend

- Langan Soil Boring Location
- Langan Monitoring Well Location
- Langan Soil Vapor Monitoring Well Location
- Approximate Location of Previous Monitoring Well Installed by Others
- Site Boundary
- Parcel Boundary

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Figure Title
CUT AND FILL MAP

Project No. 350120001	Figure 5
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Appendix A ADEM Application Approval

EDWARD F. POOLOS
DIRECTOR

JEFFERY W. KITCHENS
DEPUTY DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov
1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

October 22 , 2025

Electronically Transmitted

SunCap Property Group, LLC
Mr. Ben Scerri
6101 Carnegie Boulevard, Suite 180
Charlotte, North Carolina

Re: Voluntary Cleanup Program (VCP) Application
4401 Coalburg Road
4401 Coalburg Road, Birmingham, AL35207

Dear Mr. Ben Scerri :

The Alabama Department of Environmental Management (ADEM) has received a Voluntary Cleanup Program Application submitted on September 24, 2025, by Langan Engineering and Environmental LLC, on behalf of SunCap Property Group, LLC, for the above-referenced site. Based on our review in accordance with 335-15-.02, the Application appears complete. The 4401 Coalburg Site has been accepted into the Voluntary Cleanup Program. We wish to commend you for the effort to assess and remediate this site as necessary, and ADEM looks forward to working together.

The site has been issued site number 461-073-25046. Please include this number when submitting information requested by ADEM.

In addition, this letter acknowledges receipt by ADEM of the fees necessary for processing the Application Review. If you have any questions or comments regarding this matter, please contact Jackson Jones, Project Manager at jackson.jones@adem.alabama,gov or at 334-274-4182

Sincerely,

Crystal L. Collins, Chief
Redevelopment Unit

CLC/JMJ

Birmingham Branch
110 Vulcan Road
Birmingham,AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
Sandlin Road, S.W.
Decatur, AL35603-1333
(256) 353-1713
(256) 340 -9359 (FAX)

Coastal Branch
2615 South Broad Street
Mobile, Al, 36605
(251) 450-3400
(251) 479-2593 (FAX)

Appendix B Materials Management Plan

MATERIALS MANAGEMENT PLAN

for

4401 Coalburg Road
Birmingham, Alabama 35207
ADEM VCP Site ID: 461-073-25046

Prepared For:

SunCap Development Group
6101 Carnegie Blvd #180
Charlotte, NC 28209

Prepared By:

Langan Engineering & Environmental Services, LLC
400 North Ashley Drive, Suite 2175
Tampa, Florida 33602

Thomas Antonacci
Senior Project Manager

Nicole Rice
Associate Principal

LANGAN

14 January 2026
350120001

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1.0 INTRODUCTION

On behalf of SunCap Development Group (SunCap), Langan Engineering and Environmental Services, LLC (Langan) has prepared this Materials Management Plan (MMP) for the approximately 32.3-acre property located at 4401 Coalburg Road, Birmingham, Jefferson County, Alabama (the Site). A Site Location Map is provided as Figure 1 and a Site Layout Map is provided as Figure 2.

This MMP was prepared to support the redevelopment of the Site. This MMP provides procedures for materials (e.g., soil, debris, dewatering fluids, etc.) that may be disturbed as part of future construction and utility maintenance at the Site. The chemicals of potential concern (COPCs) identified at the Site during site characterization activities include one polyaromatic hydrocarbon (PAH), 1-methylnaphthalene, and two metals, arsenic and thallium, in soil.

1.1 Site History and Environmental Remedial Activities

The Site has an extensive history of mining-related operations, with documented activities beginning circa 1907 and continuing through the 1960s. During this period, the Site functioned primarily as a staging and stockpiling area for coal mine tailings generated by the former Sayreton Mine. Following the cessation of mining activities in the late 1960s, the property has remained inactive and undeveloped, and no additional mine spoils or related materials have been generated or deposited on-site. As of 2025, a single remaining stockpile of legacy tailings is present within the southwestern portion of the Site.

Ownership records show the following timeline:

- 2003–2004: Joint ownership by SAIIA Construction LLC, Best Coal Inc., and K & H Development Co.
- 2005–2007: Ownership transitioned to SAIIA Construction LLC and K & H Development Co.
- 2008–2011: SAIIA Construction LLC became the sole owner.
- 2012–Present: The property has been owned by SAIIA Coalburg LLC.

According to the Jefferson County Tax Assessor, the Site is classified as "910 – Undeveloped" and unused land. The property is zoned for industrial use and is surrounded by a mix of forested land and industrial buildings.

SunCap proposes to redevelop the Site with a warehouse (i.e., non-residential use). This concept is preliminary and subject to change, but residential site use is not being considered.

Voluntary Cleanup Program

In 2009, an application to participate in the Alabama Department of Environmental Management (ADEM) Voluntary Cleanup Program (VCP) was submitted for an approximately 125-acre property under the name Daniel Payne Drive & Coalburg Road property, which includes the Site and additional properties to the east of the Site. An Assessment Plan was prepared to support the application to participate in the ADEM VCP and included a July 2002 Phase I ESA, April 2004 Phase II ESA, and June 1998 Phase II Letter Report. These previous reports were associated

with the southeast portion of the larger 125-acre property, located approximately 3,000 feet southeast of the Site.

In 2011, a Phase II Investigation was conducted by GM&C for a 25-acre property which included the Site. Arsenic was identified in surficial soil at the Site at concentrations above Alabama Risk Based Corrective Action (ARBCA) screening levels, and detected concentrations of arsenic, chromium, and lead exceeded United States Environmental Protection Agency (USEPA) Ecological Screening Values. The investigation was approved by the ADEM in June 2011; however, no subsequent cleanup plan was submitted, and the Daniel Payne Drive & Coalburg Road Property was deactivated as a Brownfields Site in June 2016.

Site Assessment Activities

In 2025, Langan completed site assessment activities which included collection of soil and water samples for analysis of Target Analyte List (TAL) metals and polycyclic aromatic hydrocarbons (PAHs), and field screening of soil vapor monitoring points to assess the potential presence of methane. Mine spoils were observed from ground surface to approximately 40 feet bgs on the central and eastern portions of the Site. Sporadic areas of spoils were encountered on the western portion of the Site.

A total of 22 soil samples were collected from 10 soil borings. Concentrations of PAHs and/or metals did not exceed the USEPA Regional Screening Levels (RSLs) for Industrial Soil, except for 1-methylnaphthalene, arsenic, and thallium. The maximum detected concentration of 1-methylnaphthalene in soil was 0.76 milligrams per kilogram (mg/kg), the maximum detection of arsenic in soil was 230 mg/kg, and the maximum detected concentration of thallium in soil was 2.9 mg/kg. Soil analytical results are shown on Figure 3A.

A total of four water samples were collected from four temporary monitoring wells. The temporary monitoring wells included two converted soil borings (SB-01/TMW-1 and SB-03/TMW-3) as well as two previously installed temporary wells (GMW-2 and GMW-4) from an earlier site investigation. Based on the limited water volumes and the sufficiently low recharge rates observed in the temporary monitoring wells, groundwater samples were collected using an "evacuate-and-recover" method. Although this technique enabled sample collection from the low-yield wells, the resulting turbidity levels were elevated and may have influenced the analytical results. PAHs did not exceed either the Tapwater RSLs or USEPA Maximum Contaminant Levels (MCLs). Eighteen metals exceeded their respective Tapwater RSLs; however, only eleven of those metals exceeded their corresponding MCLs. Screening the analytical results against Tapwater RSLs and MCLs represents a conservative assessment, as groundwater is not utilized as a potable water supply at the Site or in the surrounding vicinity. Further, due to the limited recharge in each well, well development and purging activities were minimal, resulting in elevated turbidity in all collected samples. In accordance with ADEM guidance, groundwater samples were not filtered; therefore, the results reflect total (unfiltered) concentrations and may overestimate true dissolved-phase groundwater conditions. Additionally, isolated moisture zones were encountered in some soil borings during this and previous investigations; however, the majority of borings did not identify groundwater to depths of approximately 60 feet bgs. A laterally

continuous water table (characteristic of a water-bearing unit within fill material) was not observed anywhere on the Site. Perched water analytical results are shown on Figure 3B.

Although the identified COPCs are not considered a source of soil vapor contamination, vapor monitoring points were installed to assess the potential presence of methane. Six soil vapor points were screened for methane and fixed gases. Methane was not detected in any of the soil vapor monitoring points. Hydrogen sulfide concentrations ranged from 1 to 4 parts per million (ppm).

1.2 Purpose

This MMP was developed to support future disturbance activities of subsurface materials at the Site. This MMP has been prepared to specify procedures to be followed during excavation and grading activities to prevent exposure of COPCs and dispersal of impacted materials during the execution of work at the Site.

This MMP will be updated, as necessary, if new information on Site conditions and COPCs is obtained, or if new requirements are set forth by SunCap or ADEM.

2.0 NOTIFICATIONS

SunCap must be contacted prior to the start of construction or excavation activities to coordinate the scope and execution of proposed excavation work.

If an underground storage tank (UST) is encountered during soil disturbance activities, all work must be halted immediately, and the SunCap Construction Manager (CM) must be notified without delay.

Before contacting ADEM, next steps should be coordinated with SunCap and the CM. Any discovered UST must be closed in full compliance with ADEM regulations, including proper tank registration and submission of a notification of intent to close.

Please note: Any new spills or releases resulting from site activities must be reported in accordance with all applicable local, state, and federal spill reporting requirements.

3.0 PROJECT OVERSIGHT AND CERTIFICATION OF WORK

Disturbance of subsurface materials impacted with COPCs will be completed in accordance with this MMP. The work will be documented and submitted to SunCap and their designated representatives. An Environmental Professional (EP) will be on-Site during construction as needed or as requested by SunCap.

All contractors performing work (project personnel) that may expose them to soil or groundwater, must abide by their company's Site-Specific Health and Safety Plan (HASP). The Site-Specific HASP provides a mechanism for establishing safe working conditions at the Site during site disturbance by identifying potential hazards, exposures, and controls to be implemented in relation to planned excavation, grading, or other work that could disturb impacted materials. The Site-Specific HASP also describes the hazards and controls related to the Site-specific COPCs. Refer to Section 5.2 of this MMP for additional requirements of the Site-Specific HASP. If project

personnel encounter heavily-impacted soil (See Section 6.8), USTs, or other conditions indicative of unknown environmental impacts, all disturbance activities shall cease, and the EP and SunCap CM notified. Additional measures may be put into place, including the need for personnel trained in hazardous waste health and safety in accordance with OSHA HAZWOPER regulations (29 CFR 1910.120[e]).

4.0 RECORD KEEPING AND REPORTING

A logbook will be maintained by the earthwork contractor (contractor). The logbook will document relevant information pertaining to the implementation of the remedies. Documentation will include, but may not be limited to, the following:

- Dates and times of excavation activities;
- List of project personnel conducting these activities;
- Description of excavation activities;
- Location and time of any excavation work;
- Approximate quantities of disturbed materials;
- Locations of any material staging areas on-site;
- Methods used for handling of materials;
- Locations of material placement on-site;
- Quantity of materials taken off-site and their final disposition
- Waste profiles and manifests for materials disposed off-site; and
- Documentation of any contingency plan items.

The earthwork contractor shall provide weekly work summaries to SunCap and the EP with the information listed above.

5.0 HEALTH AND SAFETY

5.1 Exposure and Effects of Site-Specific COCs

All Site workers must be made aware of the Site's identified COPCs (described in Section 1.1), known environmental health and safety hazards, and COPC exposure pathways (e.g., ingestion, inhalation, dermal contact) prior to beginning work. Specifically, the site workers will be made aware that soil at the Site is impacted with one PAH, 1-methylnaphthalene, and two metals, arsenic and thallium. The PAH 1-methylnaphthalene exceeded the Industrial Soil RSL of 0.077 milligrams per kilogram (mg/kg) in five soil samples with a maximum detected concentration of 0.76 mg/kg. Arsenic exceeded the Industrial Soil RSL of 3 mg/kg at 20 soil samples with a maximum detection of 230 mg/kg. Thallium exceeded the Industrial Soil RSL of 1.2 mg/kg at three soil samples with a maximum detection of 2.9 mg/kg.

As noted in Section 1.1, Langan field screened the soil vapor locations for hydrogen sulfide and

the maximum reading was 4 ppm. Hydrogen sulfide may be encountered during earthwork and the contractor may be required to perform additional evaluation and mitigation.

The contractor is responsible for informing their workers and subcontractors of the Site conditions and potential risks and for establishing a HASP to be implemented by their workers and subcontractors.

5.2 Site-Specific Health and Safety Plan

The contractor will be required to prepare a Site-Specific HASP that will include, but not be limited to, the following components:

- Identification of Key Project Personnel – Identification and qualifications of the on-Site and off-site health and safety personnel responsible for implementation of health and safety procedures.
- Training – A description of health and safety training requirements for all project personnel. It is each contractor's responsibility to determine the level and type of health and safety training required for their workers in accordance with applicable laws and regulations. Site workers that may be exposed to soil, sediment, groundwater, or surface water may need to be 40-hour trained in hazardous waste health and safety in accordance with OSHA HAZWOPER regulations (29 CFR 1910.120[e]) if deemed applicable. Additional training requirements will include attending an initial Site orientation prior to engaging in any on-Site activities and daily health and safety briefings.
- Medical Surveillance – A description of appropriate medical examinations required for project personnel to conduct the duties associated with implementing the construction activities, if applicable.
- Site Hazards – A description of chemical and physical hazards associated with the Site and a discussion of identifying and mitigating foreseeable chemical and physical hazards associated with the work. Foreseeable chemical and physical hazards may include, but will not be limited to, hazards associated with exposure to COPCs, heavy equipment operation during construction activities, weather, biological hazards, material handling, and work around water.
- Personal Safety Equipment and Protective Clothing – A description of personal safety equipment and protective clothing to be used. This discussion will include identification of expected levels of protection for the work, and the action levels for PPE upgrades.
- Air Monitoring – The suspension of airborne soil and dust should be minimized to the smallest degree possible. The contractor's HASP should contain provisions for air monitoring, action levels, dust control measures should action levels be exceeded, and other measures necessary to protect Site workers, the neighboring properties and the general public from chemical, dust or other exposure hazards. Contractor should consider whether personal hydrogen sulfide monitoring is warranted based on site history and previous investigations. Previous investigation reports can be provided upon request.

- Equipment Cleaning – The methods and procedures for decontamination of project personnel, vehicles, and equipment.
- Excavation Safety – Excavation and trenching safety procedures as specified in 29 Code of Federal Regulations (CFR) 1926 Subpart P including, but not limited to, soil classification, excavation inspections, protective systems, and designated competent persons.
- Procedures and Programs – Standard operating procedures and safety programs as required by applicable sections of Section 1910 of 29 CFR 1910 and 29 CFR 1926.
- Contingency Plan – A contingency plan to be implemented in the event of various emergency or non-routine events. The contingency plan will set forth procedures for addressing spill prevention and emergency response procedures, emergency vehicular access/egress, evacuation, emergency notification and contacts, and emergency medical procedures.

6.0 SOIL MANAGEMENT

6.1 Excavation, Grading, and Other Excavation Earthwork

All earthwork activities must be implemented in accordance with the Site-Specific HASP to mitigate the potential hazards and worker exposure during excavation activities.

All site soil is assumed to be impacted with COPCs. The flow chart to be followed for handling of materials during excavation, grading, and impervious surface installation is provided as Figure 4. Earthwork activities will be implemented in accordance with the site-specific HASP to mitigate the potential for hazards and worker exposure during excavation activities. If encountered, heavily impacted soil, as defined in Section 6.8, must be segregated and stored, in accordance with Section 6.2, for subsequent sampling and disposal, in accordance with Section 9.0.

6.2 Temporary On-Site Staging

Soil that is designated for stockpiling will be temporarily staged in designated areas at the Site. Temporary stockpiles are soils that are mounded or stored for over 24 hours. Additional staging areas may be constructed as needed. Stockpile areas will meet the following minimum requirements:

- As discussed in Sections 1.1, 5.1 and 6.1 above, 1-methylnaphthalene, arsenic, and thallium were detected in soil at concentrations that exceed the Industrial Soil RSLs. Excavated soil exhibiting environmental impacts (as described in Section 6.8), shall be placed onto, and covered with construction liner of sufficient strength to prevent puncture during use. The soil stockpiles must be covered at the end of each day. The stockpile cover must be secured to prevent exposure of the stockpiled soil during weather events. Equipment and procedures selected to place and remove the soil will minimize the potential to jeopardize the integrity of the liner. Additional procedures to be followed for environmentally impacted soil are detailed in Section 6.8.

- All stockpiled areas will be inspected daily by the site contractor and periodically by the EP and noted deficiencies will be promptly addressed. Additional protective measures, such as covering, may be required if deemed necessary by the EP, to prevent erosion or dust generation. The inspection and corrective actions must be documented in the logbook referenced in Section 4.0.

6.3 Soil Import and Re-Use Criteria

Soil Import Criteria

All soil imported to the Site must be characterized prior to import. Analytical data and/or certifications documenting the clean fill disposition must be provided to the EP and SunCap CM for review and concurrence with Site requirements at least one week before the material is imported to and used at the Site.

Unless a virgin quarry certification is provided, at a minimum, proposed imported material must be sampled and tested at a frequency of one five-point composite sample per 5,000 cubic yards of material, and analysis must include the following, unless directed otherwise by SunCap and/or the EP:

- Volatile organic compounds (VOCs) by USEPA Method 8260
- Semi-volatile organic compounds (SVOCs) by USEPA Method 8270
- Priority pollutant list metals by USEPA Method 6010
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082
- Pesticides by USEPA Method 8081
- Herbicides by USEPA Method 8151
- PFAS by USEPA Method 1633

On-Site Soil Re-Use Criteria

On-site soil re-use must follow the flow chart provided as Figure 4. As noted above, soil across the Site is impacted by 1-methylnaphthalene, arsenic, and thallium above the USEPA Industrial Soil RSL. The highest concentrations of these COPCs were detected at SB-1, SB-7, and SB-10 (Figure 2). Impacted soils above the USEPA Industrial Soil RSL planned to remain on-Site must be capped with hardscaped areas (i.e., buildings or pavement) or with at least 1.5-feet of imported, clean soil with a demarcation barrier.

If soil is encountered exhibiting visual or olfactory signs of contamination, consult with SunCap or EP for approval to proceed for soil testing for on-site re-use. The sampling results must be presented to SunCap and the EP for review and soil may only be re-used if approved by SunCap or the EP.

6.4 Soil Export

Soil export must be approved by SunCap and comply with requirements of Section 9.0.

6.5 Dust Control and Air Monitoring

Best practices for minimization of dust include limiting the area of soil excavations at any given time, and application of dust or odor suppressants to exposed excavation and stockpile surfaces. Dust suppressants shall be applied to areas of the Site where construction activities are likely to cause the generation of dust which may create a hazard and/or nuisance. Such activities include general earthwork and the excavation and loading of soil.

Dust suppressants may include PFAS-free water (fire-hydrant water sampling results must be provided prior to use and approved by SunCap) or plastic sheeting. If the contractor recommends other dust and vapor measures, the contractor must first obtain approval from the EP and the SunCap CM to ensure these are consistent with all Site requirements (i.e. must not utilize PFAS-containing suppressants). The contractor shall take precautions and all steps necessary to ensure that the use of dust suppressants does not cause any runoff off-site. Stockpiled soil shall be covered as a preventative measure against dust generation.

Community Air Monitoring Plan

Community air monitoring for dust and odors is not anticipated; however, if conducted it shall be conducted by the EP's field inspector. If community air monitoring is conducted, then continuous monitoring on the perimeter of the work zones for nuisance odors, particulate matter with a diameter of 10 micrometers or less (PM10), and visible dust is recommended for all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of development. A DustTrak (or equivalent) air monitor equipped with filters to detect PM10, will be used to monitor the work zone and for periodic monitoring of PM10 during excavation activities. The Site perimeter will be visually monitored for fugitive dust emissions.

The following actions will be taken based on visual dust observations:

- If the downwind particulate level is 100 micrograms per cubic meter (µg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind PM10 levels do not exceed 150 µg/m^3 above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m^3 above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m^3 of the upwind level and in preventing visible dust migration.

6.6 Decontamination Pad

All equipment in contact with known impacted Site soil, suspected contaminated soil (per Section 6.8), or groundwater (if encountered) will be decontaminated prior to removal from the Site. Decontamination shall consist of dry brushing at a minimum. Solids from decontamination shall be collected and placed in a location approved by the EP or will be managed for off-site disposal in accordance with Sections 6.2 and 9.0.

If vehicle or equipment tires/treads will contact impacted soil, a decontamination pad/truck wash will be constructed. Truck tires/treads and undercarriages for all vehicles and equipment coming in contact with impacted soil will be swept free of soil and debris. Truck tires and undercarriages will be pressure-washed before leaving the Site, as necessary. At a minimum, the decontamination pad will have a 30-mil low-permeability polyethylene liner, be surrounded by berms and sloped to a collection sump to contain and collect fluids, and have sidewalls to mitigate, to the extent practicable, errant overspray, especially when decontaminating large equipment that comes into contact with potentially impacted soil. Handling of decontamination fluids shall be in accordance with Section 8.0.

Equipment and vehicles, including haul trucks, shall be staged on pavement and away from areas of soil disturbance when not in use. Access routes for equipment and vehicles shall be chosen to avoid contact with Site soils by vehicles and equipment to the extent possible. Egress points for all vehicles and equipment transport from the Site will be kept clean of dirt and other material during any excavation work. Trucks transporting soil will be securely covered prior to exiting the Site.

6.7 Stormwater Pollution Prevention Plan

The contractor will be responsible for minimizing erosion and sedimentation, and consequently stormwater pollution. Measures will include physical methods to control and/or divert surface water flows and to limit the potential for erosion and migration of Site soil via wind (dust) or storm water.

The following stormwater pollution prevention practices will be implemented for excavation work, unless otherwise approved by the EP. These requirements are in addition to any Authority Having Jurisdiction (AHJ) requirements:

- Frequent watering of excavations and fill areas to minimize wind erosion during construction;
- Inlet and outlet protection using filter fabric and silt socks, within and downslope of soil disturbance areas;
- Site perimeter and soil stockpile protection using silt fence and/or silt sock;
- Temporary sediment basins and sump pits, if necessary for construction dewatering; and
- Stabilized construction entrance/exit pads in the event excavation work results in truck tires and undercarriages coming into contact with impacted soil.

The contractor will be responsible for the installation and maintenance of all temporary erosion and sediment (E&S) control measures. All silt fence, inlet protection, and silt sock checks at catch basins will be maintained as follows:

- The barrier and silt sock check condition will be inspected regularly during excavation activities or after every storm event, whichever comes first. Any necessary repairs shall be made immediately;
- Accumulated sediments will be removed as required to keep the barrier and silt sock check functional;
- All undercutting or erosion of the silt fence toe anchor or silt sock will be repaired immediately with backfill material (e.g., stone);
- Silt fence will be repaired and/or replaced as needed;
- Areas used for contractor storage of hazardous substances and materials (e.g., fuels) will be lined with plastic and inspected regularly for any leakage of chemicals or fuels to the ground. Any such leakage will be immediately reported to the EP and SunCap CM;
- E&S control measures identified in the plan will be inspected to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters;
- Locations where vehicles enter or exit the Site will be inspected daily for evidence of off-site sediment tracking;
- The existing conditions of the adjacent streets will be maintained. Any soil tracked off-site onto adjacent streets must be cleaned and brought back on-site or disposed at an approved disposal facility on an as needed basis as determined by the contractor or the EP; and
- All stockpiles will be immediately surrounded by silt socks to prevent any migration of excavated soil from these locations.

6.8 Heavily-Impacted Soil

In accordance with the flow chart included as Figure 4, should heavily-impacted (i.e., staining, odors, elevated instrument readings, etc.) soil be identified by the contractor during subsurface work, SunCap and the EP should be immediately notified, and the impacted soil should be excavated and stockpiled adjacent to the excavation area or at an alternate approved area in accordance with Section 6.2.

The potential heavily-impacted soil would include soil with:

- Strong odors,
- High volatile organic compound readings based on air monitoring,
- Oil or oil-staining,

- Tar-like or sludge material,
- Other staining or discoloration,
- Separate phase liquid (e.g., pure chemicals, petroleum products, etc.), and/or
- Any other condition determined by the EP of being indicative of contamination.

The locations of any soil stockpiles associated with unexpected conditions should be in consultation with the EP and shall be delineated and appropriate erosion and sediment control measures, such as a silt fence or straw bales, shall be installed downslope of the excavation and stockpile areas. Small quantities can be containerized in 55-gallon steel drums as an alternate to stockpiles. Drums must be labeled with the generation date and as "pending characterization" until receipt of analytical data.

The suspected heavily-impacted soil must be stockpiled and covered by a 15-mil low-permeability construction liner or containerized in a lined and covered roll-off dumpster. Soil will be sampled for characterization by the EP. Following proper characterization, stockpiled soil will be managed for off-site disposal in accordance with Sections 6.2 and 9.0, unless otherwise approved by SunCap or the EP.

The contractor or EP will notify the SunCap CM if suspected impacted materials are not managed in accordance with this MMP.

7.0 DEBRIS MANAGEMENT

Additional debris (e.g., inactive utilities, remnant foundations or other concrete materials) may be encountered during the proposed soil disturbance activities. Debris will be decontaminated by removing soil particles to the extent practicable. If necessary, the debris will be pressure-washed with water or other methods to remove the potentially impacted media. Debris can then be characterized and disposed off-site in accordance with federal, state, and local regulations at a facility approved by SunCap. Wash water must be contained and managed in accordance with the procedures described in Section 8.0 and Figure 5.

8.0 DEWATERING AND FLUIDS MANAGEMENT

Isolated moisture zones were encountered in some soil borings during Langan's site assessment and previous investigations; however, the majority of borings did not identify groundwater to depths of approximately 60 feet bgs. Of the four temporary monitoring wells sampled as part of Langan's site assessment activities, depth to water ranged from 29.1 to 34.05 feet bgs at the time of sampling, and only limited water volumes were present in the temporary monitoring wells. A laterally continuous water table (characteristic of a water bearing unit within fill material) was not observed anywhere on the Site.

Fluids management will comply with applicable local, state, and federal regulations and project specific permits. Any groundwater that is removed via dewatering of excavations will be managed following the flow chart process provided as Figure 5. Efforts must be made to divert

surface water runoff away from excavations to reduce generation of contaminated water. Collected groundwater may be characterized and disposed off-site in accordance with all applicable requirements. Alternately, if approved by SunCap, the contractor may obtain a permit to discharge collected groundwater to the sewer system servicing the Site from the applicable sanitary authority. Permit applications must be reviewed and approved by the EP before any discharge can take place. If discharged to the local sewer system, groundwater will be pre-treated and sampling of discharge will be completed as required per the discharge approval.

The truck wash and equipment decontamination areas, if deemed necessary, will include a sump and low permeability liner to collect wash water and a sedimentation tank to separate the solids from the wash water. Any containerized water will be characterized for off-site disposal. Alternately, if approved by SunCap, the contractor may obtain a permit to discharge collected wash water to the sewer system servicing the Site from the applicable sanitary authority. Permit applications must be reviewed and approved by the EP before any discharge can take place. If discharged to the local sewer system, fluids will be pre-treated and sampling of discharge will be completed as required per the discharge approval.

9.0 OFF-SITE DISPOSAL OR RECYCLING

Any soil, debris (e.g., inactive utilities, remnant foundations or other concrete materials), or fluid material designated for off-site disposal or debris designated for recycling must be sampled and characterized by the EP in accordance with the chosen facility requirements and all applicable local, state, and federal requirements. Unless directed otherwise by SunCap, the EP or following additional characterization as noted above, known impacted soils must be sent off-site to an appropriately permitted disposal facility.

Any debris that have been in direct contact with known impacted soils or potentially impacted media (i.e. as defined in Section 6.8) will be decontaminated by removing soil particles to the extent practicable. If necessary, the debris will be pressure-washed with water or other methods to remove the potentially impacted media. Debris can then be characterized and disposed off-site in accordance with federal, state and local regulations. These materials must not be stored at the Site longer than 120 days. Waste profiles and waste manifests will be executed by SunCap, or their authorized representative, as the generator of the material. Soil may not be shipped off-site for reuse on another property without the approval of SunCap. Wash water must be contained and managed in accordance with the procedures described in 8.0 and Figure 5.

The contractor will oversee the load-out of all material for off-site disposal. Once the loading of any container, dump truck, or trailer has been completed, the material must be immediately transported to the off-site disposal and/or recycling facility. All transport of material must be performed by licensed haulers in accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the Site must be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate federal, state, local, and Alabama Department of Transportation (ALDOT) requirements (or other applicable transportation

requirements). Copies of waste manifests and bills of lading must be provided to the EP and SunCap CM.

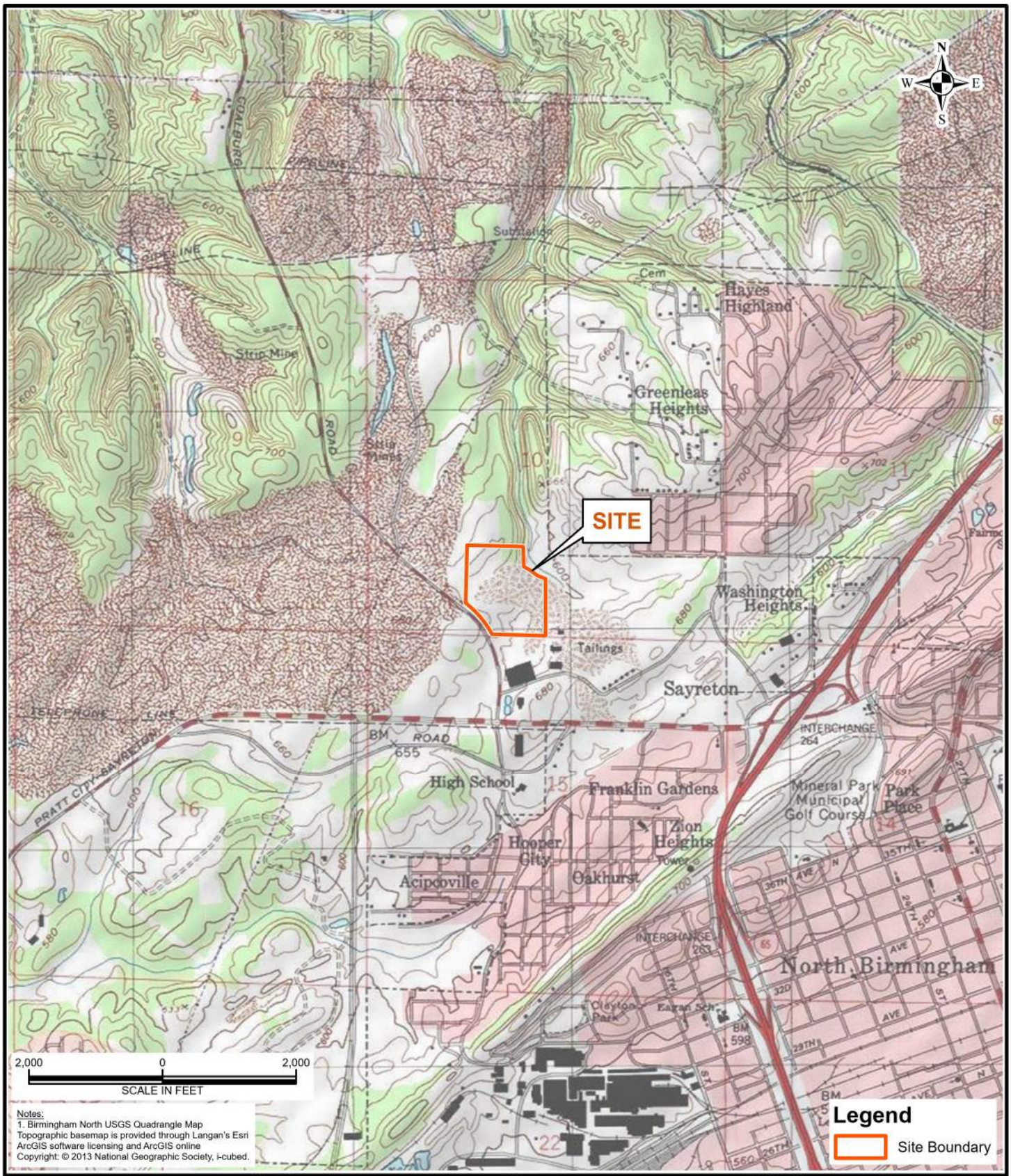
10.0 CONTINGENCY PLAN

If an unsuspected UST or evidence of heavily-impacted media is encountered during excavation activities, project personnel must report the discovery immediately to the EP and SunCap CM, who will then implement appropriate response measures, as necessary. If discovered, any UST must be investigated and closed in accordance with ADEM requirements.

Any spill or release of petroleum products or hazardous substances caused by project personnel must be immediately cleaned and reported to the EP and SunCap CM. The EP and SunCap CM will document the incident and implement appropriate response measures and initiate reporting, as necessary.

Any hazardous waste derived at the Site will be handled, stored, transported, and disposed in accordance with applicable local, state and federal regulations.

Figures



Notes:
1. Birmingham North USGS Quadrangle Map Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2013 National Geographic Society, i-cubed.

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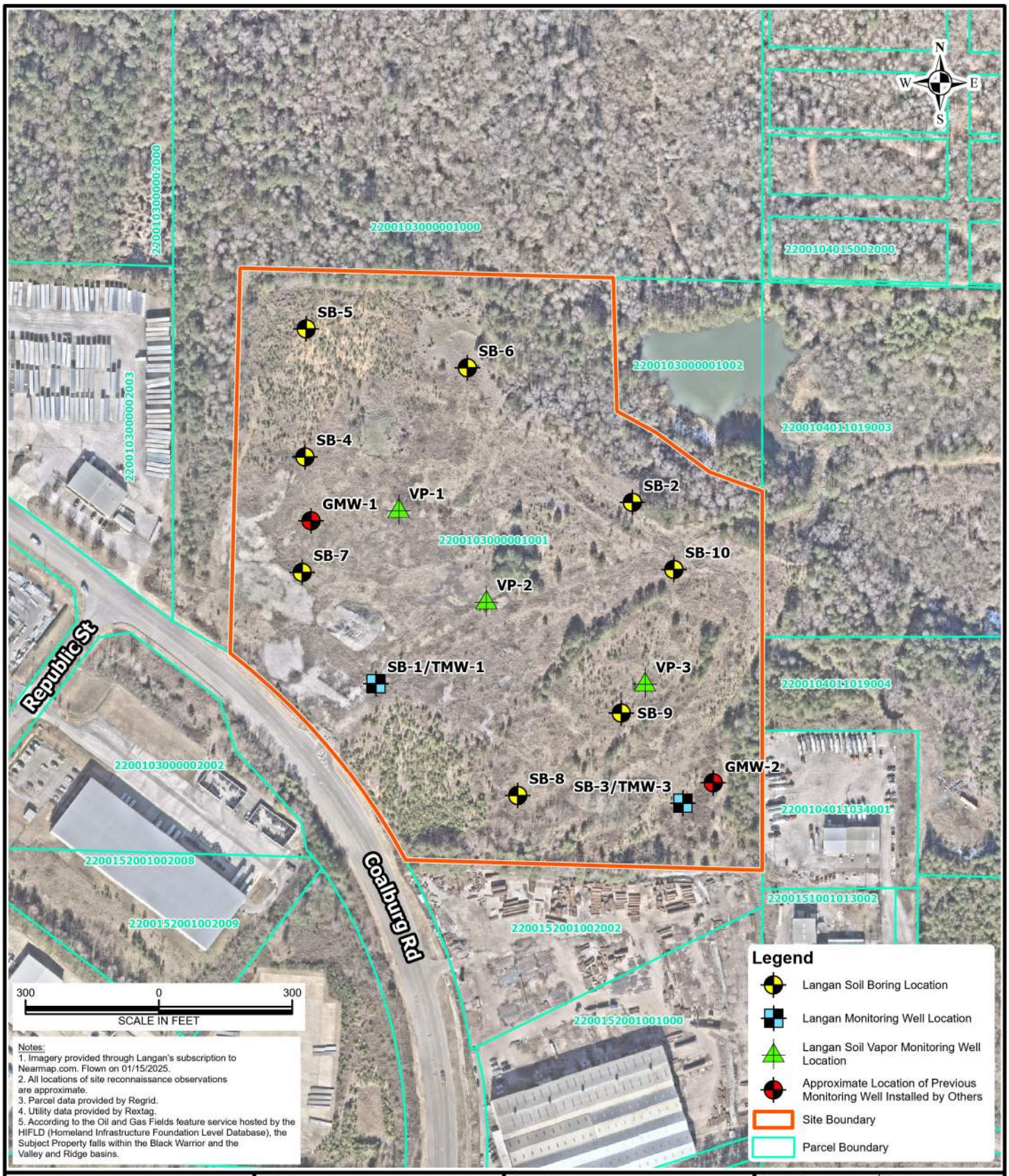
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Project	Figure Title	Project No.	Figure
4401 COALBURG ROAD BIRMINGHAM JEFFERSON COUNTY AL	**SITE LOCATION MAP**	350120001 Date 12/23/2025 Scale 1" = 2,000 feet Drawn By LB	1

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Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 01/15/2025.
2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Regrid.
4. Utility data provided by Rextag.
5. According to the Oil and Gas Fields feature service hosted by the HIFLD (Homeland Infrastructure Foundation Level Database), the Subject Property falls within the Black Warrior and the Valley and Ridge basins.

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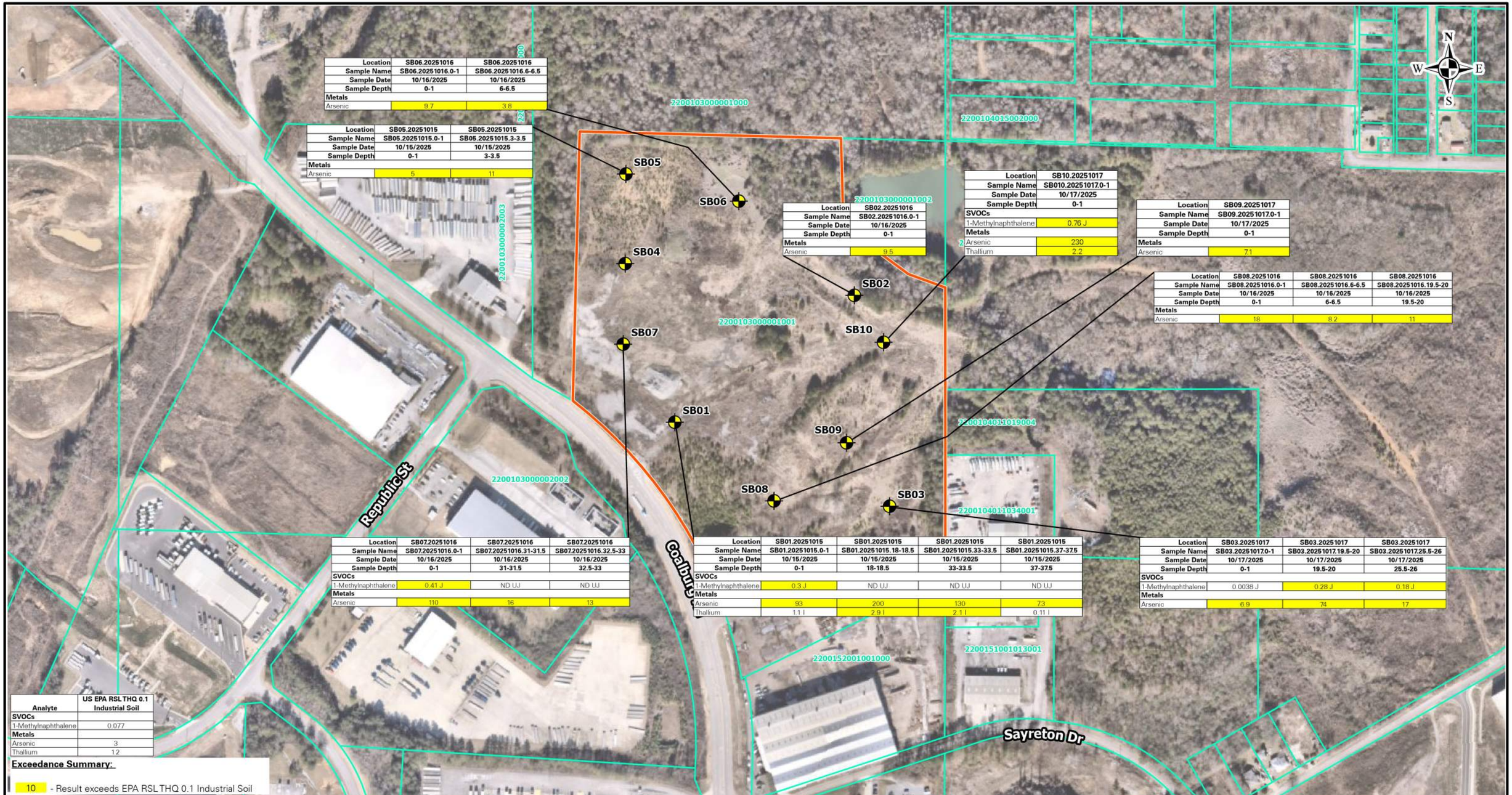
Project
4401 COALBURG ROAD
BIRMINGHAM
JEFFERSON COUNTY AL

Figure Title
SAMPLE LOCATION MAP

Project No.	350120001
Date	9/18/2025
Scale	1" = 300 feet
Drawn By	LB
Figure	2

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Location	SB06.20251016	SB06.20251016
Sample Name	SB06.20251016.0-1	SB06.20251016.6-6.5
Sample Date	10/16/2025	10/16/2025
Sample Depth	0-1	6-6.5
Metals		
Arsenic	9.7	3.8

Location	SB05.20251015	SB05.20251015
Sample Name	SB05.20251015.0-1	SB05.20251015.3-3.5
Sample Date	10/15/2025	10/15/2025
Sample Depth	0-1	3-3.5
Metals		
Arsenic	5	11

Location	SB02.20251016
Sample Name	SB02.20251016.0-1
Sample Date	10/16/2025
Sample Depth	0-1
Metals	
Arsenic	9.5

Location	SB10.20251017
Sample Name	SB010.20251017.0-1
Sample Date	10/17/2025
Sample Depth	0-1
SVOCs	
1-Methylnaphthalene	0.76 J
Metals	
Arsenic	230
Thallium	2.2

Location	SB09.20251017
Sample Name	SB09.20251017.0-1
Sample Date	10/17/2025
Sample Depth	0-1
Metals	
Arsenic	7.1

Location	SB08.20251016	SB08.20251016	SB08.20251016
Sample Name	SB08.20251016.0-1	SB08.20251016.6-6.5	SB08.20251016.19.5-20
Sample Date	10/16/2025	10/16/2025	10/16/2025
Sample Depth	0-1	6-6.5	19.5-20
Metals			
Arsenic	18	8.2	11

Location	SB07.20251016	SB07.20251016	SB07.20251016
Sample Name	SB07.20251016.0-1	SB07.20251016.31-31.5	SB07.20251016.32.5-33
Sample Date	10/16/2025	10/16/2025	10/16/2025
Sample Depth	0-1	31-31.5	32.5-33
SVOCs			
1-Methylnaphthalene	0.41 J	ND UJ	ND UJ
Metals			
Arsenic	110	16	13

Location	SB01.20251015	SB01.20251015	SB01.20251015	SB01.20251015
Sample Name	SB01.20251015.0-1	SB01.20251015.18-18.5	SB01.20251015.33-33.5	SB01.20251015.37-37.5
Sample Date	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Sample Depth	0-1	18-18.5	33-33.5	37-37.5
SVOCs				
1-Methylnaphthalene	0.3 J	ND UJ	ND UJ	ND UJ
Metals				
Arsenic	93	200	130	73
Thallium	1.1 I	2.9 I	2.1 I	0.11 I

Location	SB03.20251017	SB03.20251017	SB03.20251017
Sample Name	SB03.20251017.0-1	SB03.20251017.19.5-20	SB03.20251017.25.5-26
Sample Date	10/17/2025	10/17/2025	10/17/2025
Sample Depth	0-1	19.5-20	25.5-26
SVOCs			
1-Methylnaphthalene	0.0038 J	0.28 J	0.18 J
Metals			
Arsenic	6.9	74	17

Analyte	US EPA RSL THQ 0.1 Industrial Soil
SVOCs	
1-Methylnaphthalene	0.077
Metals	
Arsenic	3
Thallium	1.2

Exceedance Summary:

10 - Result exceeds EPA RSL THQ 0.1 Industrial Soil

300 0 300

SCALE IN FEET

Legend

- Langan Soil Boring Location
- Site Boundary
- Parcel Boundary

Notes:
1. All concentrations mg/kg
2. Imagery provided through Langan's subscription to Nearmap.com. Flown on 01/15/2025.
3. All locations of site reconnaissance observations are approximate.
4. Parcel data provided by Regrid.
5. Utility data provided by Rextag.

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Project
4401 COALBURG ROAD
BIRMINGHAM
JEFFERSON COUNTY AL

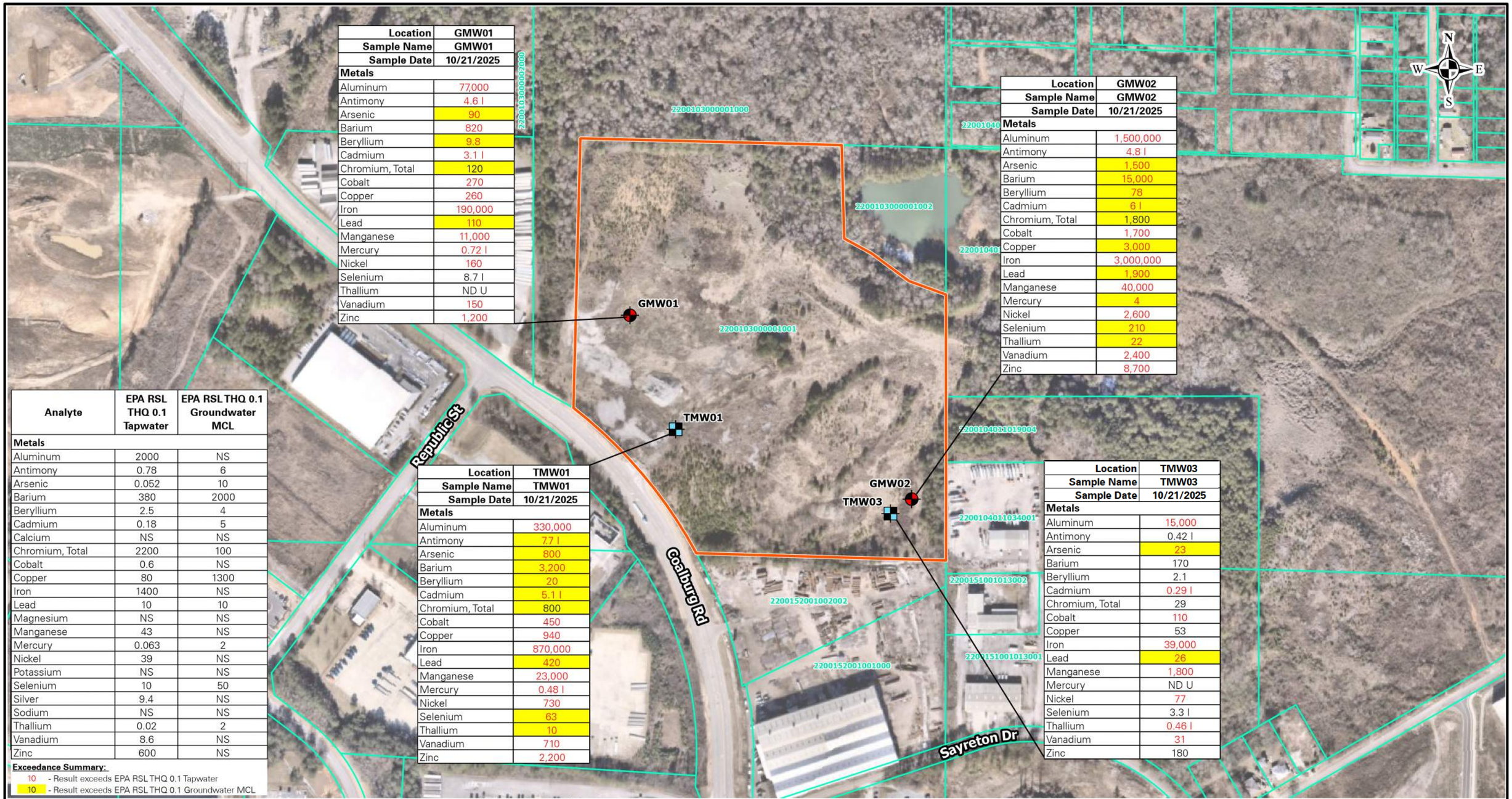
Drawing Title
SOIL ANALYTICAL RESULTS

Project No. 350120001
Date 12/23/2025
Scale 1" = 300 feet
Drawn By RDB

Figure **3A**

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Location	GMW01
Sample Name	GMW01
Sample Date	10/21/2025
Metals	
Aluminum	77,000
Antimony	4.6 I
Arsenic	90
Barium	820
Beryllium	9.8
Cadmium	3.1 I
Chromium, Total	120
Cobalt	270
Copper	260
Iron	190,000
Lead	110
Manganese	11,000
Mercury	0.72 I
Nickel	160
Selenium	8.7 I
Thallium	ND U
Vanadium	150
Zinc	1,200

Location	GMW02
Sample Name	GMW02
Sample Date	10/21/2025
Metals	
Aluminum	1,500,000
Antimony	4.8 I
Arsenic	1,500
Barium	15,000
Beryllium	78
Cadmium	6 I
Chromium, Total	1,800
Cobalt	1,700
Copper	3,000
Iron	3,000,000
Lead	1,900
Manganese	40,000
Mercury	4
Nickel	2,600
Selenium	210
Thallium	22
Vanadium	2,400
Zinc	8,700

Location	TMW01
Sample Name	TMW01
Sample Date	10/21/2025
Metals	
Aluminum	330,000
Antimony	7.7 I
Arsenic	800
Barium	3,200
Beryllium	20
Cadmium	5.1 I
Chromium, Total	800
Cobalt	450
Copper	940
Iron	870,000
Lead	420
Manganese	23,000
Mercury	0.48 I
Nickel	730
Selenium	63
Thallium	10
Vanadium	710
Zinc	2,200

Location	TMW03
Sample Name	TMW03
Sample Date	10/21/2025
Metals	
Aluminum	15,000
Antimony	0.42 I
Arsenic	23
Barium	170
Beryllium	2.1
Cadmium	0.29 I
Chromium, Total	29
Cobalt	110
Copper	53
Iron	39,000
Lead	26
Manganese	1,800
Mercury	ND U
Nickel	77
Selenium	3.3 I
Thallium	0.46 I
Vanadium	31
Zinc	180

Analyte	EPA RSL THQ 0.1 Tapwater	EPA RSL THQ 0.1 Groundwater MCL
Metals		
Aluminum	2000	NS
Antimony	0.78	6
Arsenic	0.052	10
Barium	380	2000
Beryllium	2.5	4
Cadmium	0.18	5
Calcium	NS	NS
Chromium, Total	2200	100
Cobalt	0.6	NS
Copper	80	1300
Iron	1400	NS
Lead	10	10
Magnesium	NS	NS
Manganese	43	NS
Mercury	0.063	2
Nickel	39	NS
Potassium	NS	NS
Selenium	10	50
Silver	9.4	NS
Sodium	NS	NS
Thallium	0.02	2
Vanadium	8.6	NS
Zinc	600	NS

Exceedance Summary:

10 - Result exceeds EPA RSL THQ 0.1 Tapwater

10 - Result exceeds EPA RSL THQ 0.1 Groundwater MCL

300 0 300

SCALE IN FEET

Legend

- Approximate Location of Previous Monitoring Well Installed by Others
- Monitoring Well Location
- Site Boundary
- Parcel Boundary

Notes:
1. All concentrations ug/L
2.Imagery provided through Langan's subscription to Nearmap.com. Flown on 01/15/2025.
3. All locations of site reconnaissance observations are approximate.
4. Parcel data provided by Regrid.
5. Utility data provided by Rextag.

LANGAN

Langan Engineering and Environmental Services, LLC

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Project
4401 COALBURG ROAD
BIRMINGHAM
JEFFERSON COUNTY AL

Drawing Title
PERCHED WATER ANALYTICAL RESULTS

Project No. 350120001
Date 1/9/2026
Scale 1" = 300 feet
Drawn By LB

Figure **3B**

© 2025 Langan

Path: \\langan.com\data\MIA\other\RBoekenheide\GIS Projects\TAM\400152501_SAL2_4401 Coalburg Road\400152501_SAL2_4401 Coalburg Road_V3.aprx

Figure 4
Soils Management Plan
4401 Coalburg Road
Birmingham, Alabama 35207

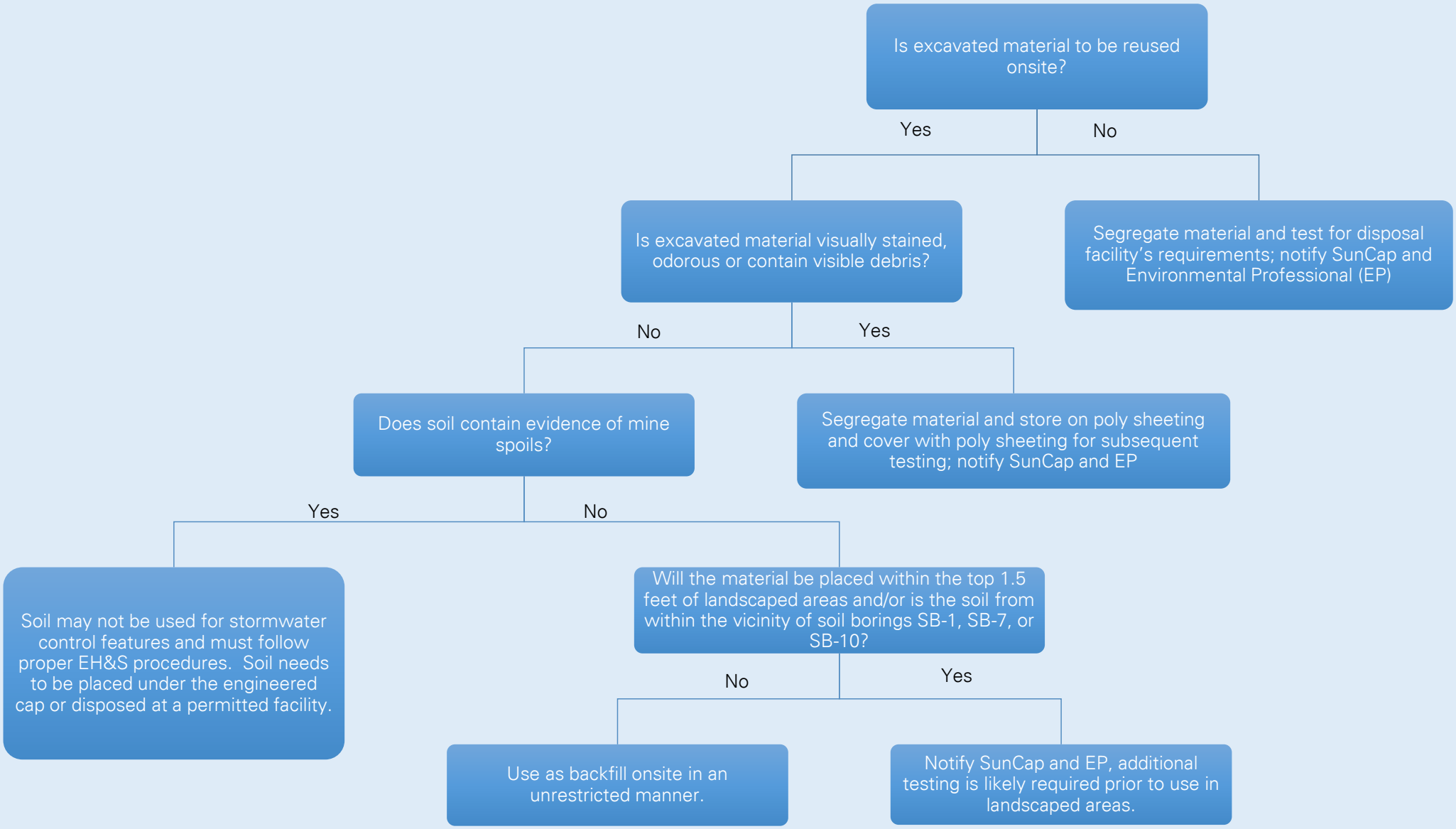
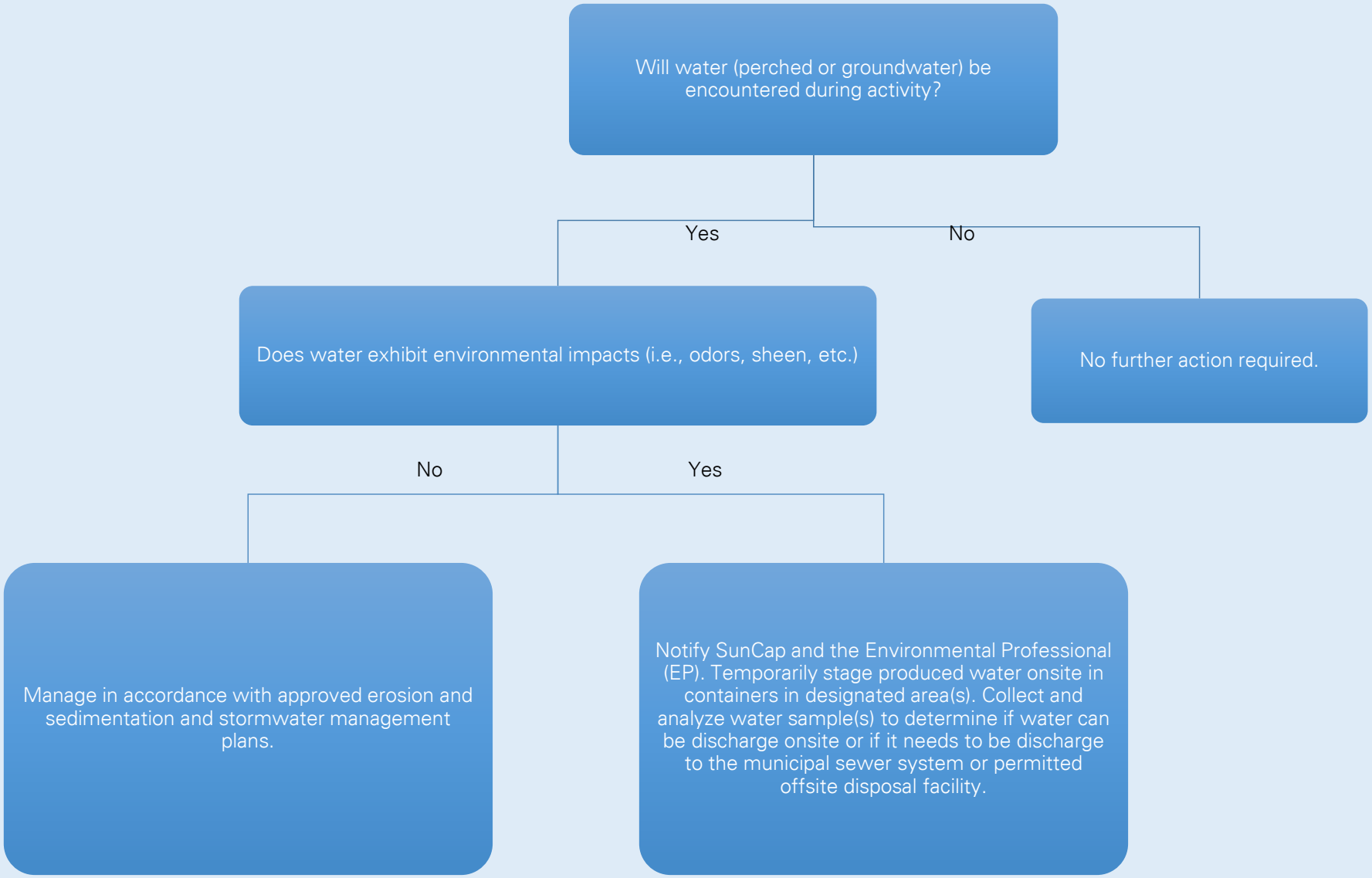


Figure 5
Water Management Plan
4401 Coalburg Road
Birmingham, Alabama 35207



LANGAN

Memorandum

400 N. Ashley Drive, Suite 2175, Tampa, FL 33602 T: 813.439.6100 F: 813.439.6101

To: Lee Garver – SunCap
Ben Scerri – SunCap

From: Thomas Antonacci – Langan
Nicole Rice – Langan

Date: 26 October 2026

Re: Materials Management Plan Addendum #1
4401 Coalburg Road
Burmingham, Jefferson County, Alabama
Langan Project No.: 350120001

Langan Engineering and Environmental Services, LLC (Langan) has prepared this addendum to the Materials Management Plan (MMP) to document deviations from the MMP prepared by Langan and dated 14 January 2026. This addendum documents the approved well abandonment and soil import procedures at the property located at 4401 Coalburg Road, Birmingham, Jefferson County, Alabama (the "Site").

BACKGROUND

Construction activities were initiated at the Site in August 2026 and are ongoing. A Langan representative under the direction of a Langan Environmental Processional (EP), has been periodically onsite since 10 August 2026.

Per the MMP, 1-methylnaphthalene, arsenic, and thallium impacted soil must be capped with hardscaped areas (i.e., buildings or pavement) or with at least 18-inches of imported, clean soil with a demarcation barrier.

DEVIATIONS FROM 14 JANUARY 2026 MMP

Well Abandonment

Four monitoring wells are located at the Site, including TMW-1, TMW-2, GMW-1, and GMW-2. The wells are no longer required for site characterization and are located within an active construction area where they may interfere with ongoing site development activities. Langan submitted a Request for Approval to abandon the wells to the Alabama Department of Environmental Management (ADEM) on 2 October 2026. ADEM approved the request via an email on 5 October 2026. The abandonment procedure and ADEM's approval is included in Attachment 1.

400 N. Ashley Drive, Suite 2175, Tampa, FL 33602 T: 813.439.6100 F: 813.439.6101

Soil Import Requirements

On 28 September 2026, Langan collected ten soil samples from the Norris Paving Inc. site located at 3448 Forestdale Bend Road, Birmingham, Jefferson County, Alabama. The samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260, semi-volatile organic compounds (SVOCs) using USEPA Method 8270, priority pollutant list metals using USEPA Method 6010, polychlorinated biphenyls (PCBs) using USEPA Method 8082, pesticides using USEPA Method 8081, herbicides using USEPA Method 8151, and per- and polyfluoroalkyl substances (PFAS) using USEPA Method 1633. The analytical data were compared to the November 2024 USEPA Industrial Soil Regional Screening Levels (RSLs). Parameters that exceeded their respective USEPA Industrial Soil RSLs were considered a contaminant of potential concern (COPC). Based on the screening evaluation the only parameter identified as a COPC was arsenic. A human health risk assessment (HHRA) was conducted by Langan which supported using soil from the Norris Paving Inc. at the Site as capping material. These results were submitted to ADEM for review and approval in a 12 October 2026 Memorandum. Ultimately, ADEM approved the HHRA via email on 22 October 2026. The memorandum and ADEM's approval are included in Attachments 2 and 3, respectively.

Attachment 1 Well Abandonment Procedure and ADEM Approval

Tom Antonacci

From: Jones, Jackson M <jackson.jones@adem.alabama.gov>
Sent: Monday, October 5, 2026 2:48 PM
To: Tom Antonacci
Subject: RE: 4401 Coalburg Road - Request for Approval to Abandon Monitoring Wells In Place

Follow Up Flag: Follow up
Flag Status: Flagged

Great talking with you Tom. The abandonment process detailed below will be just fine.

Thanks!

Jackson M Jones
Environmental Scientist
Redevelopment Section
Industrial Hazardous Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, Al 36110-2400
(334) 327-9399 (mobile)
(334) 274-4182 (office)
www.adem.alabama.gov

From: Tom Antonacci <tantonacci@langan.com>
Sent: Friday, October 2, 2026 1:32 PM
To: Jones, Jackson M <jackson.jones@adem.alabama.gov>
Subject: 4401 Coalburg Road - Request for Approval to Abandon Monitoring Wells In Place

Hi Jackson,

Langan is requesting ADEM approval to abandon four monitoring wells at the 4401 Coalburg Road site, including TMW-1, TMW-2, GMW-1, and GMW-2. The wells are no longer required for site characterization and are located within an active construction area where they may interfere with ongoing site development activities. All four wells are located outside the proposed building footprint.

Langan proposes to abandon the wells in place by tremie-grouting the wells from the bottom of the screened interval to ground surface using a neat cement-bentonite grout mixture. Following grouting, the PVC risers will be cut off approximately two feet below ground surface, and the upper two feet will be completed with concrete.

Although casing removal is typically preferred, Langan believes abandonment in place is the most appropriate approach for these wells. Because the wells are installed within heterogeneous mine spoil materials, there is a significant likelihood that attempts to remove the PVC casing could either break the PVC casing or cause collapse of the surrounding borehole materials, preventing placement of a continuous grout seal.

As documented in the Assessment Report, groundwater was not encountered as a laterally continuous saturated zone, and groundwater was determined not to be a medium of concern at the site. Accordingly, the proposed abandonment approach will minimize disturbance to the surrounding formation while sealing the wells.

To date, Langan has identified and located TMW-1. We will conduct a visual assessment of the site to locate the remaining wells (TMW-2, GMW-1, and GMW-2). If the remaining wells are located, they will be abandoned using the above methodology. If any of the remaining wells cannot be located during the visual assessment, Langan will revise the Materials Management Plan to document the approximate well locations and require that any monitoring well encountered by the contractor during earthwork activities be abandoned in accordance with the procedure described above.

We currently have a drilling contractor scheduled to mobilize to the site on October 8th. If possible, we respectfully request ADEM's concurrence with the proposed abandonment approach prior to that date so the work may be completed during the scheduled mobilization.

Please let me know if you have any questions or if you need anything else. Thank you again for your continued help.

-Tom

Thomas E. Antonacci, P.G.*
Senior Project Manager

Registered in PA, IN, MS

LANGAN

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Attachment 2 HHRA Memorandum

LANGAN

Memorandum

400 N. Ashley Drive, Suite 2175, Tampa, FL 33602 T: 813.439.6100 F: 813.439.6101

To: Jackson Jones – ADEM

From: Christine Raczka – Langan
Thomas Antonacci – Langan

Info: Lee Garver – SunCap
Ben Scerri – SunCap

Date: 12 October 2026

Re: Human Health Risk Assessment – Potential Import Soil
4401 Coalburg Road
Burmingham, Jefferson County, Alabama
Langan Project No.: 350120001

On behalf of SunCap Property Group, LLC (SunCap), Langan Engineering and Environmental Services, LLC (Langan) has prepared this Human Health Risk Assessment (HHRA) as part of the Alabama Department of Environmental Management (ADEM) Voluntary Cleanup Program (VCP) project at the property located at 4401 Coalburg Road, Jefferson County, Alabama (the "Site"; VCP Site ID No. 461-073-25048). The Site location is shown on Figure 1 and the Site Layout is shown on Figure 2. This HHRA was performed in accordance with United State Environmental Protection Agency (USEPA) and ADEM guidance.

The objectives for the HHRA for the Site are to (1) determine whether offsite soil contains concentrations of chemicals of potential concern (COPC) that pose an unacceptable risk to human health under Site-specific exposure conditions; and (2) support decisions concerning the need for further evaluation or action based upon current and reasonably anticipated future land use.

The technical approach for the HHRA consists of the following basic steps: data evaluation for identification of COPCs, exposure assessment, toxicity assessment, risk characterization, and an assessment of the uncertainty associated with the HHRA process. The HHRA identifies potentially complete exposure pathways to human receptors and estimates the associated health risk and hazards based on reasonable maximum exposure (RME) point concentrations of COPCs. Incomplete pathways are not considered in the HHRA. Cumulative cancer risk estimates were compared to ADEM's target risk level of 1E-05. The cumulative non-cancer hazard index was compared to a threshold hazard index (HI) of unity.

CONCEPTUAL SITE MODEL

The conceptual site model (CSM) identifies potential sources of constituent releases, the fate and transport mechanisms in the environmental media, current and potential future receptors, and potential exposure pathways. The CSM is used as the framework of the exposure model and assumptions in the risk assessment.

Current and known or potential future land use play a significant role in the development of the CSM. Currently, the Site is under active construction to be redeveloped into a commercial

warehouse. The Site, as part of the redevelopment activities, will be capped with either hardscaped or landscaped areas with at least 18-inches of soil fill and a demarcation barrier to prevent contact with impacted soil below. Additionally, a Materials Management Plan (MMP) was prepared as part of the VCP which outlines procedures for worker health and safety, as well as proper management, handling, and disposal of soil and groundwater. Exposure to potential imported fill materials is being evaluated in this HHRA because the chosen engineering and institutional controls have mitigated the risk of exposure to the fill material below and therefore the exposure pathway is incomplete. Given the future land use assumptions, three potential receptor populations were evaluated in this HHRA. These receptors include:

- Construction workers;
- Commercial/Industrial workers; and
- Trespassers.

Construction workers, commercial/industrial workers, and trespassers all represent potential future receptors; no other potential human receptor populations were identified. A hypothetical residential receptor was not identified because the Site is zoned industrial and there is no anticipated change in the zoning. A description of each of the selected receptors and the rationale for their inclusion in the HHRA are provided in the following sections.

For this HHRA, it is assumed that construction workers, commercial workers, and trespasser receptors can potentially be exposed to the imported soil fill material. The potential exposure pathways assessed in the HHRA are incidental ingestion of soil, dermal exposure to soil, and inhalation of fugitive dust.

IDENTIFIED CONTAMINANTS OF POTENTIAL CONCERN

The Site entered the VCP, and the selected engineering control is a site wide cap. Soil (clay) from the Norris Paving Inc. site located at 3448 Forestdale Bend Road, Birmingham, Jefferson County, Alabama, is being evaluated to be imported to the Site to be used as a site wide cap. The soil for potential import is being evaluated in this HHRA. The soil was analyzed for target compound list (TCL) volatile organic compounds (VOCs), TCL SVOCs, pesticides, herbicides, polychlorinated biphenyls (PCBs), metals, and per- and polyfluoroalkyl substances (PFAs). The imported soil analytical data were compared to the November 2024 United States Environmental Protection Agency (USEPA) Industrial Soil Regional Screening Levels (RSLs) (THQ 0.1). Parameters that exceeded their respective USEPA Industrial Soil RSLs were considered a contaminant of potential concern (COPC). Based on the screening evaluation the only parameter identified as a COPC was arsenic. The laboratory analytical report is included as Attachment E, and a screening table comparing the results to the RSLs is included as Table 1.

EXPOSURE POINT CONCENTRATION

The exposure point concentration (EPC) is the concentration of the constituent in a medium (e.g. soil) that is expected to come into contact with an individual and is assumed to be present throughout an exposure area. This HHRA assessed the potential risk to the identified receptors

using the 95% Upper Confidence Limit (95UCL) as an EPC. The 95UCL represents the reasonably expected maximum exposure (RME) concentration (EPA, 1992). The 95UCL was calculated using USEPA's ProUCL 5.2 software. The ProUCL outputs are included as Attachment A.

EXPOSURE ASSESSMENT

An exposure pathway is the course a chemical takes from its source to the exposed receptor. In order for an exposure pathway to be complete, it must contain a source, a transport medium (e.g., soil), a point of contact (receptor), and an exposure route (e.g., ingestion, dermal, or inhalation). If any of these elements is missing, an exposure pathway is deemed incomplete and can be excluded from the quantitative evaluation of risk (USEPA 1989).

Intake Calculations

Chemical exposure/intake is expressed as the amount of the agent at the exchange boundaries of an organism (i.e., skin, lungs, and intestinal tract) that is available for systemic absorption. If the exposure occurred over time, the total exposure can be divided by the time period of interest to obtain an average exposure rate (i.e., milligrams per kilogram (mg/kg)-day)). The general equation, as defined by USEPA (1989), for estimating a time weighted average intake is:

$$Intake\ (mg/kg-day) = \frac{C\ \times IR\ \times EF\ \times ED}{BW\ \times AT}$$

where:

- C = Chemical concentration at the exposure point (mg/kg);
- IR = Intake rate (mg/day);
- EF = Exposure frequency (days/year);
- ED = Exposure duration (years);
- BW = Body weight of exposed individual (kg); and
- AT = Averaging time (period over which exposure is averaged).

The above equation was used to estimate average daily chemical intakes for each exposure route for the identified receptors (with minor alterations to include exposure route-specific parameters).

General Exposure Parameters

While some of the exposure parameters used to estimate intake are exposure route-specific, others are general parameters that remain constant for each exposure route (e.g., oral and dermal) and are present in each intake calculation. These general and route specific exposure parameters are discussed below.

Constituent concentration, exposure frequency (EF), exposure duration (ED), averaging time (AT), and body weight (BW) are general parameters that are included in the intake calculations.

The oral, dermal, and inhalation pathways were evaluated for all identified receptors in this HHRA.

Exposure Frequency

The exposure frequency (EF) describes the number of times per year an event is likely to occur. Variables such as weather, vacations, and institutional controls are considered when determining reasonable and realistic exposure frequencies. The following is a summary of the EFs applied in the receptor-specific exposure models:

A value of 250 days (over the course of a single year) was assumed for the EF for the construction worker and for the commercial/industrial worker (over 25 years) scenario. This EF assumes that the receptor spends two weeks of vacation a year and is considered to best represent a reasonable upper-bound EF (USEPA, 2014).

A value of 12 days per year was used for the trespasser scenario. This conservative value assumes that a trespasser visits the Site once per month on average.

Exposure Duration

The exposure duration (ED) parameter in the intake equation represents the number of years over which an event is likely to occur. Factors affecting this parameter include variables such as age of the receptor and population mobility. Values for EDs applied for each receptor are discussed below:

For the construction worker scenario, the ED value utilized in the exposure model was one year, a reasonable assumption based on the potential future construction activities at the Site.

For the commercial worker and the trespasser scenario, an ED of 25 years was used to assess exposure based on the USEPA (2014) guidance.

Averaging Time

The AT parameter is the period of time over which exposure is averaged. For non-carcinogenic effects, AT_n was used in calculating an average daily exposure, and is calculated as the product of the receptor-specific exposure duration for 365 days each year. Exposures to carcinogens were averaged over a lifetime. The carcinogen averaging time (AT_c) is the product of a 365-day year and a 70-year lifetime, or 25,550 days. This value was used for all receptor scenarios, in accordance with USEPA guidance.

Body Weight

The body weight used for the construction worker, commercial worker, and the trespasser was 80 kg, consistent with USEPA recommendations and guidance for adult body mass.

Route-Specific Exposure Parameters

Intakes due to contact with COPCs vary, depending largely on the physicochemical properties of the COPC and the pathway by which the COPC enters the body. Ingestion, dermal contact, and

inhalation exposure-specific parameters take these differences into account and are addressed in this section.

Incidental Ingestion of Soil

Selected receptors may incidentally consume small amounts of soil during the course of the activities they are involved in. The soil ingestion rates for each applicable receptor are described as follows:

- Given the nature of the activities associated with construction (e.g., earthmoving, excavation), the construction worker scenario is anticipated to be a more soil contact-intensive scenario than a commercial worker. As such, a soil ingestion rate of 330 mg/day was adopted for this assessment based on USEPA guidance.
- The default soil ingestion rate for commercial worker exposures is 50 mg/day as indicated in the USEPA 2014 guidance. This value was utilized for both the commercial worker and the trespasser.

Dermal Exposure to Soil

The following route-specific parameters were included in the general intake equation to estimate dermal uptake of COPCs from soil for the selected receptors: skin surface area available for exposure, skin soil adherence factor, and dermal absorption factor.

Skin Surface Area Available for Exposure

The amount of skin available for exposure (SA) is strongly dependent on the age of the receptor and the nature of activity or work they are doing. The most recent dermal exposure guidance from the USEPA (USEPA 2014) recommends applying an exposed surface area of 3,527 cm^2 for adults in a commercial or industrial setting. This value assumes that the head, hands, and forearms are exposed, and are utilized by construction workers, commercial workers and trespassers in this HHRA.

Soil-to-Skin Adherence Factor

The soil-to-skin adherence factor (AF) is influenced by soil types and varies considerably across different parts of the body (USEPA 2004). Values for the AF parameter were extracted from USEPA (2004 & 2014), and are described for each receptor below:

The USEPA guidance recommends an AF of 0.3 mg/cm^2 for construction workers; therefore, this value was utilized to assess dermal contact with soil for the construction worker.

A value of 0.12 mg/cm^2 was used as a conservative estimate in the dermal exposure assessment for the commercial worker and trespasser. This value was from the USEPA guidance for a commercial worker

Dermal Absorption Fraction

The dermal absorption fraction (ABS) is used to estimate an absorbed dose that reflects the absorption of a chemical across the skin and into the blood stream. The absorbed dose is typically a fraction of the amount of the chemical that actually contacts the skin. Chemical-specific ABS values were used based on USEPA toxicity and chemical-specific values. The ABS values used to estimate dermal exposures to receptors by chemical parameter for this HHRA are noted in Table 2.

Exposure to Fugitive Dust in Ambient Air

Based on the available data, a mathematical model was required for the inhalation pathway to convert the chemical concentration in soil to a corresponding concentration in ambient air. This was accomplished by calculating a soil-to-air particulate emission factor (PEF). The PEF converts concentrations of constituents in soil to concentrations on dust particles in the air (PM_{10}) as a result of fugitive dust emissions from bare surfaces of fine-grained soils. Particulate emissions from soil-impacted sites are due to wind erosion and therefore depend on the erosion potential of the soil.

In its Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, the USEPA (2002) recommends that the fugitive dust inhalation pathway be focused on semi-volatile compounds and metals (volatile compounds are not anticipated to adhere to air-borne soil particles and are addressed separately). Also in this guidance document, the USEPA provides the methodology required to calculate the PEF. Separate equations were used to estimate PEFs for the construction worker and for the commercial worker. Chemical-specific concentrations in soil are multiplied by the inverse of the PEF to derive chemical-specific concentrations of soil dust in the ambient air (C_a), as follows:

$$C_a\ (mg/m^3) = C_s \times \left(\frac{1}{PEF}\right)$$

where:

C_s = Concentration in soil (mg/kg); and
PEF = Particulate emission factor (m^3/kg).

The equations for calculating PEFs are presented in the following sections.

Construction Worker

Construction workers may inhale wind-borne dust particles during a variety of construction activities. The USEPA considers the majority of dust emissions during construction to be liberated from truck traffic on unpaved roads. Consequently, the PEF is based on fugitive dusts that may be generated as a result of construction traffic. The equation used to derive the sub-chronic PEF for the construction worker is as follows:

$$PEF\ (m^3/kg) = Q/C \times \left[\frac{T \times A_R}{556 \times (W/3)^{0.4} \times \frac{365 \times p}{365} \times \sum VKT}\right] \times \frac{1}{F_D}$$

where:

Q/C = Inverse of the ratio of the 1-hour geometric mean air concentration to the emission flux along a straight road segment bisecting a square site (g/m^2-s per kg/m^3);
T = Total time over which construction occurs (s)
A_R = Surface area of contaminated road segment (m^2);
W = Mean vehicle weight (tons);
p = Number of days with at least 0.01 inches of precipitation (days/yr);
VKT = Sum of fleet vehicle kilometers traveled during the exposure duration (km); and
F_D = Dispersion correction factor (unitless).

Site-specific values, such as total time over which construction occurs (T) and the surface area of contaminated road surface (A_R) were incorporated into the construction worker PEF (Attachment B). The value of T assumes that construction will occur over one year. Additionally, the value for A_R assumes the construction of interior access roads and parking lots for redevelopment/construction at the Site. Default parameter values provided in the *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (USEPA 2004) were utilized where Site-specific information was not available. The mean vehicle weight (W) and vehicle kilometers traveled (VKT) terms assume 20, two-ton cars and 10, 20-ton trucks drive along the length of the corridor once daily during construction (USEPA 2002).

For the Birmingham area, the estimated mean number of days with precipitation equal to or greater than 0.01 inches per year is approximately 118 (NOAA 2020). The dispersion factor for wind erosion (Q/C) in the PEF calculation is based on the area of the Site and default constants from air dispersion modeling for specific climatic zones (USEPA 1988, 2002). Data from climate zone VI (Atlanta, Georgia) were used in determining the air dispersion constants.

The inverse dispersion factor (Q/C) is calculated using the equation (USEPA 2002):

$$Q/C = A \times \exp\left[\frac{(\ln A_{site} - B)^2}{C}\right]$$

where:

A = Constant [16.2302 for construction (outdoor) worker (default from Equation D-1 of USEPA 2002) and 14.8349 for commercial worker and trespasser (from Exhibit D-2 of USEPA 2002)];

B = Constant [18.7762 for construction (outdoor) worker (default from Equation D-1 of USEPA 2002) and 17.9259 for commercial worker and trespasser (from Exhibit D-2 of USEPA 2002)];

C = Constant [216.1080 for construction (outdoor) worker (default from Equation D-1 of USEPA 2002) and 204.1516 for commercial worker and trespasser (from Exhibit D-2 of USEPA 2002)];

A_{site} = Affected area of site (acres).

The inverse dispersion factor (*Q/C*) for the construction worker is 65.73 g/m^2 per kg/m^3 based on a site area (A_{site}) of 32.3 acres and the constants presented above. The *Q/C* for wind erosion is 29.49 g/m^2 per kg/m^3

As presented in USEPA (2002), the value for the surface area of contaminated road segment (A_R) is determined from an assumed length of road segment (L_R) and width of road segment (W_R). Assuming that the affected area of the Site (A_{site} =32.3 acres) is configured as a square with the unpaved road segment dividing the square evenly (USEPA 2002), the road length would be equal to the square root of A_{site} (approximately 4.88 m). Based on the assumption of W_R equal to 20 ft (6.1 m), A_R equates to approximately 2.21E+03 m^2.

Commercial Worker and Trespasser

Commercial workers and trespassers may be exposed to residual chemicals in soil via inhalation of chemicals entrained with dust particles due to wind erosion. Inhalation exposures to dust-entrained chemicals for the commercial worker (Attachment C) and trespasser (Attachment D) receptors were estimated using a methodology originally developed by the USEPA for commercial land uses in its *Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals*) (USEPA 1991), and further described in its *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (USEPA 2002). The equation used to derive the PEF for the commercial and trespasser scenarios is as follows:

$$PEF\ (m^3/kg) = Q/C \times \frac{3{,}600}{0.036 \times (1-V) \times (U_m/U_t)^3 \times F(x)}$$

where:

Q/C = Dispersion factor for wind erosion (g/m^2-s per kg/m^3);
V = Fraction of vegetative cover (unitless);
U_m = Mean annual wind speed (m/s);
U_t = Equivalent threshold value of windspeed at 7 m (m/s); and
F(x)= Function dependent on U_m/U_t (unitless).

The default parameter value provided in USEPA (2002) was utilized for the equivalent threshold value of wind speed at 7 meters (Ut) and F(x). Mean annual wind speed was determined for the Birmingham region from data compiled for the Birmingham Shuttlesworth International Airport

by the National Oceanic and Atmospheric Administration's Climate Data Online database over the last 22 years. Fraction of vegetative cover was determined by measuring the area of vegetation at the site, using aerial imagery.

TOXICITY ASSESSMENT

The toxicity values used to evaluate the potential for human health effects from exposure to Site-associated constituents are presented in Table 2. Toxicity assessment consists of compiling the chemical-specific reference dose (RfD), reference concentration (RfC), oral slope factors (SFo), and inhalation unit risk (IUR) to evaluate adverse noncancer health effects and increased likelihood of cancer risks from exposure to COPCs.

Non-Carcinogenic Toxicity Values

Adverse effects can be caused by acute exposure, which is a single or short-term exposure to a toxic substance, or by chronic exposure to lower levels on a continuous or repeated basis over an extended period of time. "Acceptable" acute or chronic levels of exposure to non-carcinogens are considered to be levels without any anticipated adverse effects. Such exposure levels are commonly expressed as reference doses (RfDs). An acceptable exposure level is calculated to provide an adequate margin of safety.

RfDs have been developed by the USEPA for chronic (e.g., lifetime) exposure to constituents based on the most sensitive non-carcinogenic effects. Chronic RfDs, which have been derived for a number of chemicals, are used to evaluate exposures lasting 7 to 70 years (USEPA 1989) for exposure scenarios such as the adult resident. Reference concentrations (RfCs) are protective concentrations of substances in air.

Carcinogenic Toxicity Values

Carcinogenic risk refers to the probability of developing cancer as a result of exposure to known or suspected carcinogens. A cancer slope factor (CSF) is a plausible, upper-bound estimate of the probability of an individual developing cancer as a result of a lifetime of exposure to a particular level of a potential carcinogen. Oral and inhalation CSFs used in the HHRA were extracted from appropriate sources as discussed earlier in this technical memorandum.

Adjustment for Dermal Absorption

Toxicity criteria have not been developed by the USEPA specifically for dermal absorption; instead, oral toxicity criteria are adjusted to assess the dermal exposure pathway. In order to have a meaningful comparison between the dermal absorption dose estimates, which represent internal (or absorbed) doses, and oral toxicity criteria, which typically represent potential (or administered) doses, toxicity criteria are modified to represent absorbed doses.

Oral toxicity values used to evaluate dermal absorption were adjusted for use in risk assessment using the recommended criteria as found in the USEPA's most recent dermal exposure

assessment guidance (USEPA 2004). Following the guidance document, toxicity values were adjusted for gastrointestinal absorption only if chemical-specific gastrointestinal absorption (GIABS) values are less than 50 percent.

Bioavailability of Arsenic

In the absence of reliable site-specific data, the default assumption is that the bioavailability of the contaminant in the exposure medium at the site (e.g., soil, water, etc.) is the same as the bioavailability in the exposure medium used to derive the toxicity value. For arsenic, the toxicity values in USEPA's IRIS are based upon exposure to arsenic in water (USEPA 2012). Recent bioavailability studies conducted in animal models show that bioavailability of arsenic in soil is typically less than that of highly water soluble forms of arsenic (e.g., sodium arsenate dissolved in water). This suggests that bioavailability of arsenic in soil will typically be less than that of arsenic dissolved in drinking water. Consistent with USEPA recommendations, the relative bioavailability for arsenic was set to 0.6, or 60% (USEPA 2012).

RISK CHARACTERIZATION

The objective of the risk characterization is to determine potential risk to receptors by combining the results of the exposure and toxicity assessments.

The potential for non-cancer health effects was evaluated by comparing the site-specific exposure level (the average daily intake of a COPC calculated using the general intake equation with appropriate adjustments depending on the route of exposure) with the RfD or the RfC. This ratio of exposure to toxicity is called the hazard quotient (HQ). For evaluating the non-carcinogenic hazards for multiple constituents, the HQs are summed to produce a HI. If the site-specific exposure level exceeds the effects-based threshold (i.e., the HI exceeds a value greater than 1.0), there may be concern for potential non-carcinogenic effects. The equation for calculating the HQ for incidental ingestion and dermal contact is shown below:

$$HQ = Intake \,/\, RfD$$

where:

Intake = Intake or absorbed dose of a constituent (mg/kg-day); and
RfD = Reference dose of a constituent (mg/kg-day).

The equation for calculating the HQ associated with the inhalation exposure pathway is provided below:

$$HQ = EC \,/\, RfC$$

where:

EC = Exposure concentration of a constituent (mg/m^3); and
RfC = Reference concentration of a constituent (mg/m^3).

For each exposure pathway, the hazard quotients are summed across all COPCs and exposure pathways to obtain the HI for a specific receptor.

The product of the lifetime daily intake and the CSF or the IUR was used to estimate the upper bound incremental lifetime cancer risk (ILCR) for carcinogenic (or potentially carcinogenic) constituents. Carcinogenic risks for the incidental ingestion and dermal contact exposure pathways are estimated using the equation (USEPA 1989):

$$ILCR = Intake \times CSF$$

where:

Intake = Intake or absorbed dose of a constituent (mg/kg-day); and
CSF = Cancer slope factor of a constituent $(mg/kg\text{-}day)^{-1}$.

Carcinogenic risks for the inhalation exposure pathways (ambient vapors and fugitive dust) are estimated using the equation (USEPA 2009):

$$ILCR = EC \times IUR$$

where:

EC = Exposure concentration of a constituent (mg/m^3); and
IUR = Inhalation unit risk factor of a constituent $(mg/m^3)^{-1}$.

For each exposure pathway, this calculation is performed for each COPC considered to be a potential carcinogen, and the risks are summed across all COPCs and exposure pathways to obtain the total risk for a specific receptor. The ADEM endorses an acceptable cumulative cancer risk threshold of 1E-05. A risk characterization summary is provided on Table 3.

Construction Worker

The HI for the construction worker is 6.8E-02 and the ILCR was 3.8E-07. These exposures are assuming direct contact with the shallow soil at the Site.

Commercial Worker

The HI for the commercial worker is 1.1E-02 and the ILCR was 1.7E-06. These exposures are assuming direct contact with the shallow soil at the Site.

Trespasser

The HI for the trespasser is 5.6E-03 and the ILCR was 8.4E-08. These exposures are assuming direct contact with the shallow soil at the Site.

UNCERTAINTY

Although the methods used to calculate carcinogenic and systemic risk at the Site comply with USEPA guidance, there are uncertainties associated with the quantitative risk estimates discussed above. These uncertainties are introduced because of: (1) the need to extrapolate below the dose range of experimental tests; (2) the variability of the receptor population (e.g., smoker vs. non-smoker, genetic predisposition); (3) assumed dose-response relationship

between animals and humans; (4) differences in exposure routes; (5) conservative assumptions; and (6) ignoring background risks. These recognized uncertainties are raised to point out the limitations of this type of study. The assumptions used to estimate exposure in this HHRA were consistently conservative in nature and biased toward protecting human health.

In addition to chemical concentration, route, and duration of exposure, many other factors may influence the likelihood of developing cancer. These include differences in individual nutrition, health status, age, sex, and inherited characteristics, which may affect susceptibility (Versar, 1991). Uncertainty is also compounded with regard to assumptions about scenario settings and availability of contaminated soil for contact. The key factors and assumptions described in the subsections below contributed to uncertainty in the risk assessment.

Exposure Point Concentrations

In the derivation of EPCs, the inclusion of the practical quantitation limit (PQL) as a proxy concentration for chemicals below the PQL (e.g., non-detects) could overestimate risks for chemicals with a low frequency of detection. Alternatively, it could underestimate risks by lowering the mean for a constituent. Likewise, the use of a 95UCL as the EPC for highly skewed data sets could also underestimate risks.

Exposure Assessment

Values assumed for exposure parameters (e.g., ingestion rate and exposure frequency) used in calculation of intakes were based primarily on agency (USEPA) guidance. These assumptions might result in underestimating or overestimating the intakes calculated for specific receptors, depending on the accuracy of the assumptions relative to actual site conditions and land uses. For the commercial and trespasser receptors, an exposure duration of 25 years was used; for the construction worker receptor an exposure duration of one year was used. These durations are considered highly conservative and are likely to result in overestimations of risks. Best professional judgment was applied for various parameters such as exposure frequency, exposure time, and event duration. Conservative values were applied to maintain a conservative assessment of exposure and risk.

Toxicity Factors

Uncertainty is inherent in the toxicity values utilized in evaluating the carcinogenic and non-carcinogenic risks. Such uncertainty is chemical-specific and is incorporated into the toxicity value during its development to ensure that the risk assessment provides a protective evaluation of potential toxicity. For example, an uncertainty factor may be applied for interspecies and intrahuman variability, for extrapolation from subchronic to chronic exposures, or for epidemiological data limitations. Application of uncertainty factors to the RfD and RfC is expected to overestimate risks. Toxicity information is not available for dermal exposure; hence, assumptions are made in order to calculate dermal risks and hazards. These assumptions may overestimate or underestimate risk.

Risk Characterization

The hazards and risks derived based on the data analysis, exposure assessment, and toxicity assessment steps of the risk assessment are inherently uncertain given the uncertainties within each step of the HHRA process. The uncertainty in the risk characterization may be compounded from the uncertainties at these prior stages. The reliance on conservative inputs for various exposure parameters are anticipated to result in overestimation of risks from Site-related chemical stressors. Summing HQ values to derive an HI is a conservative approach given that different chemicals often exert their effects on distinct target organs (USEPA 1989).

CONCLUSION

This HHRA was conducted in accordance with USEPA guidance. The HHRA evaluated the potential risk from constituents in imported soil to the identified receptors. The identified receptors based on current and future land use included: construction workers, commercial workers, and trespassers

The risk assessment supports the following conclusions based on the current Site conditions:

- The non-cancer HIs for the construction worker, commercial worker, and trespasser are below the threshold level of one. The ILCR values for the construction worker, commercial worker, and trespasser are below the acceptable cumulative cancer risk threshold of 1E-05.

Based on the results of the HHRA, soil from the Norris Paving Inc. site can be imported to the Site to be used as a site wide cap.

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Enclosures:

Tables
- Table 1 – Summary of Soil Analytical Results
- Table 2 – Analyte Parameters
- Table 3 – Risk Characterization Summary

Figures
- Figure 1 – Site Location Map
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Attachments
- Attachment A – ProUCL Output
- Attachment B – Construction Worker
- Attachment C – Commercial Worker
- Attachment D – Trespasser
- Attachment E – Laboratory Analytical Reports

Tables

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-01					IFS-02					IFS-03					IFS-04					IFS-05				
			Sample Name	IFS-01-09282026					IFS-02-09282026					IFS-03-09282026					IFS-04-09282026					IFS-05-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	630-20-6	8.75	mg/kg	ND	U	0.00196	0.00376	1.32	ND	U	0.00146	0.00281	1	ND	U	0.00147	0.00283	1	ND	U	0.00154	0.00297	1	ND	U	0.0015	0.00289	1
1,1,1-Trichloroethane	71-55-6	3556	mg/kg	ND	U	0.00217	0.00376	1.32	ND	U	0.00163	0.00281	1	ND	U	0.00164	0.00283	1	ND	U	0.00172	0.00297	1	ND	U	0.00168	0.00289	1
1,1,2,2-Tetrachloroethane	79-34-5	2.67	mg/kg	ND	U	0.00174	0.00376	1.32	ND	U	0.00131	0.00281	1	ND	U	0.00131	0.00283	1	ND	U	0.00138	0.00297	1	ND	U	0.00134	0.00289	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	2814	mg/kg	ND	U	0.00422	0.00751	1.32	ND	U	0.00316	0.00563	1	ND	U	0.00318	0.00565	1	ND	U	0.00334	0.00594	1	ND	U	0.00325	0.00578	1
1,1,2-Trichloroethane	79-00-5	0.63	mg/kg	ND	U	0.00201	0.00376	1.32	ND	U	0.00151	0.00281	1	ND	U	0.00151	0.00283	1	ND	U	0.00159	0.00297	1	ND	U	0.00155	0.00289	1
1,1-Dichloroethane	75-34-3	15.54	mg/kg	ND	U	0.00151	0.00376	1.32	ND	U	0.00114	0.00281	1	ND	U	0.00114	0.00283	1	ND	U	0.0012	0.00297	1	ND	U	0.00117	0.00289	1
1,1-Dichloroethene	75-35-4	2	mg/kg	ND	U	0.0023	0.00376	1.32	ND	U	0.00172	0.00281	1	ND	U	0.00173	0.00283	1	ND	U	0.00182	0.00297	1	ND	U	0.00177	0.00289	1
1,1-Dichloropropene	563-58-6	NS	mg/kg	ND	U	0.00207	0.00751	1.32	ND	U	0.00155	0.00563	1	ND	U	0.00156	0.00565	1	ND	U	0.00164	0.00594	1	ND	U	0.0016	0.00578	1
1,2,3-Trichlorobenzene	87-61-6	93.44	mg/kg	ND	U	0.0105	0.0188	1.32	ND	U	0.00787	0.0141	1	ND	U	0.0079	0.0141	1	ND	U	0.0083	0.0149	1	ND	U	0.00808	0.0145	1
1,2,3-Trichloropropane	96-18-4	0.11	mg/kg	ND	U	0.00919	0.0188	1.32	ND	U	0.00689	0.0141	1	ND	U	0.00692	0.0141	1	ND	U	0.00727	0.0149	1	ND	U	0.00708	0.0145	1
1,2,3-Trimethylbenzene	526-73-8	204.55	mg/kg	ND	U	0.00273	0.00751	1.32	0.00371	J	0.00205	0.00563	1	0.00631		0.00206	0.00565	1	ND	U	0.00216	0.00594	1	ND	U	0.0021	0.00578	1
1,2,4-Trichlorobenzene	120-82-1	25.63	mg/kg	ND	U	0.00814	0.0188	1.32	ND	U	0.0061	0.0141	1	ND	U	0.00613	0.0141	1	ND	U	0.00644	0.0149	1	ND	U	0.00627	0.0145	1
1,2,4-Trimethylbenzene	95-63-6	176.52	mg/kg	ND	U	0.00357	0.00751	1.32	ND	U	0.00268	0.00563	1	0.0223		0.00269	0.00565	1	ND	U	0.00283	0.00594	1	ND	U	0.00275	0.00578	1
1,2-Dibromo-3-Chloropropane	96-12-8	0.064	mg/kg	ND	U	0.016	0.0376	1.32	ND	U	0.012	0.0281	1	ND	U	0.0121	0.0283	1	ND	U	0.0127	0.0297	1	ND	U	0.0124	0.0289	1
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.16	mg/kg	ND	U	0.00189	0.00376	1.32	ND	U	0.00142	0.00281	1	ND	U	0.00142	0.00283	1	ND	U	0.0015	0.00297	1	ND	U	0.00146	0.00289	1
1,2-Dichlorobenzene	95-50-1	932.72	mg/kg	ND	U	0.00234	0.00751	1.32	ND	U	0.00176	0.00563	1	ND	U	0.00176	0.00565	1	ND	U	0.00185	0.00594	1	ND	U	0.0018	0.00578	1
1,2-Dichloroethane	107-06-2	2.04	mg/kg	ND	U	0.0022	0.00376	1.32	ND	U	0.00164	0.00281	1	ND	U	0.00165	0.00283	1	ND	U	0.00173	0.00297	1	ND	U	0.00169	0.00289	1
1,2-Dichloropropane	78-87-5	6.63	mg/kg	ND	U	0.00288	0.00751	1.32	ND	U	0.00216	0.00563	1	ND	U	0.00217	0.00565	1	ND	U	0.00228	0.00594	1	ND	U	0.00222	0.00578	1
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	151.23	mg/kg	ND	U	0.00343	0.00751	1.32	0.0038	J	0.00257	0.00563	1	0.00836		0.00258	0.00565	1	ND	U	0.00271	0.00594	1	ND	U	0.00264	0.00578	1
1,3-Dichlorobenzene	541-73-1	NS	mg/kg	ND	U	0.00248	0.00751	1.32	ND	U	0.00186	0.00563	1	ND	U	0.00187	0.00565	1	ND	U	0.00196	0.00594	1	ND	U	0.00191	0.00578	1
1,3-Dichloropropane	142-28-9	2336	mg/kg	ND	U	0.00244	0.00751	1.32	ND	U	0.00182	0.00563	1	ND	U	0.00183	0.00565	1	ND	U	0.00192	0.00594	1	ND	U	0.00187	0.00578	1
1,4-Dichlorobenzene	106-46-7	11.42	mg/kg	ND	U	0.00263	0.00751	1.32	ND	U	0.00197	0.00563	1	ND	U	0.00198	0.00565	1	ND	U	0.00208	0.00594	1	ND	U	0.00202	0.00578	1
2,2-Dichloropropane	594-20-7	NS	mg/kg	ND	U	0.00304	0.00376	1.32	ND	U	0.00227	0.00281	1	ND	U	0.00228	0.00283	1	ND	U	0.0024	0.00297	1	ND	U	0.00234	0.00289	1
2-Chlorotoluene	95-49-8	2336	mg/kg	ND	U	0.00193	0.00376	1.32	ND	U	0.00145	0.00281	1	ND	U	0.00146	0.00283	1	ND	U	0.00153	0.00297	1	ND	U	0.00149	0.00289	1
4-Chlorotoluene	106-43-4	2336	mg/kg	ND	U	0.00231	0.00751	1.32	ND	U	0.00173	0.00563	1	ND	U	0.00174	0.00565	1	ND	U	0.00183	0.00594	1	ND	U	0.00178	0.00578	1
Acetone	67-64-1	105120	mg/kg	ND	U	0.105	0.15	1.32	ND	U	0.0784	0.113	1	ND	U	0.0788	0.113	1	ND	U	0.0828	0.119	1	ND	U	0.0806	0.116	1
Acrylonitrile	107-13-1	1.1	mg/kg	ND	U	0.0121	0.0188	1.32	ND	U	0.00904	0.0141	1	ND	U	0.00908	0.0141	1	ND	U	0.00954	0.0149	1	ND	U	0.00929	0.0145	1
Benzene	71-43-2	5.08	mg/kg	ND	U	0.00107	0.0015	1.32	ND	U	0.0008	0.00113	1	ND	U	0.000804	0.00113	1	ND	U	0.000845	0.00119	1	ND	U	0.000822	0.00116	1
Bromobenzene	108-86-1	178.04	mg/kg	ND	U	0.00586	0.0188	1.32	ND	U	0.00439	0.0141	1	ND	U	0.00441	0.0141	1	ND	U	0.00463	0.0149	1	ND	U	0.00451	0.0145	1
Bromodichloromethane	75-27-4	1.28	mg/kg	ND	U	0.00175	0.00376	1.32	ND	U	0.00132	0.00281	1	ND	U	0.00132	0.00283	1	ND	U	0.00139	0.00297	1	ND	U	0.00135	0.00289	1
Bromoform	75-25-2	85.74	mg/kg	ND	U	0.0149	0.0376	1.32	ND	U	0.0112	0.0281	1	ND	U	0.0112	0.0283	1	ND	U	0.0118	0.0297	1	ND	U	0.0115	0.0289	1
Bromomethane	74-83-9	3.01	mg/kg	ND	U	0.0151	0.0188	1.32	ND	U	0.0114	0.0141	1	ND	U	0.0114	0.0141	1	ND	U	0.012	0.0149	1	ND	U	0.0117	0.0145	1
Carbon Tetrachloride	56-23-5	2.87	mg/kg	ND	U	0.00452	0.00751	1.32	ND	U	0.00339	0.00563	1	ND	U	0.0034	0.00565	1	ND	U	0.00358	0.00594	1	ND	U	0.00348	0.00578	1
Chlorobenzene	108-90-7	133.14	mg/kg	ND	U	0.00129	0.00376	1.32	ND	U	0.000966	0.00281	1	ND	U	0.00097	0.00283	1	ND	U	0.00102	0.00297	1	ND	U	0.000992	0.00289	1
Chloroethane	75-00-3	2269	mg/kg	ND	U	0.00855	0.015	1.32	ND	U	0.0064	0.0113	1	ND	U	0.00643	0.0113	1	ND	U	0.00676	0.0119	1	ND	U	0.00658	0.0116	1
Chloroform	67-66-3	1.4	mg/kg	ND	U	0.00244	0.00376	1.32	ND	U	0.00182	0.00281	1	ND	U	0.00183	0.00283	1	ND	U	0.00192	0.00297	1	ND	U	0.00187	0.00289	1
Chloromethane	74-87-3	46.35	mg/kg	ND	U	0.0127	0.0188	1.32	ND	U	0.00957	0.0141	1	ND	U	0.00961	0.0141	1	ND	U	0.0101	0.0149	1	ND	U	0.00983	0.0145	1
Cis-1,2-Dichloroethene	156-59-2	36.88	mg/kg	ND	U	0.00193	0.00376	1.32	ND	U	0.00145	0.00281	1	ND	U	0.00146	0.00283	1	ND	U	0.00153	0.00297	1	ND	U	0.00149	0.00289	1
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	ND	U	0.00158	0.00376	1.32	ND	U	0.00118	0.00281	1	ND	U	0.00119	0.00283	1	ND	U	0.00125	0.00297	1	ND	U	0.00121	0.00289	1
Cymene	99-87-6	110	mg/kg	ND	U	0.0032	0.00751	1.32	ND	U	0.0024	0.00563	1	ND	U	0.00241	0.00565	1	ND	U	0.00253	0.00594	1	ND	U	0.00246	0.00578	1
Dibromochloromethane	124-48-1	38.93	mg/kg	ND	U	0.00242	0.00376	1.32	ND	U	0.00181	0.00281	1	ND	U	0.00182	0.00283	1	ND	U	0.00191	0.00297	1	ND	U	0.00186	0.00289	1
Dibromomethane	74-95-3	9.89	mg/kg	ND	U	0.00267	0.00751	1.32	ND	U	0.002	0.00563	1	ND	U	0.00201	0.00565	1	ND	U	0.00211	0.00594	1	ND	U	0.00206	0.00578	1
Dichlorodifluoromethane	75-71-8	36.76	mg/kg	ND	U	0.00653	0.00751	1.32	ND	U	0.0049	0.00563	1	ND	U	0.00492	0.00565	1	ND	U	0.00517	0.00594	1	ND	U	0.00503	0.00578	1
Ethylbenzene	100-41-4	25.42	mg/kg	ND	U	0.00148	0.00376	1.32	0.00144	J	0.00111	0.00281	1	0.0158		0.00112	0.00283	1	ND	U	0.00117	0.00297	1	ND	U	0.00114	0.00289	1
Hexachlorobutadiene	87-68-3	5.26	mg/kg	ND	U	0.0157	0.0376	1.32	ND	U	0.0117	0.0281	1	ND	U	0.0118	0.0283	1	ND	U	0.0124	0.0297	1	ND	U	0.012	0.0289	1
Isopropyl Ether	108-20-3	937.55	mg/kg	ND	U	0.00116	0.0015	1.32	ND	U	0.000865	0.00113	1	ND	U	0.000869	0.00113	1	ND	U	0.000914	0.00119	1	ND	U	0.000889	0.00116	1
Isopropylbenzene (Cumene)	98-82-8	994.76	mg/kg	ND	U	0.00151	0.00376	1.32	0.00141	J	0.00114	0.00281	1	0.00274	J	0.00114	0.00283	1	ND	U	0.0012	0.00297	1	ND	U	0.00117	0.00289	1
Methyl Ethyl Ketone (2-Butanone)	78-93-3	19339	mg/kg	ND	U	0.133	0.15	1.32	ND	U	0.0998	0.113	1	ND	U	0.1	0.113	1	ND	U	0.105	0.119	1	ND	U	0.103	0.116	1
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	13889	mg/kg	ND	U	0.0149	0.0376	1.32	ND	U	0.0112	0.0281	1	ND	U	0.0112	0.0283	1	ND	U	0.0118	0.0297	1	ND	U	0.0115	0.0289	1
Methylene Chloride	75-09-2	316.13	mg/kg	ND	U	0.0165	0.0376	1.32	ND	U	0.0124	0.0281	1	ND	U	0.0124	0.0283	1	ND	U	0.0131	0.0297	1	ND	U	0.0127	0.0289	1
Naphthalene	91-20-3	8.57	mg/kg	ND	U	0.0115	0.0188	1.32	0.0107	J	0.00859	0.0141	1	0.0228		0.00863	0.0141	1	ND	U	0.00906	0.0149	1	ND	U	0.00882	0.0145	1
n-Butylbenzene	104-51-8	5840	mg/kg	ND	U	0.00939	0.0188	1.32	ND	U	0.00703	0.0141	1	ND	U	0.00707	0.0141	1	ND	U	0.00743	0.0149	1	ND	U	0.00723	0.0145	1
n-Propylbenzene	103-65-1	2427	mg/kg	ND	U	0.00254	0.00751	1.32	0.00416	J	0.0019	0.00563	1	0.008		0.00191	0.00565	1	ND	U	0.00201	0.00594	1	ND	U	0.00195	0.00578	1
Sec-Butylbenzene	135-98-8	11680	mg/kg	ND	U	0.00576	0.0188	1.32	ND	U	0.00431	0.0141	1	ND	U	0.00433	0.0141	1	ND	U	0.00455	0.0149	1	ND	U	0.00443	0.0145	1
Styrene	100-42-5	3483	mg/kg	ND	U	0.00668	0.0188	1.32	ND	U	0.00501	0.0141	1	ND	U	0.00503	0.0141	1	ND	U	0.00529	0.0149	1	ND	U	0.00515	0.0145	1
T-Butylbenzene	98-06-6	11680	mg/kg	ND	U	0.00283	0.00751	1.32	ND	U	0.00213	0.00563	1	ND	U	0.00214	0.00565	1	ND	U	0.00225	0.00594	1	ND	U	0.00219	0.00578	1
Tert-Butyl Methyl Ether (MTBE)	1634-04-4	205.07	mg/kg	ND	U	0.00116	0.0015	1.32	ND	U	0.00087	0.00113	1	ND	U	0.000874	0.00113	1	ND	U	0.000918	0.00119	1	ND	U	0.000894	0.00116	1
Tetrachloroethene (PCE)	127-18-4	38.86	mg/kg	ND	U	0.00229	0.00376	1.32	ND	U	0.00171	0.00281	1	ND	U	0.00172	0.00283	1	ND	U	0.00181	0.00297	1	ND	U	0.00176	0.00289	1
Toluene	108-88-3	4683	mg/kg	ND	U	0.00434	0.00751	1.32	ND	U	0.00325	0.00563	1	0.00986		0.00327	0.00565	1	ND	U	0.00343	0.00594	1	ND	U	0.00334	0.00578	1
Total Xylenes	1330-20-7	248.59	mg/kg	ND	U	0.00421	0.00976	1.32	0.006	J	0.00315	0.00731	1	0.12		0.00317	0.00735	1	ND	U	0.00333	0.00772	1	ND	U	0.00324	0.00752	1
Trans-1,2-Dichloroethene	156-60-5	30.19	mg/kg	ND	U	0.00156	0.00751	1.32	ND	U	0.00117	0.00563	1	ND	U	0.00118	0.00565	1	ND	U	0.00124	0.00594	1	ND	U	0.0012	0.00578	1
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	ND	U	0.00158	0.00751	1.32	ND	U	0.00118	0.00563	1	ND	U	0.00119	0.00565	1	ND	U	0.00125	0.00594	1	ND	U	0.00121	0.00578	1
Trichloroethene (TCE)	79-01-6	1.87	mg/kg	ND	U	0.00134	0.0015	1.32	ND	U	0.001	0.00113	1	ND	U	0.00101	0.00113	1	ND	U	0.00106	0.00119	1	ND	U	0.00103	0.00116	1
Trichlorofluoromethane	75-69-4	35040	mg/kg	ND	U	0.00393	0.00601	1.32	ND	U	0.00294	0.0045	1	ND	U	0.00295	0.00452	1	ND	U	0.0031	0.00475	1	ND	U	0.00302	0.00463	1
Vinyl Chloride	75-01-4	1.68	mg/kg	ND	U	0.00302	0.00376	1.32	ND	U	0.00226	0.00281	1	ND	U	0.00227	0.00283	1	ND	U	0.00239	0.00297	1	ND	U	0.00232	0.00289	1

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-01					IFS-02					IFS-03					IFS-04					IFS-05				
			Sample Name	IFS-01-09282026					IFS-02-09282026					IFS-03-09282026					IFS-04-09282026					IFS-05-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	120-82-1	25.63	mg/kg	ND	U	0.0426	0.359	1	ND	U	0.042	0.354	1	ND	U	0.042	0.354	1	ND	U	0.0432	0.364	1	ND	U	0.0425	0.359	1
1,2-Dichlorobenzene	95-50-1	932.72	mg/kg	ND	U	0.0308	0.359	1	ND	U	0.0304	0.354	1	ND	U	0.0304	0.354	1	ND	U	0.0313	0.364	1	ND	U	0.0308	0.359	1
1,3-Dichlorobenzene	541-73-1	NS	mg/kg	ND	U	0.0313	0.359	1	ND	U	0.0308	0.354	1	ND	U	0.0308	0.354	1	ND	U	0.0317	0.364	1	ND	U	0.0312	0.359	1
1,4-Dichlorobenzene	106-46-7	11.42	mg/kg	ND	U	0.0308	0.359	1	ND	U	0.0304	0.354	1	ND	U	0.0304	0.354	1	ND	U	0.0313	0.364	1	ND	U	0.0308	0.359	1
2,4,6-Trichlorophenol	88-06-2	82.07	mg/kg	ND	U	0.0858	0.359	1	ND	U	0.0846	0.354	1	ND	U	0.0847	0.354	1	ND	U	0.087	0.364	1	ND	U	0.0857	0.359	1
2,4-Dichlorophenol	120-83-2	246.2	mg/kg	ND	U	0.0473	0.359	1	ND	U	0.0467	0.354	1	ND	U	0.0467	0.354	1	ND	U	0.048	0.364	1	ND	U	0.0473	0.359	1
2,4-Dimethylphenol	105-67-9	1641	mg/kg	ND	U	0.192	0.359	1	ND	U	0.189	0.354	1	ND	U	0.189	0.354	1	ND	U	0.195	0.364	1	ND	U	0.192	0.359	1
2,4-Dinitrophenol	51-28-5	164.13	mg/kg	ND	U	0.137	0.359	1	ND	U	0.135	0.354	1	ND	U	0.135	0.354	1	ND	U	0.139	0.364	1	ND	U	0.137	0.359	1
2,4-Dinitrotoluene	121-14-2	7.37	mg/kg	ND	U	0.0712	0.359	1	ND	U	0.0701	0.354	1	ND	U	0.0702	0.354	1	ND	U	0.0721	0.364	1	ND	U	0.0711	0.359	1
2,6-Dinitrotoluene	606-20-2	1.54	mg/kg	ND	U	0.0677	0.359	1	ND	U	0.0667	0.354	1	ND	U	0.0668	0.354	1	ND	U	0.0686	0.364	1	ND	U	0.0676	0.359	1
2-Chloronaphthalene	91-58-7	6028	mg/kg	ND	U	0.00535	0.0359	1	ND	U	0.00527	0.0354	1	ND	U	0.00528	0.0354	1	ND	U	0.00542	0.0364	1	ND	U	0.00534	0.0359	1
2-Chlorophenol	95-57-8	584	mg/kg	ND	U	0.0373	0.359	1	ND	U	0.0368	0.354	1	ND	U	0.0368	0.354	1	ND	U	0.0378	0.364	1	ND	U	0.0373	0.359	1
2-Nitrophenol	88-75-5	NS	mg/kg	ND	U	0.0533	0.359	1	ND	U	0.0525	0.354	1	ND	U	0.0525	0.354	1	ND	U	0.054	0.364	1	ND	U	0.0532	0.359	1
3,3'-Dichlorobenzidine	91-94-1	5.11	mg/kg	ND	U	0.137	0.359	1	ND	U	0.135	0.354	1	ND	U	0.135	0.354	1	ND	U	0.139	0.364	1	ND	U	0.137	0.359	1
4,6-Dinitro-2-Methylphenol	534-52-1	6.57	mg/kg	ND	U	0.11	0.359	1	ND	U	0.108	0.354	1	ND	U	0.108	0.354	1	ND	U	0.111	0.364	1	ND	U	0.11	0.359	1
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	ND	U	0.0512	0.359	1	ND	U	0.0505	0.354	1	ND	U	0.0505	0.354	1	ND	U	0.0519	0.364	1	ND	U	0.0512	0.359	1
4-Chloro-3-Methylphenol	59-50-7	8207	mg/kg	ND	U	0.0561	0.359	1	ND	U	0.0553	0.354	1	ND	U	0.0553	0.354	1	ND	U	0.0568	0.364	1	ND	U	0.056	0.359	1
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	ND	U	0.0512	0.359	1	ND	U	0.0505	0.354	1	ND	U	0.0505	0.354	1	ND	U	0.0519	0.364	1	ND	U	0.0512	0.359	1
4-Nitrophenol	100-02-7	NS	mg/kg	ND	U	0.114	0.359	1	ND	U	0.113	0.354	1	ND	U	0.113	0.354	1	ND	U	0.116	0.364	1	ND	U	0.114	0.359	1
Acenaphthene	83-32-9	4521	mg/kg	ND	U	0.00581	0.0359	1	ND	U	0.00573	0.0354	1	ND	U	0.00573	0.0354	1	ND	U	0.00589	0.0364	1	ND	U	0.0058	0.0359	1
Acenaphthylene	208-96-8	NS	mg/kg	ND	U	0.00611	0.0359	1	ND	U	0.00603	0.0354	1	ND	U	0.00603	0.0354	1	ND	U	0.0062	0.0364	1	ND	U	0.00611	0.0359	1
Anthracene	120-12-7	22603	mg/kg	ND	U	0.00441	0.0359	1	ND	U	0.00435	0.0354	1	ND	U	0.00435	0.0354	1	ND	U	0.00447	0.0364	1	ND	U	0.0044	0.0359	1
Benzidine	92-87-5	0.01	mg/kg	ND	U	*1.08*	1.8	1	ND	U	*1.06*	1.77	1	ND	U	*1.06*	1.78	1	ND	U	*1.09*	1.83	1	ND	U	*1.08*	1.8	1
Benzo(a)anthracene	56-55-3	20.61	mg/kg	ND	U	0.0041	0.0359	1	ND	U	0.00404	0.0354	1	ND	U	0.00404	0.0354	1	ND	U	0.00415	0.0364	1	ND	U	0.00409	0.0359	1
Benzo(a)pyrene	50-32-8	2.11	mg/kg	ND	U	0.0072	0.0359	1	ND	U	0.0071	0.0354	1	ND	U	0.00711	0.0354	1	ND	U	0.0073	0.0364	1	ND	U	0.00719	0.0359	1
Benzo(b)fluoranthene	205-99-2	21.09	mg/kg	ND	U	0.00584	0.0359	1	ND	U	0.00576	0.0354	1	ND	U	0.00576	0.0354	1	ND	U	0.00592	0.0364	1	ND	U	0.00584	0.0359	1
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	ND	U	0.00694	0.0359	1	ND	U	0.00684	0.0354	1	ND	U	0.00685	0.0354	1	ND	U	0.00704	0.0364	1	ND	U	0.00694	0.0359	1
Benzo(k)fluoranthene	207-08-9	210.95	mg/kg	ND	U	0.00522	0.0359	1	ND	U	0.00514	0.0354	1	ND	U	0.00515	0.0354	1	ND	U	0.00529	0.0364	1	ND	U	0.00521	0.0359	1
Benzyl Butyl Phthalate	85-68-7	1209	mg/kg	ND	U	0.0696	0.359	1	ND	U	0.0685	0.354	1	ND	U	0.0686	0.354	1	ND	U	0.0705	0.364	1	ND	U	0.0695	0.359	1
Bis(2-chloroethoxy) methane	111-91-1	246.2	mg/kg	ND	U	0.0389	0.359	1	ND	U	0.0384	0.354	1	ND	U	0.0384	0.354	1	ND	U	0.0395	0.364	1	ND	U	0.0389	0.359	1
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1.03	mg/kg	ND	U	0.0678	0.359	1	ND	U	0.0668	0.354	1	ND	U	0.0669	0.354	1	ND	U	0.0687	0.364	1	ND	U	0.0677	0.359	1
Bis(2-chloroisopropyl) ether	108-60-1	4672	mg/kg	ND	U	0.077	0.359	1	ND	U	0.0759	0.354	1	ND	U	0.0759	0.354	1	ND	U	0.078	0.364	1	ND	U	0.0769	0.359	1
Bis(2-ethylhexyl) phthalate	117-81-7	164.13	mg/kg	ND	U	0.0708	0.359	1	ND	U	0.0698	0.354	1	ND	U	0.0699	0.354	1	ND	U	0.0718	0.364	1	ND	U	0.0708	0.359	1
Chrysene	218-01-9	2109	mg/kg	ND	U	0.00373	0.0359	1	0.00805	J	0.00368	0.0354	1	ND	U	0.00368	0.0354	1	ND	U	0.00378	0.0364	1	ND	U	0.00373	0.0359	1
Dibenz(a,h)anthracene	53-70-3	2.11	mg/kg	ND	U	0.00634	0.0359	1	ND	U	0.00625	0.0354	1	ND	U	0.00625	0.0354	1	ND	U	0.00643	0.0364	1	ND	U	0.00633	0.0359	1
Dibutyl phthalate	84-74-2	8207	mg/kg	ND	U	0.0483	0.359	1	ND	U	0.0476	0.354	1	ND	U	0.0477	0.354	1	ND	U	0.049	0.364	1	ND	U	0.0482	0.359	1
Diethyl phthalate	84-66-2	65653	mg/kg	ND	U	0.0556	0.359	1	ND	U	0.0548	0.354	1	ND	U	0.0549	0.354	1	ND	U	0.0564	0.364	1	ND	U	0.0556	0.359	1
Dimethyl phthalate	131-11-3	NS	mg/kg	ND	U	0.0482	0.359	1	ND	U	0.0475	0.354	1	ND	U	0.0475	0.354	1	ND	U	0.0489	0.364	1	ND	U	0.0481	0.359	1
Dioctyl phthalate	117-84-0	820.66	mg/kg	ND	U	0.159	0.359	1	ND	U	0.156	0.354	1	ND	U	0.156	0.354	1	ND	U	0.161	0.364	1	ND	U	0.158	0.359	1
Fluoranthene	206-44-0	3014	mg/kg	ND	U	0.00463	0.0359	1	ND	U	0.00456	0.0354	1	ND	U	0.00456	0.0354	1	ND	U	0.00469	0.0364	1	ND	U	0.00462	0.0359	1
Fluorene	86-73-7	3014	mg/kg	ND	U	0.00536	0.0359	1	0.0065	J	0.00528	0.0354	1	0.00753	J	0.00529	0.0354	1	ND	U	0.00543	0.0364	1	ND	U	0.00535	0.0359	1
Hexachlorobenzene	118-74-1	0.96	mg/kg	ND	U	0.0587	0.359	1	ND	U	0.0578	0.354	1	ND	U	0.0579	0.354	1	ND	U	0.0595	0.364	1	ND	U	0.0586	0.359	1
Hexachlorobutadiene	87-68-3	5.26	mg/kg	ND	U	0.0569	0.359	1	ND	U	0.0561	0.354	1	ND	U	0.0562	0.354	1	ND	U	0.0577	0.364	1	ND	U	0.0569	0.359	1
Hexachlorocyclopentadiene	77-47-4	0.75	mg/kg	ND	U	0.11	0.359	1	ND	U	0.108	0.354	1	ND	U	0.108	0.354	1	ND	U	0.111	0.364	1	ND	U	0.11	0.359	1
Hexachloroethane	67-72-1	8.05	mg/kg	ND	U	0.0442	0.359	1	ND	U	0.0436	0.354	1	ND	U	0.0436	0.354	1	ND	U	0.0448	0.364	1	ND	U	0.0442	0.359	1
Indeno(1,2,3-cd)pyrene	193-39-5	21.09	mg/kg	ND	U	0.00721	0.0359	1	ND	U	0.00711	0.0354	1	ND	U	0.00712	0.0354	1	ND	U	0.00731	0.0364	1	ND	U	0.0072	0.0359	1
Isophorone	78-59-1	2419	mg/kg	ND	U	0.0452	0.359	1	ND	U	0.0445	0.354	1	ND	U	0.0446	0.354	1	ND	U	0.0458	0.364	1	ND	U	0.0451	0.359	1
Naphthalene	91-20-3	8.57	mg/kg	ND	U	0.0126	0.0359	1	ND	U	0.0124	0.0354	1	ND	U	0.0124	0.0354	1	ND	U	0.0128	0.0364	1	ND	U	0.0126	0.0359	1
Nitrobenzene	98-95-3	22.45	mg/kg	ND	U	0.0485	0.359	1	ND	U	0.0478	0.354	1	ND	U	0.0479	0.354	1	ND	U	0.0492	0.364	1	ND	U	0.0485	0.359	1
n-Nitrosodimethylamine	62-75-9	0.034	mg/kg	ND	U	*0.0843*	0.359	1	ND	U	*0.0831*	0.354	1	ND	U	*0.0832*	0.354	1	ND	U	*0.0855*	0.364	1	ND	U	*0.0842*	0.359	1
n-Nitrosodi-N-Propylamine	621-64-7	0.33	mg/kg	ND	U	0.0569	0.359	1	ND	U	0.0561	0.354	1	ND	U	0.0562	0.354	1	ND	U	0.0577	0.364	1	ND	U	0.0569	0.359	1
n-Nitrosodiphenylamine	86-30-6	468.92	mg/kg	ND	U	0.046	0.359	1	ND	U	0.0454	0.354	1	ND	U	0.0454	0.354	1	ND	U	0.0467	0.364	1	ND	U	0.046	0.359	1
Pentachlorophenol	87-86-5	3.97	mg/kg	ND	U	0.135	0.359	1	ND	U	0.133	0.354	1	ND	U	0.133	0.354	1	ND	U	0.137	0.364	1	ND	U	0.135	0.359	1
Phenanthrene	85-01-8	NS	mg/kg	ND	U	0.00395	0.0359	1	0.0159	J	0.00389	0.0354	1	0.0133	J	0.00389	0.0354	1	0.00486	J	0.004	0.0364	1	ND	U	0.00394	0.0359	1
Phenol	108-95-2	24615	mg/kg	ND	U	0.0611	0.359	1	ND	U	0.0603	0.354	1	ND	U	0.0603	0.354	1	ND	U	0.062	0.364	1	ND	U	0.0611	0.359	1
Pyrene	129-00-0	2260	mg/kg	ND	U	0.00402	0.0359	1	ND	U	0.00396	0.0354	1	ND	U	0.00397	0.0354	1	ND	U	0.00408	0.0364	1	ND	U	0.00402	0.0359	1

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-01					IFS-02					IFS-03					IFS-04					IFS-05				
			Sample Name	IFS-01-09282026					IFS-02-09282026					IFS-03-09282026					IFS-04-09282026					IFS-05-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Pesticides																												
4,4'-DDD	72-54-8	9.57	mg/kg	ND	U	0.00744	0.0216	1	ND	U	0.00733	0.0213	1	ND	U	0.00734	0.0213	1	ND	U	0.00754	0.0219	1	ND	U	0.00743	0.0215	1
4,4'-DDE	72-55-9	9.28	mg/kg	ND	U	0.00726	0.0216	1	ND	U	0.00715	0.0213	1	ND	U	0.00716	0.0213	1	ND	U	0.00735	0.0219	1	ND	U	0.00725	0.0215	1
4,4'-DDT	50-29-3	8.53	mg/kg	ND	U	0.00826	0.0216	1	ND	U	0.00814	0.0213	1	ND	U	0.00815	0.0213	1	ND	U	0.00837	0.0219	1	ND	U	0.00825	0.0215	1
Aldrin	309-00-2	0.18	mg/kg	ND	U	0.00696	0.0216	1	ND	U	0.00685	0.0213	1	ND	U	0.00686	0.0213	1	ND	U	0.00705	0.0219	1	ND	U	0.00695	0.0215	1
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.36	mg/kg	ND	U	0.00687	0.0216	1	ND	U	0.00677	0.0213	1	ND	U	0.00678	0.0213	1	ND	U	0.00696	0.0219	1	ND	U	0.00686	0.0215	1
Alpha Endosulfan	959-98-8	NS	mg/kg	ND	U	0.00651	0.0216	1	ND	U	0.00642	0.0213	1	ND	U	0.00642	0.0213	1	ND	U	0.0066	0.0219	1	ND	U	0.0065	0.0215	1
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	1.28	mg/kg	ND	U	0.00679	0.0216	1	ND	U	0.00669	0.0213	1	ND	U	0.0067	0.0213	1	ND	U	0.00688	0.0219	1	ND	U	0.00678	0.0215	1
Beta Endosulfan	33213-65-9	NS	mg/kg	ND	U	0.00713	0.0216	1	ND	U	0.00702	0.0213	1	ND	U	0.00703	0.0213	1	ND	U	0.00722	0.0219	1	ND	U	0.00712	0.0215	1
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	ND	U	0.107	0.324	1	ND	U	0.105	0.319	1	ND	U	0.105	0.319	1	ND	U	0.108	0.328	1	ND	U	0.107	0.323	1
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.0049	mg/kg	ND	U	*0.00685*	0.0216	1	ND	U	*0.00675*	0.0213	1	ND	U	*0.00675*	0.0213	1	ND	U	*0.00694*	0.0219	1	ND	U	*0.00684*	0.0215	1
Dieldrin	60-57-1	0.14	mg/kg	ND	U	0.00752	0.0216	1	ND	U	0.00741	0.0213	1	ND	U	0.00741	0.0213	1	ND	U	0.00762	0.0219	1	ND	U	0.00751	0.0215	1
Endosulfan Sulfate	1031-07-8	492.4	mg/kg	ND	U	0.00692	0.0216	1	ND	U	0.00682	0.0213	1	ND	U	0.00683	0.0213	1	ND	U	0.00702	0.0219	1	ND	U	0.00691	0.0215	1
Endrin	72-20-8	24.62	mg/kg	ND	U	0.00804	0.0216	1	ND	U	0.00793	0.0213	1	ND	U	0.00793	0.0213	1	ND	U	0.00815	0.0219	1	ND	U	0.00803	0.0215	1
Endrin Aldehyde	7421-93-4	NS	mg/kg	ND	U	0.00636	0.0216	1	ND	U	0.00627	0.0213	1	ND	U	0.00628	0.0213	1	ND	U	0.00645	0.0219	1	ND	U	0.00635	0.0215	1
Endrin Ketone	53494-70-5	NS	mg/kg	ND	U	0.00749	0.0216	1	ND	U	0.00739	0.0213	1	ND	U	0.00739	0.0213	1	ND	U	0.0076	0.0219	1	ND	U	0.00748	0.0215	1
Gamma Bhc (Lindane)	58-89-9	0.08	mg/kg	ND	U	0.00729	0.0216	1	ND	U	0.00718	0.0213	1	ND	U	0.00719	0.0213	1	ND	U	0.00739	0.0219	1	ND	U	0.00728	0.0215	1
Heptachlor	76-44-8	0.63	mg/kg	ND	U	0.00747	0.0216	1	ND	U	0.00736	0.0213	1	ND	U	0.00737	0.0213	1	ND	U	0.00757	0.0219	1	ND	U	0.00746	0.0215	1
Heptachlor Epoxide	1024-57-3	0.33	mg/kg	ND	U	0.00701	0.0216	1	ND	U	0.00691	0.0213	1	ND	U	0.00691	0.0213	1	ND	U	0.0071	0.0219	1	ND	U	0.007	0.0215	1
Hexachlorobenzene	118-74-1	0.96	mg/kg	ND	U	0.00656	0.0216	1	ND	U	0.00646	0.0213	1	ND	U	0.00647	0.0213	1	ND	U	0.00664	0.0219	1	ND	U	0.00655	0.0215	1
Methoxychlor	72-43-5	410.33	mg/kg	ND	U	0.00869	0.0216	1	ND	U	0.00856	0.0213	1	ND	U	0.00857	0.0213	1	ND	U	0.00881	0.0219	1	ND	U	0.00868	0.0215	1
Toxaphene	8001-35-2	2.09	mg/kg	ND	U	0.231	0.431	1	ND	U	0.227	0.425	1	ND	U	0.228	0.425	1	ND	U	0.234	0.437	1	ND	U	0.23	0.431	1
Herbicides																												
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	820.66	mg/kg	ND	U	0.0101	0.0222	1.03	ND	U	0.00965	0.0213	1	ND	U	0.00966	0.0213	1	ND	U	0.00992	0.0219	1	ND	U	0.0101	0.0222	1.03
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	964	mg/kg	ND	U	0.0111	0.0222	1.03	ND	U	0.0106	0.0213	1	ND	U	0.0106	0.0213	1	ND	U	0.0109	0.0219	1	ND	U	0.0111	0.0222	1.03
2,4-Dichlorophenoxybutyric acid	94-82-6	NS	mg/kg	ND	U	0.00892	0.0222	1.03	ND	U	0.00853	0.0213	1	ND	U	0.00854	0.0213	1	ND	U	0.00878	0.0219	1	ND	U	0.00891	0.0222	1.03
Dalapon	75-99-0	2462	mg/kg	ND	U	0.0081	0.0222	1.03	ND	U	0.00775	0.0213	1	ND	U	0.00775	0.0213	1	ND	U	0.00797	0.0219	1	ND	U	0.00809	0.0222	1.03
Dicamba	1918-00-9	2462	mg/kg	ND	U	0.0108	0.0222	1.03	ND	U	0.0104	0.0213	1	ND	U	0.0104	0.0213	1	ND	U	0.0107	0.0219	1	ND	U	0.0108	0.0222	1.03
Dichloroprop	120-36-5	NS	mg/kg	ND	U	0.00621	0.0222	1.03	ND	U	0.00594	0.0213	1	ND	U	0.00595	0.0213	1	ND	U	0.00611	0.0219	1	ND	U	0.0062	0.0222	1.03
Dinoseb	88-85-7	82.07	mg/kg	ND	U	0.00553	0.0222	1.03	ND	U	0.00529	0.0213	1	ND	U	0.0053	0.0213	1	ND	U	0.00544	0.0219	1	ND	U	0.00552	0.0222	1.03
MCPA	94-74-6	41.03	mg/kg	ND	U	0.0104	0.0222	1.03	ND	U	0.00995	0.0213	1	ND	U	0.00996	0.0213	1	ND	U	0.0102	0.0219	1	ND	U	0.0104	0.0222	1.03
MCPP	93-65-2	82.07	mg/kg	ND	U	0.00579	0.0222	1.03	ND	U	0.00554	0.0213	1	ND	U	0.00554	0.0213	1	ND	U	0.00569	0.0219	1	ND	U	0.00578	0.0222	1.03
Silvex (2,4,5-Tp)	93-72-1	656.53	mg/kg	ND	U	0.00613	0.0222	1.03	ND	U	0.00586	0.0213	1	ND	U	0.00586	0.0213	1	ND	U	0.00602	0.0219	1	ND	U	0.00612	0.0222	1.03
Polychlorinated Biphenyl																												
PCB-1016 (Aroclor 1016)	12674-11-2	5.13	mg/kg	ND	U	0.011	0.0367	1	ND	U	0.0108	0.0361	1	ND	U	0.0108	0.0362	1	ND	U	0.0111	0.0372	1	ND	U	0.011	0.0366	1
PCB-1221 (Aroclor 1221)	11104-28-2	0.83	mg/kg	ND	U	0.0115	0.0367	1	ND	U	0.0114	0.0361	1	ND	U	0.0114	0.0362	1	ND	U	0.0117	0.0372	1	ND	U	0.0115	0.0366	1
PCB-1232 (Aroclor 1232)	11141-16-5	0.72	mg/kg	ND	U	0.00967	0.0367	1	ND	U	0.00953	0.0361	1	ND	U	0.00954	0.0362	1	ND	U	0.0098	0.0372	1	ND	U	0.00966	0.0366	1
PCB-1242 (Aroclor 1242)	53469-21-9	0.95	mg/kg	ND	U	0.0109	0.0367	1	ND	U	0.0107	0.0361	1	ND	U	0.0107	0.0362	1	ND	U	0.011	0.0372	1	ND	U	0.0109	0.0366	1
PCB-1248 (Aroclor 1248)	12672-29-6	0.94	mg/kg	ND	U	0.0134	0.0183	1	ND	U	0.0132	0.0181	1	ND	U	0.0132	0.0181	1	ND	U	0.0136	0.0186	1	ND	U	0.0134	0.0183	1
PCB-1254 (Aroclor 1254)	11097-69-1	0.97	mg/kg	ND	U	0.0112	0.0183	1	ND	U	0.0111	0.0181	1	ND	U	0.0111	0.0181	1	ND	U	0.0114	0.0186	1	ND	U	0.0112	0.0183	1
PCB-1260 (Aroclor 1260)	11096-82-5	0.99	mg/kg	ND	U	0.0119	0.0183	1	ND	U	0.0117	0.0181	1	ND	U	0.0117	0.0181	1	ND	U	0.012	0.0186	1	ND	U	0.0118	0.0183	1
Metals																												
Antimony	7440-36-0	46.71	mg/kg	ND	U	0.745	2.16	1	ND	U	0.734	2.13	1	ND	U	0.735	2.13	1	ND	U	0.755	2.19	1	ND	U	0.744	2.15	1
Arsenic	7440-38-2	3	mg/kg	7.1		0.903	2.16	1	7.58		0.889	2.13	1	7.42		0.89	2.13	1	6.59		0.915	2.19	1	10.1		0.901	2.15	1
Beryllium	7440-41-7	229.11	mg/kg	0.889		0.0514	0.216	1	0.783		0.0507	0.213	1	1.03		0.0507	0.213	1	0.982		0.0521	0.219	1	1.34		0.0514	0.215	1
Cadmium	7440-43-9	9.97	mg/kg	0.237	J	0.0704	0.539	1	0.21	J	0.0694	0.531	1	0.225	J	0.0695	0.532	1	0.152	J	0.0714	0.546	1	0.201	J	0.0703	0.538	1
Chromium, Total	7440-47-3	NS	mg/kg	19.3		0.231	1.08	1	22.2		0.227	1.06	1	22.2		0.228	1.06	1	21.6		0.234	1.09	1	22.3		0.23	1.08	1
Copper	7440-50-8	4672	mg/kg	42.7		0.385	2.16	1	46.9		0.379	2.13	1	48.2		0.38	2.13	1	42.3		0.39	2.19	1	46.1		0.384	2.15	1
Lead	7439-92-1	800	mg/kg	20.1		0.352	0.539	1	20		0.346	0.531	1	21.8		0.347	0.532	1	19.1		0.356	0.546	1	23.4		0.351	0.538	1
Mercury	7439-97-6	3	mg/kg	ND	U	0.0222	0.0431	1	ND	U	0.0219	0.0425	1	ND	U	0.0219	0.0425	1	ND	U	0.0225	0.0437	1	ND	U	0.0222	0.0431	1
Nickel	7440-02-0	1700	mg/kg	44.1		0.216	2.16	1	45.5		0.213	2.13	1	39.2		0.213	2.13	1	29.7		0.219	2.19	1	39.7		0.215	2.15	1
Selenium	7782-49-2	583.97	mg/kg	1.24	J	1.15	2.16	1	1.15	J	1.14	2.13	1	1.74	J	1.14	2.13	1	ND	U	1.17	2.19	1	1.31	J	1.15	2.15	1
Silver	7440-22-4	584	mg/kg	ND	U	0.137	1.08	1	ND	U	0.135	1.06	1	ND	U	0.135	1.06	1	ND	U	0.139	1.09	1	ND	U	0.137	1.08	1
Thallium	7440-28-0	1.17	mg/kg	ND	U	0.559	2.16	1	ND	U	0.55	2.13	1	ND	U	0.551	2.13	1	ND	U	0.566	2.19	1	ND	U	0.558	2.15	1
Zinc	7440-66-6	35040	mg/kg	115		1.05	5.39	1	123		1.04	5.31	1	127		1.04	5.32	1	98.7		1.06	5.46	1	108		1.05	5.38	1

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Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-01					IFS-02					IFS-03					IFS-04					IFS-05				
			Sample Name	IFS-01-09282026					IFS-02-09282026					IFS-03-09282026					IFS-04-09282026					IFS-05-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Per- and Polyfluoroalkyl Substances																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	ND	U	0.000391	0.00079	1	ND	U	0.000395	0.000797	1	ND	U	0.000399	0.000805	1	ND	U	0.000379	0.000766	1	ND	U	0.000388	0.000785	1
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2 FTS)	39108-34-4	NS	mg/kg	ND	U	0.000233	0.00079	1	ND	U	0.000235	0.000797	1	ND	U	0.000238	0.000805	1	ND	U	0.000226	0.000766	1	ND	U	0.000232	0.000785	1
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	ND	U	0.000152	0.00079	1	ND	U	0.000154	0.000797	1	ND	U	0.000155	0.000805	1	ND	U	0.000147	0.000766	1	ND	U	0.000151	0.000785	1
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	ND	U	0.000474	0.00079	1	ND	U	0.000478	0.000797	1	ND	U	0.000483	0.000805	1	ND	U	0.000459	0.000766	1	ND	U	0.000471	0.000785	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	ND	U	0.00139	0.00494	1	ND	U	0.0014	0.00498	1	ND	U	0.00141	0.00503	1	ND	U	0.00134	0.00478	1	ND	U	0.00138	0.00491	1
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	ND	U	0.00193	0.00494	1	ND	U	0.00194	0.00498	1	ND	U	0.00196	0.00503	1	ND	U	0.00187	0.00478	1	ND	U	0.00191	0.00491	1
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	ND	U	0.000342	0.000988	1	ND	U	0.000345	0.000997	1	ND	U	0.000348	0.00101	1	ND	U	0.000331	0.000957	1	ND	U	0.00034	0.000981	1
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	ND	U	0.00028	0.00079	1	ND	U	0.000283	0.000797	1	ND	U	0.000286	0.000805	1	ND	U	0.000272	0.000766	1	ND	U	0.000279	0.000785	1
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	ND	U	0.000154	0.00079	1	ND	U	0.000155	0.000797	1	ND	U	0.000157	0.000805	1	ND	U	0.000149	0.000766	1	ND	U	0.000153	0.000785	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	0.35	mg/kg	ND	U	0.000158	0.00079	1	ND	U	0.000159	0.000797	1	ND	U	0.000161	0.000805	1	ND	U	0.000153	0.000766	1	ND	U	0.000157	0.000785	1
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	ND	U	0.000065	0.000198	1	ND	U	0.000066	0.000199	1	ND	U	0.000066	0.000201	1	ND	U	0.000063	0.000191	1	ND	U	0.000065	0.000196	1
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	ND	U	0.000077	0.000198	1	ND	U	0.000078	0.000199	1	ND	U	0.000079	0.000201	1	ND	U	0.000075	0.000191	1	ND	U	0.000077	0.000196	1
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	ND	U	0.000239	0.00198	1	ND	U	0.000241	0.00199	1	ND	U	0.000244	0.00201	1	ND	U	0.000232	0.00191	1	ND	U	0.000237	0.00196	1
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	ND	U	0.000059	0.000198	1	ND	U	0.00006	0.000199	1	ND	U	0.00006	0.000201	1	ND	U	0.000057	0.000191	1	ND	U	0.000059	0.000196	1
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	ND	U	0.000095	0.000198	1	ND	U	0.000096	0.000199	1	ND	U	0.000097	0.000201	1	ND	U	0.000092	0.000191	1	ND	U	0.000094	0.000196	1
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	ND	U	0.000247	0.00198	1	ND	U	0.000249	0.00199	1	ND	U	0.000252	0.00201	1	ND	U	0.000239	0.00191	1	ND	U	0.000245	0.00196	1
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	ND	U	0.000118	0.000395	1	ND	U	0.00012	0.000399	1	ND	U	0.000121	0.000403	1	ND	U	0.000115	0.000383	1	ND	U	0.000118	0.000392	1
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	ND	U	0.000047	0.000395	1	ND	U	0.000048	0.000399	1	ND	U	0.000048	0.000403	1	ND	U	0.000046	0.000383	1	ND	U	0.000047	0.000392	1
Perfluoro-3-methoxypropanoic Acid (PFMPA)	377-73-1	NS	mg/kg	ND	U	0.000036	0.000395	1	ND	U	0.000036	0.000399	1	ND	U	0.000036	0.000403	1	ND	U	0.000034	0.000383	1	ND	U	0.000035	0.000392	1
Perfluoro-4-methoxybutanoic Acid (PFMBA)	863090-89-5	NS	mg/kg	ND	U	0.000051	0.000395	1	ND	U	0.000052	0.000399	1	ND	U	0.000052	0.000403	1	ND	U	0.00005	0.000383	1	ND	U	0.000051	0.000392	1
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	25	mg/kg	ND	U	0.000049	0.000198	1	ND	U	0.00005	0.000199	1	ND	U	0.00005	0.000201	1	ND	U	0.000048	0.000191	1	ND	U	0.000049	0.000196	1
Perfluorobutanoic Acid (PFBA)	375-22-4	120	mg/kg	ND	U	0.00053	0.00079	1	ND	U	0.000534	0.000797	1	ND	U	0.00054	0.000805	1	ND	U	0.000513	0.000766	1	ND	U	0.000526	0.000785	1
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	ND	U	0.000093	0.000198	1	ND	U	0.000094	0.000199	1	ND	U	0.000095	0.000201	1	ND	U	0.00009	0.000191	1	ND	U	0.000092	0.000196	1
Perfluorodecanoic Acid (PFDA)	335-76-2	0.00016	mg/kg	ND	U	0.000049	0.000198	1	ND	U	0.00005	0.000199	1	ND	U	0.00005	0.000201	1	ND	U	0.000048	0.000191	1	ND	U	0.000049	0.000196	1
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	ND	U	0.000093	0.000198	1	ND	U	0.000094	0.000199	1	ND	U	0.000095	0.000201	1	ND	U	0.00009	0.000191	1	ND	U	0.000092	0.000196	1
Perfluorododecanoic Acid (PFDoA)	307-55-1	4.1	mg/kg	ND	U	0.000099	0.000198	1	ND	U	0.0001	0.000199	1	ND	U	0.000101	0.000201	1	ND	U	0.000096	0.000191	1	ND	U	0.000491	0.000981	5
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	ND	U	0.000034	0.000198	1	ND	U	0.000034	0.000199	1	ND	U	0.000034	0.000201	1	ND	U	0.000033	0.000191	1	ND	U	0.000033	0.000196	1
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	mg/kg	ND	U	0.000071	0.000198	1	ND	U	0.000072	0.000199	1	ND	U	0.000073	0.000201	1	ND	U	0.000069	0.000191	1	ND	U	0.000071	0.000196	1
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	mg/kg	0.000091	J	0.000065	0.000198	1	ND	U	0.000066	0.000199	1	ND	U	0.000066	0.000201	1	ND	U	0.000063	0.000191	1	0.000077	J	0.000065	0.000196	1
Perfluorohexanoic Acid (PFHxA)	307-24-4	41	mg/kg	ND	U	0.000162	0.000198	1	ND	U	0.000163	0.000199	1	ND	U	0.000165	0.000201	1	ND	U	0.000157	0.000191	1	ND	U	0.000161	0.000196	1
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	ND	U	0.000093	0.000198	1	ND	U	0.000094	0.000199	1	ND	U	0.000095	0.000201	1	ND	U	0.00009	0.000191	1	ND	U	0.000092	0.000196	1
Perfluorononanoic Acid (PFNA)	375-95-1	0.25	mg/kg	ND	U	0.000032	0.000198	1	ND	U	0.000032	0.000199	1	ND	U	0.000032	0.000201	1	ND	U	0.000031	0.000191	1	ND	U	0.000031	0.000196	1
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	ND	U	0.000113	0.000198	1	ND	U	0.000114	0.000199	1	ND	U	0.000115	0.000201	1	ND	U	0.000109	0.000191	1	ND	U	0.000112	0.000196	1
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0082	mg/kg	ND	U	0.000103	0.000198	1	ND	U	0.000104	0.000199	1	ND	U	0.000105	0.000201	1	ND	U	0.0001	0.000191	1	ND	U	0.000102	0.000196	1
Perfluorooctanoic Acid (PFOA)	335-67-1	0.000078	mg/kg	ND	U	0.000044	0.000198	1	ND	U	0.000044	0.000199	1	ND	U	0.000044	0.000201	1	ND	U	0.000042	0.000191	1	ND	U	0.000043	0.000196	1
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	ND	U	0.000028	0.000198	1	ND	U	0.000028	0.000199	1	ND	U	0.000028	0.000201	1	ND	U	0.000027	0.000191	1	ND	U	0.000028	0.000196	1
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	ND	U	0.000079	0.000395	1	ND	U	0.00008	0.000399	1	ND	U	0.000081	0.000403	1	ND	U	0.000077	0.000383	1	ND	U	0.000079	0.000392	1
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	82	mg/kg	ND	U	0.000144	0.000198	1	ND	U	0.000146	0.000199	1	ND	U	0.000147	0.000201	1	ND	U	0.00014	0.000191	1	ND	U	0.00143	0.00196	10
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	ND	U	0.000091	0.000198	1	ND	U	0.000092	0.000199	1	ND	U	0.000093	0.000201	1	ND	U	0.000088	0.000191	1	ND	U	0.000451	0.000981	5
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	25	mg/kg	ND	U	0.000087	0.000198	1	ND	U	0.000088	0.000199	1	ND	U	0.000089	0.000201	1	ND	U	0.000084	0.000191	1	ND	U	0.000086	0.000196	1
General Chemistry																												
Solids, Percent	SOLID	NS	Percent	92.7				1	94.1				1	94				1	91.5				1	92.9				1

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-06					IFS-07					IFS-08					IFS-09					IFS-10				
			Sample Name	IFS-06-09282026					IFS-07-09282026					IFS-08-09282026					IFS-09-09282026					IFS-10-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane	630-20-6	8.75	mg/kg	ND	U	0.00147	0.00283	1	ND	U	0.00145	0.00279	1.02	ND	U	0.00175	0.00339	1.11	ND	U	0.00188	0.00363	1.21	ND	U	0.00168	0.00322	1.12
1,1,1-Trichloroethane	71-55-6	3556	mg/kg	ND	U	0.00164	0.00283	1	ND	U	0.00162	0.00279	1.02	ND	U	0.00196	0.00339	1.11	ND	U	0.0021	0.00363	1.21	ND	U	0.00186	0.00322	1.12
1,1,2,2-Tetrachloroethane	79-34-5	2.67	mg/kg	ND	U	0.00132	0.00283	1	ND	U	0.00129	0.00279	1.02	ND	U	0.00157	0.00339	1.11	ND	U	0.00168	0.00363	1.21	ND	U	0.0015	0.00322	1.12
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	2814	mg/kg	ND	U	0.00319	0.00567	1	ND	U	0.00314	0.00557	1.02	ND	U	0.0038	0.00676	1.11	ND	U	0.00407	0.00725	1.21	ND	U	0.00363	0.00645	1.12
1,1,2-Trichloroethane	79-00-5	0.63	mg/kg	ND	U	0.00152	0.00283	1	ND	U	0.0015	0.00279	1.02	ND	U	0.00182	0.00339	1.11	ND	U	0.00194	0.00363	1.21	ND	U	0.00173	0.00322	1.12
1,1-Dichloroethane	75-34-3	15.54	mg/kg	ND	U	0.00115	0.00283	1	ND	U	0.00113	0.00279	1.02	ND	U	0.00136	0.00339	1.11	ND	U	0.00146	0.00363	1.21	ND	U	0.0013	0.00322	1.12
1,1-Dichloroethene	75-35-4	2	mg/kg	ND	U	0.00173	0.00283	1	ND	U	0.0017	0.00279	1.02	ND	U	0.00207	0.00339	1.11	ND	U	0.00222	0.00363	1.21	ND	U	0.00197	0.00322	1.12
1,1-Dichloropropene	563-58-6	NS	mg/kg	ND	U	0.00156	0.00567	1	ND	U	0.00154	0.00557	1.02	ND	U	0.00186	0.00676	1.11	ND	U	0.002	0.00725	1.21	ND	U	0.00178	0.00645	1.12
1,2,3-Trichlorobenzene	87-61-6	93.44	mg/kg	ND	U	0.00792	0.0142	1	ND	U	0.00779	0.014	1.02	ND	U	0.00945	0.0169	1.11	ND	U	0.0101	0.0181	1.21	ND	U	0.00901	0.0161	1.12
1,2,3-Trichloropropane	96-18-4	0.11	mg/kg	ND	U	0.00694	0.0142	1	ND	U	0.00682	0.014	1.02	ND	U	0.00827	0.0169	1.11	ND	U	0.00888	0.0181	1.21	ND	U	0.00789	0.0161	1.12
1,2,3-Trimethylbenzene	526-73-8	204.55	mg/kg	0.00446	J	0.00206	0.00567	1	ND	U	0.00203	0.00557	1.02	ND	U	0.00246	0.00676	1.11	ND	U	0.00264	0.00725	1.21	ND	U	0.00235	0.00645	1.12
1,2,4-Trichlorobenzene	120-82-1	25.63	mg/kg	ND	U	0.00614	0.0142	1	ND	U	0.00604	0.014	1.02	ND	U	0.00733	0.0169	1.11	ND	U	0.00786	0.0181	1.21	ND	U	0.00699	0.0161	1.12
1,2,4-Trimethylbenzene	95-63-6	176.52	mg/kg	0.0102		0.0027	0.00567	1	ND	U	0.00265	0.00557	1.02	ND	U	0.00322	0.00676	1.11	ND	U	0.00345	0.00725	1.21	ND	U	0.00307	0.00645	1.12
1,2-Dibromo-3-Chloropropane	96-12-8	0.064	mg/kg	ND	U	0.0121	0.0283	1	ND	U	0.0119	0.0279	1.02	ND	U	0.0145	0.0339	1.11	ND	U	0.0155	0.0363	1.21	ND	U	0.0138	0.0322	1.12
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.16	mg/kg	ND	U	0.00143	0.00283	1	ND	U	0.00141	0.00279	1.02	ND	U	0.00171	0.00339	1.11	ND	U	0.00182	0.00363	1.21	ND	U	0.00162	0.00322	1.12
1,2-Dichlorobenzene	95-50-1	932.72	mg/kg	ND	U	0.00177	0.00567	1	ND	U	0.00174	0.00557	1.02	ND	U	0.00211	0.00676	1.11	ND	U	0.00226	0.00725	1.21	ND	U	0.00201	0.00645	1.12
1,2-Dichloroethane	107-06-2	2.04	mg/kg	ND	U	0.00166	0.00283	1	ND	U	0.00163	0.00279	1.02	ND	U	0.00197	0.00339	1.11	ND	U	0.00212	0.00363	1.21	ND	U	0.00189	0.00322	1.12
1,2-Dichloropropane	78-87-5	6.63	mg/kg	ND	U	0.00218	0.00567	1	ND	U	0.00214	0.00557	1.02	ND	U	0.00259	0.00676	1.11	ND	U	0.00278	0.00725	1.21	ND	U	0.00248	0.00645	1.12
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	151.23	mg/kg	0.00506	J	0.00258	0.00567	1	ND	U	0.00255	0.00557	1.02	ND	U	0.00308	0.00676	1.11	ND	U	0.00331	0.00725	1.21	ND	U	0.00294	0.00645	1.12
1,3-Dichlorobenzene	541-73-1	NS	mg/kg	ND	U	0.00187	0.00567	1	ND	U	0.00184	0.00557	1.02	ND	U	0.00223	0.00676	1.11	ND	U	0.0024	0.00725	1.21	ND	U	0.00213	0.00645	1.12
1,3-Dichloropropane	142-28-9	2336	mg/kg	ND	U	0.00184	0.00567	1	ND	U	0.0018	0.00557	1.02	ND	U	0.00219	0.00676	1.11	ND	U	0.00235	0.00725	1.21	ND	U	0.00208	0.00645	1.12
1,4-Dichlorobenzene	106-46-7	11.42	mg/kg	ND	U	0.00198	0.00567	1	ND	U	0.00196	0.00557	1.02	ND	U	0.00236	0.00676	1.11	ND	U	0.00254	0.00725	1.21	ND	U	0.00226	0.00645	1.12
2,2-Dichloropropane	594-20-7	NS	mg/kg	ND	U	0.00229	0.00283	1	ND	U	0.00225	0.00279	1.02	ND	U	0.00273	0.00339	1.11	ND	U	0.00292	0.00363	1.21	ND	U	0.0026	0.00322	1.12
2-Chlorotoluene	95-49-8	2336	mg/kg	ND	U	0.00146	0.00283	1	ND	U	0.00144	0.00279	1.02	ND	U	0.00174	0.00339	1.11	ND	U	0.00187	0.00363	1.21	ND	U	0.00166	0.00322	1.12
4-Chlorotoluene	106-43-4	2336	mg/kg	ND	U	0.00175	0.00567	1	ND	U	0.00172	0.00557	1.02	ND	U	0.00208	0.00676	1.11	ND	U	0.00223	0.00725	1.21	ND	U	0.00198	0.00645	1.12
Acetone	67-64-1	105120	mg/kg	ND	U	0.079	0.113	1	ND	U	0.0777	0.111	1.02	ND	U	0.0943	0.135	1.11	ND	U	0.101	0.145	1.21	ND	U	0.0899	0.129	1.12
Acrylonitrile	107-13-1	1.1	mg/kg	ND	U	0.0091	0.0142	1	ND	U	0.00895	0.014	1.02	ND	U	0.0109	0.0169	1.11	ND	U	0.0116	0.0181	1.21	ND	U	0.0103	0.0161	1.12
Benzene	71-43-2	5.08	mg/kg	ND	U	0.000806	0.00113	1	ND	U	0.000792	0.00111	1.02	ND	U	0.000961	0.00135	1.11	ND	U	0.00103	0.00145	1.21	ND	U	0.000916	0.00129	1.12
Bromobenzene	108-86-1	178.04	mg/kg	ND	U	0.00442	0.0142	1	ND	U	0.00435	0.014	1.02	ND	U	0.00528	0.0169	1.11	ND	U	0.00566	0.0181	1.21	ND	U	0.00503	0.0161	1.12
Bromodichloromethane	75-27-4	1.28	mg/kg	ND	U	0.00133	0.00283	1	ND	U	0.0013	0.00279	1.02	ND	U	0.00158	0.00339	1.11	ND	U	0.0017	0.00363	1.21	ND	U	0.00151	0.00322	1.12
Bromoform	75-25-2	85.74	mg/kg	ND	U	0.0112	0.0283	1	ND	U	0.011	0.0279	1.02	ND	U	0.0134	0.0339	1.11	ND	U	0.0144	0.0363	1.21	ND	U	0.0128	0.0322	1.12
Bromomethane	74-83-9	3.01	mg/kg	ND	U	0.0115	0.0142	1	ND	U	0.0113	0.014	1.02	ND	U	0.0136	0.0169	1.11	ND	U	0.0146	0.0181	1.21	ND	U	0.013	0.0161	1.12
Carbon Tetrachloride	56-23-5	2.87	mg/kg	ND	U	0.00341	0.00567	1	ND	U	0.00335	0.00557	1.02	ND	U	0.00407	0.00676	1.11	ND	U	0.00436	0.00725	1.21	ND	U	0.00388	0.00645	1.12
Chlorobenzene	108-90-7	133.14	mg/kg	ND	U	0.000973	0.00283	1	ND	U	0.000956	0.00279	1.02	ND	U	0.00116	0.00339	1.11	ND	U	0.00125	0.00363	1.21	ND	U	0.00111	0.00322	1.12
Chloroethane	75-00-3	2269	mg/kg	ND	U	0.00645	0.0113	1	ND	U	0.00634	0.0111	1.02	ND	U	0.0077	0.0135	1.11	ND	U	0.00824	0.0145	1.21	ND	U	0.00733	0.0129	1.12
Chloroform	67-66-3	1.4	mg/kg	ND	U	0.00184	0.00283	1	ND	U	0.0018	0.00279	1.02	ND	U	0.00219	0.00339	1.11	ND	U	0.00235	0.00363	1.21	ND	U	0.00208	0.00322	1.12
Chloromethane	74-87-3	46.35	mg/kg	ND	U	0.00964	0.0142	1	ND	U	0.00947	0.014	1.02	ND	U	0.0115	0.0169	1.11	ND	U	0.0123	0.0181	1.21	ND	U	0.011	0.0161	1.12
Cis-1,2-Dichloroethene	156-59-2	36.88	mg/kg	ND	U	0.00146	0.00283	1	ND	U	0.00144	0.00279	1.02	ND	U	0.00174	0.00339	1.11	ND	U	0.00187	0.00363	1.21	ND	U	0.00166	0.00322	1.12
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	ND	U	0.00119	0.00283	1	ND	U	0.00117	0.00279	1.02	ND	U	0.00143	0.00339	1.11	ND	U	0.00152	0.00363	1.21	ND	U	0.00136	0.00322	1.12
Cymene	99-87-6	110	mg/kg	ND	U	0.00241	0.00567	1	ND	U	0.00237	0.00557	1.02	ND	U	0.00288	0.00676	1.11	ND	U	0.00309	0.00725	1.21	ND	U	0.00275	0.00645	1.12
Dibromochloromethane	124-48-1	38.93	mg/kg	ND	U	0.00183	0.00283	1	ND	U	0.00179	0.00279	1.02	ND	U	0.00218	0.00339	1.11	ND	U	0.00234	0.00363	1.21	ND	U	0.00207	0.00322	1.12
Dibromomethane	74-95-3	9.89	mg/kg	ND	U	0.00202	0.00567	1	ND	U	0.00199	0.00557	1.02	ND	U	0.00241	0.00676	1.11	ND	U	0.00258	0.00725	1.21	ND	U	0.00229	0.00645	1.12
Dichlorodifluoromethane	75-71-8	36.76	mg/kg	ND	U	0.00493	0.00567	1	ND	U	0.00485	0.00557	1.02	ND	U	0.00588	0.00676	1.11	ND	U	0.0063	0.00725	1.21	ND	U	0.00561	0.00645	1.12
Ethylbenzene	100-41-4	25.42	mg/kg	0.00648		0.00112	0.00283	1	ND	U	0.0011	0.00279	1.02	ND	U	0.00134	0.00339	1.11	ND	U	0.00143	0.00363	1.21	ND	U	0.00128	0.00322	1.12
Hexachlorobutadiene	87-68-3	5.26	mg/kg	ND	U	0.0118	0.0283	1	ND	U	0.0116	0.0279	1.02	ND	U	0.0141	0.0339	1.11	ND	U	0.0151	0.0363	1.21	ND	U	0.0135	0.0322	1.12
Isopropyl Ether	108-20-3	937.55	mg/kg	ND	U	0.000872	0.00113	1	ND	U	0.000856	0.00111	1.02	ND	U	0.00104	0.00135	1.11	ND	U	0.00111	0.00145	1.21	ND	U	0.000991	0.00129	1.12
Isopropylbenzene (Cumene)	98-82-8	994.76	mg/kg	0.00168	J	0.00115	0.00283	1	ND	U	0.00113	0.00279	1.02	ND	U	0.00136	0.00339	1.11	ND	U	0.00146	0.00363	1.21	ND	U	0.0013	0.00322	1.12
Methyl Ethyl Ketone (2-Butanone)	78-93-3	19339	mg/kg	ND	U	0.101	0.113	1	ND	U	0.0989	0.111	1.02	ND	U	0.12	0.135	1.11	ND	U	0.128	0.145	1.21	ND	U	0.114	0.129	1.12
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	13889	mg/kg	ND	U	0.0112	0.0283	1	ND	U	0.011	0.0279	1.02	ND	U	0.0134	0.0339	1.11	ND	U	0.0144	0.0363	1.21	ND	U	0.0128	0.0322	1.12
Methylene Chloride	75-09-2	316.13	mg/kg	ND	U	0.0125	0.0283	1	ND	U	0.0122	0.0279	1.02	ND	U	0.0149	0.0339	1.11	ND	U	0.0159	0.0363	1.21	ND	U	0.0142	0.0322	1.12
Naphthalene	91-20-3	8.57	mg/kg	0.013	J	0.00865	0.0142	1	ND	U	0.0085	0.014	1.02	ND	U	0.0103	0.0169	1.11	ND	U	0.0111	0.0181	1.21	ND	U	0.00984	0.0161	1.12
n-Butylbenzene	104-51-8	5840	mg/kg	ND	U	0.00709	0.0142	1	ND	U	0.00697	0.014	1.02	ND	U	0.00845	0.0169	1.11	ND	U	0.00906	0.0181	1.21	ND	U	0.00806	0.0161	1.12
n-Propylbenzene	103-65-1	2427	mg/kg	0.00448	J	0.00192	0.00567	1	ND	U	0.00188	0.00557	1.02	ND	U	0.00229	0.00676	1.11	ND	U	0.00244	0.00725	1.21	ND	U	0.00218	0.00645	1.12
Sec-Butylbenzene	135-98-8	11680	mg/kg	ND	U	0.00434	0.0142	1	ND	U	0.00427	0.014	1.02	ND	U	0.00518	0.0169	1.11	ND	U	0.00555	0.0181	1.21	ND	U	0.00494	0.0161	1.12
Styrene	100-42-5	3483	mg/kg	ND	U	0.00505	0.0142	1	ND	U	0.00496	0.014	1.02	ND	U	0.00602	0.0169	1.11	ND	U	0.00645	0.0181	1.21	ND	U	0.00573	0.0161	1.12
T-Butylbenzene	98-06-6	11680	mg/kg	ND	U	0.00214	0.00567	1	ND	U	0.00211	0.00557	1.02	ND	U	0.00256	0.00676	1.11	ND	U	0.00274	0.00725	1.21	ND	U	0.00244	0.00645	1.12
Tert-Butyl Methyl Ether (MTBE)	1634-04-4	205.07	mg/kg	ND	U	0.000876	0.00113	1	ND	U	0.000861	0.00111	1.02	ND	U	0.00105	0.00135	1.11	ND	U	0.00112	0.00145	1.21	ND	U	0.000997	0.00129	1.12
Tetrachloroethene (PCE)	127-18-4	38.86	mg/kg	ND	U	0.00172	0.00283	1	ND	U	0.00169	0.00279	1.02	ND	U	0.00206	0.00339	1.11	ND	U	0.0022	0.00363	1.21	ND	U	0.00196	0.00322	1.12
Toluene	108-88-3	4683	mg/kg	0.0111		0.00328	0.00567	1	ND	U	0.00322	0.00557	1.02	ND	U	0.00391	0.00676	1.11	ND	U	0.00419	0.00725	1.21	ND	U	0.00373	0.00645	1.12
Total Xylenes	1330-20-7	248.59	mg/kg	0.0451		0.00317	0.00737	1	ND	U	0.00312	0.00724	1.02	ND	U	0.00379	0.0088	1.11	ND	U	0.00406	0.00942	1.21	ND	U	0.00361	0.00838	1.12
Trans-1,2-Dichloroethene	156-60-5	30.19	mg/kg	ND	U	0.00118	0.00567	1	ND	U	0.00116	0.00557	1.02	ND	U	0.0014	0.00676	1.11	ND	U	0.00151	0.00725	1.21	ND	U	0.00134	0.00645	1.12
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	ND	U	0.00119	0.00567	1	ND	U	0.00117	0.00557	1.02	ND	U	0.00143	0.00676	1.11	ND	U	0.00152	0.00725	1.21	ND	U	0.00136	0.00645	1.12
Trichloroethene (TCE)	79-01-6	1.87	mg/kg	ND	U	0.00101	0.00113	1	ND	U	0.000993	0.00111	1.02	ND	U	0.0012	0.00135	1.11	ND	U	0.00129	0.00145	1.21	ND	U	0.00115	0.00129	1.12
Trichlorofluoromethane	75-69-4	35040	mg/kg	ND	U	0.00296	0.00453	1	ND	U	0.00291	0.00446	1.02	ND	U	0.00353	0.00541	1.11	ND	U	0.00379	0.0058	1.21	ND	U	0.00336	0.00516	1.12
Vinyl Chloride	75-01-4	1.68	mg/kg	ND	U	0.00228	0.00283	1	ND	U	0.00224	0.00279	1.02	ND	U	0.00272	0.00339	1.11	ND	U	0.00291	0.00363	1.21	ND	U	0.00259	0.00322	1.12

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-06					IFS-07					IFS-08					IFS-09					IFS-10				
			Sample Name	IFS-06-09282026					IFS-07-09282026					IFS-08-09282026					IFS-09-09282026					IFS-10-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Semi-Volatile Organic Compounds																												
1,2,4-Trichlorobenzene	120-82-1	25.63	mg/kg	ND	U	0.0421	0.355	1	ND	U	0.0413	0.349	1	ND	U	0.044	0.371	1	ND	U	0.0438	0.369	1	ND	U	0.0427	0.36	1
1,2-Dichlorobenzene	95-50-1	932.72	mg/kg	ND	U	0.0305	0.355	1	ND	U	0.0299	0.349	1	ND	U	0.0319	0.371	1	ND	U	0.0317	0.369	1	ND	U	0.0309	0.36	1
1,3-Dichlorobenzene	541-73-1	NS	mg/kg	ND	U	0.0309	0.355	1	ND	U	0.0304	0.349	1	ND	U	0.0323	0.371	1	ND	U	0.0321	0.369	1	ND	U	0.0313	0.36	1
1,4-Dichlorobenzene	106-46-7	11.42	mg/kg	ND	U	0.0305	0.355	1	ND	U	0.0299	0.349	1	ND	U	0.0319	0.371	1	ND	U	0.0317	0.369	1	ND	U	0.0309	0.36	1
2,4,6-Trichlorophenol	88-06-2	82.07	mg/kg	ND	U	0.0848	0.355	1	ND	U	0.0833	0.349	1	ND	U	0.0887	0.371	1	ND	U	0.0882	0.369	1	ND	U	0.086	0.36	1
2,4-Dichlorophenol	120-83-2	246.2	mg/kg	ND	U	0.0468	0.355	1	ND	U	0.0459	0.349	1	ND	U	0.0489	0.371	1	ND	U	0.0487	0.369	1	ND	U	0.0474	0.36	1
2,4-Dimethylphenol	105-67-9	1641	mg/kg	ND	U	0.19	0.355	1	ND	U	0.186	0.349	1	ND	U	0.198	0.371	1	ND	U	0.197	0.369	1	ND	U	0.192	0.36	1
2,4-Dinitrophenol	51-28-5	164.13	mg/kg	ND	U	0.135	0.355	1	ND	U	0.133	0.349	1	ND	U	0.142	0.371	1	ND	U	0.141	0.369	1	ND	U	0.137	0.36	1
2,4-Dinitrotoluene	121-14-2	7.37	mg/kg	ND	U	0.0703	0.355	1	ND	U	0.0691	0.349	1	ND	U	0.0736	0.371	1	ND	U	0.0732	0.369	1	ND	U	0.0713	0.36	1
2,6-Dinitrotoluene	606-20-2	1.54	mg/kg	ND	U	0.0669	0.355	1	ND	U	0.0657	0.349	1	ND	U	0.07	0.371	1	ND	U	0.0696	0.369	1	ND	U	0.0678	0.36	1
2-Chloronaphthalene	91-58-7	6028	mg/kg	ND	U	0.00529	0.0355	1	ND	U	0.00519	0.0349	1	ND	U	0.00553	0.0371	1	ND	U	0.0055	0.0369	1	ND	U	0.00536	0.036	1
2-Chlorophenol	95-57-8	584	mg/kg	ND	U	0.0369	0.355	1	ND	U	0.0362	0.349	1	ND	U	0.0386	0.371	1	ND	U	0.0384	0.369	1	ND	U	0.0374	0.36	1
2-Nitrophenol	88-75-5	NS	mg/kg	ND	U	0.0526	0.355	1	ND	U	0.0517	0.349	1	ND	U	0.0551	0.371	1	ND	U	0.0548	0.369	1	ND	U	0.0534	0.36	1
3,3'-Dichlorobenzidine	91-94-1	5.11	mg/kg	ND	U	0.135	0.355	1	ND	U	0.133	0.349	1	ND	U	0.142	0.371	1	ND	U	0.141	0.369	1	ND	U	0.137	0.36	1
4,6-Dinitro-2-Methylphenol	534-52-1	6.57	mg/kg	ND	U	0.109	0.355	1	ND	U	0.107	0.349	1	ND	U	0.114	0.371	1	ND	U	0.113	0.369	1	ND	U	0.11	0.36	1
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	ND	U	0.0506	0.355	1	ND	U	0.0497	0.349	1	ND	U	0.053	0.371	1	ND	U	0.0527	0.369	1	ND	U	0.0513	0.36	1
4-Chloro-3-Methylphenol	59-50-7	8207	mg/kg	ND	U	0.0554	0.355	1	ND	U	0.0544	0.349	1	ND	U	0.058	0.371	1	ND	U	0.0576	0.369	1	ND	U	0.0562	0.36	1
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	ND	U	0.0506	0.355	1	ND	U	0.0497	0.349	1	ND	U	0.053	0.371	1	ND	U	0.0527	0.369	1	ND	U	0.0513	0.36	1
4-Nitrophenol	100-02-7	NS	mg/kg	ND	U	0.113	0.355	1	ND	U	0.111	0.349	1	ND	U	0.118	0.371	1	ND	U	0.118	0.369	1	ND	U	0.114	0.36	1
Acenaphthene	83-32-9	4521	mg/kg	ND	U	0.00574	0.0355	1	ND	U	0.00564	0.0349	1	ND	U	0.00601	0.0371	1	ND	U	0.00598	0.0369	1	ND	U	0.00582	0.036	1
Acenaphthylene	208-96-8	NS	mg/kg	ND	U	0.00604	0.0355	1	ND	U	0.00593	0.0349	1	ND	U	0.00632	0.0371	1	ND	U	0.00629	0.0369	1	ND	U	0.00612	0.036	1
Anthracene	120-12-7	22603	mg/kg	ND	U	0.00436	0.0355	1	ND	U	0.00428	0.0349	1	ND	U	0.00456	0.0371	1	ND	U	0.00453	0.0369	1	ND	U	0.00442	0.036	1
Benzidine	92-87-5	0.01	mg/kg	ND	U	*1.06*	1.78	1	ND	U	*1.05*	1.75	1	ND	U	*1.11*	1.86	1	ND	U	*1.11*	1.85	1	ND	U	*1.08*	1.8	1
Benzo(a)anthracene	56-55-3	20.61	mg/kg	ND	U	0.00405	0.0355	1	ND	U	0.00398	0.0349	1	ND	U	0.00424	0.0371	1	ND	U	0.00421	0.0369	1	ND	U	0.0041	0.036	1
Benzo(a)pyrene	50-32-8	2.11	mg/kg	ND	U	0.00712	0.0355	1	ND	U	0.00699	0.0349	1	ND	U	0.00745	0.0371	1	ND	U	0.00741	0.0369	1	ND	U	0.00721	0.036	1
Benzo(b)fluoranthene	205-99-2	21.09	mg/kg	ND	U	0.00578	0.0355	1	ND	U	0.00567	0.0349	1	ND	U	0.00604	0.0371	1	ND	U	0.00601	0.0369	1	ND	U	0.00585	0.036	1
Benzo(g,h,i)Perylene	191-24-2	NS	mg/kg	ND	U	0.00686	0.0355	1	ND	U	0.00674	0.0349	1	ND	U	0.00718	0.0371	1	ND	U	0.00714	0.0369	1	ND	U	0.00696	0.036	1
Benzo(k)fluoranthene	207-08-9	210.95	mg/kg	ND	U	0.00516	0.0355	1	ND	U	0.00507	0.0349	1	ND	U	0.0054	0.0371	1	ND	U	0.00537	0.0369	1	ND	U	0.00523	0.036	1
Benzyl Butyl Phthalate	85-68-7	1209	mg/kg	ND	U	0.0687	0.355	1	ND	U	0.0675	0.349	1	ND	U	0.0719	0.371	1	ND	U	0.0715	0.369	1	ND	U	0.0697	0.36	1
Bis(2-chloroethoxy) methane	111-91-1	246.2	mg/kg	ND	U	0.0385	0.355	1	ND	U	0.0378	0.349	1	ND	U	0.0402	0.371	1	ND	U	0.04	0.369	1	ND	U	0.039	0.36	1
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1.03	mg/kg	ND	U	0.067	0.355	1	ND	U	0.0658	0.349	1	ND	U	0.0701	0.371	1	ND	U	0.0697	0.369	1	ND	U	0.0679	0.36	1
Bis(2-chloroisopropyl) ether	108-60-1	4672	mg/kg	ND	U	0.0761	0.355	1	ND	U	0.0747	0.349	1	ND	U	0.0796	0.371	1	ND	U	0.0792	0.369	1	ND	U	0.0771	0.36	1
Bis(2-ethylhexyl) phthalate	117-81-7	164.13	mg/kg	ND	U	0.07	0.355	1	ND	U	0.0688	0.349	1	ND	U	0.0732	0.371	1	ND	U	0.0728	0.369	1	ND	U	0.071	0.36	1
Chrysene	218-01-9	2109	mg/kg	ND	U	0.00369	0.0355	1	ND	U	0.00362	0.0349	1	ND	U	0.00386	0.0371	1	ND	U	0.00384	0.0369	1	ND	U	0.00374	0.036	1
Dibenz(a,h)anthracene	53-70-3	2.11	mg/kg	ND	U	0.00627	0.0355	1	ND	U	0.00615	0.0349	1	ND	U	0.00656	0.0371	1	ND	U	0.00652	0.0369	1	ND	U	0.00635	0.036	1
Dibutyl phthalate	84-74-2	8207	mg/kg	ND	U	0.0477	0.355	1	ND	U	0.0469	0.349	1	ND	U	0.0499	0.371	1	ND	U	0.0497	0.369	1	ND	U	0.0484	0.36	1
Diethyl phthalate	84-66-2	65653	mg/kg	ND	U	0.055	0.355	1	ND	U	0.054	0.349	1	ND	U	0.0575	0.371	1	ND	U	0.0572	0.369	1	ND	U	0.0557	0.36	1
Dimethyl phthalate	131-11-3	NS	mg/kg	ND	U	0.0476	0.355	1	ND	U	0.0468	0.349	1	ND	U	0.0498	0.371	1	ND	U	0.0496	0.369	1	ND	U	0.0483	0.36	1
Dioctyl phthalate	117-84-0	820.66	mg/kg	ND	U	0.157	0.355	1	ND	U	0.154	0.349	1	ND	U	0.164	0.371	1	ND	U	0.163	0.369	1	ND	U	0.159	0.36	1
Fluoranthene	206-44-0	3014	mg/kg	ND	U	0.00457	0.0355	1	ND	U	0.00449	0.0349	1	ND	U	0.00478	0.0371	1	ND	U	0.00476	0.0369	1	ND	U	0.00463	0.036	1
Fluorene	86-73-7	3014	mg/kg	ND	U	0.0053	0.0355	1	ND	U	0.0052	0.0349	1	ND	U	0.00554	0.0371	1	ND	U	0.00551	0.0369	1	ND	U	0.00537	0.036	1
Hexachlorobenzene	118-74-1	0.96	mg/kg	ND	U	0.058	0.355	1	ND	U	0.0569	0.349	1	ND	U	0.0606	0.371	1	ND	U	0.0603	0.369	1	ND	U	0.0588	0.36	1
Hexachlorobutadiene	87-68-3	5.26	mg/kg	ND	U	0.0563	0.355	1	ND	U	0.0553	0.349	1	ND	U	0.0589	0.371	1	ND	U	0.0585	0.369	1	ND	U	0.057	0.36	1
Hexachlorocyclopentadiene	77-47-4	0.75	mg/kg	ND	U	0.109	0.355	1	ND	U	0.107	0.349	1	ND	U	0.114	0.371	1	ND	U	0.113	0.369	1	ND	U	0.11	0.36	1
Hexachloroethane	67-72-1	8.05	mg/kg	ND	U	0.0437	0.355	1	ND	U	0.0429	0.349	1	ND	U	0.0457	0.371	1	ND	U	0.0455	0.369	1	ND	U	0.0443	0.36	1
Indeno(1,2,3-cd)pyrene	193-39-5	21.09	mg/kg	ND	U	0.00713	0.0355	1	ND	U	0.007	0.0349	1	ND	U	0.00746	0.0371	1	ND	U	0.00742	0.0369	1	ND	U	0.00723	0.036	1
Isophorone	78-59-1	2419	mg/kg	ND	U	0.0447	0.355	1	ND	U	0.0439	0.349	1	ND	U	0.0467	0.371	1	ND	U	0.0464	0.369	1	ND	U	0.0453	0.36	1
Naphthalene	91-20-3	8.57	mg/kg	ND	U	0.0125	0.0355	1	ND	U	0.0122	0.0349	1	ND	U	0.013	0.0371	1	ND	U	0.013	0.0369	1	ND	U	0.0126	0.036	1
Nitrobenzene	98-95-3	22.45	mg/kg	ND	U	0.048	0.355	1	ND	U	0.0471	0.349	1	ND	U	0.0502	0.371	1	ND	U	0.0499	0.369	1	ND	U	0.0486	0.36	1
n-Nitrosodimethylamine	62-75-9	0.034	mg/kg	ND	U	*0.0833*	0.355	1	ND	U	*0.0818*	0.349	1	ND	U	*0.0872*	0.371	1	ND	U	*0.0867*	0.369	1	ND	U	*0.0845*	0.36	1
n-Nitrosodi-N-Propylamine	621-64-7	0.33	mg/kg	ND	U	0.0563	0.355	1	ND	U	0.0553	0.349	1	ND	U	0.0589	0.371	1	ND	U	0.0585	0.369	1	ND	U	0.057	0.36	1
n-Nitrosodiphenylamine	86-30-6	468.92	mg/kg	ND	U	0.0455	0.355	1	ND	U	0.0447	0.349	1	ND	U	0.0476	0.371	1	ND	U	0.0473	0.369	1	ND	U	0.0461	0.36	1
Pentachlorophenol	87-86-5	3.97	mg/kg	ND	U	0.133	0.355	1	ND	U	0.131	0.349	1	ND	U	0.139	0.371	1	ND	U	0.139	0.369	1	ND	U	0.135	0.36	1
Phenanthrene	85-01-8	NS	mg/kg	0.00595	J	0.0039	0.0355	1	ND	U	0.00383	0.0349	1	ND	U	0.00408	0.0371	1	ND	U	0.00406	0.0369	1	ND	U	0.00395	0.036	1
Phenol	108-95-2	24615	mg/kg	ND	U	0.0604	0.355	1	ND	U	0.0593	0.349	1	ND	U	0.0632	0.371	1	ND	U	0.0629	0.369	1	ND	U	0.0612	0.36	1
Pyrene	129-00-0	2260	mg/kg	ND	U	0.00398	0.0355	1	ND	U	0.0039	0.0349	1	ND	U	0.00416	0.0371	1	ND	U	0.00414	0.0369	1	ND	U	0.00403	0.036	1

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Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-06					IFS-07					IFS-08					IFS-09					IFS-10				
			Sample Name	IFS-06-09282026					IFS-07-09282026					IFS-08-09282026					IFS-09-09282026					IFS-10-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Pesticides																												
4,4'-DDD	72-54-8	9.57	mg/kg	ND	U	0.00735	0.0213	1	ND	U	0.00722	0.0209	1	ND	U	0.00769	0.0223	1	ND	U	0.00765	0.0222	1	ND	U	0.00745	0.0216	1
4,4'-DDE	72-55-9	9.28	mg/kg	ND	U	0.00717	0.0213	1	ND	U	0.00704	0.0209	1	ND	U	0.0075	0.0223	1	ND	U	0.00746	0.0222	1	ND	U	0.00727	0.0216	1
4,4'-DDT	50-29-3	8.53	mg/kg	ND	U	0.00816	0.0213	1	ND	U	0.00802	0.0209	1	ND	U	0.00854	0.0223	1	ND	U	0.00849	0.0222	1	ND	U	0.00827	0.0216	1
Aldrin	309-00-2	0.18	mg/kg	ND	U	0.00687	0.0213	1	ND	U	0.00675	0.0209	1	ND	U	0.00719	0.0223	1	ND	U	0.00715	0.0222	1	ND	U	0.00697	0.0216	1
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.36	mg/kg	ND	U	0.00679	0.0213	1	ND	U	0.00667	0.0209	1	ND	U	0.0071	0.0223	1	ND	U	0.00706	0.0222	1	ND	U	0.00688	0.0216	1
Alpha Endosulfan	959-98-8	NS	mg/kg	ND	U	0.00644	0.0213	1	ND	U	0.00632	0.0209	1	ND	U	0.00673	0.0223	1	ND	U	0.0067	0.0222	1	ND	U	0.00652	0.0216	1
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	1.28	mg/kg	ND	U	0.00671	0.0213	1	ND	U	0.00659	0.0209	1	ND	U	0.00702	0.0223	1	ND	U	0.00698	0.0222	1	ND	U	0.0068	0.0216	1
Beta Endosulfan	33213-65-9	NS	mg/kg	ND	U	0.00704	0.0213	1	ND	U	0.00692	0.0209	1	ND	U	0.00737	0.0223	1	ND	U	0.00733	0.0222	1	ND	U	0.00714	0.0216	1
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	ND	U	0.106	0.32	1	ND	U	0.104	0.314	1	ND	U	0.11	0.334	1	ND	U	0.11	0.333	1	ND	U	0.107	0.324	1
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.0049	mg/kg	ND	U	*0.00677*	0.0213	1	ND	U	*0.00665*	0.0209	1	ND	U	*0.00708*	0.0223	1	ND	U	*0.00704*	0.0222	1	ND	U	*0.00686*	0.0216	1
Dieldrin	60-57-1	0.14	mg/kg	ND	U	0.00743	0.0213	1	ND	U	0.0073	0.0209	1	ND	U	0.00777	0.0223	1	ND	U	0.00773	0.0222	1	ND	U	0.00753	0.0216	1
Endosulfan Sulfate	1031-07-8	492.4	mg/kg	ND	U	0.00684	0.0213	1	ND	U	0.00672	0.0209	1	ND	U	0.00716	0.0223	1	ND	U	0.00712	0.0222	1	ND	U	0.00693	0.0216	1
Endrin	72-20-8	24.62	mg/kg	ND	U	0.00795	0.0213	1	ND	U	0.00781	0.0209	1	ND	U	0.00832	0.0223	1	ND	U	0.00827	0.0222	1	ND	U	0.00806	0.0216	1
Endrin Aldehyde	7421-93-4	NS	mg/kg	ND	U	0.00629	0.0213	1	ND	U	0.00618	0.0209	1	ND	U	0.00658	0.0223	1	ND	U	0.00654	0.0222	1	ND	U	0.00637	0.0216	1
Endrin Ketone	53494-70-5	NS	mg/kg	ND	U	0.00741	0.0213	1	ND	U	0.00727	0.0209	1	ND	U	0.00775	0.0223	1	ND	U	0.0077	0.0222	1	ND	U	0.00751	0.0216	1
Gamma Bhc (Lindane)	58-89-9	0.08	mg/kg	ND	U	0.0072	0.0213	1	ND	U	0.00708	0.0209	1	ND	U	0.00754	0.0223	1	ND	U	0.00749	0.0222	1	ND	U	0.0073	0.0216	1
Heptachlor	76-44-8	0.63	mg/kg	ND	U	0.00739	0.0213	1	ND	U	0.00725	0.0209	1	ND	U	0.00773	0.0223	1	ND	U	0.00768	0.0222	1	ND	U	0.00748	0.0216	1
Heptachlor Epoxide	1024-57-3	0.33	mg/kg	ND	U	0.00693	0.0213	1	ND	U	0.0068	0.0209	1	ND	U	0.00725	0.0223	1	ND	U	0.00721	0.0222	1	ND	U	0.00702	0.0216	1
Hexachlorobenzene	118-74-1	0.96	mg/kg	ND	U	0.00648	0.0213	1	ND	U	0.00636	0.0209	1	ND	U	0.00678	0.0223	1	ND	U	0.00674	0.0222	1	ND	U	0.00657	0.0216	1
Methoxychlor	72-43-5	410.33	mg/kg	ND	U	0.00859	0.0213	1	ND	U	0.00844	0.0209	1	ND	U	0.00899	0.0223	1	ND	U	0.00894	0.0222	1	ND	U	0.0087	0.0216	1
Toxaphene	8001-35-2	2.09	mg/kg	ND	U	0.228	0.426	1	ND	U	0.224	0.419	1	ND	U	0.239	0.446	1	ND	U	0.237	0.443	1	ND	U	0.231	0.432	1
Herbicides																												
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	820.66	mg/kg	ND	U	0.00968	0.0213	1	ND	U	0.00979	0.0216	1.03	ND	U	0.0101	0.0223	1	ND	U	0.0101	0.0222	1	ND	U	0.0101	0.0222	1.03
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	964	mg/kg	ND	U	0.0107	0.0213	1	ND	U	0.0108	0.0216	1.03	ND	U	0.0111	0.0223	1	ND	U	0.0111	0.0222	1	ND	U	0.0111	0.0222	1.03
2,4-Dichlorophenoxybutyric acid	94-82-6	NS	mg/kg	ND	U	0.00856	0.0213	1	ND	U	0.00866	0.0216	1.03	ND	U	0.00895	0.0223	1	ND	U	0.0089	0.0222	1	ND	U	0.00893	0.0222	1.03
Dalapon	75-99-0	2462	mg/kg	ND	U	0.00777	0.0213	1	ND	U	0.00786	0.0216	1.03	ND	U	0.00813	0.0223	1	ND	U	0.00808	0.0222	1	ND	U	0.00811	0.0222	1.03
Dicamba	1918-00-9	2462	mg/kg	ND	U	0.0104	0.0213	1	ND	U	0.0105	0.0216	1.03	ND	U	0.0109	0.0223	1	ND	U	0.0108	0.0222	1	ND	U	0.0108	0.0222	1.03
Dichloroprop	120-36-5	NS	mg/kg	ND	U	0.00596	0.0213	1	ND	U	0.00603	0.0216	1.03	ND	U	0.00623	0.0223	1	ND	U	0.0062	0.0222	1	ND	U	0.00622	0.0222	1.03
Dinoseb	88-85-7	82.07	mg/kg	ND	U	0.00531	0.0213	1	ND	U	0.00537	0.0216	1.03	ND	U	0.00555	0.0223	1	ND	U	0.00552	0.0222	1	ND	U	0.00554	0.0222	1.03
MCPA	94-74-6	41.03	mg/kg	ND	U	0.00998	0.0213	1	ND	U	0.0101	0.0216	1.03	ND	U	0.0104	0.0223	1	ND	U	0.0104	0.0222	1	ND	U	0.0104	0.0222	1.03
MCPP	93-65-2	82.07	mg/kg	ND	U	0.00555	0.0213	1	ND	U	0.00562	0.0216	1.03	ND	U	0.00581	0.0223	1	ND	U	0.00578	0.0222	1	ND	U	0.0058	0.0222	1.03
Silvex (2,4,5-Tp)	93-72-1	656.53	mg/kg	ND	U	0.00587	0.0213	1	ND	U	0.00595	0.0216	1.03	ND	U	0.00614	0.0223	1	ND	U	0.00611	0.0222	1	ND	U	0.00613	0.0222	1.03
Polychlorinated Biphenyl																												
PCB-1016 (Aroclor 1016)	12674-11-2	5.13	mg/kg	ND	U	0.0109	0.0362	1	ND	U	0.0107	0.0356	1	ND	U	0.0114	0.0379	1	ND	U	0.0113	0.0377	1	ND	U	0.011	0.0367	1
PCB-1221 (Aroclor 1221)	11104-28-2	0.83	mg/kg	ND	U	0.0114	0.0362	1	ND	U	0.0112	0.0356	1	ND	U	0.0119	0.0379	1	ND	U	0.0119	0.0377	1	ND	U	0.0116	0.0367	1
PCB-1232 (Aroclor 1232)	11141-16-5	0.72	mg/kg	ND	U	0.00956	0.0362	1	ND	U	0.00939	0.0356	1	ND	U	0.01	0.0379	1	ND	U	0.00994	0.0377	1	ND	U	0.00969	0.0367	1
PCB-1242 (Aroclor 1242)	53469-21-9	0.95	mg/kg	ND	U	0.0108	0.0362	1	ND	U	0.0106	0.0356	1	ND	U	0.0113	0.0379	1	ND	U	0.0112	0.0377	1	ND	U	0.0109	0.0367	1
PCB-1248 (Aroclor 1248)	12672-29-6	0.94	mg/kg	ND	U	0.0132	0.0181	1	ND	U	0.013	0.0178	1	ND	U	0.0138	0.019	1	ND	U	0.0137	0.0188	1	ND	U	0.0134	0.0184	1
PCB-1254 (Aroclor 1254)	11097-69-1	0.97	mg/kg	ND	U	0.0111	0.0181	1	ND	U	0.0109	0.0178	1	ND	U	0.0116	0.019	1	ND	U	0.0115	0.0188	1	ND	U	0.0112	0.0184	1
PCB-1260 (Aroclor 1260)	11096-82-5	0.99	mg/kg	ND	U	0.0117	0.0181	1	ND	U	0.0115	0.0178	1	ND	U	0.0123	0.019	1	ND	U	0.0122	0.0188	1	ND	U	0.0119	0.0184	1
Metals																												
Antimony	7440-36-0	46.71	mg/kg	ND	U	0.736	2.13	1	ND	U	0.723	2.09	1	ND	U	0.77	2.23	1	ND	U	0.766	2.22	1	ND	U	0.746	2.16	1
Arsenic	7440-38-2	3	mg/kg	7.27		0.892	2.13	1	9.24		0.876	2.09	1	10.5		0.933	2.23	1	6.18		0.928	2.22	1	8.56		0.904	2.16	1
Beryllium	7440-41-7	229.11	mg/kg	0.712		0.0508	0.213	1	0.937		0.0499	0.209	1	1.24		0.0532	0.223	1	0.929		0.0529	0.222	1	0.803		0.0515	0.216	1
Cadmium	7440-43-9	9.97	mg/kg	0.166	J	0.0696	0.533	1	0.139	J	0.0683	0.523	1	0.125	J	0.0728	0.557	1	0.148	J	0.0724	0.554	1	0.301	J	0.0705	0.54	1
Chromium, Total	7440-47-3	NS	mg/kg	21.6		0.228	1.07	1	19.2		0.224	1.05	1	21.6		0.239	1.11	1	20.5		0.237	1.11	1	19.7		0.231	1.08	1
Copper	7440-50-8	4672	mg/kg	50		0.38	2.13	1	43.1		0.374	2.09	1	49.1		0.398	2.23	1	42		0.396	2.22	1	46.7		0.386	2.16	1
Lead	7439-92-1	800	mg/kg	19.6		0.347	0.533	1	21.5		0.341	0.523	1	25.1		0.363	0.557	1	20.4		0.361	0.554	1	20.1		0.352	0.54	1
Mercury	7439-97-6	3	mg/kg	ND	U	0.022	0.0426	1	ND	U	0.0216	0.0419	1	0.0245	J	0.023	0.0446	1	ND	U	0.0228	0.0443	1	0.0279	J	0.0222	0.0432	1
Nickel	7440-02-0	1700	mg/kg	35.9		0.213	2.13	1	32.2		0.209	2.09	1	35.8		0.223	2.23	1	33.2		0.222	2.22	1	37.4		0.216	2.16	1
Selenium	7782-49-2	583.97	mg/kg	ND	U	1.14	2.13	1	ND	U	1.12	2.09	1	ND	U	1.19	2.23	1	ND	U	1.19	2.22	1	1.61	J	1.16	2.16	1
Silver	7440-22-4	584	mg/kg	0.137	J	0.135	1.07	1	ND	U	0.133	1.05	1	ND	U	0.142	1.11	1	ND	U	0.141	1.11	1	0.243	J	0.137	1.08	1
Thallium	7440-28-0	1.17	mg/kg	ND	U	0.552	2.13	1	ND	U	0.542	2.09	1	ND	U	0.577	2.23	1	ND	U	0.574	2.22	1	ND	U	0.559	2.16	1
Zinc	7440-66-6	35040	mg/kg	106		1.04	5.33	1	95.3		1.02	5.23	1	115		1.09	5.57	1	96.5		1.08	5.54	1	101		1.05	5.4	1

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	CAS Number	EPA RSL THQ 0.1 Industrial Soil	Location	IFS-06					IFS-07					IFS-08					IFS-09					IFS-10				
			Sample Name	IFS-06-09282026					IFS-07-09282026					IFS-08-09282026					IFS-09-09282026					IFS-10-09282026				
			Sample Date	09/28/2026					09/28/2026					09/28/2026					09/28/2026					09/28/2026				
			Unit	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF
Per- and Polyfluoroalkyl Substances																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	ND	U	0.000371	0.000749	1	ND	U	0.000398	0.000804	1	ND	U	0.000392	0.000791	1	ND	U	0.000374	0.000756	1	ND	U	0.000383	0.000773	1
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2 FTS)	39108-34-4	NS	mg/kg	ND	U	0.000221	0.000749	1	ND	U	0.000237	0.000804	1	ND	U	0.000233	0.000791	1	ND	U	0.000223	0.000756	1	ND	U	0.000228	0.000773	1
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	ND	U	0.000144	0.000749	1	ND	U	0.000155	0.000804	1	ND	U	0.000152	0.000791	1	ND	U	0.000145	0.000756	1	ND	U	0.000149	0.000773	1
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	ND	U	0.000449	0.000749	1	ND	U	0.000483	0.000804	1	ND	U	0.000475	0.000791	1	ND	U	0.000453	0.000756	1	ND	U	0.000464	0.000773	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	ND	U	0.00131	0.00468	1	ND	U	0.00141	0.00503	1	ND	U	0.00139	0.00494	1	ND	U	0.00133	0.00472	1	ND	U	0.00136	0.00483	1
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	ND	U	0.00182	0.00468	1	ND	U	0.00196	0.00503	1	ND	U	0.00193	0.00494	1	ND	U	0.00184	0.00472	1	ND	U	0.00188	0.00483	1
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	ND	U	0.000324	0.000936	1	ND	U	0.000348	0.001	1	ND	U	0.000342	0.000989	1	ND	U	0.000327	0.000945	1	ND	U	0.000334	0.000967	1
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	ND	U	0.000266	0.000749	1	ND	U	0.000286	0.000804	1	ND	U	0.000281	0.000791	1	ND	U	0.000268	0.000756	1	ND	U	0.000274	0.000773	1
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	ND	U	0.000146	0.000749	1	ND	U	0.000157	0.000804	1	ND	U	0.000154	0.000791	1	ND	U	0.000147	0.000756	1	ND	U	0.000151	0.000773	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	0.35	mg/kg	ND	U	0.00015	0.000749	1	ND	U	0.000161	0.000804	1	ND	U	0.000158	0.000791	1	ND	U	0.000151	0.000756	1	ND	U	0.000155	0.000773	1
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	ND	U	0.000062	0.000187	1	ND	U	0.000066	0.000201	1	ND	U	0.000065	0.000198	1	ND	U	0.000062	0.000189	1	ND	U	0.000064	0.000193	1
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	ND	U	0.000073	0.000187	1	ND	U	0.000078	0.000201	1	ND	U	0.000077	0.000198	1	ND	U	0.000074	0.000189	1	ND	U	0.000075	0.000193	1
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	ND	U	0.000226	0.00187	1	ND	U	0.000243	0.00201	1	ND	U	0.000239	0.00198	1	ND	U	0.000229	0.00189	1	ND	U	0.000234	0.00193	1
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	ND	U	0.000056	0.000187	1	ND	U	0.00006	0.000201	1	ND	U	0.000059	0.000198	1	ND	U	0.000057	0.000189	1	ND	U	0.000058	0.000193	1
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	ND	U	0.00009	0.000187	1	ND	U	0.000097	0.000201	1	ND	U	0.000095	0.000198	1	ND	U	0.000091	0.000189	1	ND	U	0.000093	0.000193	1
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	ND	U	0.000234	0.00187	1	ND	U	0.000251	0.00201	1	ND	U	0.000247	0.00198	1	ND	U	0.000236	0.00189	1	ND	U	0.000242	0.00193	1
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	ND	U	0.000112	0.000374	1	ND	U	0.000121	0.000402	1	ND	U	0.000119	0.000396	1	ND	U	0.000113	0.000378	1	ND	U	0.000116	0.000387	1
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	ND	U	0.000045	0.000374	1	ND	U	0.000048	0.000402	1	ND	U	0.000048	0.000396	1	ND	U	0.000045	0.000378	1	ND	U	0.000046	0.000387	1
Perfluoro-3-methoxypropanoic Acid (PFMPA)	377-73-1	NS	mg/kg	ND	U	0.000034	0.000374	1	ND	U	0.000036	0.000402	1	ND	U	0.000036	0.000396	1	ND	U	0.000034	0.000378	1	ND	U	0.000035	0.000387	1
Perfluoro-4-methoxybutanoic Acid (PFMBA)	863090-89-5	NS	mg/kg	ND	U	0.000049	0.000374	1	ND	U	0.000052	0.000402	1	ND	U	0.000051	0.000396	1	ND	U	0.000049	0.000378	1	ND	U	0.00005	0.000387	1
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	25	mg/kg	ND	U	0.000047	0.000187	1	ND	U	0.00005	0.000201	1	ND	U	0.000049	0.000198	1	ND	U	0.000047	0.000189	1	ND	U	0.000048	0.000193	1
Perfluorobutanoic Acid (PFBA)	375-22-4	120	mg/kg	ND	U	0.000502	0.000749	1	ND	U	0.000539	0.000804	1	ND	U	0.00053	0.000791	1	ND	U	0.000506	0.000756	1	ND	U	0.000518	0.000773	1
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	ND	U	0.000088	0.000187	1	ND	U	0.000095	0.000201	1	ND	U	0.000093	0.000198	1	ND	U	0.000089	0.000189	1	ND	U	0.000091	0.000193	1
Perfluorodecanoic Acid (PFDA)	335-76-2	0.00016	mg/kg	ND	U	0.000047	0.000187	1	ND	U	0.00005	0.000201	1	ND	U	0.000049	0.000198	1	ND	U	0.000047	0.000189	1	ND	U	0.000048	0.000193	1
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	ND	U	0.000088	0.000187	1	ND	U	0.000095	0.000201	1	ND	U	0.000093	0.000198	1	ND	U	0.000089	0.000189	1	ND	U	0.000091	0.000193	1
Perfluorododecanoic Acid (PFDoA)	307-55-1	4.1	mg/kg	ND	U	0.000094	0.000187	1	ND	U	0.0001	0.000201	1	ND	U	0.000099	0.000198	1	ND	U	0.000095	0.000189	1	ND	U	0.000097	0.000193	1
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	ND	U	0.000032	0.000187	1	ND	U	0.000034	0.000201	1	ND	U	0.000034	0.000198	1	ND	U	0.000032	0.000189	1	ND	U	0.000033	0.000193	1
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	mg/kg	ND	U	0.000067	0.000187	1	ND	U	0.000072	0.000201	1	ND	U	0.000071	0.000198	1	ND	U	0.000068	0.000189	1	ND	U	0.00007	0.000193	1
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	mg/kg	ND	U	0.000062	0.000187	1	ND	U	0.000066	0.000201	1	ND	U	0.000065	0.000198	1	ND	U	0.000062	0.000189	1	ND	U	0.000064	0.000193	1
Perfluorohexanoic Acid (PFHxA)	307-24-4	41	mg/kg	ND	U	0.000154	0.000187	1	ND	U	0.000165	0.000201	1	ND	U	0.000162	0.000198	1	ND	U	0.000155	0.000189	1	ND	U	0.000158	0.000193	1
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	ND	U	0.000088	0.000187	1	ND	U	0.000095	0.000201	1	ND	U	0.000093	0.000198	1	ND	U	0.000089	0.000189	1	ND	U	0.000091	0.000193	1
Perfluorononanoic Acid (PFNA)	375-95-1	0.25	mg/kg	ND	U	0.00003	0.000187	1	ND	U	0.000032	0.000201	1	ND	U	0.000032	0.000198	1	ND	U	0.00003	0.000189	1	ND	U	0.000031	0.000193	1
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	ND	U	0.000107	0.000187	1	ND	U	0.000115	0.000201	1	ND	U	0.000113	0.000198	1	ND	U	0.000108	0.000189	1	ND	U	0.00011	0.000193	1
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0082	mg/kg	ND	U	0.000097	0.000187	1	ND	U	0.000104	0.000201	1	ND	U	0.000103	0.000198	1	ND	U	0.000098	0.000189	1	ND	U	0.0001	0.000193	1
Perfluorooctanoic Acid (PFOA)	335-67-1	0.000078	mg/kg	ND	U	0.000041	0.000187	1	ND	U	0.000044	0.000201	1	ND	U	0.000044	0.000198	1	ND	U	0.000042	0.000189	1	ND	U	0.000043	0.000193	1
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	ND	U	0.000026	0.000187	1	ND	U	0.000028	0.000201	1	ND	U	0.000028	0.000198	1	ND	U	0.000026	0.000189	1	ND	U	0.000027	0.000193	1
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	ND	U	0.000075	0.000374	1	ND	U	0.00008	0.000402	1	ND	U	0.000079	0.000396	1	ND	U	0.000076	0.000378	1	ND	U	0.000077	0.000387	1
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	82	mg/kg	ND	U	0.000137	0.000187	1	ND	U	0.000147	0.000201	1	ND	U	0.000144	0.000198	1	ND	U	0.000138	0.000189	1	ND	U	0.000141	0.000193	1
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	ND	U	0.000086	0.000187	1	ND	U	0.000093	0.000201	1	ND	U	0.000091	0.000198	1	ND	U	0.000087	0.000189	1	ND	U	0.000089	0.000193	1
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	25	mg/kg	ND	U	0.000082	0.000187	1	ND	U	0.000089	0.000201	1	ND	U	0.000087	0.000198	1	ND	U	0.000083	0.000189	1	ND	U	0.000085	0.000193	1
General Chemistry																												
Solids, Percent	SOLID	NS	Percent	93.8				1	95.5				1	89.7				1	90.2				1	92.6				1

Table 1
Soil Analytical Table
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Notes:
Soil samples were compared to the EPA Industrial RSL with THQ 0.1 and TR 1E-6 (November 2024)
EPA - Environmental Protection Agency
RSL - Regional Screening Levels
THQ - Target Hazard Quotient
TR - Target Risk
CAS - Chemical Abstract Service
NS - No standard
mg/kg - Milligrams per kilogram
ND - Not detected
Q - Qualifier
MDL - Method detection limit
RL - Reporting Limit
DF - Dilution factor

Qualifiers:
J – The analyte was positively identified above the quantitation limit, and the associated numerical value is the approximate concentration of the analyte in the sample.
U – The analyte was not detected at or above the quantitation limit, or the analyte detection is impacted by blank contamination and qualified as non-detect in accordance with the applicable validation guidelines.

Exceedance Summary:
10 - Result exceeds EPA RSL for Soil - Commercial/Industrial
10 - MDL exceeds screening level

Table 2

Analyte Parameters
Human Health Risk Assessment
Coalburg Road, Birmingham AL
Langan Project No.: 350120001

Analyte	**CSF_0** $(mg/kg\text{-}day)^{-1}$	**CSF_0** Reference	**RfD** (mg/kg-day)	**RfD** Reference	**ABS**	**IUR** $(ug/m^3)^{-1}$	**IUR** Reference	**RfC** (mg/m^3)	**RfC** Reference
Arsenic	1.50E+00	I	3.0E-04	I	0.03	4.30E-03	I	1.50E-05	C

Notes:

CSF_0 - Oral Cancer Slope Factor
RfD_0 - Oral reference dose
IUR - Inhalation unit risk
RfC - Reference concentration
ABS - Dermal absorption fraction
ug/m^3 - Micrograms per cubic meter
mg/m^3 - Milligrams per cubic meter
mg/kg-day - Milligrams per kilograms per day
C- California EPA

Table 3

Risk Characterization Summary
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

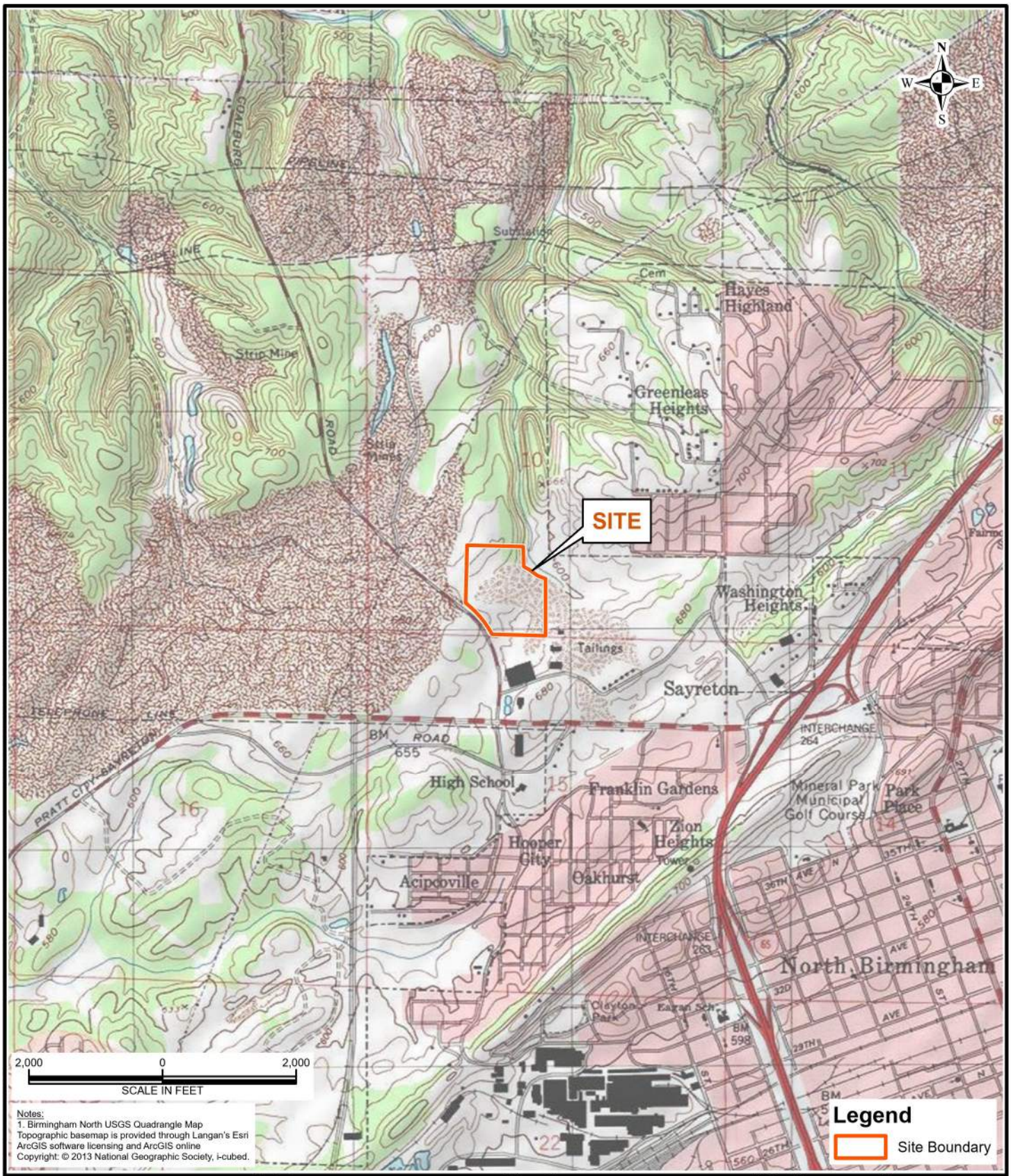
Commercial/Industrial Worker (Import Soil)	Incidental Ingestion of Soil		Dermal Contact with Soil		Inhalation of Fugitive Dust		Total	
	HQ	ILCR	HQ	ILCR	HQ	ILCR	HQ	ILCR
Arsenic	7.63E-03	1.23E-06	3.23E-03	5.19E-07	4.80E-05	1.10E-09	**1.1E-02**	**1.7E-06**

Construction Worker (Import Soil)	Incidental Ingestion of Soil		Dermal Contact with Soil		Inhalation of Fugitive Dust		Total	
	HQ	ILCR	HQ	ILCR	HQ	ILCR	HQ	ILCR
Arsenic	5.03E-02	3.24E-07	8.10E-03	5.20E-08	9.34E-03	8.80E-09	**6.8E-02**	**3.84E-07**

Trespasser (Import Soil)	Incidental Ingestion of Soil		Dermal Contact with Soil		Inhalation of Fugitive Dust		Total	
	HQ	ILCR	HQ	ILCR	HQ	ILCR	HQ	ILCR
Arsenic	5.44E-03	5.88E-08	1.5E-04	2.49E-08	2.30E-06	5.30E-11	**5.6E-03**	**8.4E-08**

Notes
HQ - Hazard Quotient
ILCR - Incremental Lifetime Cancer Risk
NC - Not Calculated
Ft bgs - Feet below ground surface

Figures



Notes:
1. Birmingham North USGS Quadrangle Map Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2013 National Geographic Society, i-cubed.

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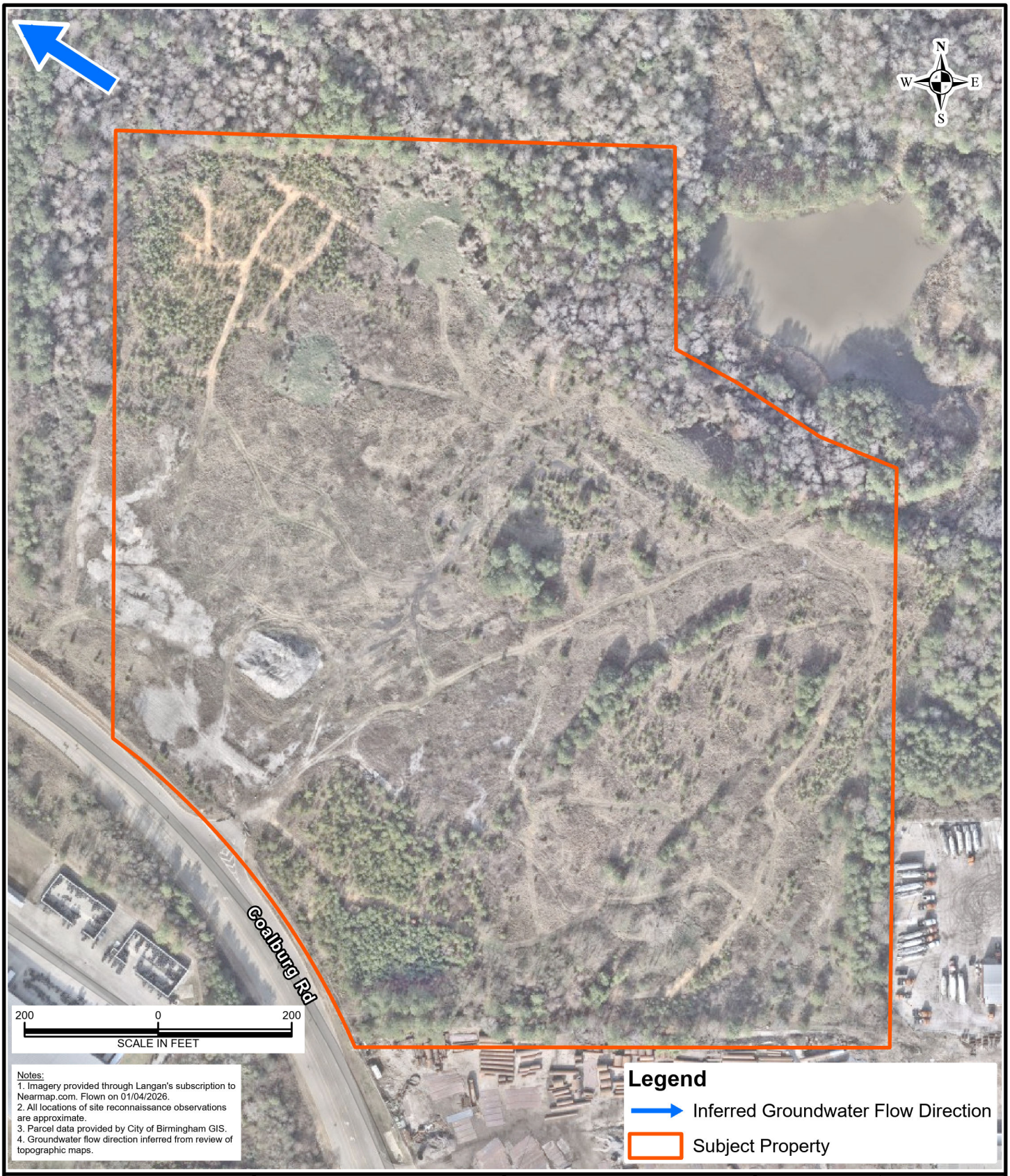
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Project	Figure Title	Project No.	Figure
4401 COALBURG ROAD BIRMINGHAM JEFFERSON COUNTY AL	**SITE LOCATION MAP**	350120001 Date 12/23/2025 Scale 1" = 2,000 feet Drawn By LB	1

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Project	4401 COALBURG ROAD BIRMINGHAM JEFFERSON COUNTY ALABAMA
Figure Title	SUBJECT PROPERTY LAYOUT
Project No.	350120001
Date	4/22/2026
Scale	1" = 200 feet
Drawn By	NPD
Figure	2

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Attachment A – ProUCL

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 10/7/2026 10:15:47 AM
From File	Pro UCL Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic

General Statistics

Total Number of Observations	10	Number of Distinct Observations	10
		Number of Missing Observations	0
Minimum	6.18	Mean	8.054
Maximum	10.5	Median	7.5
SD	1.477	Std. Error of Mean	0.467
Coefficient of Variation	0.183	Skewness	0.585

Normal GOF Test

Shapiro Wilk Test Statistic	0.923	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.781	Data appear Normal at 1% Significance Level
Lilliefors Test Statistic	0.226	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.304	Data appear Normal at 1% Significance Level

Data appear Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	8.91	95% Adjusted-CLT UCL (Chen-1995)	8.915
		95% Modified-t UCL (Johnson-1978)	8.925

Gamma GOF Test

A-D Test Statistic	0.352	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.724	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.216	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.266	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	34.24	k star (bias corrected MLE)	24.04
Theta hat (MLE)	0.235	Theta star (bias corrected MLE)	0.335
nu hat (MLE)	684.9	nu star (bias corrected)	480.8
MLE Mean (bias corrected)	8.054	MLE Sd (bias corrected)	1.643
		Approximate Chi Square Value (0.05)	430.9
Adjusted Level of Significance	0.0267	Adjusted Chi Square Value	422.7

Assuming Gamma Distribution

95% Approximate Gamma UCL	8.986	95% Adjusted Gamma UCL	9.16

	A	B	C	D	E	F	G	H	I	J	K	L
51	**Lognormal GOF Test**											
52					Shapiro Wilk Test Statistic	0.942	**Shapiro Wilk Lognormal GOF Test**					
53					10% Shapiro Wilk Critical Value	0.869	Data appear Lognormal at 10% Significance Level					
54					Lilliefors Test Statistic	0.201	**Lilliefors Lognormal GOF Test**					
55					10% Lilliefors Critical Value	0.241	Data appear Lognormal at 10% Significance Level					
56	**Data appear Lognormal at 10% Significance Level**											
57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	1.821			Mean of logged Data			2.071
60					Maximum of Logged Data	2.351			SD of logged Data			0.179
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	9.015			90% Chebyshev (MVUE) UCL			9.425
64					95% Chebyshev (MVUE) UCL	10.05			97.5% Chebyshev (MVUE) UCL			10.91
65					99% Chebyshev (MVUE) UCL	12.61						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	8.822			95% BCA Bootstrap UCL			8.94
72					95% Standard Bootstrap UCL	8.797			95% Bootstrap-t UCL			9.046
73					95% Hall's Bootstrap UCL	8.861			95% Percentile Bootstrap UCL			8.853
74					90% Chebyshev(Mean, Sd) UCL	9.455			95% Chebyshev(Mean, Sd) UCL			10.09
75					97.5% Chebyshev(Mean, Sd) UCL	10.97			99% Chebyshev(Mean, Sd) UCL			12.7
76												
77	**Suggested UCL to Use**											
78					95% Student's-t UCL	8.91						
79												
80	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
81	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
82	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
83												

Attachment B – Construction Worker Models

Appendix B

Ingestion Model - Soil - Construction Worker (Import Soil)

Human Health Risk Assessment

Coalburg Road, Birmingham AL

Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Bioavailability	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.6	1.5E-05	3.0E-04	5.0E-02	2.2E-07	1.5E+00	3.2E-07
				Hazard Index =	5.0E-02		**Total Cancer Risk =**	3.2E-07

Notes:

-- Not available

NC - Not calculated

EPC - Exposure point concentration

RfD - Reference dose

mg/kg - Milligrams per kilogram

mg/kg-day - Milligrams per kilogram per day

[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for exceeding paramters of the import soil in ProUCL

$$Intake\ (mg/kg-day) = \frac{C_s \times CF \times IR_s \times FI \times EF \times ED}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Soil EPC Above	Site-Specific
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 1989
IR_s - Ingestion rate for soil =	mg/day	330	USEPA 2023
FI - Fraction ingested from contaminated source =	unitless	1	Best Professional Judgement
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	1	Professional Judgement
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	365	USEPA 2014
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 2014

Appendix B

Dermal Model - Soil - Construction Worker (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	ABS	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.03	2.4E-06	3.0E-04	8.1E-03	3.5E-08	1.5E+00	5.2E-08
				Hazard Index =	8.1E-03		**Total Cancer Risk =**	5.2E-08

Notes:

– Not available
NC - Not calculated
EPC - Exposure point concentration
ABS - Absorption fraction
RfD - Reference dose
mg/kg - Milligrams per kilogram
mg/kg-day - Milligrams per kilogram per day
[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for exceeding paramters of the import soil in ProUCL

$$Intake\ (mg/kg-day) = \frac{C_s \times SA \times AF \times ABS \times EF \times ED \times CF \times EV}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Above	Site-Specific
SA - Surface area available for exposure =	cm^2	3527	USEPA 2014
AF - Adherence factor =	mg/cm^2-event	0.30	USEPA 2004
ABS - Absorption fraction =	unitless	See Above	Analyte-Specific
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	1	Professional Judgement
EV - Event Frequency =	events/day	1	USEPA 2002
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 2014
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	365	USEPA 1989
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 1989

Appendix B

Inhalation Model - Soil - Construction Worker (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Dia (cm^2/s)	Diw (cm^2/s)	H' (unitless)	K_{oc} (L/kg)	DA (cm^2/s)	VF (m^3/kg)	Air EPC (mg/m^3)	Average Daily Intake (mg/m^3)	Inhalation RfC (mg/m^3)	Hazard Quotient	Average Lifetime Daily Intake (mg/m^3)	Inhalation Unit Risk $(mg/m^3)^{-1}$	Cancer Risk
Arsenic	8.91	1.80E-01	3.00E-05	–	–	–	–	6.24E-07	1.4E-07	1.5E-05	9.5E-03	2.0E-09	4.3E+00	8.8E-09
										Hazard Index =	9.5E-03		**Total Cancer Risk =**	8.8E-09

Notes:
- Not Available
NC - Not calculated
EPC - Exposure point concentration
Dia - Diffusivity in air
Diw - Diffusivity in water
H' - Henry's Law Constant
K_{oc} - Organic carbon partition coefficient
DA - Apparent Diffusivity
VF - Infinite-source volatilization factors
RfC - Reference concentration
mg/kg - Milligrams per kilogram
cm^2/s - Square centimeters per second
L/kg - Liters per kilogram
m^3/kg - Cubic meters per kilogram
mg/m^3 - Milligrams per cubic meter
mg/kg-day - Milligrams per kilogram per day
[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for exceeding paramters of the import soil in ProUCL

$$Intake\ (mg/m^3) = \frac{C_a \times EF \times ED \times ET}{AT}$$

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	1	Professional Judgement
ET - Expsoure time =	hr/day	8	Professional Judgement
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	hours	8760	USEPA 1989
AT_c - Averaging time - carcinogenic =	hours	613200	USEPA 1989

$$C_a = C_s \times \left(\frac{1}{VF} + \frac{1}{PEF}\right)$$

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
C_s - Concentration in soil =	mg/kg	See Above	Site-Specific
VF - soil-to-air volatilization factor =	m^3/kg	Chemical-specific	USEPA 1991
PEF - Particulate Emission Factor =	m^3/kg	See below	Calculated (see below)

Appendix B

Inhalation Model - Soil - Construction Worker (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

$$PEF = \frac{Q}{C} \times \left[\frac{T \times A_R}{556 \times \left(\frac{W}{3}\right)^{0.4} \times \frac{365 \times p}{365} \times \Sigma VKT} \right] \times \frac{1}{F_D}$$

Parameter	Unit	Value	Source
T - Exposure factor =	s	3.15E+07	Site-specific
A_R - Surfce area of contaminated road segment =	m^2	2.21E+03	Site-specific
W - Mean vehicle weight =	tons	8	USEPA 2002
p = Number of days with ≥ 0.01 inches of precipitation =	days/year	118	USEPA 2002
ΣVKT - Sum of fleet vehicle kilometers traveled during exposure duration =	km	8	USEPA 2002
F_D = Dispersion correction factor =	unitless	0.185	USEPA 2002
PEF - Particulate Emission Factor =	m^3/kg	1.43E+07	Calculated (see below)

$$\frac{Q}{C} = A \times \left(exp\left((lnA_{site} - B)^2 / C \right) \right)$$

Parameter	Unit	Value	Source
A - dispersion constant =	-	16.2302	USEPA 2002
B - dispersion constant =	-	14.8349	USEPA 2002
C - dispersion constant =	-	216.1080	USEPA 2002
A_{site} - affected area of site (acres) =	acres	32.3	Site-specific
Q/C - =	g/m^2-s per kg/m^3	29.49	Calculated (see below)

$$VF = \left((Q/C) \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4} / (2 \times \rho_b \times D_A) \right)$$

$$D_A = \left(\left({\theta_a}^{10/3} \times D_{ia} \times H' + {\theta_w}^{10/3} \times D_{iw} \right) / n^2 \right) / (\rho_b \times K_d + \theta_w + \theta_a \times H')$$

Parameter	Unit	Value	Source
ρ_b - Dry soil bulk density =	g/cm^3	1.5	USEPA 2002
θ_a - Air-filled soil porosity =	--	0.28	USEPA 1996c
θ_w - Water-filled soil porosity =	--	0.15	USEPA 1996c
n - Total soil porosity =	--	0.43	USEPA 1996c
D_{ia} - Diffusivity in air =	cm^2/s	See Above	USEPA 2022c
D_{iw} - Diffusivity in water =	cm^2/s	See Above	USEPA 2022c
H' - Dimensionless Henry's Law Constant =	--	See Above	USEPA 2022c
K_d - Soil-water partition coefficient (Koc x foc) =	L/kg	See Above	Calculated
K_{oc} - Soil organic carbon-water partition coefficient =	L/kg	See Above	USEPA 2022c
f_{oc} - Organic carbon content of soil =	--	0.002	USEPA 2002
T - Exposure interval =	s	3.15E+07	Site-specific

Attachment C – Industrial Worker Models

Appendix C

Ingestion Model - Soil - Commercial/Industrial Worker (Import Soil)

Human Health Risk Assessment

Coalburg Road, Birmingham, AL

Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Bioavailability	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.6	2.3E-06	3.0E-04	7.6E-03	8.2E-07	1.5E+00	1.2E-06
				Hazard Index =	7.6E-03		**Total Cancer Risk =**	1.2E-06

Notes:

– Not available

NC - Not calculated

EPC - Exposure point concentration

RfD - Reference dose

mg/kg - Milligrams per kilogram

mg/kg-day - Milligrams per kilogram per day

[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/kg-day\ ) = \frac{C_s \times CF \times IR_s \times FI \times EF \times ED}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Soil EPC Above	Site-Specific
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 1989
IR_s - Ingestion rate for soil =	mg/day	50	USEPA 2014
FI - Fraction ingested from contaminated source =	unitless	1.00	Best Professional Judgement
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	25	USEPA 2014
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	9125	USEPA 1989
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 1989

Appendix C

Dermal Model - Soil - Commercial/Industrial Worker (Import Soil)

Human Health Risk Assessment

Coalburg Road, Birmingham, AL

Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	ABS	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.03	9.7E-07	3.0E-04	3.2E-03	3.5E-07	1.5E+00	5.2E-07
				Hazard Index =	3.2E-03		**Total Cancer Risk =**	5.2E-07

Notes:

– Not available

NC - Not calculated

EPC - Exposure point concentration

ABS - Absorption fraction

RfD - Reference dose

mg/kg - Milligrams per kilogram

mg/kg-day - Milligrams per kilogram per day

[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/kg-day) = \frac{C_s \times SA \times AF \times ABS \times EF \times ED \times CF \times EV}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Above	Site-Specific
SA - Surface area available for exposure =	cm^2	3527	USEPA 2014
AF - Adherence factor =	mg/cm^2	0.12	USEPA 2014
ABS - Absorption fraction =	unitless	See Above	Analyte-Specific
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	25	USEPA 2014
EV - Event Frequency =	event/day	1	Professional Judgement
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 1989
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	9125	USEPA 1989
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 1989

Appendix C

Inhalation Model - Soil - Commercial/Industrial Worker (Import Soil)

Human Health Risk Assessment

Coalburg Road, Birmingham, AL

Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Dia (cm^2/s)	Diw (cm^2/s)	H' (unitless)	K_{oc} (L/kg)	DA (cm^2/s)	VF (m^3/kg)	Air EPC (mg/m^3)	Average Daily Intake (mg/m^3)	Inhalation RfC (mg/m^3)	Hazard Quotient	Average Lifetime Daily Intake (mg/m^3)	Inhalation Unit Risk $(mg/m^3)^{-1}$	Cancer Risk
Arsenic	8.91	1.80E-01	3.00E-05	–	–	--	–	3.17E-09	7.2E-10	1.5E-05	4.8E-05	2.6E-10	4.3E+00	1.1E-09
										Hazard Index =	4.8E-05		**Total Cancer Risk =**	1.1E-09

Notes:

- Not Available

NC - Not calculated

EPC - Exposure point concentration

Dia - Diffusivity in air

Diw - Diffusivity in water

H' - Henry's Law Constant

K_{oc} - Organic carbon partition coefficient

Da - Apparent Diffusivity

VF - Infinite-source volatilization factors

RfC - Reference Concentration

mg/kg - Milligrams per kilogram

cm^2/s - Square centimeters per second

L/kg - Liters per kilogram

m^3/kg - Cubic meters per kilogram

mg/m^3 - Milligrams per cubic meter

mg/kg-day - Milligrams per kilogram per day

[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/m^3) = \frac{C_a \times EF \times ED \times ET}{AT}$$

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
EF - Exposure frequency =	days/year	250	USEPA 2014
ED - Expsoure duration =	years	25	USEPA 2014
ET- Expsoure time =	hr/day	8	USEPA 2014
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	hours	219000	USEPA 1989
AT_c - Averaging time - carcinogenic =	hours	613200	USEPA 1989

$$C_a = C_s \times \left(\frac{1}{VF} + \frac{1}{PEF}\right)$$

Appendix C

Inhalation Model - Soil - Commercial/Industrial Worker (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
C_s - Concentration in soil =	mg/kg	See Above	Site-Specific
VF - soil-to-air volatilization factor =	m^3/kg	Chemical-specific	USEPA 1991
PEF - Particulate Emission Factor =	m^3/kg	See below	Calculated (see below)

$$PEF = \frac{Q}{C} \times 3600 / \left(0.036 \times (1 - V) \times \left(\frac{U_m}{U_t}\right)^3 \times F(x)\right)$$

Parameter	Unit	Value	Source
V - Fraction of vegetative cover =	-	0.50	Site-specific
U_m - Mean annual windspeed =	m/sec	2.80	NOAA
U_t - Equivalent threshold value of windspeed at 7 m =	m/sec	11.32	USEPA 2002
F(x) - Um/Ut-dependent function =	-	0.194	USEPA 2002
PEF - Particulate Emission Factor =	m3/kg	2810720621	Calculated (see below)

$$\frac{Q}{C} = A \times \left(exp\left((lnA_{site} - B)^2 / C\right)\right)$$

Parameter	Unit	Value	Source
A - dispersion constant =	-	14.8349	USEPA 1988, Zone VI
B - dispersion constant =	-	17.9259	USEPA 1988, Zone VI
C - dispersion constant =	-	204.1516	USEPA 1988, Zone VI
A_{site} - affected area of site (acres) =	acres	32.3	Site-specific
Q/C - =	g/m^2-s per kg/m^3	41	Calculated (see below)

$$VF = \left((Q/C) \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4} / (2 \times \rho_b \times D_A)\right)$$

$$D_A = \left(\left({\theta_a}^{10/3} \times D_{ia} \times H' + {\theta_w}^{10/3} \times D_{iw}\right)/n^2\right) / (\rho_b \times K_d + \theta_w + \theta_a \times H')$$

Parameter	Unit	Value	Source
ρ_b - Dry soil bulk density =	g/cm^3	1.5	USEPA 2002
θ_a - Air-filled soil porosity =	--	0.28	USEPA 1996c
θ_w - Water-filled soil porosity =	--	0.15	USEPA 1996c
n - Total soil porosity =	--	0.43	USEPA 1996c
D_{ia} - Diffusivity in air =	cm^2/s	See Above	USEPA 2022c
D_{iw} - Diffusivity in water =	cm^2/s	See Above	USEPA 2022c
H' - Dimensionless Henry's Law Constant =	--	See Above	USEPA 2022c
K_d - Soil-water partition coefficient (Koc x foc) =	L/kg	See Above	Calculated
K_{oc} - Soil organic carbon-water partition coefficient =	L/kg	See Above	USEPA 2022c
foc - Organic carbon content of soil =	g/g	0.006	USEPA 2002
T - Exposure interval =	s	7.88E+08	Site Specific

Attachment D - Trespasser Models

Appendix D
Ingestion Model - Soil - Trespasser (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Bioavailability	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.6	1.6E-06	3.0E-04	5.4E-03	3.9E-08	1.5E+00	5.9E-08
				Hazard Index =	5.4E-03		**Total Cancer Risk =**	5.9E-08

Notes:
-- Not available
NC - Not calculated
EPC - Exposure point concentration
RfD - Reference dose
mg/kg - Milligrams per kilogram
mg/kg-day - Milligrams per kilogram per day
[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/kg-day) = \frac{C_s \times CF \times IR_s \times FI \times EF \times ED}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Soil EPC Above	Site-Specific
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 1989
IR_s - Ingestion rate for soil =	mg/day	50	USEPA 2014
FI - Fraction ingested from contaminated source =	unitless	1.00	Best Professional Judgement
EF - Exposure frequency =	days/year	12	Best Professional Judgement
ED - Expsoure duration =	years	25	USEPA 2014
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	9125	USEPA 1989
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 1989

Appendix D

Dermal Model - Soil - Trespasser (Import Soil)

Human Health Risk Assessment

Coalburg Road, Birmingham, AL

Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	ABS	Average Daily Intake (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Quotient	Average Lifetime Daily Intake (mg/kg-day)	Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Cancer Risk
Arsenic	8.91	0.03	4.6E-08	3.0E-04	1.5E-04	1.7E-08	1.5E+00	2.5E-08
				Hazard Index =	1.5E-04		**Total Cancer Risk =**	2.5E-08

Notes:

– Not available

NC - Not calculated

EPC - Exposure point concentration

ABS - Absorption fraction

RfD - Reference dose

mg/kg - Milligrams per kilogram

mg/kg-day - Milligrams per kilogram per day

[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/kg-day) = \frac{C_s \times SA \times AF \times ABS \times EF \times ED \times CF \times EV}{BW \times AT}$$

Parameter	Unit	Value	Source
C_S - Concentration in soil =	mg/kg	See Above	Site-Specific
SA - Surface area available for exposure =	cm^2	3527	USEPA 2014
AF - Adherence factor =	mg/cm^2	0.12	USEPA 2014
ABS - Absorption fraction =	unitless	See Above	Analyte-Specific
EF - Exposure frequency =	days/year	12	Professional Judgement
ED - Expsoure duration =	years	25	USEPA 2014
EV - Event Frequency =	event/day	1	Professional Judgement
CF - Conversion factor =	kg/mg	1.00E-06	USEPA 1989
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	days	9125	USEPA 1989
AT_c - Averaging time - carcinogenic =	days	25550	USEPA 1989

Appendix D
Inhalation Model - Soil - Trespasser (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Analyte	Soil EPC[1] (mg/kg)	Dia (cm^2/s)	Diw (cm^2/s)	H' (unitless)	K_{oc} (L/kg)	DA (cm^2/s)	VF (m^3/kg)	Air EPC (mg/m^3)	Average Daily Intake (mg/m^3)	Inhalation RfC (mg/m^3)	Hazard Quotient	Average Lifetime Daily Intake (mg/m^3)	Inhalation Unit Risk $(mg/m^3)^{-1}$	Cancer Risk
Arsenic	8.91	1.80E-01	3.00E-05	–	–	--	–	3.17E-09	3.5E-11	1.5E-05	2.3E-06	1.2E-11	4.3E+00	5.3E-11
										Hazard Index =	2.3E-06		**Total Cancer Risk =**	5.3E-11

Notes:
- Not Available
NC - Not calculated
EPC - Exposure point concentration
Dia - Diffusivity in air
Diw - Diffusivity in water
H' - Henry's Law Constant
K_{oc} - Organic carbon partition coefficient
Da - Apparent Diffusivity
VF - Infinite-source volatilization factors
RfC - Reference Concentration
mg/kg - Milligrams per kilogram
cm^2/s - Square centimeters per second
L/kg - Liters per kilogram
m^3/kg - Cubic meters per kilogram
mg/m^3 - Milligrams per cubic meter
mg/kg-day - Milligrams per kilogram per day
[1] - The soil EPC is equal to the 95% upper confidence limit (UCL) value calculated for for exceeding paramters of the import soil in ProUCL.

$$Intake\ (mg/m^3) = \frac{C_a \times EF \times ED \times ET}{AT}$$

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
EF - Exposure frequency =	days/year	12	Professional Judgement
ED - Expsoure duration =	years	25	USEPA 2014
ET- Expsoure time =	hr/day	8	USEPA 2014
BW - Body weight =	kg	80	USEPA 2014
AT_n - Averaging time - noncarcinogenic =	hours	219000	USEPA 1989
AT_c - Averaging time - carcinogenic =	hours	613200	USEPA 1989

$$C_a = C_s \times \left(\frac{1}{VF} + \frac{1}{PEF}\right)$$

Appendix D

Inhalation Model - Soil - Trespasser (Import Soil)
Human Health Risk Assessment
Coalburg Road, Birmingham, AL
Langan Project No.: 350120001

Parameter	Unit	Value	Source
C_a - Concentration in air =	mg/m^3	See Above	Site-Specific
C_s - Concentration in soil =	mg/kg	See Above	Site-Specific
VF - soil-to-air volatilization factor =	m^3/kg	Chemical-specific	USEPA 1991
PEF - Particulate Emission Factor =	m^3/kg	See below	Calculated (see below)

$$PEF = \frac{Q}{C} \times 3600 / \left(0.036 \times (1 - V) \times \left(\frac{U_m}{U_t}\right)^3 \times F(x)\right)$$

Parameter	Unit	Value	Source
V - Fraction of vegetative cover =	-	0.50	Site-specific
U_m - Mean annual windspeed =	m/sec	2.80	USEPA 2002
U_t - Equivalent threshold value of windspeed at 7 m =	m/sec	11.32	USEPA 2002
F(x) - Um/Ut-dependent function =	-	0.194	USEPA 2002
PEF - Particulate Emission Factor =	m3/kg	2810720621	Calculated (see below)

$$\frac{Q}{C} = A \times \left(exp\left((lnA_{site} - B)^2 / C\right)\right)$$

Parameter	Unit	Value	Source
A - dispersion constant =	-	14.8349	USEPA 1988, Zone VI
B - dispersion constant =	-	17.9259	USEPA 1988, Zone VI
C - dispersion constant =	-	204.1516	USEPA 1988, Zone VI
A_{site} - affected area of site (acres) =	acres	32.3	Site-specific
Q/C - =	g/m^2-s per kg/m^3	41	Calculated (see below)

$$VF = \left((Q/C) \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4} / (2 \times \rho_b \times D_A)\right)$$

$$D_A = \left(\left({\theta_a}^{10/3} \times D_{ia} \times H' + {\theta_w}^{10/3} \times D_{iw}\right)/n^2\right) / (\rho_b \times K_d + \theta_w + \theta_a \times H')$$

Parameter	Unit	Value	Source
ρ_b - Dry soil bulk density =	g/cm^3	1.5	USEPA 2002
θ_a - Air-filled soil porosity =	--	0.28	USEPA 1996c
θ_w - Water-filled soil porosity =	--	0.15	USEPA 1996c
n - Total soil porosity =	--	0.43	USEPA 1996c
D_{ia} - Diffusivity in air =	cm^2/s	See Above	USEPA 2022c
D_{iw} - Diffusivity in water =	cm^2/s	See Above	USEPA 2022c
H' - Dimensionless Henry's Law Constant =	--	See Above	USEPA 2022c
K_d - Soil-water partition coefficient (Koc x foc) =	L/kg	See Above	Calculated
K_{oc} - Soil organic carbon-water partition coefficient =	L/kg	See Above	USEPA 2022c
foc - Organic carbon content of soil =	g/g	0.006	USEPA 2002
T - Exposure interval =	s	7.88E+08	PADEP Chapter 250

Attachment E – Laboratory Reports

ANALYTICAL REPORT

October 05, 2026

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3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Langan - Plttsburgh, PA

Sample Delivery Group:	L2019920
Samples Received:	09/29/2026
Project Number:	350120001
Description:	Glaicier
Site:	BIRMINGHAM, AL
Report To:	Tom Antonacci
	1 PPG Place
	Suite 1950
	Pittsburgh, PA 15222

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

IFS-01-09282026 L2019920-01

Collected by: Luke McKeon | Collected date/time: 09/28/26 13:40 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:11	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1.32	09/28/26 13:40	09/30/26 00:49	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1.03	09/30/26 09:45	09/30/26 18:28	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 17:35	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 17:35	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 12:14	TSC	Mt. Juliet, TN

IFS-02-09282026 L2019920-02

Collected by: Luke McKeon | Collected date/time: 09/28/26 13:51 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:14	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1	09/28/26 13:51	09/30/26 01:09	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 18:42	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 17:46	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 17:46	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 15:31	TSC	Mt. Juliet, TN

IFS-03-09282026 L2019920-03

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:00 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:44	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:16	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1	09/28/26 14:00	09/30/26 01:28	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 18:55	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 17:57	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 17:57	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 14:47	TSC	Mt. Juliet, TN

IFS-04-09282026 L2019920-04

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:10 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:47	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:18	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1	09/28/26 14:10	09/30/26 01:48	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 19:08	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 18:08	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 18:08	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 12:35	TSC	Mt. Juliet, TN

IFS-05-09282026 L2019920-05

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:19 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:50	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:20	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 16:45	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1	09/28/26 14:19	09/30/26 02:07	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1.03	09/30/26 09:45	09/30/26 19:21	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 18:18	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 18:18	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 12:57	TSC	Mt. Juliet, TN

IFS-06-09282026 L2019920-06

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:34 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:23	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1	09/28/26 14:34	09/30/26 02:26	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 19:34	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 18:29	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 18:29	LJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 14:25	TSC	Mt. Juliet, TN

IFS-07-09282026 L2019920-07

Collected by: Luke McKeon | Collected date/time: 09/28/26 15:21 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:56	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:29	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1.02	09/28/26 15:21	09/30/26 02:46	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1.03	09/30/26 09:45	09/30/26 19:47	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 18:40	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 18:40	ANC	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 13:41	TSC	Mt. Juliet, TN

IFS-08-09282026 L2019920-08

Collected by: Luke McKeon | Collected date/time: 09/28/26 15:02 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843538	1	09/30/26 05:20	09/30/26 05:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 20:58	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:32	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1.11	09/28/26 15:02	09/30/26 03:05	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 20:01	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 18:51	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 18:51	ANC	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 13:19	TSC	Mt. Juliet, TN

SAMPLE SUMMARY

IFS-09-09282026 L2019920-09

Collected by: Luke McKeon
Collected date/time: 09/28/26 14:52
Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843819	1	09/30/26 04:44	09/30/26 04:50	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 21:01	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:34	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1.21	09/28/26 14:52	09/30/26 03:25	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1	09/30/26 09:45	09/30/26 20:14	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 19:02	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 19:02	ANC	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 11:30	TSC	Mt. Juliet, TN

IFS-10-09282026 L2019920-10

Collected by: Luke McKeon
Collected date/time: 09/28/26 15:11
Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2843819	1	09/30/26 04:44	09/30/26 04:50	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2844051	1	09/30/26 10:11	10/01/26 21:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2843802	1	09/30/26 07:55	09/30/26 15:36	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2843707	1.12	09/28/26 15:11	09/30/26 03:44	KST	Mt. Juliet, TN
Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321	WG2843849	1.03	09/30/26 09:45	09/30/26 20:27	JJM	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2843884	1	10/01/26 08:06	10/01/26 19:12	ANC	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2843884	1	10/01/26 08:06	10/01/26 19:12	ANC	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2843887	1	10/01/26 12:24	10/02/26 11:52	TSC	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Andi R Jones
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0222	0.0431	1	10/01/2026 20:33	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.745	2.16	1	09/30/2026 15:11	WG2843802
Arsenic	7.10		0.903	2.16	1	09/30/2026 15:11	WG2843802
Beryllium	0.889		0.0514	0.216	1	09/30/2026 15:11	WG2843802
Cadmium	0.237	J	0.0704	0.539	1	09/30/2026 15:11	WG2843802
Chromium	19.3		0.231	1.08	1	09/30/2026 15:11	WG2843802
Copper	42.7		0.385	2.16	1	09/30/2026 15:11	WG2843802
Lead	20.1		0.352	0.539	1	09/30/2026 15:11	WG2843802
Nickel	44.1		0.216	2.16	1	09/30/2026 15:11	WG2843802
Selenium	1.24	J	1.15	2.16	1	09/30/2026 15:11	WG2843802
Silver	U		0.137	1.08	1	09/30/2026 15:11	WG2843802
Thallium	U		0.559	2.16	1	09/30/2026 15:11	WG2843802
Zinc	115		1.05	5.39	1	09/30/2026 15:11	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.105	0.150	1.32	09/30/2026 00:49	WG2843707
Acrylonitrile	U		0.0121	0.0188	1.32	09/30/2026 00:49	WG2843707
Benzene	U		0.00107	0.00150	1.32	09/30/2026 00:49	WG2843707
Bromobenzene	U		0.00586	0.0188	1.32	09/30/2026 00:49	WG2843707
Bromodichloromethane	U		0.00175	0.00376	1.32	09/30/2026 00:49	WG2843707
Bromoform	U		0.0149	0.0376	1.32	09/30/2026 00:49	WG2843707
Bromomethane	U		0.0151	0.0188	1.32	09/30/2026 00:49	WG2843707
n-Butylbenzene	U		0.00939	0.0188	1.32	09/30/2026 00:49	WG2843707
sec-Butylbenzene	U		0.00576	0.0188	1.32	09/30/2026 00:49	WG2843707
tert-Butylbenzene	U		0.00283	0.00751	1.32	09/30/2026 00:49	WG2843707
Carbon tetrachloride	U		0.00452	0.00751	1.32	09/30/2026 00:49	WG2843707
Chlorobenzene	U		0.00129	0.00376	1.32	09/30/2026 00:49	WG2843707
Chlorodibromomethane	U		0.00242	0.00376	1.32	09/30/2026 00:49	WG2843707
Chloroethane	U		0.00855	0.0150	1.32	09/30/2026 00:49	WG2843707
Chloroform	U		0.00244	0.00376	1.32	09/30/2026 00:49	WG2843707
Chloromethane	U		0.0127	0.0188	1.32	09/30/2026 00:49	WG2843707
2-Chlorotoluene	U		0.00193	0.00376	1.32	09/30/2026 00:49	WG2843707
4-Chlorotoluene	U		0.00231	0.00751	1.32	09/30/2026 00:49	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0160	0.0376	1.32	09/30/2026 00:49	WG2843707
1,2-Dibromoethane	U		0.00189	0.00376	1.32	09/30/2026 00:49	WG2843707
Dibromomethane	U		0.00267	0.00751	1.32	09/30/2026 00:49	WG2843707
1,2-Dichlorobenzene	U		0.00234	0.00751	1.32	09/30/2026 00:49	WG2843707
1,3-Dichlorobenzene	U		0.00248	0.00751	1.32	09/30/2026 00:49	WG2843707
1,4-Dichlorobenzene	U		0.00263	0.00751	1.32	09/30/2026 00:49	WG2843707
Dichlorodifluoromethane	U		0.00653	0.00751	1.32	09/30/2026 00:49	WG2843707
1,1-Dichloroethane	U		0.00151	0.00376	1.32	09/30/2026 00:49	WG2843707
1,2-Dichloroethane	U		0.00220	0.00376	1.32	09/30/2026 00:49	WG2843707
1,1-Dichloroethene	U		0.00230	0.00376	1.32	09/30/2026 00:49	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00193	0.00376	1.32	09/30/2026 00:49	WG2843707
trans-1,2-Dichloroethene	U		0.00156	0.00751	1.32	09/30/2026 00:49	WG2843707
1,2-Dichloropropane	U		0.00288	0.00751	1.32	09/30/2026 00:49	WG2843707
1,1-Dichloropropene	U		0.00207	0.00751	1.32	09/30/2026 00:49	WG2843707
1,3-Dichloropropane	U		0.00244	0.00751	1.32	09/30/2026 00:49	WG2843707
cis-1,3-Dichloropropene	U		0.00158	0.00376	1.32	09/30/2026 00:49	WG2843707
trans-1,3-Dichloropropene	U		0.00158	0.00751	1.32	09/30/2026 00:49	WG2843707
2,2-Dichloropropane	U		0.00304	0.00376	1.32	09/30/2026 00:49	WG2843707
Di-isopropyl ether	U		0.00116	0.00150	1.32	09/30/2026 00:49	WG2843707
Ethylbenzene	U		0.00148	0.00376	1.32	09/30/2026 00:49	WG2843707
Hexachloro-1,3-butadiene	U		0.0157	0.0376	1.32	09/30/2026 00:49	WG2843707
Isopropylbenzene	U		0.00151	0.00376	1.32	09/30/2026 00:49	WG2843707
p-Isopropyltoluene	U		0.00320	0.00751	1.32	09/30/2026 00:49	WG2843707
2-Butanone (MEK)	U		0.133	0.150	1.32	09/30/2026 00:49	WG2843707
Methylene Chloride	U		0.0165	0.0376	1.32	09/30/2026 00:49	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0149	0.0376	1.32	09/30/2026 00:49	WG2843707
Methyl tert-butyl ether	U		0.00116	0.00150	1.32	09/30/2026 00:49	WG2843707
Naphthalene	U		0.0115	0.0188	1.32	09/30/2026 00:49	WG2843707
n-Propylbenzene	U		0.00254	0.00751	1.32	09/30/2026 00:49	WG2843707
Styrene	U		0.00668	0.0188	1.32	09/30/2026 00:49	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00196	0.00376	1.32	09/30/2026 00:49	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00174	0.00376	1.32	09/30/2026 00:49	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00422	0.00751	1.32	09/30/2026 00:49	WG2843707
Tetrachloroethene	U		0.00229	0.00376	1.32	09/30/2026 00:49	WG2843707
Toluene	U		0.00434	0.00751	1.32	09/30/2026 00:49	WG2843707
1,2,3-Trichlorobenzene	U		0.0105	0.0188	1.32	09/30/2026 00:49	WG2843707
1,2,4-Trichlorobenzene	U		0.00814	0.0188	1.32	09/30/2026 00:49	WG2843707
1,1,1-Trichloroethane	U		0.00217	0.00376	1.32	09/30/2026 00:49	WG2843707
1,1,2-Trichloroethane	U		0.00201	0.00376	1.32	09/30/2026 00:49	WG2843707
Trichloroethene	U		0.00134	0.00150	1.32	09/30/2026 00:49	WG2843707
Trichlorofluoromethane	U		0.00393	0.00601	1.32	09/30/2026 00:49	WG2843707
1,2,3-Trichloropropane	U		0.00919	0.0188	1.32	09/30/2026 00:49	WG2843707
1,2,4-Trimethylbenzene	U		0.00357	0.00751	1.32	09/30/2026 00:49	WG2843707
1,2,3-Trimethylbenzene	U		0.00273	0.00751	1.32	09/30/2026 00:49	WG2843707
1,3,5-Trimethylbenzene	U		0.00343	0.00751	1.32	09/30/2026 00:49	WG2843707
Vinyl chloride	U		0.00302	0.00376	1.32	09/30/2026 00:49	WG2843707
Xylenes, Total	U		0.00421	0.00976	1.32	09/30/2026 00:49	WG2843707
(S) Toluene-d8	*97.1*			*75.0-131*		*09/30/2026 00:49*	WG2843707
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*09/30/2026 00:49*	WG2843707
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/30/2026 00:49*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0111	0.0222	1.03	09/30/2026 18:28	WG2843849
Dalapon	U		0.00810	0.0222	1.03	09/30/2026 18:28	WG2843849
2,4-DB	U		0.00892	0.0222	1.03	09/30/2026 18:28	WG2843849
Dicamba	U		0.0108	0.0222	1.03	09/30/2026 18:28	WG2843849
Dichloroprop	U		0.00621	0.0222	1.03	09/30/2026 18:28	WG2843849
Dinoseb	U		0.00553	0.0222	1.03	09/30/2026 18:28	WG2843849
MCPA	U		0.0104	0.0222	1.03	09/30/2026 18:28	WG2843849
MCPP	U		0.00579	0.0222	1.03	09/30/2026 18:28	WG2843849
2,4,5-T	U		0.0101	0.0222	1.03	09/30/2026 18:28	WG2843849
2,4,5-TP (Silvex)	U		0.00613	0.0222	1.03	09/30/2026 18:28	WG2843849
(S) 2,4-DB-D3	*103*			*70.0-130*		*09/30/2026 18:28*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00696	0.0216	1	10/01/2026 17:35	WG2843884
Alpha BHC	U		0.00687	0.0216	1	10/01/2026 17:35	WG2843884
Beta BHC	U		0.00679	0.0216	1	10/01/2026 17:35	WG2843884
Delta BHC	U		0.00685	0.0216	1	10/01/2026 17:35	WG2843884
Gamma BHC	U		0.00729	0.0216	1	10/01/2026 17:35	WG2843884
Chlordane	U		0.107	0.324	1	10/01/2026 17:35	WG2843884
4,4-DDD	U		0.00744	0.0216	1	10/01/2026 17:35	WG2843884
4,4-DDE	U		0.00726	0.0216	1	10/01/2026 17:35	WG2843884
4,4-DDT	U		0.00826	0.0216	1	10/01/2026 17:35	WG2843884
Dieldrin	U		0.00752	0.0216	1	10/01/2026 17:35	WG2843884
Endosulfan I	U		0.00651	0.0216	1	10/01/2026 17:35	WG2843884
Endosulfan II	U		0.00713	0.0216	1	10/01/2026 17:35	WG2843884
Endosulfan sulfate	U		0.00692	0.0216	1	10/01/2026 17:35	WG2843884
Endrin	U		0.00804	0.0216	1	10/01/2026 17:35	WG2843884
Endrin aldehyde	U		0.00636	0.0216	1	10/01/2026 17:35	WG2843884
Endrin ketone	U		0.00749	0.0216	1	10/01/2026 17:35	WG2843884
Heptachlor	U		0.00747	0.0216	1	10/01/2026 17:35	WG2843884
Heptachlor epoxide	U		0.00701	0.0216	1	10/01/2026 17:35	WG2843884
Hexachlorobenzene	U		0.00656	0.0216	1	10/01/2026 17:35	WG2843884
Methoxychlor	U		0.00869	0.0216	1	10/01/2026 17:35	WG2843884
Toxaphene	U		0.231	0.431	1	10/01/2026 17:35	WG2843884
(S) Decachlorobiphenyl	*78.6*			*10.0-135*		*10/01/2026 17:35*	WG2843884
(S) Tetrachloro-m-xylene	*74.7*			*10.0-139*		*10/01/2026 17:35*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0110	0.0367	1	10/01/2026 17:35	WG2843884
PCB 1221	U		0.0115	0.0367	1	10/01/2026 17:35	WG2843884
PCB 1232	U		0.00967	0.0367	1	10/01/2026 17:35	WG2843884
PCB 1242	U		0.0109	0.0367	1	10/01/2026 17:35	WG2843884
PCB 1248	U		0.0134	0.0183	1	10/01/2026 17:35	WG2843884
PCB 1254	U		0.0112	0.0183	1	10/01/2026 17:35	WG2843884
PCB 1260	U		0.0119	0.0183	1	10/01/2026 17:35	WG2843884
(S) Decachlorobiphenyl	*79.2*			*10.0-135*		*10/01/2026 17:35*	WG2843884
(S) Tetrachloro-m-xylene	*79.4*			*10.0-139*		*10/01/2026 17:35*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00581	0.0359	1	10/02/2026 12:14	WG2843887
Acenaphthylene	U		0.00611	0.0359	1	10/02/2026 12:14	WG2843887
Anthracene	U		0.00441	0.0359	1	10/02/2026 12:14	WG2843887
Benzidine	U	C3 J4	1.08	1.80	1	10/02/2026 12:14	WG2843887
Benzo(a)anthracene	U		0.00410	0.0359	1	10/02/2026 12:14	WG2843887
Benzo(b)fluoranthene	U		0.00584	0.0359	1	10/02/2026 12:14	WG2843887
Benzo(k)fluoranthene	U		0.00522	0.0359	1	10/02/2026 12:14	WG2843887
Benzo(g,h,i)perylene	U		0.00694	0.0359	1	10/02/2026 12:14	WG2843887
Benzo(a)pyrene	U		0.00720	0.0359	1	10/02/2026 12:14	WG2843887
Bis(2-chlorethoxy)methane	U		0.0389	0.359	1	10/02/2026 12:14	WG2843887
Bis(2-chloroethyl)ether	U		0.0678	0.359	1	10/02/2026 12:14	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0770	0.359	1	10/02/2026 12:14	WG2843887
4-Bromophenyl-phenylether	U		0.0512	0.359	1	10/02/2026 12:14	WG2843887
2-Chloronaphthalene	U		0.00535	0.0359	1	10/02/2026 12:14	WG2843887
4-Chlorophenyl-phenylether	U		0.0512	0.359	1	10/02/2026 12:14	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00373	0.0359	1	10/02/2026 12:14	WG2843887
Dibenz(a,h)anthracene	U		0.00634	0.0359	1	10/02/2026 12:14	WG2843887
1,2-Dichlorobenzene	U		0.0308	0.359	1	10/02/2026 12:14	WG2843887
1,3-Dichlorobenzene	U		0.0313	0.359	1	10/02/2026 12:14	WG2843887
1,4-Dichlorobenzene	U		0.0308	0.359	1	10/02/2026 12:14	WG2843887
3,3-Dichlorobenzidine	U		0.137	0.359	1	10/02/2026 12:14	WG2843887
2,4-Dinitrotoluene	U		0.0712	0.359	1	10/02/2026 12:14	WG2843887
2,6-Dinitrotoluene	U		0.0677	0.359	1	10/02/2026 12:14	WG2843887
Fluoranthene	U		0.00463	0.0359	1	10/02/2026 12:14	WG2843887
Fluorene	U		0.00536	0.0359	1	10/02/2026 12:14	WG2843887
Hexachlorobenzene	U		0.0587	0.359	1	10/02/2026 12:14	WG2843887
Hexachloro-1,3-butadiene	U		0.0569	0.359	1	10/02/2026 12:14	WG2843887
Hexachlorocyclopentadiene	U		0.110	0.359	1	10/02/2026 12:14	WG2843887
Hexachloroethane	U		0.0442	0.359	1	10/02/2026 12:14	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00721	0.0359	1	10/02/2026 12:14	WG2843887
Isophorone	U		0.0452	0.359	1	10/02/2026 12:14	WG2843887
Naphthalene	U		0.0126	0.0359	1	10/02/2026 12:14	WG2843887
Nitrobenzene	U		0.0485	0.359	1	10/02/2026 12:14	WG2843887
n-Nitrosodimethylamine	U		0.0843	0.359	1	10/02/2026 12:14	WG2843887
n-Nitrosodiphenylamine	U		0.0460	0.359	1	10/02/2026 12:14	WG2843887
n-Nitrosodi-n-propylamine	U		0.0569	0.359	1	10/02/2026 12:14	WG2843887
Phenanthrene	U		0.00395	0.0359	1	10/02/2026 12:14	WG2843887
Benzylbutyl phthalate	U		0.0696	0.359	1	10/02/2026 12:14	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0708	0.359	1	10/02/2026 12:14	WG2843887
Di-n-butyl phthalate	U		0.0483	0.359	1	10/02/2026 12:14	WG2843887
Diethyl phthalate	U		0.0556	0.359	1	10/02/2026 12:14	WG2843887
Dimethyl phthalate	U		0.0482	0.359	1	10/02/2026 12:14	WG2843887
Di-n-octyl phthalate	U		0.159	0.359	1	10/02/2026 12:14	WG2843887
Pyrene	U		0.00402	0.0359	1	10/02/2026 12:14	WG2843887
1,2,4-Trichlorobenzene	U		0.0426	0.359	1	10/02/2026 12:14	WG2843887
4-Chloro-3-methylphenol	U		0.0561	0.359	1	10/02/2026 12:14	WG2843887
2-Chlorophenol	U		0.0373	0.359	1	10/02/2026 12:14	WG2843887
2,4-Dichlorophenol	U		0.0473	0.359	1	10/02/2026 12:14	WG2843887
2,4-Dimethylphenol	U	C3	0.192	0.359	1	10/02/2026 12:14	WG2843887
4,6-Dinitro-2-methylphenol	U		0.110	0.359	1	10/02/2026 12:14	WG2843887
2,4-Dinitrophenol	U		0.137	0.359	1	10/02/2026 12:14	WG2843887
2-Nitrophenol	U		0.0533	0.359	1	10/02/2026 12:14	WG2843887
4-Nitrophenol	U		0.114	0.359	1	10/02/2026 12:14	WG2843887
Pentachlorophenol	U	C3	0.135	0.359	1	10/02/2026 12:14	WG2843887
Phenol	U		0.0611	0.359	1	10/02/2026 12:14	WG2843887
2,4,6-Trichlorophenol	U		0.0858	0.359	1	10/02/2026 12:14	WG2843887
(S) 2-Fluorophenol	*63.2*			*12.0-120*		*10/02/2026 12:14*	WG2843887
(S) Phenol-d5	*57.6*			*10.0-120*		*10/02/2026 12:14*	WG2843887
(S) Nitrobenzene-d5	*59.3*			*10.0-122*		*10/02/2026 12:14*	WG2843887
(S) 2-Fluorobiphenyl	*58.4*			*15.0-120*		*10/02/2026 12:14*	WG2843887
(S) 2,4,6-Tribromophenol	*44.1*			*10.0-127*		*10/02/2026 12:14*	WG2843887
(S) p-Terphenyl-d14	*64.1*			*10.0-120*		*10/02/2026 12:14*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0219	0.0425	1	10/01/2026 20:36	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.734	2.13	1	09/30/2026 15:14	WG2843802
Arsenic	7.58		0.889	2.13	1	09/30/2026 15:14	WG2843802
Beryllium	0.783		0.0507	0.213	1	09/30/2026 15:14	WG2843802
Cadmium	0.210	J	0.0694	0.531	1	09/30/2026 15:14	WG2843802
Chromium	22.2		0.227	1.06	1	09/30/2026 15:14	WG2843802
Copper	46.9		0.379	2.13	1	09/30/2026 15:14	WG2843802
Lead	20.0		0.346	0.531	1	09/30/2026 15:14	WG2843802
Nickel	45.5		0.213	2.13	1	09/30/2026 15:14	WG2843802
Selenium	1.15	J	1.14	2.13	1	09/30/2026 15:14	WG2843802
Silver	U		0.135	1.06	1	09/30/2026 15:14	WG2843802
Thallium	U		0.550	2.13	1	09/30/2026 15:14	WG2843802
Zinc	123		1.04	5.31	1	09/30/2026 15:14	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0784	0.113	1	09/30/2026 01:09	WG2843707
Acrylonitrile	U		0.00904	0.0141	1	09/30/2026 01:09	WG2843707
Benzene	U		0.000800	0.00113	1	09/30/2026 01:09	WG2843707
Bromobenzene	U		0.00439	0.0141	1	09/30/2026 01:09	WG2843707
Bromodichloromethane	U		0.00132	0.00281	1	09/30/2026 01:09	WG2843707
Bromoform	U		0.0112	0.0281	1	09/30/2026 01:09	WG2843707
Bromomethane	U		0.0114	0.0141	1	09/30/2026 01:09	WG2843707
n-Butylbenzene	U		0.00703	0.0141	1	09/30/2026 01:09	WG2843707
sec-Butylbenzene	U		0.00431	0.0141	1	09/30/2026 01:09	WG2843707
tert-Butylbenzene	U		0.00213	0.00563	1	09/30/2026 01:09	WG2843707
Carbon tetrachloride	U		0.00339	0.00563	1	09/30/2026 01:09	WG2843707
Chlorobenzene	U		0.000966	0.00281	1	09/30/2026 01:09	WG2843707
Chlorodibromomethane	U		0.00181	0.00281	1	09/30/2026 01:09	WG2843707
Chloroethane	U		0.00640	0.0113	1	09/30/2026 01:09	WG2843707
Chloroform	U		0.00182	0.00281	1	09/30/2026 01:09	WG2843707
Chloromethane	U		0.00957	0.0141	1	09/30/2026 01:09	WG2843707
2-Chlorotoluene	U		0.00145	0.00281	1	09/30/2026 01:09	WG2843707
4-Chlorotoluene	U		0.00173	0.00563	1	09/30/2026 01:09	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0120	0.0281	1	09/30/2026 01:09	WG2843707
1,2-Dibromoethane	U		0.00142	0.00281	1	09/30/2026 01:09	WG2843707
Dibromomethane	U		0.00200	0.00563	1	09/30/2026 01:09	WG2843707
1,2-Dichlorobenzene	U		0.00176	0.00563	1	09/30/2026 01:09	WG2843707
1,3-Dichlorobenzene	U		0.00186	0.00563	1	09/30/2026 01:09	WG2843707
1,4-Dichlorobenzene	U		0.00197	0.00563	1	09/30/2026 01:09	WG2843707
Dichlorodifluoromethane	U		0.00490	0.00563	1	09/30/2026 01:09	WG2843707
1,1-Dichloroethane	U		0.00114	0.00281	1	09/30/2026 01:09	WG2843707
1,2-Dichloroethane	U		0.00164	0.00281	1	09/30/2026 01:09	WG2843707
1,1-Dichloroethene	U		0.00172	0.00281	1	09/30/2026 01:09	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00145	0.00281	1	09/30/2026 01:09	WG2843707
trans-1,2-Dichloroethene	U		0.00117	0.00563	1	09/30/2026 01:09	WG2843707
1,2-Dichloropropane	U		0.00216	0.00563	1	09/30/2026 01:09	WG2843707
1,1-Dichloropropene	U		0.00155	0.00563	1	09/30/2026 01:09	WG2843707
1,3-Dichloropropane	U		0.00182	0.00563	1	09/30/2026 01:09	WG2843707
cis-1,3-Dichloropropene	U		0.00118	0.00281	1	09/30/2026 01:09	WG2843707
trans-1,3-Dichloropropene	U		0.00118	0.00563	1	09/30/2026 01:09	WG2843707
2,2-Dichloropropane	U		0.00227	0.00281	1	09/30/2026 01:09	WG2843707
Di-isopropyl ether	U		0.000865	0.00113	1	09/30/2026 01:09	WG2843707
Ethylbenzene	0.00144	J	0.00111	0.00281	1	09/30/2026 01:09	WG2843707
Hexachloro-1,3-butadiene	U		0.0117	0.0281	1	09/30/2026 01:09	WG2843707
Isopropylbenzene	0.00141	J	0.00114	0.00281	1	09/30/2026 01:09	WG2843707
p-Isopropyltoluene	U		0.00240	0.00563	1	09/30/2026 01:09	WG2843707
2-Butanone (MEK)	U		0.0998	0.113	1	09/30/2026 01:09	WG2843707
Methylene Chloride	U		0.0124	0.0281	1	09/30/2026 01:09	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/30/2026 01:09	WG2843707
Methyl tert-butyl ether	U		0.000870	0.00113	1	09/30/2026 01:09	WG2843707
Naphthalene	0.0107	J	0.00859	0.0141	1	09/30/2026 01:09	WG2843707
n-Propylbenzene	0.00416	J	0.00190	0.00563	1	09/30/2026 01:09	WG2843707
Styrene	U		0.00501	0.0141	1	09/30/2026 01:09	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00146	0.00281	1	09/30/2026 01:09	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00131	0.00281	1	09/30/2026 01:09	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00316	0.00563	1	09/30/2026 01:09	WG2843707
Tetrachloroethene	U		0.00171	0.00281	1	09/30/2026 01:09	WG2843707
Toluene	U		0.00325	0.00563	1	09/30/2026 01:09	WG2843707
1,2,3-Trichlorobenzene	U		0.00787	0.0141	1	09/30/2026 01:09	WG2843707
1,2,4-Trichlorobenzene	U		0.00610	0.0141	1	09/30/2026 01:09	WG2843707
1,1,1-Trichloroethane	U		0.00163	0.00281	1	09/30/2026 01:09	WG2843707
1,1,2-Trichloroethane	U		0.00151	0.00281	1	09/30/2026 01:09	WG2843707
Trichloroethene	U		0.00100	0.00113	1	09/30/2026 01:09	WG2843707
Trichlorofluoromethane	U		0.00294	0.00450	1	09/30/2026 01:09	WG2843707
1,2,3-Trichloropropane	U		0.00689	0.0141	1	09/30/2026 01:09	WG2843707
1,2,4-Trimethylbenzene	U		0.00268	0.00563	1	09/30/2026 01:09	WG2843707
1,2,3-Trimethylbenzene	0.00371	J	0.00205	0.00563	1	09/30/2026 01:09	WG2843707
1,3,5-Trimethylbenzene	0.00380	J	0.00257	0.00563	1	09/30/2026 01:09	WG2843707
Vinyl chloride	U		0.00226	0.00281	1	09/30/2026 01:09	WG2843707
Xylenes, Total	0.00600	J	0.00315	0.00731	1	09/30/2026 01:09	WG2843707
(S) Toluene-d8	*95.9*			*75.0-131*		*09/30/2026 01:09*	WG2843707
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*09/30/2026 01:09*	WG2843707
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/30/2026 01:09*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0106	0.0213	1	09/30/2026 18:42	WG2843849
Dalapon	U		0.00775	0.0213	1	09/30/2026 18:42	WG2843849
2,4-DB	U		0.00853	0.0213	1	09/30/2026 18:42	WG2843849
Dicamba	U		0.0104	0.0213	1	09/30/2026 18:42	WG2843849
Dichloroprop	U		0.00594	0.0213	1	09/30/2026 18:42	WG2843849
Dinoseb	U		0.00529	0.0213	1	09/30/2026 18:42	WG2843849
MCPA	U		0.00995	0.0213	1	09/30/2026 18:42	WG2843849
MCPP	U		0.00554	0.0213	1	09/30/2026 18:42	WG2843849
2,4,5-T	U		0.00965	0.0213	1	09/30/2026 18:42	WG2843849
2,4,5-TP (Silvex)	U		0.00586	0.0213	1	09/30/2026 18:42	WG2843849
(S) 2,4-DB-D3	*99.0*			*70.0-130*		*09/30/2026 18:42*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00685	0.0213	1	10/01/2026 17:46	WG2843884
Alpha BHC	U		0.00677	0.0213	1	10/01/2026 17:46	WG2843884
Beta BHC	U		0.00669	0.0213	1	10/01/2026 17:46	WG2843884
Delta BHC	U		0.00675	0.0213	1	10/01/2026 17:46	WG2843884
Gamma BHC	U		0.00718	0.0213	1	10/01/2026 17:46	WG2843884
Chlordane	U		0.105	0.319	1	10/01/2026 17:46	WG2843884
4,4-DDD	U		0.00733	0.0213	1	10/01/2026 17:46	WG2843884
4,4-DDE	U		0.00715	0.0213	1	10/01/2026 17:46	WG2843884
4,4-DDT	U		0.00814	0.0213	1	10/01/2026 17:46	WG2843884
Dieldrin	U		0.00741	0.0213	1	10/01/2026 17:46	WG2843884
Endosulfan I	U		0.00642	0.0213	1	10/01/2026 17:46	WG2843884
Endosulfan II	U		0.00702	0.0213	1	10/01/2026 17:46	WG2843884
Endosulfan sulfate	U		0.00682	0.0213	1	10/01/2026 17:46	WG2843884
Endrin	U		0.00793	0.0213	1	10/01/2026 17:46	WG2843884
Endrin aldehyde	U		0.00627	0.0213	1	10/01/2026 17:46	WG2843884
Endrin ketone	U		0.00739	0.0213	1	10/01/2026 17:46	WG2843884
Heptachlor	U		0.00736	0.0213	1	10/01/2026 17:46	WG2843884
Heptachlor epoxide	U		0.00691	0.0213	1	10/01/2026 17:46	WG2843884
Hexachlorobenzene	U		0.00646	0.0213	1	10/01/2026 17:46	WG2843884
Methoxychlor	U		0.00856	0.0213	1	10/01/2026 17:46	WG2843884
Toxaphene	U		0.227	0.425	1	10/01/2026 17:46	WG2843884
(S) Decachlorobiphenyl	*74.4*			*10.0-135*		*10/01/2026 17:46*	WG2843884
(S) Tetrachloro-m-xylene	*70.8*			*10.0-139*		*10/01/2026 17:46*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0108	0.0361	1	10/01/2026 17:46	WG2843884
PCB 1221	U		0.0114	0.0361	1	10/01/2026 17:46	WG2843884
PCB 1232	U		0.00953	0.0361	1	10/01/2026 17:46	WG2843884
PCB 1242	U		0.0107	0.0361	1	10/01/2026 17:46	WG2843884
PCB 1248	U		0.0132	0.0181	1	10/01/2026 17:46	WG2843884
PCB 1254	U		0.0111	0.0181	1	10/01/2026 17:46	WG2843884
PCB 1260	U		0.0117	0.0181	1	10/01/2026 17:46	WG2843884
(S) Decachlorobiphenyl	*75.5*			*10.0-135*		*10/01/2026 17:46*	WG2843884
(S) Tetrachloro-m-xylene	*75.2*			*10.0-139*		*10/01/2026 17:46*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00573	0.0354	1	10/02/2026 15:31	WG2843887
Acenaphthylene	U		0.00603	0.0354	1	10/02/2026 15:31	WG2843887
Anthracene	U		0.00435	0.0354	1	10/02/2026 15:31	WG2843887
Benzidine	U	C3 J4	1.06	1.77	1	10/02/2026 15:31	WG2843887
Benzo(a)anthracene	U		0.00404	0.0354	1	10/02/2026 15:31	WG2843887
Benzo(b)fluoranthene	U		0.00576	0.0354	1	10/02/2026 15:31	WG2843887
Benzo(k)fluoranthene	U		0.00514	0.0354	1	10/02/2026 15:31	WG2843887
Benzo(g,h,i)perylene	U		0.00684	0.0354	1	10/02/2026 15:31	WG2843887
Benzo(a)pyrene	U		0.00710	0.0354	1	10/02/2026 15:31	WG2843887
Bis(2-chlorethoxy)methane	U		0.0384	0.354	1	10/02/2026 15:31	WG2843887
Bis(2-chloroethyl)ether	U		0.0668	0.354	1	10/02/2026 15:31	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0759	0.354	1	10/02/2026 15:31	WG2843887
4-Bromophenyl-phenylether	U		0.0505	0.354	1	10/02/2026 15:31	WG2843887
2-Chloronaphthalene	U		0.00527	0.0354	1	10/02/2026 15:31	WG2843887
4-Chlorophenyl-phenylether	U		0.0505	0.354	1	10/02/2026 15:31	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	0.00805	J	0.00368	0.0354	1	10/02/2026 15:31	WG2843887
Dibenz(a,h)anthracene	U		0.00625	0.0354	1	10/02/2026 15:31	WG2843887
1,2-Dichlorobenzene	U		0.0304	0.354	1	10/02/2026 15:31	WG2843887
1,3-Dichlorobenzene	U		0.0308	0.354	1	10/02/2026 15:31	WG2843887
1,4-Dichlorobenzene	U		0.0304	0.354	1	10/02/2026 15:31	WG2843887
3,3-Dichlorobenzidine	U		0.135	0.354	1	10/02/2026 15:31	WG2843887
2,4-Dinitrotoluene	U		0.0701	0.354	1	10/02/2026 15:31	WG2843887
2,6-Dinitrotoluene	U		0.0667	0.354	1	10/02/2026 15:31	WG2843887
Fluoranthene	U		0.00456	0.0354	1	10/02/2026 15:31	WG2843887
Fluorene	0.00650	J	0.00528	0.0354	1	10/02/2026 15:31	WG2843887
Hexachlorobenzene	U		0.0578	0.354	1	10/02/2026 15:31	WG2843887
Hexachloro-1,3-butadiene	U		0.0561	0.354	1	10/02/2026 15:31	WG2843887
Hexachlorocyclopentadiene	U		0.108	0.354	1	10/02/2026 15:31	WG2843887
Hexachloroethane	U		0.0436	0.354	1	10/02/2026 15:31	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00711	0.0354	1	10/02/2026 15:31	WG2843887
Isophorone	U		0.0445	0.354	1	10/02/2026 15:31	WG2843887
Naphthalene	U		0.0124	0.0354	1	10/02/2026 15:31	WG2843887
Nitrobenzene	U		0.0478	0.354	1	10/02/2026 15:31	WG2843887
n-Nitrosodimethylamine	U		0.0831	0.354	1	10/02/2026 15:31	WG2843887
n-Nitrosodiphenylamine	U		0.0454	0.354	1	10/02/2026 15:31	WG2843887
n-Nitrosodi-n-propylamine	U		0.0561	0.354	1	10/02/2026 15:31	WG2843887
Phenanthrene	0.0159	J	0.00389	0.0354	1	10/02/2026 15:31	WG2843887
Benzylbutyl phthalate	U		0.0685	0.354	1	10/02/2026 15:31	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0698	0.354	1	10/02/2026 15:31	WG2843887
Di-n-butyl phthalate	U		0.0476	0.354	1	10/02/2026 15:31	WG2843887
Diethyl phthalate	U		0.0548	0.354	1	10/02/2026 15:31	WG2843887
Dimethyl phthalate	U		0.0475	0.354	1	10/02/2026 15:31	WG2843887
Di-n-octyl phthalate	U		0.156	0.354	1	10/02/2026 15:31	WG2843887
Pyrene	U		0.00396	0.0354	1	10/02/2026 15:31	WG2843887
1,2,4-Trichlorobenzene	U		0.0420	0.354	1	10/02/2026 15:31	WG2843887
4-Chloro-3-methylphenol	U		0.0553	0.354	1	10/02/2026 15:31	WG2843887
2-Chlorophenol	U		0.0368	0.354	1	10/02/2026 15:31	WG2843887
2,4-Dichlorophenol	U		0.0467	0.354	1	10/02/2026 15:31	WG2843887
2,4-Dimethylphenol	U	C3	0.189	0.354	1	10/02/2026 15:31	WG2843887
4,6-Dinitro-2-methylphenol	U		0.108	0.354	1	10/02/2026 15:31	WG2843887
2,4-Dinitrophenol	U		0.135	0.354	1	10/02/2026 15:31	WG2843887
2-Nitrophenol	U		0.0525	0.354	1	10/02/2026 15:31	WG2843887
4-Nitrophenol	U		0.113	0.354	1	10/02/2026 15:31	WG2843887
Pentachlorophenol	U	C3	0.133	0.354	1	10/02/2026 15:31	WG2843887
Phenol	U		0.0603	0.354	1	10/02/2026 15:31	WG2843887
2,4,6-Trichlorophenol	U		0.0846	0.354	1	10/02/2026 15:31	WG2843887
(S) 2-Fluorophenol	*68.3*			*12.0-120*		*10/02/2026 15:31*	WG2843887
(S) Phenol-d5	*63.0*			*10.0-120*		*10/02/2026 15:31*	WG2843887
(S) Nitrobenzene-d5	*65.9*			*10.0-122*		*10/02/2026 15:31*	WG2843887
(S) 2-Fluorobiphenyl	*62.2*			*15.0-120*		*10/02/2026 15:31*	WG2843887
(S) 2,4,6-Tribromophenol	*59.2*			*10.0-127*		*10/02/2026 15:31*	WG2843887
(S) p-Terphenyl-d14	*67.7*			*10.0-120*		*10/02/2026 15:31*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0219	0.0425	1	10/01/2026 20:44	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.735	2.13	1	09/30/2026 15:16	WG2843802
Arsenic	7.42		0.890	2.13	1	09/30/2026 15:16	WG2843802
Beryllium	1.03		0.0507	0.213	1	09/30/2026 15:16	WG2843802
Cadmium	0.225	J	0.0695	0.532	1	09/30/2026 15:16	WG2843802
Chromium	22.2		0.228	1.06	1	09/30/2026 15:16	WG2843802
Copper	48.2		0.380	2.13	1	09/30/2026 15:16	WG2843802
Lead	21.8		0.347	0.532	1	09/30/2026 15:16	WG2843802
Nickel	39.2		0.213	2.13	1	09/30/2026 15:16	WG2843802
Selenium	1.74	J	1.14	2.13	1	09/30/2026 15:16	WG2843802
Silver	U		0.135	1.06	1	09/30/2026 15:16	WG2843802
Thallium	U		0.551	2.13	1	09/30/2026 15:16	WG2843802
Zinc	127		1.04	5.32	1	09/30/2026 15:16	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0788	0.113	1	09/30/2026 01:28	WG2843707
Acrylonitrile	U		0.00908	0.0141	1	09/30/2026 01:28	WG2843707
Benzene	U		0.000804	0.00113	1	09/30/2026 01:28	WG2843707
Bromobenzene	U		0.00441	0.0141	1	09/30/2026 01:28	WG2843707
Bromodichloromethane	U		0.00132	0.00283	1	09/30/2026 01:28	WG2843707
Bromoform	U		0.0112	0.0283	1	09/30/2026 01:28	WG2843707
Bromomethane	U		0.0114	0.0141	1	09/30/2026 01:28	WG2843707
n-Butylbenzene	U		0.00707	0.0141	1	09/30/2026 01:28	WG2843707
sec-Butylbenzene	U		0.00433	0.0141	1	09/30/2026 01:28	WG2843707
tert-Butylbenzene	U		0.00214	0.00565	1	09/30/2026 01:28	WG2843707
Carbon tetrachloride	U		0.00340	0.00565	1	09/30/2026 01:28	WG2843707
Chlorobenzene	U		0.000970	0.00283	1	09/30/2026 01:28	WG2843707
Chlorodibromomethane	U		0.00182	0.00283	1	09/30/2026 01:28	WG2843707
Chloroethane	U		0.00643	0.0113	1	09/30/2026 01:28	WG2843707
Chloroform	U		0.00183	0.00283	1	09/30/2026 01:28	WG2843707
Chloromethane	U		0.00961	0.0141	1	09/30/2026 01:28	WG2843707
2-Chlorotoluene	U		0.00146	0.00283	1	09/30/2026 01:28	WG2843707
4-Chlorotoluene	U		0.00174	0.00565	1	09/30/2026 01:28	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0121	0.0283	1	09/30/2026 01:28	WG2843707
1,2-Dibromoethane	U		0.00142	0.00283	1	09/30/2026 01:28	WG2843707
Dibromomethane	U		0.00201	0.00565	1	09/30/2026 01:28	WG2843707
1,2-Dichlorobenzene	U		0.00176	0.00565	1	09/30/2026 01:28	WG2843707
1,3-Dichlorobenzene	U		0.00187	0.00565	1	09/30/2026 01:28	WG2843707
1,4-Dichlorobenzene	U		0.00198	0.00565	1	09/30/2026 01:28	WG2843707
Dichlorodifluoromethane	U		0.00492	0.00565	1	09/30/2026 01:28	WG2843707
1,1-Dichloroethane	U		0.00114	0.00283	1	09/30/2026 01:28	WG2843707
1,2-Dichloroethane	U		0.00165	0.00283	1	09/30/2026 01:28	WG2843707
1,1-Dichloroethene	U		0.00173	0.00283	1	09/30/2026 01:28	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00146	0.00283	1	09/30/2026 01:28	WG2843707
trans-1,2-Dichloroethene	U		0.00118	0.00565	1	09/30/2026 01:28	WG2843707
1,2-Dichloropropane	U		0.00217	0.00565	1	09/30/2026 01:28	WG2843707
1,1-Dichloropropene	U		0.00156	0.00565	1	09/30/2026 01:28	WG2843707
1,3-Dichloropropane	U		0.00183	0.00565	1	09/30/2026 01:28	WG2843707
cis-1,3-Dichloropropene	U		0.00119	0.00283	1	09/30/2026 01:28	WG2843707
trans-1,3-Dichloropropene	U		0.00119	0.00565	1	09/30/2026 01:28	WG2843707
2,2-Dichloropropane	U		0.00228	0.00283	1	09/30/2026 01:28	WG2843707
Di-isopropyl ether	U		0.000869	0.00113	1	09/30/2026 01:28	WG2843707
Ethylbenzene	0.0158		0.00112	0.00283	1	09/30/2026 01:28	WG2843707
Hexachloro-1,3-butadiene	U		0.0118	0.0283	1	09/30/2026 01:28	WG2843707
Isopropylbenzene	0.00274	J	0.00114	0.00283	1	09/30/2026 01:28	WG2843707
p-Isopropyltoluene	U		0.00241	0.00565	1	09/30/2026 01:28	WG2843707
2-Butanone (MEK)	U		0.100	0.113	1	09/30/2026 01:28	WG2843707
Methylene Chloride	U		0.0124	0.0283	1	09/30/2026 01:28	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0283	1	09/30/2026 01:28	WG2843707
Methyl tert-butyl ether	U		0.000874	0.00113	1	09/30/2026 01:28	WG2843707
Naphthalene	0.0228		0.00863	0.0141	1	09/30/2026 01:28	WG2843707
n-Propylbenzene	0.00800		0.00191	0.00565	1	09/30/2026 01:28	WG2843707
Styrene	U		0.00503	0.0141	1	09/30/2026 01:28	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00147	0.00283	1	09/30/2026 01:28	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00131	0.00283	1	09/30/2026 01:28	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00318	0.00565	1	09/30/2026 01:28	WG2843707
Tetrachloroethene	U		0.00172	0.00283	1	09/30/2026 01:28	WG2843707
Toluene	0.00986		0.00327	0.00565	1	09/30/2026 01:28	WG2843707
1,2,3-Trichlorobenzene	U		0.00790	0.0141	1	09/30/2026 01:28	WG2843707
1,2,4-Trichlorobenzene	U		0.00613	0.0141	1	09/30/2026 01:28	WG2843707
1,1,1-Trichloroethane	U		0.00164	0.00283	1	09/30/2026 01:28	WG2843707
1,1,2-Trichloroethane	U		0.00151	0.00283	1	09/30/2026 01:28	WG2843707
Trichloroethene	U		0.00101	0.00113	1	09/30/2026 01:28	WG2843707
Trichlorofluoromethane	U		0.00295	0.00452	1	09/30/2026 01:28	WG2843707
1,2,3-Trichloropropane	U		0.00692	0.0141	1	09/30/2026 01:28	WG2843707
1,2,4-Trimethylbenzene	0.0223		0.00269	0.00565	1	09/30/2026 01:28	WG2843707
1,2,3-Trimethylbenzene	0.00631		0.00206	0.00565	1	09/30/2026 01:28	WG2843707
1,3,5-Trimethylbenzene	0.00836		0.00258	0.00565	1	09/30/2026 01:28	WG2843707
Vinyl chloride	U		0.00227	0.00283	1	09/30/2026 01:28	WG2843707
Xylenes, Total	0.120		0.00317	0.00735	1	09/30/2026 01:28	WG2843707
(S) Toluene-d8	*95.3*			*75.0-131*		*09/30/2026 01:28*	WG2843707
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*09/30/2026 01:28*	WG2843707
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/30/2026 01:28*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0106	0.0213	1	09/30/2026 18:55	WG2843849
Dalapon	U		0.00775	0.0213	1	09/30/2026 18:55	WG2843849
2,4-DB	U		0.00854	0.0213	1	09/30/2026 18:55	WG2843849
Dicamba	U		0.0104	0.0213	1	09/30/2026 18:55	WG2843849
Dichloroprop	U		0.00595	0.0213	1	09/30/2026 18:55	WG2843849
Dinoseb	U		0.00530	0.0213	1	09/30/2026 18:55	WG2843849
MCPA	U		0.00996	0.0213	1	09/30/2026 18:55	WG2843849
MCPP	U		0.00554	0.0213	1	09/30/2026 18:55	WG2843849
2,4,5-T	U		0.00966	0.0213	1	09/30/2026 18:55	WG2843849
2,4,5-TP (Silvex)	U		0.00586	0.0213	1	09/30/2026 18:55	WG2843849
(S) 2,4-DB-D3	*91.5*			*70.0-130*		*09/30/2026 18:55*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00686	0.0213	1	10/01/2026 17:57	WG2843884
Alpha BHC	U		0.00678	0.0213	1	10/01/2026 17:57	WG2843884
Beta BHC	U		0.00670	0.0213	1	10/01/2026 17:57	WG2843884
Delta BHC	U		0.00675	0.0213	1	10/01/2026 17:57	WG2843884
Gamma BHC	U		0.00719	0.0213	1	10/01/2026 17:57	WG2843884
Chlordane	U		0.105	0.319	1	10/01/2026 17:57	WG2843884
4,4-DDD	U		0.00734	0.0213	1	10/01/2026 17:57	WG2843884
4,4-DDE	U		0.00716	0.0213	1	10/01/2026 17:57	WG2843884
4,4-DDT	U		0.00815	0.0213	1	10/01/2026 17:57	WG2843884
Dieldrin	U		0.00741	0.0213	1	10/01/2026 17:57	WG2843884
Endosulfan I	U		0.00642	0.0213	1	10/01/2026 17:57	WG2843884
Endosulfan II	U		0.00703	0.0213	1	10/01/2026 17:57	WG2843884
Endosulfan sulfate	U		0.00683	0.0213	1	10/01/2026 17:57	WG2843884
Endrin	U		0.00793	0.0213	1	10/01/2026 17:57	WG2843884
Endrin aldehyde	U		0.00628	0.0213	1	10/01/2026 17:57	WG2843884
Endrin ketone	U		0.00739	0.0213	1	10/01/2026 17:57	WG2843884
Heptachlor	U		0.00737	0.0213	1	10/01/2026 17:57	WG2843884
Heptachlor epoxide	U		0.00691	0.0213	1	10/01/2026 17:57	WG2843884
Hexachlorobenzene	U		0.00647	0.0213	1	10/01/2026 17:57	WG2843884
Methoxychlor	U		0.00857	0.0213	1	10/01/2026 17:57	WG2843884
Toxaphene	U		0.228	0.425	1	10/01/2026 17:57	WG2843884
(S) Decachlorobiphenyl	*84.4*			*10.0-135*		*10/01/2026 17:57*	WG2843884
(S) Tetrachloro-m-xylene	*78.5*			*10.0-139*		*10/01/2026 17:57*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0108	0.0362	1	10/01/2026 17:57	WG2843884
PCB 1221	U		0.0114	0.0362	1	10/01/2026 17:57	WG2843884
PCB 1232	U		0.00954	0.0362	1	10/01/2026 17:57	WG2843884
PCB 1242	U		0.0107	0.0362	1	10/01/2026 17:57	WG2843884
PCB 1248	U		0.0132	0.0181	1	10/01/2026 17:57	WG2843884
PCB 1254	U		0.0111	0.0181	1	10/01/2026 17:57	WG2843884
PCB 1260	U		0.0117	0.0181	1	10/01/2026 17:57	WG2843884
(S) Decachlorobiphenyl	*85.4*			*10.0-135*		*10/01/2026 17:57*	WG2843884
(S) Tetrachloro-m-xylene	*84.3*			*10.0-139*		*10/01/2026 17:57*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00573	0.0354	1	10/02/2026 14:47	WG2843887
Acenaphthylene	U		0.00603	0.0354	1	10/02/2026 14:47	WG2843887
Anthracene	U		0.00435	0.0354	1	10/02/2026 14:47	WG2843887
Benzidine	U	C3 J4	1.06	1.78	1	10/02/2026 14:47	WG2843887
Benzo(a)anthracene	U		0.00404	0.0354	1	10/02/2026 14:47	WG2843887
Benzo(b)fluoranthene	U		0.00576	0.0354	1	10/02/2026 14:47	WG2843887
Benzo(k)fluoranthene	U		0.00515	0.0354	1	10/02/2026 14:47	WG2843887
Benzo(g,h,i)perylene	U		0.00685	0.0354	1	10/02/2026 14:47	WG2843887
Benzo(a)pyrene	U		0.00711	0.0354	1	10/02/2026 14:47	WG2843887
Bis(2-chlorethoxy)methane	U		0.0384	0.354	1	10/02/2026 14:47	WG2843887
Bis(2-chloroethyl)ether	U		0.0669	0.354	1	10/02/2026 14:47	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0759	0.354	1	10/02/2026 14:47	WG2843887
4-Bromophenyl-phenylether	U		0.0505	0.354	1	10/02/2026 14:47	WG2843887
2-Chloronaphthalene	U		0.00528	0.0354	1	10/02/2026 14:47	WG2843887
4-Chlorophenyl-phenylether	U		0.0505	0.354	1	10/02/2026 14:47	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00368	0.0354	1	10/02/2026 14:47	WG2843887
Dibenz(a,h)anthracene	U		0.00625	0.0354	1	10/02/2026 14:47	WG2843887
1,2-Dichlorobenzene	U		0.0304	0.354	1	10/02/2026 14:47	WG2843887
1,3-Dichlorobenzene	U		0.0308	0.354	1	10/02/2026 14:47	WG2843887
1,4-Dichlorobenzene	U		0.0304	0.354	1	10/02/2026 14:47	WG2843887
3,3-Dichlorobenzidine	U		0.135	0.354	1	10/02/2026 14:47	WG2843887
2,4-Dinitrotoluene	U		0.0702	0.354	1	10/02/2026 14:47	WG2843887
2,6-Dinitrotoluene	U		0.0668	0.354	1	10/02/2026 14:47	WG2843887
Fluoranthene	U		0.00456	0.0354	1	10/02/2026 14:47	WG2843887
Fluorene	0.00753	J	0.00529	0.0354	1	10/02/2026 14:47	WG2843887
Hexachlorobenzene	U		0.0579	0.354	1	10/02/2026 14:47	WG2843887
Hexachloro-1,3-butadiene	U		0.0562	0.354	1	10/02/2026 14:47	WG2843887
Hexachlorocyclopentadiene	U		0.108	0.354	1	10/02/2026 14:47	WG2843887
Hexachloroethane	U		0.0436	0.354	1	10/02/2026 14:47	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00712	0.0354	1	10/02/2026 14:47	WG2843887
Isophorone	U		0.0446	0.354	1	10/02/2026 14:47	WG2843887
Naphthalene	U		0.0124	0.0354	1	10/02/2026 14:47	WG2843887
Nitrobenzene	U		0.0479	0.354	1	10/02/2026 14:47	WG2843887
n-Nitrosodimethylamine	U		0.0832	0.354	1	10/02/2026 14:47	WG2843887
n-Nitrosodiphenylamine	U		0.0454	0.354	1	10/02/2026 14:47	WG2843887
n-Nitrosodi-n-propylamine	U		0.0562	0.354	1	10/02/2026 14:47	WG2843887
Phenanthrene	0.0133	J	0.00389	0.0354	1	10/02/2026 14:47	WG2843887
Benzylbutyl phthalate	U		0.0686	0.354	1	10/02/2026 14:47	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0699	0.354	1	10/02/2026 14:47	WG2843887
Di-n-butyl phthalate	U		0.0477	0.354	1	10/02/2026 14:47	WG2843887
Diethyl phthalate	U		0.0549	0.354	1	10/02/2026 14:47	WG2843887
Dimethyl phthalate	U		0.0475	0.354	1	10/02/2026 14:47	WG2843887
Di-n-octyl phthalate	U		0.156	0.354	1	10/02/2026 14:47	WG2843887
Pyrene	U		0.00397	0.0354	1	10/02/2026 14:47	WG2843887
1,2,4-Trichlorobenzene	U		0.0420	0.354	1	10/02/2026 14:47	WG2843887
4-Chloro-3-methylphenol	U		0.0553	0.354	1	10/02/2026 14:47	WG2843887
2-Chlorophenol	U		0.0368	0.354	1	10/02/2026 14:47	WG2843887
2,4-Dichlorophenol	U		0.0467	0.354	1	10/02/2026 14:47	WG2843887
2,4-Dimethylphenol	U	C3	0.189	0.354	1	10/02/2026 14:47	WG2843887
4,6-Dinitro-2-methylphenol	U		0.108	0.354	1	10/02/2026 14:47	WG2843887
2,4-Dinitrophenol	U		0.135	0.354	1	10/02/2026 14:47	WG2843887
2-Nitrophenol	U		0.0525	0.354	1	10/02/2026 14:47	WG2843887
4-Nitrophenol	U		0.113	0.354	1	10/02/2026 14:47	WG2843887
Pentachlorophenol	U	C3	0.133	0.354	1	10/02/2026 14:47	WG2843887
Phenol	U		0.0603	0.354	1	10/02/2026 14:47	WG2843887
2,4,6-Trichlorophenol	U		0.0847	0.354	1	10/02/2026 14:47	WG2843887
(S) 2-Fluorophenol	*74.1*			*12.0-120*		*10/02/2026 14:47*	WG2843887
(S) Phenol-d5	*66.3*			*10.0-120*		*10/02/2026 14:47*	WG2843887
(S) Nitrobenzene-d5	*68.3*			*10.0-122*		*10/02/2026 14:47*	WG2843887
(S) 2-Fluorobiphenyl	*65.8*			*15.0-120*		*10/02/2026 14:47*	WG2843887
(S) 2,4,6-Tribromophenol	*64.6*			*10.0-127*		*10/02/2026 14:47*	WG2843887
(S) p-Terphenyl-d14	*74.8*			*10.0-120*		*10/02/2026 14:47*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0225	0.0437	1	10/01/2026 20:47	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.755	2.19	1	09/30/2026 15:18	WG2843802
Arsenic	6.59		0.915	2.19	1	09/30/2026 15:18	WG2843802
Beryllium	0.982		0.0521	0.219	1	09/30/2026 15:18	WG2843802
Cadmium	0.152	J	0.0714	0.546	1	09/30/2026 15:18	WG2843802
Chromium	21.6		0.234	1.09	1	09/30/2026 15:18	WG2843802
Copper	42.3		0.390	2.19	1	09/30/2026 15:18	WG2843802
Lead	19.1		0.356	0.546	1	09/30/2026 15:18	WG2843802
Nickel	29.7		0.219	2.19	1	09/30/2026 15:18	WG2843802
Selenium	U		1.17	2.19	1	09/30/2026 15:18	WG2843802
Silver	U		0.139	1.09	1	09/30/2026 15:18	WG2843802
Thallium	U		0.566	2.19	1	09/30/2026 15:18	WG2843802
Zinc	98.7		1.06	5.46	1	09/30/2026 15:18	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0828	0.119	1	09/30/2026 01:48	WG2843707
Acrylonitrile	U		0.00954	0.0149	1	09/30/2026 01:48	WG2843707
Benzene	U		0.000845	0.00119	1	09/30/2026 01:48	WG2843707
Bromobenzene	U		0.00463	0.0149	1	09/30/2026 01:48	WG2843707
Bromodichloromethane	U		0.00139	0.00297	1	09/30/2026 01:48	WG2843707
Bromoform	U		0.0118	0.0297	1	09/30/2026 01:48	WG2843707
Bromomethane	U		0.0120	0.0149	1	09/30/2026 01:48	WG2843707
n-Butylbenzene	U		0.00743	0.0149	1	09/30/2026 01:48	WG2843707
sec-Butylbenzene	U		0.00455	0.0149	1	09/30/2026 01:48	WG2843707
tert-Butylbenzene	U		0.00225	0.00594	1	09/30/2026 01:48	WG2843707
Carbon tetrachloride	U		0.00358	0.00594	1	09/30/2026 01:48	WG2843707
Chlorobenzene	U		0.00102	0.00297	1	09/30/2026 01:48	WG2843707
Chlorodibromomethane	U		0.00191	0.00297	1	09/30/2026 01:48	WG2843707
Chloroethane	U		0.00676	0.0119	1	09/30/2026 01:48	WG2843707
Chloroform	U		0.00192	0.00297	1	09/30/2026 01:48	WG2843707
Chloromethane	U		0.0101	0.0149	1	09/30/2026 01:48	WG2843707
2-Chlorotoluene	U		0.00153	0.00297	1	09/30/2026 01:48	WG2843707
4-Chlorotoluene	U		0.00183	0.00594	1	09/30/2026 01:48	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0127	0.0297	1	09/30/2026 01:48	WG2843707
1,2-Dibromoethane	U		0.00150	0.00297	1	09/30/2026 01:48	WG2843707
Dibromomethane	U		0.00211	0.00594	1	09/30/2026 01:48	WG2843707
1,2-Dichlorobenzene	U		0.00185	0.00594	1	09/30/2026 01:48	WG2843707
1,3-Dichlorobenzene	U		0.00196	0.00594	1	09/30/2026 01:48	WG2843707
1,4-Dichlorobenzene	U		0.00208	0.00594	1	09/30/2026 01:48	WG2843707
Dichlorodifluoromethane	U		0.00517	0.00594	1	09/30/2026 01:48	WG2843707
1,1-Dichloroethane	U		0.00120	0.00297	1	09/30/2026 01:48	WG2843707
1,2-Dichloroethane	U		0.00173	0.00297	1	09/30/2026 01:48	WG2843707
1,1-Dichloroethene	U		0.00182	0.00297	1	09/30/2026 01:48	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00153	0.00297	1	09/30/2026 01:48	WG2843707
trans-1,2-Dichloroethene	U		0.00124	0.00594	1	09/30/2026 01:48	WG2843707
1,2-Dichloropropane	U		0.00228	0.00594	1	09/30/2026 01:48	WG2843707
1,1-Dichloropropene	U		0.00164	0.00594	1	09/30/2026 01:48	WG2843707
1,3-Dichloropropane	U		0.00192	0.00594	1	09/30/2026 01:48	WG2843707
cis-1,3-Dichloropropene	U		0.00125	0.00297	1	09/30/2026 01:48	WG2843707
trans-1,3-Dichloropropene	U		0.00125	0.00594	1	09/30/2026 01:48	WG2843707
2,2-Dichloropropane	U		0.00240	0.00297	1	09/30/2026 01:48	WG2843707
Di-isopropyl ether	U		0.000914	0.00119	1	09/30/2026 01:48	WG2843707
Ethylbenzene	U		0.00117	0.00297	1	09/30/2026 01:48	WG2843707
Hexachloro-1,3-butadiene	U		0.0124	0.0297	1	09/30/2026 01:48	WG2843707
Isopropylbenzene	U		0.00120	0.00297	1	09/30/2026 01:48	WG2843707
p-Isopropyltoluene	U		0.00253	0.00594	1	09/30/2026 01:48	WG2843707
2-Butanone (MEK)	U		0.105	0.119	1	09/30/2026 01:48	WG2843707
Methylene Chloride	U		0.0131	0.0297	1	09/30/2026 01:48	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0297	1	09/30/2026 01:48	WG2843707
Methyl tert-butyl ether	U		0.000918	0.00119	1	09/30/2026 01:48	WG2843707
Naphthalene	U		0.00906	0.0149	1	09/30/2026 01:48	WG2843707
n-Propylbenzene	U		0.00201	0.00594	1	09/30/2026 01:48	WG2843707
Styrene	U		0.00529	0.0149	1	09/30/2026 01:48	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00154	0.00297	1	09/30/2026 01:48	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00138	0.00297	1	09/30/2026 01:48	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00334	0.00594	1	09/30/2026 01:48	WG2843707
Tetrachloroethene	U		0.00181	0.00297	1	09/30/2026 01:48	WG2843707
Toluene	U		0.00343	0.00594	1	09/30/2026 01:48	WG2843707
1,2,3-Trichlorobenzene	U		0.00830	0.0149	1	09/30/2026 01:48	WG2843707
1,2,4-Trichlorobenzene	U		0.00644	0.0149	1	09/30/2026 01:48	WG2843707
1,1,1-Trichloroethane	U		0.00172	0.00297	1	09/30/2026 01:48	WG2843707
1,1,2-Trichloroethane	U		0.00159	0.00297	1	09/30/2026 01:48	WG2843707
Trichloroethene	U		0.00106	0.00119	1	09/30/2026 01:48	WG2843707
Trichlorofluoromethane	U		0.00310	0.00475	1	09/30/2026 01:48	WG2843707
1,2,3-Trichloropropane	U		0.00727	0.0149	1	09/30/2026 01:48	WG2843707
1,2,4-Trimethylbenzene	U		0.00283	0.00594	1	09/30/2026 01:48	WG2843707
1,2,3-Trimethylbenzene	U		0.00216	0.00594	1	09/30/2026 01:48	WG2843707
1,3,5-Trimethylbenzene	U		0.00271	0.00594	1	09/30/2026 01:48	WG2843707
Vinyl chloride	U		0.00239	0.00297	1	09/30/2026 01:48	WG2843707
Xylenes, Total	U		0.00333	0.00772	1	09/30/2026 01:48	WG2843707
(S) Toluene-d8	*96.8*			*75.0-131*		*09/30/2026 01:48*	WG2843707
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*09/30/2026 01:48*	WG2843707
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/30/2026 01:48*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0109	0.0219	1	09/30/2026 19:08	WG2843849
Dalapon	U		0.00797	0.0219	1	09/30/2026 19:08	WG2843849
2,4-DB	U		0.00878	0.0219	1	09/30/2026 19:08	WG2843849
Dicamba	U		0.0107	0.0219	1	09/30/2026 19:08	WG2843849
Dichloroprop	U		0.00611	0.0219	1	09/30/2026 19:08	WG2843849
Dinoseb	U		0.00544	0.0219	1	09/30/2026 19:08	WG2843849
MCPA	U		0.0102	0.0219	1	09/30/2026 19:08	WG2843849
MCPP	U		0.00569	0.0219	1	09/30/2026 19:08	WG2843849
2,4,5-T	U		0.00992	0.0219	1	09/30/2026 19:08	WG2843849
2,4,5-TP (Silvex)	U		0.00602	0.0219	1	09/30/2026 19:08	WG2843849
(S) 2,4-DB-D3	*101*			*70.0-130*		*09/30/2026 19:08*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00705	0.0219	1	10/01/2026 18:08	WG2843884
Alpha BHC	U		0.00696	0.0219	1	10/01/2026 18:08	WG2843884
Beta BHC	U		0.00688	0.0219	1	10/01/2026 18:08	WG2843884
Delta BHC	U		0.00694	0.0219	1	10/01/2026 18:08	WG2843884
Gamma BHC	U		0.00739	0.0219	1	10/01/2026 18:08	WG2843884
Chlordane	U		0.108	0.328	1	10/01/2026 18:08	WG2843884
4,4-DDD	U		0.00754	0.0219	1	10/01/2026 18:08	WG2843884
4,4-DDE	U		0.00735	0.0219	1	10/01/2026 18:08	WG2843884
4,4-DDT	U		0.00837	0.0219	1	10/01/2026 18:08	WG2843884
Dieldrin	U		0.00762	0.0219	1	10/01/2026 18:08	WG2843884
Endosulfan I	U		0.00660	0.0219	1	10/01/2026 18:08	WG2843884
Endosulfan II	U		0.00722	0.0219	1	10/01/2026 18:08	WG2843884
Endosulfan sulfate	U		0.00702	0.0219	1	10/01/2026 18:08	WG2843884
Endrin	U		0.00815	0.0219	1	10/01/2026 18:08	WG2843884
Endrin aldehyde	U		0.00645	0.0219	1	10/01/2026 18:08	WG2843884
Endrin ketone	U		0.00760	0.0219	1	10/01/2026 18:08	WG2843884
Heptachlor	U		0.00757	0.0219	1	10/01/2026 18:08	WG2843884
Heptachlor epoxide	U		0.00710	0.0219	1	10/01/2026 18:08	WG2843884
Hexachlorobenzene	U		0.00664	0.0219	1	10/01/2026 18:08	WG2843884
Methoxychlor	U		0.00881	0.0219	1	10/01/2026 18:08	WG2843884
Toxaphene	U		0.234	0.437	1	10/01/2026 18:08	WG2843884
(S) Decachlorobiphenyl	*77.4*			*10.0-135*		*10/01/2026 18:08*	WG2843884
(S) Tetrachloro-m-xylene	*70.3*			*10.0-139*		*10/01/2026 18:08*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0111	0.0372	1	10/01/2026 18:08	WG2843884
PCB 1221	U		0.0117	0.0372	1	10/01/2026 18:08	WG2843884
PCB 1232	U		0.00980	0.0372	1	10/01/2026 18:08	WG2843884
PCB 1242	U		0.0110	0.0372	1	10/01/2026 18:08	WG2843884
PCB 1248	U		0.0136	0.0186	1	10/01/2026 18:08	WG2843884
PCB 1254	U		0.0114	0.0186	1	10/01/2026 18:08	WG2843884
PCB 1260	U		0.0120	0.0186	1	10/01/2026 18:08	WG2843884
(S) Decachlorobiphenyl	*78.8*			*10.0-135*		*10/01/2026 18:08*	WG2843884
(S) Tetrachloro-m-xylene	*74.4*			*10.0-139*		*10/01/2026 18:08*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00589	0.0364	1	10/02/2026 12:35	WG2843887
Acenaphthylene	U		0.00620	0.0364	1	10/02/2026 12:35	WG2843887
Anthracene	U		0.00447	0.0364	1	10/02/2026 12:35	WG2843887
Benzidine	U	C3 J4	1.09	1.83	1	10/02/2026 12:35	WG2843887
Benzo(a)anthracene	U		0.00415	0.0364	1	10/02/2026 12:35	WG2843887
Benzo(b)fluoranthene	U		0.00592	0.0364	1	10/02/2026 12:35	WG2843887
Benzo(k)fluoranthene	U		0.00529	0.0364	1	10/02/2026 12:35	WG2843887
Benzo(g,h,i)perylene	U		0.00704	0.0364	1	10/02/2026 12:35	WG2843887
Benzo(a)pyrene	U		0.00730	0.0364	1	10/02/2026 12:35	WG2843887
Bis(2-chlorethoxy)methane	U		0.0395	0.364	1	10/02/2026 12:35	WG2843887
Bis(2-chloroethyl)ether	U		0.0687	0.364	1	10/02/2026 12:35	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0780	0.364	1	10/02/2026 12:35	WG2843887
4-Bromophenyl-phenylether	U		0.0519	0.364	1	10/02/2026 12:35	WG2843887
2-Chloronaphthalene	U		0.00542	0.0364	1	10/02/2026 12:35	WG2843887
4-Chlorophenyl-phenylether	U		0.0519	0.364	1	10/02/2026 12:35	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00378	0.0364	1	10/02/2026 12:35	WG2843887
Dibenz(a,h)anthracene	U		0.00643	0.0364	1	10/02/2026 12:35	WG2843887
1,2-Dichlorobenzene	U		0.0313	0.364	1	10/02/2026 12:35	WG2843887
1,3-Dichlorobenzene	U		0.0317	0.364	1	10/02/2026 12:35	WG2843887
1,4-Dichlorobenzene	U		0.0313	0.364	1	10/02/2026 12:35	WG2843887
3,3-Dichlorobenzidine	U		0.139	0.364	1	10/02/2026 12:35	WG2843887
2,4-Dinitrotoluene	U		0.0721	0.364	1	10/02/2026 12:35	WG2843887
2,6-Dinitrotoluene	U		0.0686	0.364	1	10/02/2026 12:35	WG2843887
Fluoranthene	U		0.00469	0.0364	1	10/02/2026 12:35	WG2843887
Fluorene	U		0.00543	0.0364	1	10/02/2026 12:35	WG2843887
Hexachlorobenzene	U		0.0595	0.364	1	10/02/2026 12:35	WG2843887
Hexachloro-1,3-butadiene	U		0.0577	0.364	1	10/02/2026 12:35	WG2843887
Hexachlorocyclopentadiene	U		0.111	0.364	1	10/02/2026 12:35	WG2843887
Hexachloroethane	U		0.0448	0.364	1	10/02/2026 12:35	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00731	0.0364	1	10/02/2026 12:35	WG2843887
Isophorone	U		0.0458	0.364	1	10/02/2026 12:35	WG2843887
Naphthalene	U		0.0128	0.0364	1	10/02/2026 12:35	WG2843887
Nitrobenzene	U		0.0492	0.364	1	10/02/2026 12:35	WG2843887
n-Nitrosodimethylamine	U		0.0855	0.364	1	10/02/2026 12:35	WG2843887
n-Nitrosodiphenylamine	U		0.0467	0.364	1	10/02/2026 12:35	WG2843887
n-Nitrosodi-n-propylamine	U		0.0577	0.364	1	10/02/2026 12:35	WG2843887
Phenanthrene	0.00486	J	0.00400	0.0364	1	10/02/2026 12:35	WG2843887
Benzylbutyl phthalate	U		0.0705	0.364	1	10/02/2026 12:35	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0718	0.364	1	10/02/2026 12:35	WG2843887
Di-n-butyl phthalate	U		0.0490	0.364	1	10/02/2026 12:35	WG2843887
Diethyl phthalate	U		0.0564	0.364	1	10/02/2026 12:35	WG2843887
Dimethyl phthalate	U		0.0489	0.364	1	10/02/2026 12:35	WG2843887
Di-n-octyl phthalate	U		0.161	0.364	1	10/02/2026 12:35	WG2843887
Pyrene	U		0.00408	0.0364	1	10/02/2026 12:35	WG2843887
1,2,4-Trichlorobenzene	U		0.0432	0.364	1	10/02/2026 12:35	WG2843887
4-Chloro-3-methylphenol	U		0.0568	0.364	1	10/02/2026 12:35	WG2843887
2-Chlorophenol	U		0.0378	0.364	1	10/02/2026 12:35	WG2843887
2,4-Dichlorophenol	U		0.0480	0.364	1	10/02/2026 12:35	WG2843887
2,4-Dimethylphenol	U	C3	0.195	0.364	1	10/02/2026 12:35	WG2843887
4,6-Dinitro-2-methylphenol	U		0.111	0.364	1	10/02/2026 12:35	WG2843887
2,4-Dinitrophenol	U		0.139	0.364	1	10/02/2026 12:35	WG2843887
2-Nitrophenol	U		0.0540	0.364	1	10/02/2026 12:35	WG2843887
4-Nitrophenol	U		0.116	0.364	1	10/02/2026 12:35	WG2843887
Pentachlorophenol	U	C3	0.137	0.364	1	10/02/2026 12:35	WG2843887
Phenol	U		0.0620	0.364	1	10/02/2026 12:35	WG2843887
2,4,6-Trichlorophenol	U		0.0870	0.364	1	10/02/2026 12:35	WG2843887
(S) 2-Fluorophenol	*64.2*			*12.0-120*		*10/02/2026 12:35*	WG2843887
(S) Phenol-d5	*59.6*			*10.0-120*		*10/02/2026 12:35*	WG2843887
(S) Nitrobenzene-d5	*61.8*			*10.0-122*		*10/02/2026 12:35*	WG2843887
(S) 2-Fluorobiphenyl	*60.9*			*15.0-120*		*10/02/2026 12:35*	WG2843887
(S) 2,4,6-Tribromophenol	*48.4*			*10.0-127*		*10/02/2026 12:35*	WG2843887
(S) p-Terphenyl-d14	*69.1*			*10.0-120*		*10/02/2026 12:35*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0222	0.0431	1	10/01/2026 20:50	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.744	2.15	1	09/30/2026 16:45	WG2843802
Arsenic	10.1		0.901	2.15	1	09/30/2026 15:20	WG2843802
Beryllium	1.34		0.0514	0.215	1	09/30/2026 15:20	WG2843802
Cadmium	0.201	J	0.0703	0.538	1	09/30/2026 15:20	WG2843802
Chromium	22.3		0.230	1.08	1	09/30/2026 15:20	WG2843802
Copper	46.1		0.384	2.15	1	09/30/2026 15:20	WG2843802
Lead	23.4		0.351	0.538	1	09/30/2026 15:20	WG2843802
Nickel	39.7		0.215	2.15	1	09/30/2026 15:20	WG2843802
Selenium	1.31	J	1.15	2.15	1	09/30/2026 15:20	WG2843802
Silver	U		0.137	1.08	1	09/30/2026 15:20	WG2843802
Thallium	U		0.558	2.15	1	09/30/2026 15:20	WG2843802
Zinc	108		1.05	5.38	1	09/30/2026 15:20	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0806	0.116	1	09/30/2026 02:07	WG2843707
Acrylonitrile	U		0.00929	0.0145	1	09/30/2026 02:07	WG2843707
Benzene	U		0.000822	0.00116	1	09/30/2026 02:07	WG2843707
Bromobenzene	U		0.00451	0.0145	1	09/30/2026 02:07	WG2843707
Bromodichloromethane	U		0.00135	0.00289	1	09/30/2026 02:07	WG2843707
Bromoform	U		0.0115	0.0289	1	09/30/2026 02:07	WG2843707
Bromomethane	U		0.0117	0.0145	1	09/30/2026 02:07	WG2843707
n-Butylbenzene	U		0.00723	0.0145	1	09/30/2026 02:07	WG2843707
sec-Butylbenzene	U		0.00443	0.0145	1	09/30/2026 02:07	WG2843707
tert-Butylbenzene	U		0.00219	0.00578	1	09/30/2026 02:07	WG2843707
Carbon tetrachloride	U		0.00348	0.00578	1	09/30/2026 02:07	WG2843707
Chlorobenzene	U		0.000992	0.00289	1	09/30/2026 02:07	WG2843707
Chlorodibromomethane	U		0.00186	0.00289	1	09/30/2026 02:07	WG2843707
Chloroethane	U		0.00658	0.0116	1	09/30/2026 02:07	WG2843707
Chloroform	U		0.00187	0.00289	1	09/30/2026 02:07	WG2843707
Chloromethane	U		0.00983	0.0145	1	09/30/2026 02:07	WG2843707
2-Chlorotoluene	U		0.00149	0.00289	1	09/30/2026 02:07	WG2843707
4-Chlorotoluene	U		0.00178	0.00578	1	09/30/2026 02:07	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0124	0.0289	1	09/30/2026 02:07	WG2843707
1,2-Dibromoethane	U		0.00146	0.00289	1	09/30/2026 02:07	WG2843707
Dibromomethane	U		0.00206	0.00578	1	09/30/2026 02:07	WG2843707
1,2-Dichlorobenzene	U		0.00180	0.00578	1	09/30/2026 02:07	WG2843707
1,3-Dichlorobenzene	U		0.00191	0.00578	1	09/30/2026 02:07	WG2843707
1,4-Dichlorobenzene	U		0.00202	0.00578	1	09/30/2026 02:07	WG2843707
Dichlorodifluoromethane	U		0.00503	0.00578	1	09/30/2026 02:07	WG2843707
1,1-Dichloroethane	U		0.00117	0.00289	1	09/30/2026 02:07	WG2843707
1,2-Dichloroethane	U		0.00169	0.00289	1	09/30/2026 02:07	WG2843707
1,1-Dichloroethene	U		0.00177	0.00289	1	09/30/2026 02:07	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00149	0.00289	1	09/30/2026 02:07	WG2843707
trans-1,2-Dichloroethene	U		0.00120	0.00578	1	09/30/2026 02:07	WG2843707
1,2-Dichloropropane	U		0.00222	0.00578	1	09/30/2026 02:07	WG2843707
1,1-Dichloropropene	U		0.00160	0.00578	1	09/30/2026 02:07	WG2843707
1,3-Dichloropropane	U		0.00187	0.00578	1	09/30/2026 02:07	WG2843707
cis-1,3-Dichloropropene	U		0.00121	0.00289	1	09/30/2026 02:07	WG2843707
trans-1,3-Dichloropropene	U		0.00121	0.00578	1	09/30/2026 02:07	WG2843707
2,2-Dichloropropane	U		0.00234	0.00289	1	09/30/2026 02:07	WG2843707
Di-isopropyl ether	U		0.000889	0.00116	1	09/30/2026 02:07	WG2843707
Ethylbenzene	U		0.00114	0.00289	1	09/30/2026 02:07	WG2843707
Hexachloro-1,3-butadiene	U		0.0120	0.0289	1	09/30/2026 02:07	WG2843707
Isopropylbenzene	U		0.00117	0.00289	1	09/30/2026 02:07	WG2843707
p-Isopropyltoluene	U		0.00246	0.00578	1	09/30/2026 02:07	WG2843707
2-Butanone (MEK)	U		0.103	0.116	1	09/30/2026 02:07	WG2843707
Methylene Chloride	U		0.0127	0.0289	1	09/30/2026 02:07	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/30/2026 02:07	WG2843707
Methyl tert-butyl ether	U		0.000894	0.00116	1	09/30/2026 02:07	WG2843707
Naphthalene	U		0.00882	0.0145	1	09/30/2026 02:07	WG2843707
n-Propylbenzene	U		0.00195	0.00578	1	09/30/2026 02:07	WG2843707
Styrene	U		0.00515	0.0145	1	09/30/2026 02:07	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00150	0.00289	1	09/30/2026 02:07	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00134	0.00289	1	09/30/2026 02:07	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00325	0.00578	1	09/30/2026 02:07	WG2843707
Tetrachloroethene	U		0.00176	0.00289	1	09/30/2026 02:07	WG2843707
Toluene	U		0.00334	0.00578	1	09/30/2026 02:07	WG2843707
1,2,3-Trichlorobenzene	U		0.00808	0.0145	1	09/30/2026 02:07	WG2843707
1,2,4-Trichlorobenzene	U		0.00627	0.0145	1	09/30/2026 02:07	WG2843707
1,1,1-Trichloroethane	U		0.00168	0.00289	1	09/30/2026 02:07	WG2843707
1,1,2-Trichloroethane	U		0.00155	0.00289	1	09/30/2026 02:07	WG2843707
Trichloroethene	U		0.00103	0.00116	1	09/30/2026 02:07	WG2843707
Trichlorofluoromethane	U		0.00302	0.00463	1	09/30/2026 02:07	WG2843707
1,2,3-Trichloropropane	U		0.00708	0.0145	1	09/30/2026 02:07	WG2843707
1,2,4-Trimethylbenzene	U		0.00275	0.00578	1	09/30/2026 02:07	WG2843707
1,2,3-Trimethylbenzene	U		0.00210	0.00578	1	09/30/2026 02:07	WG2843707
1,3,5-Trimethylbenzene	U		0.00264	0.00578	1	09/30/2026 02:07	WG2843707
Vinyl chloride	U		0.00232	0.00289	1	09/30/2026 02:07	WG2843707
Xylenes, Total	U		0.00324	0.00752	1	09/30/2026 02:07	WG2843707
(S) Toluene-d8	*97.0*			*75.0-131*		*09/30/2026 02:07*	WG2843707
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*09/30/2026 02:07*	WG2843707
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/30/2026 02:07*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0111	0.0222	1.03	09/30/2026 19:21	WG2843849
Dalapon	U		0.00809	0.0222	1.03	09/30/2026 19:21	WG2843849
2,4-DB	U		0.00891	0.0222	1.03	09/30/2026 19:21	WG2843849
Dicamba	U		0.0108	0.0222	1.03	09/30/2026 19:21	WG2843849
Dichloroprop	U		0.00620	0.0222	1.03	09/30/2026 19:21	WG2843849
Dinoseb	U		0.00552	0.0222	1.03	09/30/2026 19:21	WG2843849
MCPA	U		0.0104	0.0222	1.03	09/30/2026 19:21	WG2843849
MCPP	U		0.00578	0.0222	1.03	09/30/2026 19:21	WG2843849
2,4,5-T	U		0.0101	0.0222	1.03	09/30/2026 19:21	WG2843849
2,4,5-TP (Silvex)	U		0.00612	0.0222	1.03	09/30/2026 19:21	WG2843849
(S) 2,4-DB-D3	*98.5*			*70.0-130*		*09/30/2026 19:21*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00695	0.0215	1	10/01/2026 18:18	WG2843884
Alpha BHC	U		0.00686	0.0215	1	10/01/2026 18:18	WG2843884
Beta BHC	U		0.00678	0.0215	1	10/01/2026 18:18	WG2843884
Delta BHC	U		0.00684	0.0215	1	10/01/2026 18:18	WG2843884
Gamma BHC	U		0.00728	0.0215	1	10/01/2026 18:18	WG2843884
Chlordane	U		0.107	0.323	1	10/01/2026 18:18	WG2843884
4,4-DDD	U		0.00743	0.0215	1	10/01/2026 18:18	WG2843884
4,4-DDE	U		0.00725	0.0215	1	10/01/2026 18:18	WG2843884
4,4-DDT	U		0.00825	0.0215	1	10/01/2026 18:18	WG2843884
Dieldrin	U		0.00751	0.0215	1	10/01/2026 18:18	WG2843884
Endosulfan I	U		0.00650	0.0215	1	10/01/2026 18:18	WG2843884
Endosulfan II	U		0.00712	0.0215	1	10/01/2026 18:18	WG2843884
Endosulfan sulfate	U		0.00691	0.0215	1	10/01/2026 18:18	WG2843884
Endrin	U		0.00803	0.0215	1	10/01/2026 18:18	WG2843884
Endrin aldehyde	U		0.00635	0.0215	1	10/01/2026 18:18	WG2843884
Endrin ketone	U		0.00748	0.0215	1	10/01/2026 18:18	WG2843884
Heptachlor	U		0.00746	0.0215	1	10/01/2026 18:18	WG2843884
Heptachlor epoxide	U		0.00700	0.0215	1	10/01/2026 18:18	WG2843884
Hexachlorobenzene	U		0.00655	0.0215	1	10/01/2026 18:18	WG2843884
Methoxychlor	U		0.00868	0.0215	1	10/01/2026 18:18	WG2843884
Toxaphene	U		0.230	0.431	1	10/01/2026 18:18	WG2843884
(S) Decachlorobiphenyl	*73.4*			*10.0-135*		*10/01/2026 18:18*	WG2843884
(S) Tetrachloro-m-xylene	*68.4*			*10.0-139*		*10/01/2026 18:18*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0110	0.0366	1	10/01/2026 18:18	WG2843884
PCB 1221	U		0.0115	0.0366	1	10/01/2026 18:18	WG2843884
PCB 1232	U		0.00966	0.0366	1	10/01/2026 18:18	WG2843884
PCB 1242	U		0.0109	0.0366	1	10/01/2026 18:18	WG2843884
PCB 1248	U		0.0134	0.0183	1	10/01/2026 18:18	WG2843884
PCB 1254	U		0.0112	0.0183	1	10/01/2026 18:18	WG2843884
PCB 1260	U		0.0118	0.0183	1	10/01/2026 18:18	WG2843884
(S) Decachlorobiphenyl	*74.5*			*10.0-135*		*10/01/2026 18:18*	WG2843884
(S) Tetrachloro-m-xylene	*72.6*			*10.0-139*		*10/01/2026 18:18*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00580	0.0359	1	10/02/2026 12:57	WG2843887
Acenaphthylene	U		0.00611	0.0359	1	10/02/2026 12:57	WG2843887
Anthracene	U		0.00440	0.0359	1	10/02/2026 12:57	WG2843887
Benzidine	U	C3 J4	1.08	1.80	1	10/02/2026 12:57	WG2843887
Benzo(a)anthracene	U		0.00409	0.0359	1	10/02/2026 12:57	WG2843887
Benzo(b)fluoranthene	U		0.00584	0.0359	1	10/02/2026 12:57	WG2843887
Benzo(k)fluoranthene	U		0.00521	0.0359	1	10/02/2026 12:57	WG2843887
Benzo(g,h,i)perylene	U		0.00694	0.0359	1	10/02/2026 12:57	WG2843887
Benzo(a)pyrene	U		0.00719	0.0359	1	10/02/2026 12:57	WG2843887
Bis(2-chlorethoxy)methane	U		0.0389	0.359	1	10/02/2026 12:57	WG2843887
Bis(2-chloroethyl)ether	U		0.0677	0.359	1	10/02/2026 12:57	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0769	0.359	1	10/02/2026 12:57	WG2843887
4-Bromophenyl-phenylether	U		0.0512	0.359	1	10/02/2026 12:57	WG2843887
2-Chloronaphthalene	U		0.00534	0.0359	1	10/02/2026 12:57	WG2843887
4-Chlorophenyl-phenylether	U		0.0512	0.359	1	10/02/2026 12:57	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00373	0.0359	1	10/02/2026 12:57	WG2843887
Dibenz(a,h)anthracene	U		0.00633	0.0359	1	10/02/2026 12:57	WG2843887
1,2-Dichlorobenzene	U		0.0308	0.359	1	10/02/2026 12:57	WG2843887
1,3-Dichlorobenzene	U		0.0312	0.359	1	10/02/2026 12:57	WG2843887
1,4-Dichlorobenzene	U		0.0308	0.359	1	10/02/2026 12:57	WG2843887
3,3-Dichlorobenzidine	U		0.137	0.359	1	10/02/2026 12:57	WG2843887
2,4-Dinitrotoluene	U		0.0711	0.359	1	10/02/2026 12:57	WG2843887
2,6-Dinitrotoluene	U		0.0676	0.359	1	10/02/2026 12:57	WG2843887
Fluoranthene	U		0.00462	0.0359	1	10/02/2026 12:57	WG2843887
Fluorene	U		0.00535	0.0359	1	10/02/2026 12:57	WG2843887
Hexachlorobenzene	U		0.0586	0.359	1	10/02/2026 12:57	WG2843887
Hexachloro-1,3-butadiene	U		0.0569	0.359	1	10/02/2026 12:57	WG2843887
Hexachlorocyclopentadiene	U		0.110	0.359	1	10/02/2026 12:57	WG2843887
Hexachloroethane	U		0.0442	0.359	1	10/02/2026 12:57	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00720	0.0359	1	10/02/2026 12:57	WG2843887
Isophorone	U		0.0451	0.359	1	10/02/2026 12:57	WG2843887
Naphthalene	U		0.0126	0.0359	1	10/02/2026 12:57	WG2843887
Nitrobenzene	U		0.0485	0.359	1	10/02/2026 12:57	WG2843887
n-Nitrosodimethylamine	U		0.0842	0.359	1	10/02/2026 12:57	WG2843887
n-Nitrosodiphenylamine	U		0.0460	0.359	1	10/02/2026 12:57	WG2843887
n-Nitrosodi-n-propylamine	U		0.0569	0.359	1	10/02/2026 12:57	WG2843887
Phenanthrene	U		0.00394	0.0359	1	10/02/2026 12:57	WG2843887
Benzylbutyl phthalate	U		0.0695	0.359	1	10/02/2026 12:57	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0708	0.359	1	10/02/2026 12:57	WG2843887
Di-n-butyl phthalate	U		0.0482	0.359	1	10/02/2026 12:57	WG2843887
Diethyl phthalate	U		0.0556	0.359	1	10/02/2026 12:57	WG2843887
Dimethyl phthalate	U		0.0481	0.359	1	10/02/2026 12:57	WG2843887
Di-n-octyl phthalate	U		0.158	0.359	1	10/02/2026 12:57	WG2843887
Pyrene	U		0.00402	0.0359	1	10/02/2026 12:57	WG2843887
1,2,4-Trichlorobenzene	U		0.0425	0.359	1	10/02/2026 12:57	WG2843887
4-Chloro-3-methylphenol	U		0.0560	0.359	1	10/02/2026 12:57	WG2843887
2-Chlorophenol	U		0.0373	0.359	1	10/02/2026 12:57	WG2843887
2,4-Dichlorophenol	U		0.0473	0.359	1	10/02/2026 12:57	WG2843887
2,4-Dimethylphenol	U	C3	0.192	0.359	1	10/02/2026 12:57	WG2843887
4,6-Dinitro-2-methylphenol	U		0.110	0.359	1	10/02/2026 12:57	WG2843887
2,4-Dinitrophenol	U		0.137	0.359	1	10/02/2026 12:57	WG2843887
2-Nitrophenol	U		0.0532	0.359	1	10/02/2026 12:57	WG2843887
4-Nitrophenol	U		0.114	0.359	1	10/02/2026 12:57	WG2843887
Pentachlorophenol	U	C3	0.135	0.359	1	10/02/2026 12:57	WG2843887
Phenol	U		0.0611	0.359	1	10/02/2026 12:57	WG2843887
2,4,6-Trichlorophenol	U		0.0857	0.359	1	10/02/2026 12:57	WG2843887
(S) 2-Fluorophenol	*68.0*			*12.0-120*		*10/02/2026 12:57*	WG2843887
(S) Phenol-d5	*60.8*			*10.0-120*		*10/02/2026 12:57*	WG2843887
(S) Nitrobenzene-d5	*64.1*			*10.0-122*		*10/02/2026 12:57*	WG2843887
(S) 2-Fluorobiphenyl	*60.7*			*15.0-120*		*10/02/2026 12:57*	WG2843887
(S) 2,4,6-Tribromophenol	*50.3*			*10.0-127*		*10/02/2026 12:57*	WG2843887
(S) p-Terphenyl-d14	*68.7*			*10.0-120*		*10/02/2026 12:57*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0426	1	10/01/2026 20:53	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.736	2.13	1	09/30/2026 15:23	WG2843802
Arsenic	7.27		0.892	2.13	1	09/30/2026 15:23	WG2843802
Beryllium	0.712		0.0508	0.213	1	09/30/2026 15:23	WG2843802
Cadmium	0.166	J	0.0696	0.533	1	09/30/2026 15:23	WG2843802
Chromium	21.6		0.228	1.07	1	09/30/2026 15:23	WG2843802
Copper	50.0		0.380	2.13	1	09/30/2026 15:23	WG2843802
Lead	19.6		0.347	0.533	1	09/30/2026 15:23	WG2843802
Nickel	35.9		0.213	2.13	1	09/30/2026 15:23	WG2843802
Selenium	U		1.14	2.13	1	09/30/2026 15:23	WG2843802
Silver	0.137	J	0.135	1.07	1	09/30/2026 15:23	WG2843802
Thallium	U		0.552	2.13	1	09/30/2026 15:23	WG2843802
Zinc	106		1.04	5.33	1	09/30/2026 15:23	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0790	0.113	1	09/30/2026 02:26	WG2843707
Acrylonitrile	U		0.00910	0.0142	1	09/30/2026 02:26	WG2843707
Benzene	U		0.000806	0.00113	1	09/30/2026 02:26	WG2843707
Bromobenzene	U		0.00442	0.0142	1	09/30/2026 02:26	WG2843707
Bromodichloromethane	U		0.00133	0.00283	1	09/30/2026 02:26	WG2843707
Bromoform	U		0.0112	0.0283	1	09/30/2026 02:26	WG2843707
Bromomethane	U		0.0115	0.0142	1	09/30/2026 02:26	WG2843707
n-Butylbenzene	U		0.00709	0.0142	1	09/30/2026 02:26	WG2843707
sec-Butylbenzene	U		0.00434	0.0142	1	09/30/2026 02:26	WG2843707
tert-Butylbenzene	U		0.00214	0.00567	1	09/30/2026 02:26	WG2843707
Carbon tetrachloride	U		0.00341	0.00567	1	09/30/2026 02:26	WG2843707
Chlorobenzene	U		0.000973	0.00283	1	09/30/2026 02:26	WG2843707
Chlorodibromomethane	U		0.00183	0.00283	1	09/30/2026 02:26	WG2843707
Chloroethane	U		0.00645	0.0113	1	09/30/2026 02:26	WG2843707
Chloroform	U		0.00184	0.00283	1	09/30/2026 02:26	WG2843707
Chloromethane	U		0.00964	0.0142	1	09/30/2026 02:26	WG2843707
2-Chlorotoluene	U		0.00146	0.00283	1	09/30/2026 02:26	WG2843707
4-Chlorotoluene	U		0.00175	0.00567	1	09/30/2026 02:26	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0121	0.0283	1	09/30/2026 02:26	WG2843707
1,2-Dibromoethane	U		0.00143	0.00283	1	09/30/2026 02:26	WG2843707
Dibromomethane	U		0.00202	0.00567	1	09/30/2026 02:26	WG2843707
1,2-Dichlorobenzene	U		0.00177	0.00567	1	09/30/2026 02:26	WG2843707
1,3-Dichlorobenzene	U		0.00187	0.00567	1	09/30/2026 02:26	WG2843707
1,4-Dichlorobenzene	U		0.00198	0.00567	1	09/30/2026 02:26	WG2843707
Dichlorodifluoromethane	U		0.00493	0.00567	1	09/30/2026 02:26	WG2843707
1,1-Dichloroethane	U		0.00115	0.00283	1	09/30/2026 02:26	WG2843707
1,2-Dichloroethane	U		0.00166	0.00283	1	09/30/2026 02:26	WG2843707
1,1-Dichloroethene	U		0.00173	0.00283	1	09/30/2026 02:26	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00146	0.00283	1	09/30/2026 02:26	WG2843707
trans-1,2-Dichloroethene	U		0.00118	0.00567	1	09/30/2026 02:26	WG2843707
1,2-Dichloropropane	U		0.00218	0.00567	1	09/30/2026 02:26	WG2843707
1,1-Dichloropropene	U		0.00156	0.00567	1	09/30/2026 02:26	WG2843707
1,3-Dichloropropane	U		0.00184	0.00567	1	09/30/2026 02:26	WG2843707
cis-1,3-Dichloropropene	U		0.00119	0.00283	1	09/30/2026 02:26	WG2843707
trans-1,3-Dichloropropene	U		0.00119	0.00567	1	09/30/2026 02:26	WG2843707
2,2-Dichloropropane	U		0.00229	0.00283	1	09/30/2026 02:26	WG2843707
Di-isopropyl ether	U		0.000872	0.00113	1	09/30/2026 02:26	WG2843707
Ethylbenzene	0.00648		0.00112	0.00283	1	09/30/2026 02:26	WG2843707
Hexachloro-1,3-butadiene	U		0.0118	0.0283	1	09/30/2026 02:26	WG2843707
Isopropylbenzene	0.00168	J	0.00115	0.00283	1	09/30/2026 02:26	WG2843707
p-Isopropyltoluene	U		0.00241	0.00567	1	09/30/2026 02:26	WG2843707
2-Butanone (MEK)	U		0.101	0.113	1	09/30/2026 02:26	WG2843707
Methylene Chloride	U		0.0125	0.0283	1	09/30/2026 02:26	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0283	1	09/30/2026 02:26	WG2843707
Methyl tert-butyl ether	U		0.000876	0.00113	1	09/30/2026 02:26	WG2843707
Naphthalene	0.0130	J	0.00865	0.0142	1	09/30/2026 02:26	WG2843707
n-Propylbenzene	0.00448	J	0.00192	0.00567	1	09/30/2026 02:26	WG2843707
Styrene	U		0.00505	0.0142	1	09/30/2026 02:26	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00147	0.00283	1	09/30/2026 02:26	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00132	0.00283	1	09/30/2026 02:26	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00319	0.00567	1	09/30/2026 02:26	WG2843707
Tetrachloroethene	U		0.00172	0.00283	1	09/30/2026 02:26	WG2843707
Toluene	0.0111		0.00328	0.00567	1	09/30/2026 02:26	WG2843707
1,2,3-Trichlorobenzene	U		0.00792	0.0142	1	09/30/2026 02:26	WG2843707
1,2,4-Trichlorobenzene	U		0.00614	0.0142	1	09/30/2026 02:26	WG2843707
1,1,1-Trichloroethane	U		0.00164	0.00283	1	09/30/2026 02:26	WG2843707
1,1,2-Trichloroethane	U		0.00152	0.00283	1	09/30/2026 02:26	WG2843707
Trichloroethene	U		0.00101	0.00113	1	09/30/2026 02:26	WG2843707
Trichlorofluoromethane	U		0.00296	0.00453	1	09/30/2026 02:26	WG2843707
1,2,3-Trichloropropane	U		0.00694	0.0142	1	09/30/2026 02:26	WG2843707
1,2,4-Trimethylbenzene	0.0102		0.00270	0.00567	1	09/30/2026 02:26	WG2843707
1,2,3-Trimethylbenzene	0.00446	J	0.00206	0.00567	1	09/30/2026 02:26	WG2843707
1,3,5-Trimethylbenzene	0.00506	J	0.00258	0.00567	1	09/30/2026 02:26	WG2843707
Vinyl chloride	U		0.00228	0.00283	1	09/30/2026 02:26	WG2843707
Xylenes, Total	0.0451		0.00317	0.00737	1	09/30/2026 02:26	WG2843707
(S) Toluene-d8	*96.2*			*75.0-131*		*09/30/2026 02:26*	WG2843707
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*09/30/2026 02:26*	WG2843707
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/30/2026 02:26*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0107	0.0213	1	09/30/2026 19:34	WG2843849
Dalapon	U		0.00777	0.0213	1	09/30/2026 19:34	WG2843849
2,4-DB	U		0.00856	0.0213	1	09/30/2026 19:34	WG2843849
Dicamba	U		0.0104	0.0213	1	09/30/2026 19:34	WG2843849
Dichloroprop	U		0.00596	0.0213	1	09/30/2026 19:34	WG2843849
Dinoseb	U		0.00531	0.0213	1	09/30/2026 19:34	WG2843849
MCPA	U		0.00998	0.0213	1	09/30/2026 19:34	WG2843849
MCPP	U		0.00555	0.0213	1	09/30/2026 19:34	WG2843849
2,4,5-T	U		0.00968	0.0213	1	09/30/2026 19:34	WG2843849
2,4,5-TP (Silvex)	U		0.00587	0.0213	1	09/30/2026 19:34	WG2843849
(S) 2,4-DB-D3	*96.0*			*70.0-130*		*09/30/2026 19:34*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00687	0.0213	1	10/01/2026 18:29	WG2843884
Alpha BHC	U		0.00679	0.0213	1	10/01/2026 18:29	WG2843884
Beta BHC	U		0.00671	0.0213	1	10/01/2026 18:29	WG2843884
Delta BHC	U		0.00677	0.0213	1	10/01/2026 18:29	WG2843884
Gamma BHC	U		0.00720	0.0213	1	10/01/2026 18:29	WG2843884
Chlordane	U		0.106	0.320	1	10/01/2026 18:29	WG2843884
4,4-DDD	U		0.00735	0.0213	1	10/01/2026 18:29	WG2843884
4,4-DDE	U		0.00717	0.0213	1	10/01/2026 18:29	WG2843884
4,4-DDT	U		0.00816	0.0213	1	10/01/2026 18:29	WG2843884
Dieldrin	U		0.00743	0.0213	1	10/01/2026 18:29	WG2843884
Endosulfan I	U		0.00644	0.0213	1	10/01/2026 18:29	WG2843884
Endosulfan II	U		0.00704	0.0213	1	10/01/2026 18:29	WG2843884
Endosulfan sulfate	U		0.00684	0.0213	1	10/01/2026 18:29	WG2843884
Endrin	U		0.00795	0.0213	1	10/01/2026 18:29	WG2843884
Endrin aldehyde	U		0.00629	0.0213	1	10/01/2026 18:29	WG2843884
Endrin ketone	U		0.00741	0.0213	1	10/01/2026 18:29	WG2843884
Heptachlor	U		0.00739	0.0213	1	10/01/2026 18:29	WG2843884
Heptachlor epoxide	U		0.00693	0.0213	1	10/01/2026 18:29	WG2843884
Hexachlorobenzene	U		0.00648	0.0213	1	10/01/2026 18:29	WG2843884
Methoxychlor	U		0.00859	0.0213	1	10/01/2026 18:29	WG2843884
Toxaphene	U		0.228	0.426	1	10/01/2026 18:29	WG2843884
(S) Decachlorobiphenyl	*85.9*			*10.0-135*		*10/01/2026 18:29*	WG2843884
(S) Tetrachloro-m-xylene	*80.4*			*10.0-139*		*10/01/2026 18:29*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0109	0.0362	1	10/01/2026 18:29	WG2843884
PCB 1221	U		0.0114	0.0362	1	10/01/2026 18:29	WG2843884
PCB 1232	U		0.00956	0.0362	1	10/01/2026 18:29	WG2843884
PCB 1242	U		0.0108	0.0362	1	10/01/2026 18:29	WG2843884
PCB 1248	U		0.0132	0.0181	1	10/01/2026 18:29	WG2843884
PCB 1254	U		0.0111	0.0181	1	10/01/2026 18:29	WG2843884
PCB 1260	U		0.0117	0.0181	1	10/01/2026 18:29	WG2843884
(S) Decachlorobiphenyl	*87.7*			*10.0-135*		*10/01/2026 18:29*	WG2843884
(S) Tetrachloro-m-xylene	*85.5*			*10.0-139*		*10/01/2026 18:29*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00574	0.0355	1	10/02/2026 14:25	WG2843887
Acenaphthylene	U		0.00604	0.0355	1	10/02/2026 14:25	WG2843887
Anthracene	U		0.00436	0.0355	1	10/02/2026 14:25	WG2843887
Benzidine	U	C3 J4	1.06	1.78	1	10/02/2026 14:25	WG2843887
Benzo(a)anthracene	U		0.00405	0.0355	1	10/02/2026 14:25	WG2843887
Benzo(b)fluoranthene	U		0.00578	0.0355	1	10/02/2026 14:25	WG2843887
Benzo(k)fluoranthene	U		0.00516	0.0355	1	10/02/2026 14:25	WG2843887
Benzo(g,h,i)perylene	U		0.00686	0.0355	1	10/02/2026 14:25	WG2843887
Benzo(a)pyrene	U		0.00712	0.0355	1	10/02/2026 14:25	WG2843887
Bis(2-chlorethoxy)methane	U		0.0385	0.355	1	10/02/2026 14:25	WG2843887
Bis(2-chloroethyl)ether	U		0.0670	0.355	1	10/02/2026 14:25	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0761	0.355	1	10/02/2026 14:25	WG2843887
4-Bromophenyl-phenylether	U		0.0506	0.355	1	10/02/2026 14:25	WG2843887
2-Chloronaphthalene	U		0.00529	0.0355	1	10/02/2026 14:25	WG2843887
4-Chlorophenyl-phenylether	U		0.0506	0.355	1	10/02/2026 14:25	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00369	0.0355	1	10/02/2026 14:25	WG2843887
Dibenz(a,h)anthracene	U		0.00627	0.0355	1	10/02/2026 14:25	WG2843887
1,2-Dichlorobenzene	U		0.0305	0.355	1	10/02/2026 14:25	WG2843887
1,3-Dichlorobenzene	U		0.0309	0.355	1	10/02/2026 14:25	WG2843887
1,4-Dichlorobenzene	U		0.0305	0.355	1	10/02/2026 14:25	WG2843887
3,3-Dichlorobenzidine	U		0.135	0.355	1	10/02/2026 14:25	WG2843887
2,4-Dinitrotoluene	U		0.0703	0.355	1	10/02/2026 14:25	WG2843887
2,6-Dinitrotoluene	U		0.0669	0.355	1	10/02/2026 14:25	WG2843887
Fluoranthene	U		0.00457	0.0355	1	10/02/2026 14:25	WG2843887
Fluorene	U		0.00530	0.0355	1	10/02/2026 14:25	WG2843887
Hexachlorobenzene	U		0.0580	0.355	1	10/02/2026 14:25	WG2843887
Hexachloro-1,3-butadiene	U		0.0563	0.355	1	10/02/2026 14:25	WG2843887
Hexachlorocyclopentadiene	U		0.109	0.355	1	10/02/2026 14:25	WG2843887
Hexachloroethane	U		0.0437	0.355	1	10/02/2026 14:25	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00713	0.0355	1	10/02/2026 14:25	WG2843887
Isophorone	U		0.0447	0.355	1	10/02/2026 14:25	WG2843887
Naphthalene	U		0.0125	0.0355	1	10/02/2026 14:25	WG2843887
Nitrobenzene	U		0.0480	0.355	1	10/02/2026 14:25	WG2843887
n-Nitrosodimethylamine	U		0.0833	0.355	1	10/02/2026 14:25	WG2843887
n-Nitrosodiphenylamine	U		0.0455	0.355	1	10/02/2026 14:25	WG2843887
n-Nitrosodi-n-propylamine	U		0.0563	0.355	1	10/02/2026 14:25	WG2843887
Phenanthrene	0.00595	J	0.00390	0.0355	1	10/02/2026 14:25	WG2843887
Benzylbutyl phthalate	U		0.0687	0.355	1	10/02/2026 14:25	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0700	0.355	1	10/02/2026 14:25	WG2843887
Di-n-butyl phthalate	U		0.0477	0.355	1	10/02/2026 14:25	WG2843887
Diethyl phthalate	U		0.0550	0.355	1	10/02/2026 14:25	WG2843887
Dimethyl phthalate	U		0.0476	0.355	1	10/02/2026 14:25	WG2843887
Di-n-octyl phthalate	U		0.157	0.355	1	10/02/2026 14:25	WG2843887
Pyrene	U		0.00398	0.0355	1	10/02/2026 14:25	WG2843887
1,2,4-Trichlorobenzene	U		0.0421	0.355	1	10/02/2026 14:25	WG2843887
4-Chloro-3-methylphenol	U		0.0554	0.355	1	10/02/2026 14:25	WG2843887
2-Chlorophenol	U		0.0369	0.355	1	10/02/2026 14:25	WG2843887
2,4-Dichlorophenol	U		0.0468	0.355	1	10/02/2026 14:25	WG2843887
2,4-Dimethylphenol	U	C3	0.190	0.355	1	10/02/2026 14:25	WG2843887
4,6-Dinitro-2-methylphenol	U		0.109	0.355	1	10/02/2026 14:25	WG2843887
2,4-Dinitrophenol	U		0.135	0.355	1	10/02/2026 14:25	WG2843887
2-Nitrophenol	U		0.0526	0.355	1	10/02/2026 14:25	WG2843887
4-Nitrophenol	U		0.113	0.355	1	10/02/2026 14:25	WG2843887
Pentachlorophenol	U	C3	0.133	0.355	1	10/02/2026 14:25	WG2843887
Phenol	U		0.0604	0.355	1	10/02/2026 14:25	WG2843887
2,4,6-Trichlorophenol	U		0.0848	0.355	1	10/02/2026 14:25	WG2843887
(S) 2-Fluorophenol	*69.8*			*12.0-120*		*10/02/2026 14:25*	WG2843887
(S) Phenol-d5	*61.6*			*10.0-120*		*10/02/2026 14:25*	WG2843887
(S) Nitrobenzene-d5	*62.5*			*10.0-122*		*10/02/2026 14:25*	WG2843887
(S) 2-Fluorobiphenyl	*63.5*			*15.0-120*		*10/02/2026 14:25*	WG2843887
(S) 2,4,6-Tribromophenol	*59.1*			*10.0-127*		*10/02/2026 14:25*	WG2843887
(S) p-Terphenyl-d14	*83.0*			*10.0-120*		*10/02/2026 14:25*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0216	0.0419	1	10/01/2026 20:56	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.723	2.09	1	09/30/2026 15:29	WG2843802
Arsenic	9.24		0.876	2.09	1	09/30/2026 15:29	WG2843802
Beryllium	0.937		0.0499	0.209	1	09/30/2026 15:29	WG2843802
Cadmium	0.139	J	0.0683	0.523	1	09/30/2026 15:29	WG2843802
Chromium	19.2		0.224	1.05	1	09/30/2026 15:29	WG2843802
Copper	43.1		0.374	2.09	1	09/30/2026 15:29	WG2843802
Lead	21.5		0.341	0.523	1	09/30/2026 15:29	WG2843802
Nickel	32.2		0.209	2.09	1	09/30/2026 15:29	WG2843802
Selenium	U		1.12	2.09	1	09/30/2026 15:29	WG2843802
Silver	U		0.133	1.05	1	09/30/2026 15:29	WG2843802
Thallium	U		0.542	2.09	1	09/30/2026 15:29	WG2843802
Zinc	95.3		1.02	5.23	1	09/30/2026 15:29	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0777	0.111	1.02	09/30/2026 02:46	WG2843707
Acrylonitrile	U		0.00895	0.0140	1.02	09/30/2026 02:46	WG2843707
Benzene	U		0.000792	0.00111	1.02	09/30/2026 02:46	WG2843707
Bromobenzene	U		0.00435	0.0140	1.02	09/30/2026 02:46	WG2843707
Bromodichloromethane	U		0.00130	0.00279	1.02	09/30/2026 02:46	WG2843707
Bromoform	U		0.0110	0.0279	1.02	09/30/2026 02:46	WG2843707
Bromomethane	U		0.0113	0.0140	1.02	09/30/2026 02:46	WG2843707
n-Butylbenzene	U		0.00697	0.0140	1.02	09/30/2026 02:46	WG2843707
sec-Butylbenzene	U		0.00427	0.0140	1.02	09/30/2026 02:46	WG2843707
tert-Butylbenzene	U		0.00211	0.00557	1.02	09/30/2026 02:46	WG2843707
Carbon tetrachloride	U		0.00335	0.00557	1.02	09/30/2026 02:46	WG2843707
Chlorobenzene	U		0.000956	0.00279	1.02	09/30/2026 02:46	WG2843707
Chlorodibromomethane	U		0.00179	0.00279	1.02	09/30/2026 02:46	WG2843707
Chloroethane	U		0.00634	0.0111	1.02	09/30/2026 02:46	WG2843707
Chloroform	U		0.00180	0.00279	1.02	09/30/2026 02:46	WG2843707
Chloromethane	U		0.00947	0.0140	1.02	09/30/2026 02:46	WG2843707
2-Chlorotoluene	U		0.00144	0.00279	1.02	09/30/2026 02:46	WG2843707
4-Chlorotoluene	U		0.00172	0.00557	1.02	09/30/2026 02:46	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0119	0.0279	1.02	09/30/2026 02:46	WG2843707
1,2-Dibromoethane	U		0.00141	0.00279	1.02	09/30/2026 02:46	WG2843707
Dibromomethane	U		0.00199	0.00557	1.02	09/30/2026 02:46	WG2843707
1,2-Dichlorobenzene	U		0.00174	0.00557	1.02	09/30/2026 02:46	WG2843707
1,3-Dichlorobenzene	U		0.00184	0.00557	1.02	09/30/2026 02:46	WG2843707
1,4-Dichlorobenzene	U		0.00196	0.00557	1.02	09/30/2026 02:46	WG2843707
Dichlorodifluoromethane	U		0.00485	0.00557	1.02	09/30/2026 02:46	WG2843707
1,1-Dichloroethane	U		0.00113	0.00279	1.02	09/30/2026 02:46	WG2843707
1,2-Dichloroethane	U		0.00163	0.00279	1.02	09/30/2026 02:46	WG2843707
1,1-Dichloroethene	U		0.00170	0.00279	1.02	09/30/2026 02:46	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00144	0.00279	1.02	09/30/2026 02:46	WG2843707
trans-1,2-Dichloroethene	U		0.00116	0.00557	1.02	09/30/2026 02:46	WG2843707
1,2-Dichloropropane	U		0.00214	0.00557	1.02	09/30/2026 02:46	WG2843707
1,1-Dichloropropene	U		0.00154	0.00557	1.02	09/30/2026 02:46	WG2843707
1,3-Dichloropropane	U		0.00180	0.00557	1.02	09/30/2026 02:46	WG2843707
cis-1,3-Dichloropropene	U		0.00117	0.00279	1.02	09/30/2026 02:46	WG2843707
trans-1,3-Dichloropropene	U		0.00117	0.00557	1.02	09/30/2026 02:46	WG2843707
2,2-Dichloropropane	U		0.00225	0.00279	1.02	09/30/2026 02:46	WG2843707
Di-isopropyl ether	U		0.000856	0.00111	1.02	09/30/2026 02:46	WG2843707
Ethylbenzene	U		0.00110	0.00279	1.02	09/30/2026 02:46	WG2843707
Hexachloro-1,3-butadiene	U		0.0116	0.0279	1.02	09/30/2026 02:46	WG2843707
Isopropylbenzene	U		0.00113	0.00279	1.02	09/30/2026 02:46	WG2843707
p-Isopropyltoluene	U		0.00237	0.00557	1.02	09/30/2026 02:46	WG2843707
2-Butanone (MEK)	U		0.0989	0.111	1.02	09/30/2026 02:46	WG2843707
Methylene Chloride	U		0.0122	0.0279	1.02	09/30/2026 02:46	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0279	1.02	09/30/2026 02:46	WG2843707
Methyl tert-butyl ether	U		0.000861	0.00111	1.02	09/30/2026 02:46	WG2843707
Naphthalene	U		0.00850	0.0140	1.02	09/30/2026 02:46	WG2843707
n-Propylbenzene	U		0.00188	0.00557	1.02	09/30/2026 02:46	WG2843707
Styrene	U		0.00496	0.0140	1.02	09/30/2026 02:46	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00145	0.00279	1.02	09/30/2026 02:46	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00129	0.00279	1.02	09/30/2026 02:46	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00314	0.00557	1.02	09/30/2026 02:46	WG2843707
Tetrachloroethene	U		0.00169	0.00279	1.02	09/30/2026 02:46	WG2843707
Toluene	U		0.00322	0.00557	1.02	09/30/2026 02:46	WG2843707
1,2,3-Trichlorobenzene	U		0.00779	0.0140	1.02	09/30/2026 02:46	WG2843707
1,2,4-Trichlorobenzene	U		0.00604	0.0140	1.02	09/30/2026 02:46	WG2843707
1,1,1-Trichloroethane	U		0.00162	0.00279	1.02	09/30/2026 02:46	WG2843707
1,1,2-Trichloroethane	U		0.00150	0.00279	1.02	09/30/2026 02:46	WG2843707
Trichloroethene	U		0.000993	0.00111	1.02	09/30/2026 02:46	WG2843707
Trichlorofluoromethane	U		0.00291	0.00446	1.02	09/30/2026 02:46	WG2843707
1,2,3-Trichloropropane	U		0.00682	0.0140	1.02	09/30/2026 02:46	WG2843707
1,2,4-Trimethylbenzene	U		0.00265	0.00557	1.02	09/30/2026 02:46	WG2843707
1,2,3-Trimethylbenzene	U		0.00203	0.00557	1.02	09/30/2026 02:46	WG2843707
1,3,5-Trimethylbenzene	U		0.00255	0.00557	1.02	09/30/2026 02:46	WG2843707
Vinyl chloride	U		0.00224	0.00279	1.02	09/30/2026 02:46	WG2843707
Xylenes, Total	U		0.00312	0.00724	1.02	09/30/2026 02:46	WG2843707
(S) Toluene-d8	*95.0*			*75.0-131*		*09/30/2026 02:46*	WG2843707
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*09/30/2026 02:46*	WG2843707
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/30/2026 02:46*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0108	0.0216	1.03	09/30/2026 19:47	WG2843849
Dalapon	U		0.00786	0.0216	1.03	09/30/2026 19:47	WG2843849
2,4-DB	U		0.00866	0.0216	1.03	09/30/2026 19:47	WG2843849
Dicamba	U		0.0105	0.0216	1.03	09/30/2026 19:47	WG2843849
Dichloroprop	U		0.00603	0.0216	1.03	09/30/2026 19:47	WG2843849
Dinoseb	U		0.00537	0.0216	1.03	09/30/2026 19:47	WG2843849
MCPA	U		0.0101	0.0216	1.03	09/30/2026 19:47	WG2843849
MCPP	U		0.00562	0.0216	1.03	09/30/2026 19:47	WG2843849
2,4,5-T	U		0.00979	0.0216	1.03	09/30/2026 19:47	WG2843849
2,4,5-TP (Silvex)	U		0.00595	0.0216	1.03	09/30/2026 19:47	WG2843849
(S) 2,4-DB-D3	*100*			*70.0-130*		*09/30/2026 19:47*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00675	0.0209	1	10/01/2026 18:40	WG2843884
Alpha BHC	U		0.00667	0.0209	1	10/01/2026 18:40	WG2843884
Beta BHC	U		0.00659	0.0209	1	10/01/2026 18:40	WG2843884
Delta BHC	U		0.00665	0.0209	1	10/01/2026 18:40	WG2843884
Gamma BHC	U		0.00708	0.0209	1	10/01/2026 18:40	WG2843884
Chlordane	U		0.104	0.314	1	10/01/2026 18:40	WG2843884
4,4-DDD	U		0.00722	0.0209	1	10/01/2026 18:40	WG2843884
4,4-DDE	U		0.00704	0.0209	1	10/01/2026 18:40	WG2843884
4,4-DDT	U		0.00802	0.0209	1	10/01/2026 18:40	WG2843884
Dieldrin	U		0.00730	0.0209	1	10/01/2026 18:40	WG2843884
Endosulfan I	U		0.00632	0.0209	1	10/01/2026 18:40	WG2843884
Endosulfan II	U		0.00692	0.0209	1	10/01/2026 18:40	WG2843884
Endosulfan sulfate	U		0.00672	0.0209	1	10/01/2026 18:40	WG2843884
Endrin	U		0.00781	0.0209	1	10/01/2026 18:40	WG2843884
Endrin aldehyde	U		0.00618	0.0209	1	10/01/2026 18:40	WG2843884
Endrin ketone	U		0.00727	0.0209	1	10/01/2026 18:40	WG2843884
Heptachlor	U		0.00725	0.0209	1	10/01/2026 18:40	WG2843884
Heptachlor epoxide	U		0.00680	0.0209	1	10/01/2026 18:40	WG2843884
Hexachlorobenzene	U		0.00636	0.0209	1	10/01/2026 18:40	WG2843884
Methoxychlor	U		0.00844	0.0209	1	10/01/2026 18:40	WG2843884
Toxaphene	U		0.224	0.419	1	10/01/2026 18:40	WG2843884
(S) Decachlorobiphenyl	*77.5*			*10.0-135*		*10/01/2026 18:40*	WG2843884
(S) Tetrachloro-m-xylene	*72.7*			*10.0-139*		*10/01/2026 18:40*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0107	0.0356	1	10/01/2026 18:40	WG2843884
PCB 1221	U		0.0112	0.0356	1	10/01/2026 18:40	WG2843884
PCB 1232	U		0.00939	0.0356	1	10/01/2026 18:40	WG2843884
PCB 1242	U		0.0106	0.0356	1	10/01/2026 18:40	WG2843884
PCB 1248	U		0.0130	0.0178	1	10/01/2026 18:40	WG2843884
PCB 1254	U		0.0109	0.0178	1	10/01/2026 18:40	WG2843884
PCB 1260	U		0.0115	0.0178	1	10/01/2026 18:40	WG2843884
(S) Decachlorobiphenyl	*79.5*			*10.0-135*		*10/01/2026 18:40*	WG2843884
(S) Tetrachloro-m-xylene	*77.0*			*10.0-139*		*10/01/2026 18:40*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00564	0.0349	1	10/02/2026 13:41	WG2843887
Acenaphthylene	U		0.00593	0.0349	1	10/02/2026 13:41	WG2843887
Anthracene	U		0.00428	0.0349	1	10/02/2026 13:41	WG2843887
Benzidine	U	C3 J4	1.05	1.75	1	10/02/2026 13:41	WG2843887
Benzo(a)anthracene	U		0.00398	0.0349	1	10/02/2026 13:41	WG2843887
Benzo(b)fluoranthene	U		0.00567	0.0349	1	10/02/2026 13:41	WG2843887
Benzo(k)fluoranthene	U		0.00507	0.0349	1	10/02/2026 13:41	WG2843887
Benzo(g,h,i)perylene	U		0.00674	0.0349	1	10/02/2026 13:41	WG2843887
Benzo(a)pyrene	U		0.00699	0.0349	1	10/02/2026 13:41	WG2843887
Bis(2-chlorethoxy)methane	U		0.0378	0.349	1	10/02/2026 13:41	WG2843887
Bis(2-chloroethyl)ether	U		0.0658	0.349	1	10/02/2026 13:41	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0747	0.349	1	10/02/2026 13:41	WG2843887
4-Bromophenyl-phenylether	U		0.0497	0.349	1	10/02/2026 13:41	WG2843887
2-Chloronaphthalene	U		0.00519	0.0349	1	10/02/2026 13:41	WG2843887
4-Chlorophenyl-phenylether	U		0.0497	0.349	1	10/02/2026 13:41	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00362	0.0349	1	10/02/2026 13:41	WG2843887
Dibenz(a,h)anthracene	U		0.00615	0.0349	1	10/02/2026 13:41	WG2843887
1,2-Dichlorobenzene	U		0.0299	0.349	1	10/02/2026 13:41	WG2843887
1,3-Dichlorobenzene	U		0.0304	0.349	1	10/02/2026 13:41	WG2843887
1,4-Dichlorobenzene	U		0.0299	0.349	1	10/02/2026 13:41	WG2843887
3,3-Dichlorobenzidine	U		0.133	0.349	1	10/02/2026 13:41	WG2843887
2,4-Dinitrotoluene	U		0.0691	0.349	1	10/02/2026 13:41	WG2843887
2,6-Dinitrotoluene	U		0.0657	0.349	1	10/02/2026 13:41	WG2843887
Fluoranthene	U		0.00449	0.0349	1	10/02/2026 13:41	WG2843887
Fluorene	U		0.00520	0.0349	1	10/02/2026 13:41	WG2843887
Hexachlorobenzene	U		0.0569	0.349	1	10/02/2026 13:41	WG2843887
Hexachloro-1,3-butadiene	U		0.0553	0.349	1	10/02/2026 13:41	WG2843887
Hexachlorocyclopentadiene	U		0.107	0.349	1	10/02/2026 13:41	WG2843887
Hexachloroethane	U		0.0429	0.349	1	10/02/2026 13:41	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00700	0.0349	1	10/02/2026 13:41	WG2843887
Isophorone	U		0.0439	0.349	1	10/02/2026 13:41	WG2843887
Naphthalene	U		0.0122	0.0349	1	10/02/2026 13:41	WG2843887
Nitrobenzene	U		0.0471	0.349	1	10/02/2026 13:41	WG2843887
n-Nitrosodimethylamine	U		0.0818	0.349	1	10/02/2026 13:41	WG2843887
n-Nitrosodiphenylamine	U		0.0447	0.349	1	10/02/2026 13:41	WG2843887
n-Nitrosodi-n-propylamine	U		0.0553	0.349	1	10/02/2026 13:41	WG2843887
Phenanthrene	U		0.00383	0.0349	1	10/02/2026 13:41	WG2843887
Benzylbutyl phthalate	U		0.0675	0.349	1	10/02/2026 13:41	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0688	0.349	1	10/02/2026 13:41	WG2843887
Di-n-butyl phthalate	U		0.0469	0.349	1	10/02/2026 13:41	WG2843887
Diethyl phthalate	U		0.0540	0.349	1	10/02/2026 13:41	WG2843887
Dimethyl phthalate	U		0.0468	0.349	1	10/02/2026 13:41	WG2843887
Di-n-octyl phthalate	U		0.154	0.349	1	10/02/2026 13:41	WG2843887
Pyrene	U		0.00390	0.0349	1	10/02/2026 13:41	WG2843887
1,2,4-Trichlorobenzene	U		0.0413	0.349	1	10/02/2026 13:41	WG2843887
4-Chloro-3-methylphenol	U		0.0544	0.349	1	10/02/2026 13:41	WG2843887
2-Chlorophenol	U		0.0362	0.349	1	10/02/2026 13:41	WG2843887
2,4-Dichlorophenol	U		0.0459	0.349	1	10/02/2026 13:41	WG2843887
2,4-Dimethylphenol	U	C3	0.186	0.349	1	10/02/2026 13:41	WG2843887
4,6-Dinitro-2-methylphenol	U		0.107	0.349	1	10/02/2026 13:41	WG2843887
2,4-Dinitrophenol	U		0.133	0.349	1	10/02/2026 13:41	WG2843887
2-Nitrophenol	U		0.0517	0.349	1	10/02/2026 13:41	WG2843887
4-Nitrophenol	U		0.111	0.349	1	10/02/2026 13:41	WG2843887
Pentachlorophenol	U	C3	0.131	0.349	1	10/02/2026 13:41	WG2843887
Phenol	U		0.0593	0.349	1	10/02/2026 13:41	WG2843887
2,4,6-Trichlorophenol	U		0.0833	0.349	1	10/02/2026 13:41	WG2843887
(S) 2-Fluorophenol	*66.9*			*12.0-120*		*10/02/2026 13:41*	WG2843887
(S) Phenol-d5	*60.4*			*10.0-120*		*10/02/2026 13:41*	WG2843887
(S) Nitrobenzene-d5	*59.3*			*10.0-122*		*10/02/2026 13:41*	WG2843887
(S) 2-Fluorobiphenyl	*57.8*			*15.0-120*		*10/02/2026 13:41*	WG2843887
(S) 2,4,6-Tribromophenol	*54.8*			*10.0-127*		*10/02/2026 13:41*	WG2843887
(S) p-Terphenyl-d14	*64.9*			*10.0-120*		*10/02/2026 13:41*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	09/30/2026 05:25	WG2843538

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0245	J	0.0230	0.0446	1	10/01/2026 20:58	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.770	2.23	1	09/30/2026 15:32	WG2843802
Arsenic	10.5		0.933	2.23	1	09/30/2026 15:32	WG2843802
Beryllium	1.24		0.0532	0.223	1	09/30/2026 15:32	WG2843802
Cadmium	0.125	J	0.0728	0.557	1	09/30/2026 15:32	WG2843802
Chromium	21.6		0.239	1.11	1	09/30/2026 15:32	WG2843802
Copper	49.1		0.398	2.23	1	09/30/2026 15:32	WG2843802
Lead	25.1		0.363	0.557	1	09/30/2026 15:32	WG2843802
Nickel	35.8		0.223	2.23	1	09/30/2026 15:32	WG2843802
Selenium	U		1.19	2.23	1	09/30/2026 15:32	WG2843802
Silver	U		0.142	1.11	1	09/30/2026 15:32	WG2843802
Thallium	U		0.577	2.23	1	09/30/2026 15:32	WG2843802
Zinc	115		1.09	5.57	1	09/30/2026 15:32	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0943	0.135	1.11	09/30/2026 03:05	WG2843707
Acrylonitrile	U		0.0109	0.0169	1.11	09/30/2026 03:05	WG2843707
Benzene	U		0.000961	0.00135	1.11	09/30/2026 03:05	WG2843707
Bromobenzene	U		0.00528	0.0169	1.11	09/30/2026 03:05	WG2843707
Bromodichloromethane	U		0.00158	0.00339	1.11	09/30/2026 03:05	WG2843707
Bromoform	U		0.0134	0.0339	1.11	09/30/2026 03:05	WG2843707
Bromomethane	U		0.0136	0.0169	1.11	09/30/2026 03:05	WG2843707
n-Butylbenzene	U		0.00845	0.0169	1.11	09/30/2026 03:05	WG2843707
sec-Butylbenzene	U		0.00518	0.0169	1.11	09/30/2026 03:05	WG2843707
tert-Butylbenzene	U		0.00256	0.00676	1.11	09/30/2026 03:05	WG2843707
Carbon tetrachloride	U		0.00407	0.00676	1.11	09/30/2026 03:05	WG2843707
Chlorobenzene	U		0.00116	0.00339	1.11	09/30/2026 03:05	WG2843707
Chlorodibromomethane	U		0.00218	0.00339	1.11	09/30/2026 03:05	WG2843707
Chloroethane	U		0.00770	0.0135	1.11	09/30/2026 03:05	WG2843707
Chloroform	U		0.00219	0.00339	1.11	09/30/2026 03:05	WG2843707
Chloromethane	U		0.0115	0.0169	1.11	09/30/2026 03:05	WG2843707
2-Chlorotoluene	U		0.00174	0.00339	1.11	09/30/2026 03:05	WG2843707
4-Chlorotoluene	U		0.00208	0.00676	1.11	09/30/2026 03:05	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0145	0.0339	1.11	09/30/2026 03:05	WG2843707
1,2-Dibromoethane	U		0.00171	0.00339	1.11	09/30/2026 03:05	WG2843707
Dibromomethane	U		0.00241	0.00676	1.11	09/30/2026 03:05	WG2843707
1,2-Dichlorobenzene	U		0.00211	0.00676	1.11	09/30/2026 03:05	WG2843707
1,3-Dichlorobenzene	U		0.00223	0.00676	1.11	09/30/2026 03:05	WG2843707
1,4-Dichlorobenzene	U		0.00236	0.00676	1.11	09/30/2026 03:05	WG2843707
Dichlorodifluoromethane	U		0.00588	0.00676	1.11	09/30/2026 03:05	WG2843707
1,1-Dichloroethane	U		0.00136	0.00339	1.11	09/30/2026 03:05	WG2843707
1,2-Dichloroethane	U		0.00197	0.00339	1.11	09/30/2026 03:05	WG2843707
1,1-Dichloroethene	U		0.00207	0.00339	1.11	09/30/2026 03:05	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00174	0.00339	1.11	09/30/2026 03:05	WG2843707
trans-1,2-Dichloroethene	U		0.00140	0.00676	1.11	09/30/2026 03:05	WG2843707
1,2-Dichloropropane	U		0.00259	0.00676	1.11	09/30/2026 03:05	WG2843707
1,1-Dichloropropene	U		0.00186	0.00676	1.11	09/30/2026 03:05	WG2843707
1,3-Dichloropropane	U		0.00219	0.00676	1.11	09/30/2026 03:05	WG2843707
cis-1,3-Dichloropropene	U		0.00143	0.00339	1.11	09/30/2026 03:05	WG2843707
trans-1,3-Dichloropropene	U		0.00143	0.00676	1.11	09/30/2026 03:05	WG2843707
2,2-Dichloropropane	U		0.00273	0.00339	1.11	09/30/2026 03:05	WG2843707
Di-isopropyl ether	U		0.00104	0.00135	1.11	09/30/2026 03:05	WG2843707
Ethylbenzene	U		0.00134	0.00339	1.11	09/30/2026 03:05	WG2843707
Hexachloro-1,3-butadiene	U		0.0141	0.0339	1.11	09/30/2026 03:05	WG2843707
Isopropylbenzene	U		0.00136	0.00339	1.11	09/30/2026 03:05	WG2843707
p-Isopropyltoluene	U		0.00288	0.00676	1.11	09/30/2026 03:05	WG2843707
2-Butanone (MEK)	U		0.120	0.135	1.11	09/30/2026 03:05	WG2843707
Methylene Chloride	U		0.0149	0.0339	1.11	09/30/2026 03:05	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0134	0.0339	1.11	09/30/2026 03:05	WG2843707
Methyl tert-butyl ether	U		0.00105	0.00135	1.11	09/30/2026 03:05	WG2843707
Naphthalene	U		0.0103	0.0169	1.11	09/30/2026 03:05	WG2843707
n-Propylbenzene	U		0.00229	0.00676	1.11	09/30/2026 03:05	WG2843707
Styrene	U		0.00602	0.0169	1.11	09/30/2026 03:05	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00175	0.00339	1.11	09/30/2026 03:05	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00157	0.00339	1.11	09/30/2026 03:05	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00380	0.00676	1.11	09/30/2026 03:05	WG2843707
Tetrachloroethene	U		0.00206	0.00339	1.11	09/30/2026 03:05	WG2843707
Toluene	U		0.00391	0.00676	1.11	09/30/2026 03:05	WG2843707
1,2,3-Trichlorobenzene	U		0.00945	0.0169	1.11	09/30/2026 03:05	WG2843707
1,2,4-Trichlorobenzene	U		0.00733	0.0169	1.11	09/30/2026 03:05	WG2843707
1,1,1-Trichloroethane	U		0.00196	0.00339	1.11	09/30/2026 03:05	WG2843707
1,1,2-Trichloroethane	U		0.00182	0.00339	1.11	09/30/2026 03:05	WG2843707
Trichloroethene	U		0.00120	0.00135	1.11	09/30/2026 03:05	WG2843707
Trichlorofluoromethane	U		0.00353	0.00541	1.11	09/30/2026 03:05	WG2843707
1,2,3-Trichloropropane	U		0.00827	0.0169	1.11	09/30/2026 03:05	WG2843707
1,2,4-Trimethylbenzene	U		0.00322	0.00676	1.11	09/30/2026 03:05	WG2843707
1,2,3-Trimethylbenzene	U		0.00246	0.00676	1.11	09/30/2026 03:05	WG2843707
1,3,5-Trimethylbenzene	U		0.00308	0.00676	1.11	09/30/2026 03:05	WG2843707
Vinyl chloride	U		0.00272	0.00339	1.11	09/30/2026 03:05	WG2843707
Xylenes, Total	U		0.00379	0.00880	1.11	09/30/2026 03:05	WG2843707
(S) Toluene-d8	*95.8*			*75.0-131*		*09/30/2026 03:05*	WG2843707
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*09/30/2026 03:05*	WG2843707
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*09/30/2026 03:05*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0111	0.0223	1	09/30/2026 20:01	WG2843849
Dalapon	U		0.00813	0.0223	1	09/30/2026 20:01	WG2843849
2,4-DB	U		0.00895	0.0223	1	09/30/2026 20:01	WG2843849
Dicamba	U		0.0109	0.0223	1	09/30/2026 20:01	WG2843849
Dichloroprop	U		0.00623	0.0223	1	09/30/2026 20:01	WG2843849
Dinoseb	U		0.00555	0.0223	1	09/30/2026 20:01	WG2843849
MCPA	U		0.0104	0.0223	1	09/30/2026 20:01	WG2843849
MCPP	U		0.00581	0.0223	1	09/30/2026 20:01	WG2843849
2,4,5-T	U		0.0101	0.0223	1	09/30/2026 20:01	WG2843849
2,4,5-TP (Silvex)	U		0.00614	0.0223	1	09/30/2026 20:01	WG2843849
(S) 2,4-DB-D3	*100*			*70.0-130*		*09/30/2026 20:01*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00719	0.0223	1	10/01/2026 18:51	WG2843884
Alpha BHC	U		0.00710	0.0223	1	10/01/2026 18:51	WG2843884
Beta BHC	U		0.00702	0.0223	1	10/01/2026 18:51	WG2843884
Delta BHC	U		0.00708	0.0223	1	10/01/2026 18:51	WG2843884
Gamma BHC	U		0.00754	0.0223	1	10/01/2026 18:51	WG2843884
Chlordane	U		0.110	0.334	1	10/01/2026 18:51	WG2843884
4,4-DDD	U		0.00769	0.0223	1	10/01/2026 18:51	WG2843884
4,4-DDE	U		0.00750	0.0223	1	10/01/2026 18:51	WG2843884
4,4-DDT	U		0.00854	0.0223	1	10/01/2026 18:51	WG2843884
Dieldrin	U		0.00777	0.0223	1	10/01/2026 18:51	WG2843884
Endosulfan I	U		0.00673	0.0223	1	10/01/2026 18:51	WG2843884
Endosulfan II	U		0.00737	0.0223	1	10/01/2026 18:51	WG2843884
Endosulfan sulfate	U		0.00716	0.0223	1	10/01/2026 18:51	WG2843884
Endrin	U		0.00832	0.0223	1	10/01/2026 18:51	WG2843884
Endrin aldehyde	U		0.00658	0.0223	1	10/01/2026 18:51	WG2843884
Endrin ketone	U		0.00775	0.0223	1	10/01/2026 18:51	WG2843884
Heptachlor	U		0.00773	0.0223	1	10/01/2026 18:51	WG2843884
Heptachlor epoxide	U		0.00725	0.0223	1	10/01/2026 18:51	WG2843884
Hexachlorobenzene	U		0.00678	0.0223	1	10/01/2026 18:51	WG2843884
Methoxychlor	U		0.00899	0.0223	1	10/01/2026 18:51	WG2843884
Toxaphene	U		0.239	0.446	1	10/01/2026 18:51	WG2843884
(S) Decachlorobiphenyl	*79.8*			*10.0-135*		*10/01/2026 18:51*	WG2843884
(S) Tetrachloro-m-xylene	*73.3*			*10.0-139*		*10/01/2026 18:51*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0114	0.0379	1	10/01/2026 18:51	WG2843884
PCB 1221	U		0.0119	0.0379	1	10/01/2026 18:51	WG2843884
PCB 1232	U		0.0100	0.0379	1	10/01/2026 18:51	WG2843884
PCB 1242	U		0.0113	0.0379	1	10/01/2026 18:51	WG2843884
PCB 1248	U		0.0138	0.0190	1	10/01/2026 18:51	WG2843884
PCB 1254	U		0.0116	0.0190	1	10/01/2026 18:51	WG2843884
PCB 1260	U		0.0123	0.0190	1	10/01/2026 18:51	WG2843884
(S) Decachlorobiphenyl	*81.1*			*10.0-135*		*10/01/2026 18:51*	WG2843884
(S) Tetrachloro-m-xylene	*78.1*			*10.0-139*		*10/01/2026 18:51*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00601	0.0371	1	10/02/2026 13:19	WG2843887
Acenaphthylene	U		0.00632	0.0371	1	10/02/2026 13:19	WG2843887
Anthracene	U		0.00456	0.0371	1	10/02/2026 13:19	WG2843887
Benzidine	U	C3 J4	1.11	1.86	1	10/02/2026 13:19	WG2843887
Benzo(a)anthracene	U		0.00424	0.0371	1	10/02/2026 13:19	WG2843887
Benzo(b)fluoranthene	U		0.00604	0.0371	1	10/02/2026 13:19	WG2843887
Benzo(k)fluoranthene	U		0.00540	0.0371	1	10/02/2026 13:19	WG2843887
Benzo(g,h,i)perylene	U		0.00718	0.0371	1	10/02/2026 13:19	WG2843887
Benzo(a)pyrene	U		0.00745	0.0371	1	10/02/2026 13:19	WG2843887
Bis(2-chlorethoxy)methane	U		0.0402	0.371	1	10/02/2026 13:19	WG2843887
Bis(2-chloroethyl)ether	U		0.0701	0.371	1	10/02/2026 13:19	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0796	0.371	1	10/02/2026 13:19	WG2843887
4-Bromophenyl-phenylether	U		0.0530	0.371	1	10/02/2026 13:19	WG2843887
2-Chloronaphthalene	U		0.00553	0.0371	1	10/02/2026 13:19	WG2843887
4-Chlorophenyl-phenylether	U		0.0530	0.371	1	10/02/2026 13:19	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00386	0.0371	1	10/02/2026 13:19	WG2843887
Dibenz(a,h)anthracene	U		0.00656	0.0371	1	10/02/2026 13:19	WG2843887
1,2-Dichlorobenzene	U		0.0319	0.371	1	10/02/2026 13:19	WG2843887
1,3-Dichlorobenzene	U		0.0323	0.371	1	10/02/2026 13:19	WG2843887
1,4-Dichlorobenzene	U		0.0319	0.371	1	10/02/2026 13:19	WG2843887
3,3-Dichlorobenzidine	U		0.142	0.371	1	10/02/2026 13:19	WG2843887
2,4-Dinitrotoluene	U		0.0736	0.371	1	10/02/2026 13:19	WG2843887
2,6-Dinitrotoluene	U		0.0700	0.371	1	10/02/2026 13:19	WG2843887
Fluoranthene	U		0.00478	0.0371	1	10/02/2026 13:19	WG2843887
Fluorene	U		0.00554	0.0371	1	10/02/2026 13:19	WG2843887
Hexachlorobenzene	U		0.0606	0.371	1	10/02/2026 13:19	WG2843887
Hexachloro-1,3-butadiene	U		0.0589	0.371	1	10/02/2026 13:19	WG2843887
Hexachlorocyclopentadiene	U		0.114	0.371	1	10/02/2026 13:19	WG2843887
Hexachloroethane	U		0.0457	0.371	1	10/02/2026 13:19	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00746	0.0371	1	10/02/2026 13:19	WG2843887
Isophorone	U		0.0467	0.371	1	10/02/2026 13:19	WG2843887
Naphthalene	U		0.0130	0.0371	1	10/02/2026 13:19	WG2843887
Nitrobenzene	U		0.0502	0.371	1	10/02/2026 13:19	WG2843887
n-Nitrosodimethylamine	U		0.0872	0.371	1	10/02/2026 13:19	WG2843887
n-Nitrosodiphenylamine	U		0.0476	0.371	1	10/02/2026 13:19	WG2843887
n-Nitrosodi-n-propylamine	U		0.0589	0.371	1	10/02/2026 13:19	WG2843887
Phenanthrene	U		0.00408	0.0371	1	10/02/2026 13:19	WG2843887
Benzylbutyl phthalate	U		0.0719	0.371	1	10/02/2026 13:19	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0732	0.371	1	10/02/2026 13:19	WG2843887
Di-n-butyl phthalate	U		0.0499	0.371	1	10/02/2026 13:19	WG2843887
Diethyl phthalate	U		0.0575	0.371	1	10/02/2026 13:19	WG2843887
Dimethyl phthalate	U		0.0498	0.371	1	10/02/2026 13:19	WG2843887
Di-n-octyl phthalate	U		0.164	0.371	1	10/02/2026 13:19	WG2843887
Pyrene	U		0.00416	0.0371	1	10/02/2026 13:19	WG2843887
1,2,4-Trichlorobenzene	U		0.0440	0.371	1	10/02/2026 13:19	WG2843887
4-Chloro-3-methylphenol	U		0.0580	0.371	1	10/02/2026 13:19	WG2843887
2-Chlorophenol	U		0.0386	0.371	1	10/02/2026 13:19	WG2843887
2,4-Dichlorophenol	U		0.0489	0.371	1	10/02/2026 13:19	WG2843887
2,4-Dimethylphenol	U	C3	0.198	0.371	1	10/02/2026 13:19	WG2843887
4,6-Dinitro-2-methylphenol	U		0.114	0.371	1	10/02/2026 13:19	WG2843887
2,4-Dinitrophenol	U		0.142	0.371	1	10/02/2026 13:19	WG2843887
2-Nitrophenol	U		0.0551	0.371	1	10/02/2026 13:19	WG2843887
4-Nitrophenol	U		0.118	0.371	1	10/02/2026 13:19	WG2843887
Pentachlorophenol	U	C3	0.139	0.371	1	10/02/2026 13:19	WG2843887
Phenol	U		0.0632	0.371	1	10/02/2026 13:19	WG2843887
2,4,6-Trichlorophenol	U		0.0887	0.371	1	10/02/2026 13:19	WG2843887
(S) 2-Fluorophenol	*68.2*			*12.0-120*		*10/02/2026 13:19*	WG2843887
(S) Phenol-d5	*62.5*			*10.0-120*		*10/02/2026 13:19*	WG2843887
(S) Nitrobenzene-d5	*60.9*			*10.0-122*		*10/02/2026 13:19*	WG2843887
(S) 2-Fluorobiphenyl	*61.2*			*15.0-120*		*10/02/2026 13:19*	WG2843887
(S) 2,4,6-Tribromophenol	*51.7*			*10.0-127*		*10/02/2026 13:19*	WG2843887
(S) p-Terphenyl-d14	*68.5*			*10.0-120*		*10/02/2026 13:19*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	09/30/2026 04:50	WG2843819

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0228	0.0443	1	10/01/2026 21:01	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.766	2.22	1	09/30/2026 15:34	WG2843802
Arsenic	6.18		0.928	2.22	1	09/30/2026 15:34	WG2843802
Beryllium	0.929		0.0529	0.222	1	09/30/2026 15:34	WG2843802
Cadmium	0.148	J	0.0724	0.554	1	09/30/2026 15:34	WG2843802
Chromium	20.5		0.237	1.11	1	09/30/2026 15:34	WG2843802
Copper	42.0		0.396	2.22	1	09/30/2026 15:34	WG2843802
Lead	20.4		0.361	0.554	1	09/30/2026 15:34	WG2843802
Nickel	33.2		0.222	2.22	1	09/30/2026 15:34	WG2843802
Selenium	U		1.19	2.22	1	09/30/2026 15:34	WG2843802
Silver	U		0.141	1.11	1	09/30/2026 15:34	WG2843802
Thallium	U		0.574	2.22	1	09/30/2026 15:34	WG2843802
Zinc	96.5		1.08	5.54	1	09/30/2026 15:34	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.101	0.145	1.21	09/30/2026 03:25	WG2843707
Acrylonitrile	U		0.0116	0.0181	1.21	09/30/2026 03:25	WG2843707
Benzene	U		0.00103	0.00145	1.21	09/30/2026 03:25	WG2843707
Bromobenzene	U		0.00566	0.0181	1.21	09/30/2026 03:25	WG2843707
Bromodichloromethane	U		0.00170	0.00363	1.21	09/30/2026 03:25	WG2843707
Bromoform	U		0.0144	0.0363	1.21	09/30/2026 03:25	WG2843707
Bromomethane	U		0.0146	0.0181	1.21	09/30/2026 03:25	WG2843707
n-Butylbenzene	U		0.00906	0.0181	1.21	09/30/2026 03:25	WG2843707
sec-Butylbenzene	U		0.00555	0.0181	1.21	09/30/2026 03:25	WG2843707
tert-Butylbenzene	U		0.00274	0.00725	1.21	09/30/2026 03:25	WG2843707
Carbon tetrachloride	U		0.00436	0.00725	1.21	09/30/2026 03:25	WG2843707
Chlorobenzene	U		0.00125	0.00363	1.21	09/30/2026 03:25	WG2843707
Chlorodibromomethane	U		0.00234	0.00363	1.21	09/30/2026 03:25	WG2843707
Chloroethane	U		0.00824	0.0145	1.21	09/30/2026 03:25	WG2843707
Chloroform	U		0.00235	0.00363	1.21	09/30/2026 03:25	WG2843707
Chloromethane	U		0.0123	0.0181	1.21	09/30/2026 03:25	WG2843707
2-Chlorotoluene	U		0.00187	0.00363	1.21	09/30/2026 03:25	WG2843707
4-Chlorotoluene	U		0.00223	0.00725	1.21	09/30/2026 03:25	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0155	0.0363	1.21	09/30/2026 03:25	WG2843707
1,2-Dibromoethane	U		0.00182	0.00363	1.21	09/30/2026 03:25	WG2843707
Dibromomethane	U		0.00258	0.00725	1.21	09/30/2026 03:25	WG2843707
1,2-Dichlorobenzene	U		0.00226	0.00725	1.21	09/30/2026 03:25	WG2843707
1,3-Dichlorobenzene	U		0.00240	0.00725	1.21	09/30/2026 03:25	WG2843707
1,4-Dichlorobenzene	U		0.00254	0.00725	1.21	09/30/2026 03:25	WG2843707
Dichlorodifluoromethane	U		0.00630	0.00725	1.21	09/30/2026 03:25	WG2843707
1,1-Dichloroethane	U		0.00146	0.00363	1.21	09/30/2026 03:25	WG2843707
1,2-Dichloroethane	U		0.00212	0.00363	1.21	09/30/2026 03:25	WG2843707
1,1-Dichloroethene	U		0.00222	0.00363	1.21	09/30/2026 03:25	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00187	0.00363	1.21	09/30/2026 03:25	WG2843707
trans-1,2-Dichloroethene	U		0.00151	0.00725	1.21	09/30/2026 03:25	WG2843707
1,2-Dichloropropane	U		0.00278	0.00725	1.21	09/30/2026 03:25	WG2843707
1,1-Dichloropropene	U		0.00200	0.00725	1.21	09/30/2026 03:25	WG2843707
1,3-Dichloropropane	U		0.00235	0.00725	1.21	09/30/2026 03:25	WG2843707
cis-1,3-Dichloropropene	U		0.00152	0.00363	1.21	09/30/2026 03:25	WG2843707
trans-1,3-Dichloropropene	U		0.00152	0.00725	1.21	09/30/2026 03:25	WG2843707
2,2-Dichloropropane	U		0.00292	0.00363	1.21	09/30/2026 03:25	WG2843707
Di-isopropyl ether	U		0.00111	0.00145	1.21	09/30/2026 03:25	WG2843707
Ethylbenzene	U		0.00143	0.00363	1.21	09/30/2026 03:25	WG2843707
Hexachloro-1,3-butadiene	U		0.0151	0.0363	1.21	09/30/2026 03:25	WG2843707
Isopropylbenzene	U		0.00146	0.00363	1.21	09/30/2026 03:25	WG2843707
p-Isopropyltoluene	U		0.00309	0.00725	1.21	09/30/2026 03:25	WG2843707
2-Butanone (MEK)	U		0.128	0.145	1.21	09/30/2026 03:25	WG2843707
Methylene Chloride	U		0.0159	0.0363	1.21	09/30/2026 03:25	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0144	0.0363	1.21	09/30/2026 03:25	WG2843707
Methyl tert-butyl ether	U		0.00112	0.00145	1.21	09/30/2026 03:25	WG2843707
Naphthalene	U		0.0111	0.0181	1.21	09/30/2026 03:25	WG2843707
n-Propylbenzene	U		0.00244	0.00725	1.21	09/30/2026 03:25	WG2843707
Styrene	U		0.00645	0.0181	1.21	09/30/2026 03:25	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00188	0.00363	1.21	09/30/2026 03:25	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00168	0.00363	1.21	09/30/2026 03:25	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00407	0.00725	1.21	09/30/2026 03:25	WG2843707
Tetrachloroethene	U		0.00220	0.00363	1.21	09/30/2026 03:25	WG2843707
Toluene	U		0.00419	0.00725	1.21	09/30/2026 03:25	WG2843707
1,2,3-Trichlorobenzene	U		0.0101	0.0181	1.21	09/30/2026 03:25	WG2843707
1,2,4-Trichlorobenzene	U		0.00786	0.0181	1.21	09/30/2026 03:25	WG2843707
1,1,1-Trichloroethane	U		0.00210	0.00363	1.21	09/30/2026 03:25	WG2843707
1,1,2-Trichloroethane	U		0.00194	0.00363	1.21	09/30/2026 03:25	WG2843707
Trichloroethene	U		0.00129	0.00145	1.21	09/30/2026 03:25	WG2843707
Trichlorofluoromethane	U		0.00379	0.00580	1.21	09/30/2026 03:25	WG2843707
1,2,3-Trichloropropane	U		0.00888	0.0181	1.21	09/30/2026 03:25	WG2843707
1,2,4-Trimethylbenzene	U		0.00345	0.00725	1.21	09/30/2026 03:25	WG2843707
1,2,3-Trimethylbenzene	U		0.00264	0.00725	1.21	09/30/2026 03:25	WG2843707
1,3,5-Trimethylbenzene	U		0.00331	0.00725	1.21	09/30/2026 03:25	WG2843707
Vinyl chloride	U		0.00291	0.00363	1.21	09/30/2026 03:25	WG2843707
Xylenes, Total	U		0.00406	0.00942	1.21	09/30/2026 03:25	WG2843707
(S) Toluene-d8	*96.0*			*75.0-131*		*09/30/2026 03:25*	WG2843707
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*09/30/2026 03:25*	WG2843707
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/30/2026 03:25*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0111	0.0222	1	09/30/2026 20:14	WG2843849
Dalapon	U		0.00808	0.0222	1	09/30/2026 20:14	WG2843849
2,4-DB	U		0.00890	0.0222	1	09/30/2026 20:14	WG2843849
Dicamba	U		0.0108	0.0222	1	09/30/2026 20:14	WG2843849
Dichloroprop	U		0.00620	0.0222	1	09/30/2026 20:14	WG2843849
Dinoseb	U		0.00552	0.0222	1	09/30/2026 20:14	WG2843849
MCPA	U		0.0104	0.0222	1	09/30/2026 20:14	WG2843849
MCPP	U		0.00578	0.0222	1	09/30/2026 20:14	WG2843849
2,4,5-T	U		0.0101	0.0222	1	09/30/2026 20:14	WG2843849
2,4,5-TP (Silvex)	U		0.00611	0.0222	1	09/30/2026 20:14	WG2843849
(S) 2,4-DB-D3	*96.5*			*70.0-130*		*09/30/2026 20:14*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00715	0.0222	1	10/01/2026 19:02	WG2843884
Alpha BHC	U		0.00706	0.0222	1	10/01/2026 19:02	WG2843884
Beta BHC	U		0.00698	0.0222	1	10/01/2026 19:02	WG2843884
Delta BHC	U		0.00704	0.0222	1	10/01/2026 19:02	WG2843884
Gamma BHC	U		0.00749	0.0222	1	10/01/2026 19:02	WG2843884
Chlordane	U		0.110	0.333	1	10/01/2026 19:02	WG2843884
4,4-DDD	U		0.00765	0.0222	1	10/01/2026 19:02	WG2843884
4,4-DDE	U		0.00746	0.0222	1	10/01/2026 19:02	WG2843884
4,4-DDT	U		0.00849	0.0222	1	10/01/2026 19:02	WG2843884
Dieldrin	U		0.00773	0.0222	1	10/01/2026 19:02	WG2843884
Endosulfan I	U		0.00670	0.0222	1	10/01/2026 19:02	WG2843884
Endosulfan II	U		0.00733	0.0222	1	10/01/2026 19:02	WG2843884
Endosulfan sulfate	U		0.00712	0.0222	1	10/01/2026 19:02	WG2843884
Endrin	U		0.00827	0.0222	1	10/01/2026 19:02	WG2843884
Endrin aldehyde	U		0.00654	0.0222	1	10/01/2026 19:02	WG2843884
Endrin ketone	U		0.00770	0.0222	1	10/01/2026 19:02	WG2843884
Heptachlor	U		0.00768	0.0222	1	10/01/2026 19:02	WG2843884
Heptachlor epoxide	U		0.00721	0.0222	1	10/01/2026 19:02	WG2843884
Hexachlorobenzene	U		0.00674	0.0222	1	10/01/2026 19:02	WG2843884
Methoxychlor	U		0.00894	0.0222	1	10/01/2026 19:02	WG2843884
Toxaphene	U		0.237	0.443	1	10/01/2026 19:02	WG2843884
(S) Decachlorobiphenyl	*67.5*			*10.0-135*		*10/01/2026 19:02*	WG2843884
(S) Tetrachloro-m-xylene	*65.1*			*10.0-139*		*10/01/2026 19:02*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0113	0.0377	1	10/01/2026 19:02	WG2843884
PCB 1221	U		0.0119	0.0377	1	10/01/2026 19:02	WG2843884
PCB 1232	U		0.00994	0.0377	1	10/01/2026 19:02	WG2843884
PCB 1242	U		0.0112	0.0377	1	10/01/2026 19:02	WG2843884
PCB 1248	U		0.0137	0.0188	1	10/01/2026 19:02	WG2843884
PCB 1254	U		0.0115	0.0188	1	10/01/2026 19:02	WG2843884
PCB 1260	U		0.0122	0.0188	1	10/01/2026 19:02	WG2843884
(S) Decachlorobiphenyl	*68.1*			*10.0-135*		*10/01/2026 19:02*	WG2843884
(S) Tetrachloro-m-xylene	*69.2*			*10.0-139*		*10/01/2026 19:02*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00598	0.0369	1	10/02/2026 11:30	WG2843887
Acenaphthylene	U		0.00629	0.0369	1	10/02/2026 11:30	WG2843887
Anthracene	U		0.00453	0.0369	1	10/02/2026 11:30	WG2843887
Benzidine	U	C3 J4	1.11	1.85	1	10/02/2026 11:30	WG2843887
Benzo(a)anthracene	U		0.00421	0.0369	1	10/02/2026 11:30	WG2843887
Benzo(b)fluoranthene	U		0.00601	0.0369	1	10/02/2026 11:30	WG2843887
Benzo(k)fluoranthene	U		0.00537	0.0369	1	10/02/2026 11:30	WG2843887
Benzo(g,h,i)perylene	U		0.00714	0.0369	1	10/02/2026 11:30	WG2843887
Benzo(a)pyrene	U		0.00741	0.0369	1	10/02/2026 11:30	WG2843887
Bis(2-chlorethoxy)methane	U		0.0400	0.369	1	10/02/2026 11:30	WG2843887
Bis(2-chloroethyl)ether	U		0.0697	0.369	1	10/02/2026 11:30	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0792	0.369	1	10/02/2026 11:30	WG2843887
4-Bromophenyl-phenylether	U		0.0527	0.369	1	10/02/2026 11:30	WG2843887
2-Chloronaphthalene	U		0.00550	0.0369	1	10/02/2026 11:30	WG2843887
4-Chlorophenyl-phenylether	U		0.0527	0.369	1	10/02/2026 11:30	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00384	0.0369	1	10/02/2026 11:30	WG2843887
Dibenz(a,h)anthracene	U		0.00652	0.0369	1	10/02/2026 11:30	WG2843887
1,2-Dichlorobenzene	U		0.0317	0.369	1	10/02/2026 11:30	WG2843887
1,3-Dichlorobenzene	U		0.0321	0.369	1	10/02/2026 11:30	WG2843887
1,4-Dichlorobenzene	U		0.0317	0.369	1	10/02/2026 11:30	WG2843887
3,3-Dichlorobenzidine	U		0.141	0.369	1	10/02/2026 11:30	WG2843887
2,4-Dinitrotoluene	U		0.0732	0.369	1	10/02/2026 11:30	WG2843887
2,6-Dinitrotoluene	U		0.0696	0.369	1	10/02/2026 11:30	WG2843887
Fluoranthene	U		0.00476	0.0369	1	10/02/2026 11:30	WG2843887
Fluorene	U		0.00551	0.0369	1	10/02/2026 11:30	WG2843887
Hexachlorobenzene	U		0.0603	0.369	1	10/02/2026 11:30	WG2843887
Hexachloro-1,3-butadiene	U		0.0585	0.369	1	10/02/2026 11:30	WG2843887
Hexachlorocyclopentadiene	U		0.113	0.369	1	10/02/2026 11:30	WG2843887
Hexachloroethane	U		0.0455	0.369	1	10/02/2026 11:30	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00742	0.0369	1	10/02/2026 11:30	WG2843887
Isophorone	U		0.0464	0.369	1	10/02/2026 11:30	WG2843887
Naphthalene	U		0.0130	0.0369	1	10/02/2026 11:30	WG2843887
Nitrobenzene	U		0.0499	0.369	1	10/02/2026 11:30	WG2843887
n-Nitrosodimethylamine	U		0.0867	0.369	1	10/02/2026 11:30	WG2843887
n-Nitrosodiphenylamine	U		0.0473	0.369	1	10/02/2026 11:30	WG2843887
n-Nitrosodi-n-propylamine	U		0.0585	0.369	1	10/02/2026 11:30	WG2843887
Phenanthrene	U		0.00406	0.0369	1	10/02/2026 11:30	WG2843887
Benzylbutyl phthalate	U		0.0715	0.369	1	10/02/2026 11:30	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0728	0.369	1	10/02/2026 11:30	WG2843887
Di-n-butyl phthalate	U		0.0497	0.369	1	10/02/2026 11:30	WG2843887
Diethyl phthalate	U		0.0572	0.369	1	10/02/2026 11:30	WG2843887
Dimethyl phthalate	U		0.0496	0.369	1	10/02/2026 11:30	WG2843887
Di-n-octyl phthalate	U		0.163	0.369	1	10/02/2026 11:30	WG2843887
Pyrene	U		0.00414	0.0369	1	10/02/2026 11:30	WG2843887
1,2,4-Trichlorobenzene	U		0.0438	0.369	1	10/02/2026 11:30	WG2843887
4-Chloro-3-methylphenol	U		0.0576	0.369	1	10/02/2026 11:30	WG2843887
2-Chlorophenol	U		0.0384	0.369	1	10/02/2026 11:30	WG2843887
2,4-Dichlorophenol	U		0.0487	0.369	1	10/02/2026 11:30	WG2843887
2,4-Dimethylphenol	U	C3	0.197	0.369	1	10/02/2026 11:30	WG2843887
4,6-Dinitro-2-methylphenol	U		0.113	0.369	1	10/02/2026 11:30	WG2843887
2,4-Dinitrophenol	U		0.141	0.369	1	10/02/2026 11:30	WG2843887
2-Nitrophenol	U		0.0548	0.369	1	10/02/2026 11:30	WG2843887
4-Nitrophenol	U		0.118	0.369	1	10/02/2026 11:30	WG2843887
Pentachlorophenol	U	C3	0.139	0.369	1	10/02/2026 11:30	WG2843887
Phenol	U		0.0629	0.369	1	10/02/2026 11:30	WG2843887
2,4,6-Trichlorophenol	U		0.0882	0.369	1	10/02/2026 11:30	WG2843887
(S) 2-Fluorophenol	*66.4*			*12.0-120*		*10/02/2026 11:30*	WG2843887
(S) Phenol-d5	*60.3*			*10.0-120*		*10/02/2026 11:30*	WG2843887
(S) Nitrobenzene-d5	*60.8*			*10.0-122*		*10/02/2026 11:30*	WG2843887
(S) 2-Fluorobiphenyl	*62.0*			*15.0-120*		*10/02/2026 11:30*	WG2843887
(S) 2,4,6-Tribromophenol	*54.9*			*10.0-127*		*10/02/2026 11:30*	WG2843887
(S) p-Terphenyl-d14	*68.8*			*10.0-120*		*10/02/2026 11:30*	WG2843887

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.6		1	09/30/2026 04:50	WG2843819

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0279	J	0.0222	0.0432	1	10/01/2026 21:04	WG2844051

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.746	2.16	1	09/30/2026 15:36	WG2843802
Arsenic	8.56		0.904	2.16	1	09/30/2026 15:36	WG2843802
Beryllium	0.803		0.0515	0.216	1	09/30/2026 15:36	WG2843802
Cadmium	0.301	J	0.0705	0.540	1	09/30/2026 15:36	WG2843802
Chromium	19.7		0.231	1.08	1	09/30/2026 15:36	WG2843802
Copper	46.7		0.386	2.16	1	09/30/2026 15:36	WG2843802
Lead	20.1		0.352	0.540	1	09/30/2026 15:36	WG2843802
Nickel	37.4		0.216	2.16	1	09/30/2026 15:36	WG2843802
Selenium	1.61	J	1.16	2.16	1	09/30/2026 15:36	WG2843802
Silver	0.243	J	0.137	1.08	1	09/30/2026 15:36	WG2843802
Thallium	U		0.559	2.16	1	09/30/2026 15:36	WG2843802
Zinc	101		1.05	5.40	1	09/30/2026 15:36	WG2843802

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0899	0.129	1.12	09/30/2026 03:44	WG2843707
Acrylonitrile	U		0.0103	0.0161	1.12	09/30/2026 03:44	WG2843707
Benzene	U		0.000916	0.00129	1.12	09/30/2026 03:44	WG2843707
Bromobenzene	U		0.00503	0.0161	1.12	09/30/2026 03:44	WG2843707
Bromodichloromethane	U		0.00151	0.00322	1.12	09/30/2026 03:44	WG2843707
Bromoform	U		0.0128	0.0322	1.12	09/30/2026 03:44	WG2843707
Bromomethane	U		0.0130	0.0161	1.12	09/30/2026 03:44	WG2843707
n-Butylbenzene	U		0.00806	0.0161	1.12	09/30/2026 03:44	WG2843707
sec-Butylbenzene	U		0.00494	0.0161	1.12	09/30/2026 03:44	WG2843707
tert-Butylbenzene	U		0.00244	0.00645	1.12	09/30/2026 03:44	WG2843707
Carbon tetrachloride	U		0.00388	0.00645	1.12	09/30/2026 03:44	WG2843707
Chlorobenzene	U		0.00111	0.00322	1.12	09/30/2026 03:44	WG2843707
Chlorodibromomethane	U		0.00207	0.00322	1.12	09/30/2026 03:44	WG2843707
Chloroethane	U		0.00733	0.0129	1.12	09/30/2026 03:44	WG2843707
Chloroform	U		0.00208	0.00322	1.12	09/30/2026 03:44	WG2843707
Chloromethane	U		0.0110	0.0161	1.12	09/30/2026 03:44	WG2843707
2-Chlorotoluene	U		0.00166	0.00322	1.12	09/30/2026 03:44	WG2843707
4-Chlorotoluene	U		0.00198	0.00645	1.12	09/30/2026 03:44	WG2843707
1,2-Dibromo-3-Chloropropane	U	C3	0.0138	0.0322	1.12	09/30/2026 03:44	WG2843707
1,2-Dibromoethane	U		0.00162	0.00322	1.12	09/30/2026 03:44	WG2843707
Dibromomethane	U		0.00229	0.00645	1.12	09/30/2026 03:44	WG2843707
1,2-Dichlorobenzene	U		0.00201	0.00645	1.12	09/30/2026 03:44	WG2843707
1,3-Dichlorobenzene	U		0.00213	0.00645	1.12	09/30/2026 03:44	WG2843707
1,4-Dichlorobenzene	U		0.00226	0.00645	1.12	09/30/2026 03:44	WG2843707
Dichlorodifluoromethane	U		0.00561	0.00645	1.12	09/30/2026 03:44	WG2843707
1,1-Dichloroethane	U		0.00130	0.00322	1.12	09/30/2026 03:44	WG2843707
1,2-Dichloroethane	U		0.00189	0.00322	1.12	09/30/2026 03:44	WG2843707
1,1-Dichloroethene	U		0.00197	0.00322	1.12	09/30/2026 03:44	WG2843707

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
cis-1,2-Dichloroethene	U		0.00166	0.00322	1.12	09/30/2026 03:44	WG2843707
trans-1,2-Dichloroethene	U		0.00134	0.00645	1.12	09/30/2026 03:44	WG2843707
1,2-Dichloropropane	U		0.00248	0.00645	1.12	09/30/2026 03:44	WG2843707
1,1-Dichloropropene	U		0.00178	0.00645	1.12	09/30/2026 03:44	WG2843707
1,3-Dichloropropane	U		0.00208	0.00645	1.12	09/30/2026 03:44	WG2843707
cis-1,3-Dichloropropene	U		0.00136	0.00322	1.12	09/30/2026 03:44	WG2843707
trans-1,3-Dichloropropene	U		0.00136	0.00645	1.12	09/30/2026 03:44	WG2843707
2,2-Dichloropropane	U		0.00260	0.00322	1.12	09/30/2026 03:44	WG2843707
Di-isopropyl ether	U		0.000991	0.00129	1.12	09/30/2026 03:44	WG2843707
Ethylbenzene	U		0.00128	0.00322	1.12	09/30/2026 03:44	WG2843707
Hexachloro-1,3-butadiene	U		0.0135	0.0322	1.12	09/30/2026 03:44	WG2843707
Isopropylbenzene	U		0.00130	0.00322	1.12	09/30/2026 03:44	WG2843707
p-Isopropyltoluene	U		0.00275	0.00645	1.12	09/30/2026 03:44	WG2843707
2-Butanone (MEK)	U		0.114	0.129	1.12	09/30/2026 03:44	WG2843707
Methylene Chloride	U		0.0142	0.0322	1.12	09/30/2026 03:44	WG2843707
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0322	1.12	09/30/2026 03:44	WG2843707
Methyl tert-butyl ether	U		0.000997	0.00129	1.12	09/30/2026 03:44	WG2843707
Naphthalene	U		0.00984	0.0161	1.12	09/30/2026 03:44	WG2843707
n-Propylbenzene	U		0.00218	0.00645	1.12	09/30/2026 03:44	WG2843707
Styrene	U		0.00573	0.0161	1.12	09/30/2026 03:44	WG2843707
1,1,1,2-Tetrachloroethane	U		0.00168	0.00322	1.12	09/30/2026 03:44	WG2843707
1,1,2,2-Tetrachloroethane	U		0.00150	0.00322	1.12	09/30/2026 03:44	WG2843707
1,1,2-Trichlorotrifluoroethane	U		0.00363	0.00645	1.12	09/30/2026 03:44	WG2843707
Tetrachloroethene	U		0.00196	0.00322	1.12	09/30/2026 03:44	WG2843707
Toluene	U		0.00373	0.00645	1.12	09/30/2026 03:44	WG2843707
1,2,3-Trichlorobenzene	U		0.00901	0.0161	1.12	09/30/2026 03:44	WG2843707
1,2,4-Trichlorobenzene	U		0.00699	0.0161	1.12	09/30/2026 03:44	WG2843707
1,1,1-Trichloroethane	U		0.00186	0.00322	1.12	09/30/2026 03:44	WG2843707
1,1,2-Trichloroethane	U		0.00173	0.00322	1.12	09/30/2026 03:44	WG2843707
Trichloroethene	U		0.00115	0.00129	1.12	09/30/2026 03:44	WG2843707
Trichlorofluoromethane	U		0.00336	0.00516	1.12	09/30/2026 03:44	WG2843707
1,2,3-Trichloropropane	U		0.00789	0.0161	1.12	09/30/2026 03:44	WG2843707
1,2,4-Trimethylbenzene	U		0.00307	0.00645	1.12	09/30/2026 03:44	WG2843707
1,2,3-Trimethylbenzene	U		0.00235	0.00645	1.12	09/30/2026 03:44	WG2843707
1,3,5-Trimethylbenzene	U		0.00294	0.00645	1.12	09/30/2026 03:44	WG2843707
Vinyl chloride	U		0.00259	0.00322	1.12	09/30/2026 03:44	WG2843707
Xylenes, Total	U		0.00361	0.00838	1.12	09/30/2026 03:44	WG2843707
(S) Toluene-d8	*96.1*			*75.0-131*		*09/30/2026 03:44*	WG2843707
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*09/30/2026 03:44*	WG2843707
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/30/2026 03:44*	WG2843707

Semi-Volatile Organic Compounds (LCMS) by Method SW-846 8321

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0111	0.0222	1.03	09/30/2026 20:27	WG2843849
Dalapon	U		0.00811	0.0222	1.03	09/30/2026 20:27	WG2843849
2,4-DB	U		0.00893	0.0222	1.03	09/30/2026 20:27	WG2843849
Dicamba	U		0.0108	0.0222	1.03	09/30/2026 20:27	WG2843849
Dichloroprop	U		0.00622	0.0222	1.03	09/30/2026 20:27	WG2843849
Dinoseb	U		0.00554	0.0222	1.03	09/30/2026 20:27	WG2843849
MCPA	U		0.0104	0.0222	1.03	09/30/2026 20:27	WG2843849
MCPP	U		0.00580	0.0222	1.03	09/30/2026 20:27	WG2843849
2,4,5-T	U		0.0101	0.0222	1.03	09/30/2026 20:27	WG2843849
2,4,5-TP (Silvex)	U		0.00613	0.0222	1.03	09/30/2026 20:27	WG2843849
(S) 2,4-DB-D3	*99.5*			*70.0-130*		*09/30/2026 20:27*	WG2843849

Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00697	0.0216	1	10/01/2026 19:12	WG2843884
Alpha BHC	U		0.00688	0.0216	1	10/01/2026 19:12	WG2843884
Beta BHC	U		0.00680	0.0216	1	10/01/2026 19:12	WG2843884
Delta BHC	U		0.00686	0.0216	1	10/01/2026 19:12	WG2843884
Gamma BHC	U		0.00730	0.0216	1	10/01/2026 19:12	WG2843884
Chlordane	U		0.107	0.324	1	10/01/2026 19:12	WG2843884
4,4-DDD	U		0.00745	0.0216	1	10/01/2026 19:12	WG2843884
4,4-DDE	U		0.00727	0.0216	1	10/01/2026 19:12	WG2843884
4,4-DDT	U		0.00827	0.0216	1	10/01/2026 19:12	WG2843884
Dieldrin	U		0.00753	0.0216	1	10/01/2026 19:12	WG2843884
Endosulfan I	U		0.00652	0.0216	1	10/01/2026 19:12	WG2843884
Endosulfan II	U		0.00714	0.0216	1	10/01/2026 19:12	WG2843884
Endosulfan sulfate	U		0.00693	0.0216	1	10/01/2026 19:12	WG2843884
Endrin	U		0.00806	0.0216	1	10/01/2026 19:12	WG2843884
Endrin aldehyde	U		0.00637	0.0216	1	10/01/2026 19:12	WG2843884
Endrin ketone	U		0.00751	0.0216	1	10/01/2026 19:12	WG2843884
Heptachlor	U		0.00748	0.0216	1	10/01/2026 19:12	WG2843884
Heptachlor epoxide	U		0.00702	0.0216	1	10/01/2026 19:12	WG2843884
Hexachlorobenzene	U		0.00657	0.0216	1	10/01/2026 19:12	WG2843884
Methoxychlor	U		0.00870	0.0216	1	10/01/2026 19:12	WG2843884
Toxaphene	U		0.231	0.432	1	10/01/2026 19:12	WG2843884
(S) Decachlorobiphenyl	*78.7*			*10.0-135*		*10/01/2026 19:12*	WG2843884
(S) Tetrachloro-m-xylene	*73.4*			*10.0-139*		*10/01/2026 19:12*	WG2843884

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0110	0.0367	1	10/01/2026 19:12	WG2843884
PCB 1221	U		0.0116	0.0367	1	10/01/2026 19:12	WG2843884
PCB 1232	U		0.00969	0.0367	1	10/01/2026 19:12	WG2843884
PCB 1242	U		0.0109	0.0367	1	10/01/2026 19:12	WG2843884
PCB 1248	U		0.0134	0.0184	1	10/01/2026 19:12	WG2843884
PCB 1254	U		0.0112	0.0184	1	10/01/2026 19:12	WG2843884
PCB 1260	U		0.0119	0.0184	1	10/01/2026 19:12	WG2843884
(S) Decachlorobiphenyl	*79.5*			*10.0-135*		*10/01/2026 19:12*	WG2843884
(S) Tetrachloro-m-xylene	*78.1*			*10.0-139*		*10/01/2026 19:12*	WG2843884

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00582	0.0360	1	10/02/2026 11:52	WG2843887
Acenaphthylene	U		0.00612	0.0360	1	10/02/2026 11:52	WG2843887
Anthracene	U		0.00442	0.0360	1	10/02/2026 11:52	WG2843887
Benzidine	U	C3 J4	1.08	1.80	1	10/02/2026 11:52	WG2843887
Benzo(a)anthracene	U		0.00410	0.0360	1	10/02/2026 11:52	WG2843887
Benzo(b)fluoranthene	U		0.00585	0.0360	1	10/02/2026 11:52	WG2843887
Benzo(k)fluoranthene	U		0.00523	0.0360	1	10/02/2026 11:52	WG2843887
Benzo(g,h,i)perylene	U		0.00696	0.0360	1	10/02/2026 11:52	WG2843887
Benzo(a)pyrene	U		0.00721	0.0360	1	10/02/2026 11:52	WG2843887
Bis(2-chlorethoxy)methane	U		0.0390	0.360	1	10/02/2026 11:52	WG2843887
Bis(2-chloroethyl)ether	U		0.0679	0.360	1	10/02/2026 11:52	WG2843887
2,2-Oxybis(1-Chloropropane)	U		0.0771	0.360	1	10/02/2026 11:52	WG2843887
4-Bromophenyl-phenylether	U		0.0513	0.360	1	10/02/2026 11:52	WG2843887
2-Chloronaphthalene	U		0.00536	0.0360	1	10/02/2026 11:52	WG2843887
4-Chlorophenyl-phenylether	U		0.0513	0.360	1	10/02/2026 11:52	WG2843887

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00374	0.0360	1	10/02/2026 11:52	WG2843887
Dibenz(a,h)anthracene	U		0.00635	0.0360	1	10/02/2026 11:52	WG2843887
1,2-Dichlorobenzene	U		0.0309	0.360	1	10/02/2026 11:52	WG2843887
1,3-Dichlorobenzene	U		0.0313	0.360	1	10/02/2026 11:52	WG2843887
1,4-Dichlorobenzene	U		0.0309	0.360	1	10/02/2026 11:52	WG2843887
3,3-Dichlorobenzidine	U		0.137	0.360	1	10/02/2026 11:52	WG2843887
2,4-Dinitrotoluene	U		0.0713	0.360	1	10/02/2026 11:52	WG2843887
2,6-Dinitrotoluene	U		0.0678	0.360	1	10/02/2026 11:52	WG2843887
Fluoranthene	U		0.00463	0.0360	1	10/02/2026 11:52	WG2843887
Fluorene	U		0.00537	0.0360	1	10/02/2026 11:52	WG2843887
Hexachlorobenzene	U		0.0588	0.360	1	10/02/2026 11:52	WG2843887
Hexachloro-1,3-butadiene	U		0.0570	0.360	1	10/02/2026 11:52	WG2843887
Hexachlorocyclopentadiene	U		0.110	0.360	1	10/02/2026 11:52	WG2843887
Hexachloroethane	U		0.0443	0.360	1	10/02/2026 11:52	WG2843887
Indeno(1,2,3-cd)pyrene	U		0.00723	0.0360	1	10/02/2026 11:52	WG2843887
Isophorone	U		0.0453	0.360	1	10/02/2026 11:52	WG2843887
Naphthalene	U		0.0126	0.0360	1	10/02/2026 11:52	WG2843887
Nitrobenzene	U		0.0486	0.360	1	10/02/2026 11:52	WG2843887
n-Nitrosodimethylamine	U		0.0845	0.360	1	10/02/2026 11:52	WG2843887
n-Nitrosodiphenylamine	U		0.0461	0.360	1	10/02/2026 11:52	WG2843887
n-Nitrosodi-n-propylamine	U		0.0570	0.360	1	10/02/2026 11:52	WG2843887
Phenanthrene	U		0.00395	0.0360	1	10/02/2026 11:52	WG2843887
Benzylbutyl phthalate	U		0.0697	0.360	1	10/02/2026 11:52	WG2843887
Bis(2-ethylhexyl)phthalate	U		0.0710	0.360	1	10/02/2026 11:52	WG2843887
Di-n-butyl phthalate	U		0.0484	0.360	1	10/02/2026 11:52	WG2843887
Diethyl phthalate	U		0.0557	0.360	1	10/02/2026 11:52	WG2843887
Dimethyl phthalate	U		0.0483	0.360	1	10/02/2026 11:52	WG2843887
Di-n-octyl phthalate	U		0.159	0.360	1	10/02/2026 11:52	WG2843887
Pyrene	U		0.00403	0.0360	1	10/02/2026 11:52	WG2843887
1,2,4-Trichlorobenzene	U		0.0427	0.360	1	10/02/2026 11:52	WG2843887
4-Chloro-3-methylphenol	U		0.0562	0.360	1	10/02/2026 11:52	WG2843887
2-Chlorophenol	U		0.0374	0.360	1	10/02/2026 11:52	WG2843887
2,4-Dichlorophenol	U		0.0474	0.360	1	10/02/2026 11:52	WG2843887
2,4-Dimethylphenol	U	C3	0.192	0.360	1	10/02/2026 11:52	WG2843887
4,6-Dinitro-2-methylphenol	U		0.110	0.360	1	10/02/2026 11:52	WG2843887
2,4-Dinitrophenol	U		0.137	0.360	1	10/02/2026 11:52	WG2843887
2-Nitrophenol	U		0.0534	0.360	1	10/02/2026 11:52	WG2843887
4-Nitrophenol	U		0.114	0.360	1	10/02/2026 11:52	WG2843887
Pentachlorophenol	U	C3	0.135	0.360	1	10/02/2026 11:52	WG2843887
Phenol	U		0.0612	0.360	1	10/02/2026 11:52	WG2843887
2,4,6-Trichlorophenol	U		0.0860	0.360	1	10/02/2026 11:52	WG2843887
(S) 2-Fluorophenol	*70.0*			*12.0-120*		*10/02/2026 11:52*	WG2843887
(S) Phenol-d5	*62.1*			*10.0-120*		*10/02/2026 11:52*	WG2843887
(S) Nitrobenzene-d5	*61.8*			*10.0-122*		*10/02/2026 11:52*	WG2843887
(S) 2-Fluorobiphenyl	*62.7*			*15.0-120*		*10/02/2026 11:52*	WG2843887
(S) 2,4,6-Tribromophenol	*50.3*			*10.0-127*		*10/02/2026 11:52*	WG2843887
(S) p-Terphenyl-d14	*70.6*			*10.0-120*		*10/02/2026 11:52*	WG2843887

Method Blank (MB)

(MB) R4431516-1 09/30/26 05:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L2019421-01 Original Sample (OS) • Duplicate (DUP)

(OS) L2019421-01 09/30/26 05:25 • (DUP) R4431516-3 09/30/26 05:25

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	76.7	78.2	1	1.98		5

Laboratory Control Sample (LCS)

(LCS) R4431516-2 09/30/26 05:25

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4431296-1 09/30/26 04:50

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L2019319-05 Original Sample (OS) • Duplicate (DUP)

(OS) L2019319-05 09/30/26 04:50 • (DUP) R4431296-3 09/30/26 04:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.3	84.0	1	0.349		5

Laboratory Control Sample (LCS)

(LCS) R4431296-2 09/30/26 04:50

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4432116-1 10/01/26 19:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0206	0.0400

Laboratory Control Sample (LCS)

(LCS) R4432116-2 10/01/26 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.433	86.6	80.0-120	

L2019740-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2019740-07 10/01/26 19:57 • (MS) R4432116-4 10/01/26 20:11 • (MSD) R4432116-5 10/01/26 20:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.517	U	0.414	0.401	80.2	77.6	1	75.0-125			3.25	20

Method Blank (MB)

(MB) R4431495-1 09/30/26 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.691	2.00
Arsenic	U		0.837	2.00
Beryllium	U		0.0477	0.200
Cadmium	U		0.0653	0.500
Chromium	U		0.214	1.00
Copper	U		0.357	2.00
Lead	U		0.326	0.500
Nickel	U		0.200	2.00
Selenium	U		1.07	2.00
Silver	U		0.127	1.00
Thallium	U		0.518	2.00
Zinc	U		0.974	5.00

Laboratory Control Sample (LCS)

(LCS) R4431495-2 09/30/26 14:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	96.5	96.5	80.0-120	
Arsenic	100	98.4	98.4	80.0-120	
Beryllium	100	100	100	80.0-120	
Cadmium	100	96.0	96.0	80.0-120	
Chromium	100	104	104	80.0-120	
Copper	100	102	102	80.0-120	
Lead	100	95.0	95.0	80.0-120	
Nickel	100	94.9	94.9	80.0-120	
Selenium	100	96.3	96.3	80.0-120	
Silver	20.0	19.7	98.6	80.0-120	
Thallium	100	101	101	80.0-120	
Zinc	100	99.9	99.9	80.0-120	

L2019607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2019607-01 09/30/26 14:40 • (MS) R4431495-5 09/30/26 14:46 • (MSD) R4431495-6 09/30/26 14:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	126	U	55.3	57.9	43.8	45.9	1	75.0-125	J6	J6	4.62	20
Arsenic	126	14.1	134	120	95.3	84.2	1	75.0-125			11.0	20

L2019607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2019607-01 09/30/26 14:40 • (MS) R4431495-5 09/30/26 14:46 • (MSD) R4431495-6 09/30/26 14:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Beryllium	126	0.954	122	110	95.9	86.2	1	75.0-125			10.5	20
Cadmium	126	0.553	118	105	92.6	82.5	1	75.0-125			11.5	20
Chromium	126	23.0	148	134	98.9	88.3	1	75.0-125			9.49	20
Copper	126	42.5	164	151	96.6	85.6	1	75.0-125			8.83	20
Lead	126	23.2	143	129	95.2	83.8	1	75.0-125			10.6	20
Nickel	126	39.8	158	144	93.9	82.8	1	75.0-125			9.30	20
Selenium	126	2.16	122	109	94.9	84.5	1	75.0-125			11.4	20
Silver	25.3	0.211	25.0	22.3	98.2	87.5	1	75.0-125			11.4	20
Thallium	126	U	121	107	95.5	85.0	1	75.0-125			11.7	20
Zinc	126	135	246	230	88.1	75.1	1	75.0-125			6.90	20

Method Blank (MB)

(MB) R4431436-3 09/29/26 21:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0697	0.100
Acrylonitrile	U		0.00803	0.0125
Benzene	U		0.000711	0.00100
Bromobenzene	U		0.00390	0.0125
Bromodichloromethane	U		0.00117	0.00250
Bromoform	U		0.00992	0.0250
Bromomethane	U		0.0101	0.0125
n-Butylbenzene	U		0.00625	0.0125
sec-Butylbenzene	U		0.00383	0.0125
tert-Butylbenzene	U		0.00189	0.00500
Carbon tetrachloride	U		0.00301	0.00500
Chlorobenzene	U		0.000858	0.00250
Chlorodibromomethane	U		0.00161	0.00250
Chloroethane	U		0.00569	0.0100
Chloroform	U		0.00162	0.00250
Chloromethane	U		0.00850	0.0125
2-Chlorotoluene	U		0.00129	0.00250
4-Chlorotoluene	U		0.00154	0.00500
1,2-Dibromo-3-Chloropropane	U		0.0107	0.0250
1,2-Dibromoethane	U		0.00126	0.00250
Dibromomethane	U		0.00178	0.00500
1,2-Dichlorobenzene	U		0.00156	0.00500
1,3-Dichlorobenzene	U		0.00165	0.00500
1,4-Dichlorobenzene	U		0.00175	0.00500
Dichlorodifluoromethane	U		0.00435	0.00500
1,1-Dichloroethane	U		0.00101	0.00250
1,2-Dichloroethane	U		0.00146	0.00250
1,1-Dichloroethene	U		0.00153	0.00250
cis-1,2-Dichloroethene	U		0.00129	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00192	0.00500
1,1-Dichloropropene	U		0.00138	0.00500
1,3-Dichloropropane	U		0.00162	0.00500
cis-1,3-Dichloropropene	U		0.00105	0.00250
trans-1,3-Dichloropropene	U		0.00105	0.00500
2,2-Dichloropropane	U		0.00202	0.00250
Di-isopropyl ether	U		0.000769	0.00100
Ethylbenzene	U		0.000987	0.00250
Hexachloro-1,3-butadiene	U		0.0104	0.0250
Isopropylbenzene	U		0.00101	0.00250

Method Blank (MB)

(MB) R4431436-3 09/29/26 21:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00213	0.00500
2-Butanone (MEK)	U		0.0887	0.100
Methylene Chloride	U		0.0110	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00992	0.0250
Methyl tert-butyl ether	U		0.000773	0.00100
Naphthalene	U		0.00763	0.0125
n-Propylbenzene	U		0.00169	0.00500
Styrene	U		0.00445	0.0125
1,1,1,2-Tetrachloroethane	U		0.00130	0.00250
1,1,2,2-Tetrachloroethane	U		0.00116	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.00281	0.00500
Tetrachloroethene	U		0.00152	0.00250
Toluene	U		0.00289	0.00500
1,2,3-Trichlorobenzene	U		0.00699	0.0125
1,2,4-Trichlorobenzene	U		0.00542	0.0125
1,1,1-Trichloroethane	U		0.00145	0.00250
1,1,2-Trichloroethane	U		0.00134	0.00250
Trichloroethene	U		0.000891	0.00100
Trichlorofluoromethane	U		0.00261	0.00400
1,2,3-Trichloropropane	U		0.00612	0.0125
1,2,4-Trimethylbenzene	U		0.00238	0.00500
1,2,3-Trimethylbenzene	U		0.00182	0.00500
1,3,5-Trimethylbenzene	U		0.00228	0.00500
Vinyl chloride	U		0.00201	0.00250
Xylenes, Total	U		0.00280	0.00650
(S) Toluene-d8	*97.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4431436-1 09/29/26 19:39 • (LCSD) R4431436-2 09/29/26 19:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	1.25	1.22	1.20	97.6	96.0	10.0-160			1.65	31
Acrylonitrile	1.25	1.21	1.18	96.8	94.4	45.0-153			2.51	22
Benzene	0.250	0.232	0.229	92.8	91.6	70.0-123			1.30	20
Bromobenzene	0.250	0.234	0.232	93.6	92.8	73.0-121			0.858	20
Bromodichloromethane	0.250	0.248	0.237	99.2	94.8	73.0-121			4.54	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4431436-1 09/29/26 19:39 • (LCSD) R4431436-2 09/29/26 19:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.250	0.221	0.212	88.4	84.8	64.0-132			4.16	20
Bromomethane	0.250	0.279	0.265	112	106	56.0-147			5.15	20
n-Butylbenzene	0.250	0.264	0.248	106	99.2	68.0-135			6.25	20
sec-Butylbenzene	0.250	0.273	0.259	109	104	74.0-130			5.26	20
tert-Butylbenzene	0.250	0.263	0.256	105	102	75.0-127			2.70	20
Carbon tetrachloride	0.250	0.230	0.234	92.0	93.6	66.0-128			1.72	20
Chlorobenzene	0.250	0.227	0.219	90.8	87.6	76.0-128			3.59	20
Chlorodibromomethane	0.250	0.231	0.223	92.4	89.2	74.0-127			3.52	20
Chloroethane	0.250	0.245	0.238	98.0	95.2	61.0-134			2.90	20
Chloroform	0.250	0.238	0.233	95.2	93.2	72.0-123			2.12	20
Chloromethane	0.250	0.250	0.247	100	98.8	51.0-138			1.21	20
2-Chlorotoluene	0.250	0.241	0.240	96.4	96.0	75.0-124			0.416	20
4-Chlorotoluene	0.250	0.239	0.239	95.6	95.6	75.0-124			0.000	20
1,2-Dibromo-3-Chloropropane	0.250	0.188	0.203	75.2	81.2	59.0-130			7.67	20
1,2-Dibromoethane	0.250	0.230	0.219	92.0	87.6	74.0-128			4.90	20
Dibromomethane	0.250	0.234	0.219	93.6	87.6	75.0-122			6.62	20
1,2-Dichlorobenzene	0.250	0.221	0.222	88.4	88.8	76.0-124			0.451	20
1,3-Dichlorobenzene	0.250	0.221	0.223	88.4	89.2	76.0-125			0.901	20
1,4-Dichlorobenzene	0.250	0.224	0.226	89.6	90.4	77.0-121			0.889	20
Dichlorodifluoromethane	0.250	0.271	0.249	108	99.6	43.0-156			8.46	20
1,1-Dichloroethane	0.250	0.245	0.236	98.0	94.4	70.0-127			3.74	20
1,2-Dichloroethane	0.250	0.244	0.231	97.6	92.4	65.0-131			5.47	20
1,1-Dichloroethene	0.250	0.210	0.204	84.0	81.6	65.0-131			2.90	20
cis-1,2-Dichloroethene	0.250	0.216	0.207	86.4	82.8	73.0-125			4.26	20
trans-1,2-Dichloroethene	0.250	0.239	0.234	95.6	93.6	71.0-125			2.11	20
1,2-Dichloropropane	0.250	0.241	0.235	96.4	94.0	74.0-125			2.52	20
1,1-Dichloropropene	0.250	0.243	0.239	97.2	95.6	73.0-125			1.66	20
1,3-Dichloropropane	0.250	0.229	0.220	91.6	88.0	80.0-125			4.01	20
cis-1,3-Dichloropropene	0.250	0.248	0.236	99.2	94.4	76.0-127			4.96	20
trans-1,3-Dichloropropene	0.250	0.244	0.237	97.6	94.8	73.0-127			2.91	20
2,2-Dichloropropane	0.250	0.252	0.254	101	102	59.0-135			0.791	20
Di-isopropyl ether	0.250	0.261	0.265	104	106	60.0-136			1.52	20
Ethylbenzene	0.250	0.229	0.227	91.6	90.8	74.0-126			0.877	20
Hexachloro-1,3-butadiene	0.250	0.272	0.269	109	108	57.0-150			1.11	20
Isopropylbenzene	0.250	0.251	0.242	100	96.8	72.0-127			3.65	20
p-Isopropyltoluene	0.250	0.282	0.268	113	107	72.0-133			5.09	20
2-Butanone (MEK)	1.25	1.24	1.16	99.2	92.8	30.0-160			6.67	24
Methylene Chloride	0.250	0.220	0.205	88.0	82.0	68.0-123			7.06	20
4-Methyl-2-pentanone (MIBK)	1.25	1.28	1.23	102	98.4	56.0-143			3.98	20
Methyl tert-butyl ether	0.250	0.232	0.213	92.8	85.2	66.0-132			8.54	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4431436-1 09/29/26 19:39 • (LCSD) R4431436-2 09/29/26 19:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.250	0.214	0.243	85.6	97.2	59.0-130			12.7	20
n-Propylbenzene	0.250	0.247	0.241	98.8	96.4	74.0-126			2.46	20
Styrene	0.250	0.255	0.252	102	101	72.0-127			1.18	20
1,1,1,2-Tetrachloroethane	0.250	0.216	0.213	86.4	85.2	74.0-129			1.40	20
1,1,2,2-Tetrachloroethane	0.250	0.223	0.216	89.2	86.4	68.0-128			3.19	20
1,1,2-Trichlorotrifluoroethane	0.250	0.241	0.226	96.4	90.4	61.0-139			6.42	20
Tetrachloroethene	0.250	0.232	0.228	92.8	91.2	70.0-136			1.74	20
Toluene	0.250	0.231	0.228	92.4	91.2	75.0-121			1.31	20
1,2,3-Trichlorobenzene	0.250	0.265	0.285	106	114	59.0-139			7.27	20
1,2,4-Trichlorobenzene	0.250	0.249	0.267	99.6	107	62.0-137			6.98	20
1,1,1-Trichloroethane	0.250	0.231	0.236	92.4	94.4	69.0-126			2.14	20
1,1,2-Trichloroethane	0.250	0.227	0.218	90.8	87.2	78.0-123			4.04	20
Trichloroethene	0.250	0.241	0.239	96.4	95.6	76.0-126			0.833	20
Trichlorofluoromethane	0.250	0.288	0.263	115	105	61.0-142			9.07	20
1,2,3-Trichloropropane	0.250	0.221	0.219	88.4	87.6	67.0-129			0.909	20
1,2,4-Trimethylbenzene	0.250	0.257	0.249	103	99.6	70.0-126			3.16	20
1,2,3-Trimethylbenzene	0.250	0.243	0.234	97.2	93.6	74.0-124			3.77	20
1,3,5-Trimethylbenzene	0.250	0.266	0.256	106	102	73.0-127			3.83	20
Vinyl chloride	0.250	0.269	0.257	108	103	63.0-134			4.56	20
Xylenes, Total	0.750	0.700	0.697	93.3	92.9	72.0-127			0.429	20
(S) Toluene-d8				*97.9*	*98.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*94.8*	*95.1*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*99.9*	*98.4*	*70.0-130*				

Method Blank (MB)

(MB) R4431850-2 09/30/26 17:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.0100	0.0200
Dalapon	U		0.00729	0.0200
2,4-DB	U		0.00803	0.0200
Dicamba	U		0.00975	0.0200
Dichloroprop	U		0.00559	0.0200
Dinoseb	U		0.00498	0.0200
MCPA	U		0.00936	0.0200
MCPP	U		0.00521	0.0200
2,4,5-T	U		0.00908	0.0200
2,4,5-TP (Silvex)	U		0.00551	0.0200
(S) 2,4-DB-D3	*93.5*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4431850-1 09/30/26 17:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4-D	0.200	0.224	112	70.0-130	
Dalapon	0.200	0.188	94.0	70.0-130	
2,4-DB	0.200	0.228	114	70.0-130	
Dicamba	0.200	0.219	109	70.0-130	
Dichloroprop	0.200	0.203	102	70.0-130	
Dinoseb	0.200	0.215	108	70.0-130	
MCPA	0.200	0.238	119	70.0-130	
MCPP	0.200	0.216	108	70.0-130	
2,4,5-T	0.200	0.237	118	70.0-130	
2,4,5-TP (Silvex)	0.200	0.206	103	70.0-130	
(S) 2,4-DB-D3			*103*	*70.0-130*	

L2019549-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2019549-13 10/01/26 06:04 • (MS) R4431850-3 10/01/26 06:18 • (MSD) R4431850-4 10/01/26 06:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4-D	2.65	U	3.05	2.86	115	108	11.1	70.0-130			6.45	19
Dalapon	2.65	U	2.17	2.07	82.0	78.4	11.1	70.0-130			4.49	18
2,4-DB	2.65	U	3.36	3.36	127	127	11.1	70.0-130			0.000	19
Dicamba	2.65	U	2.98	2.86	113	108	11.1	70.0-130			4.08	18

L2019549-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2019549-13 10/01/26 06:04 • (MS) R4431850-3 10/01/26 06:18 • (MSD) R4431850-4 10/01/26 06:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dichloroprop	2.65	U	2.92	2.78	110	105	11.1	70.0-130			5.02	15
Dinoseb	2.65	U	3.10	2.91	117	110	11.1	70.0-130			6.35	20
MCPA	2.65	U	3.36	3.14	127	118	11.1	70.0-130			6.97	16
MCPP	2.65	U	3.20	3.05	121	115	11.1	70.0-130			4.58	16
2,4,5-T	2.65	U	3.26	3.14	123	118	11.1	70.0-130			3.73	14
2,4,5-TP (Silvex)	2.65	U	3.12	2.92	118	110	11.1	70.0-130			6.71	15
(S) 2,4-DB-D3					*114*	*115*		*70.0-130*				

Method Blank (MB)

(MB) R4432292-1 10/01/26 16:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00645	0.0200
Alpha BHC	U		0.00637	0.0200
Beta BHC	U		0.00630	0.0200
Delta BHC	U		0.00635	0.0200
Gamma BHC	U		0.00676	0.0200
Chlordane	U		0.0990	0.300
4,4-DDD	U		0.00690	0.0200
4,4-DDE	U		0.00673	0.0200
4,4-DDT	U		0.00766	0.0200
Dieldrin	U		0.00697	0.0200
Endosulfan I	U		0.00604	0.0200
Endosulfan II	U		0.00661	0.0200
Endosulfan sulfate	U		0.00642	0.0200
Endrin	U		0.00746	0.0200
Endrin aldehyde	U		0.00590	0.0200
Endrin ketone	U		0.00695	0.0200
Heptachlor	U		0.00693	0.0200
Heptachlor epoxide	U		0.00650	0.0200
Hexachlorobenzene	U		0.00608	0.0200
Methoxychlor	U		0.00806	0.0200
Toxaphene	U		0.214	0.400
(S) Decachlorobiphenyl	*79.3*			*10.0-135*
(S) Tetrachloro-m-xylene	*76.9*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R4432292-3 10/01/26 16:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0563	84.5	34.0-136	
Alpha BHC	0.0666	0.0578	86.8	34.0-139	
Beta BHC	0.0666	0.0528	79.3	34.0-133	
Delta BHC	0.0666	0.0466	70.0	34.0-135	
Gamma BHC	0.0666	0.0571	85.7	34.0-136	
4,4-DDD	0.0666	0.0541	81.2	33.0-141	
4,4-DDE	0.0666	0.0563	84.5	34.0-134	
4,4-DDT	0.0666	0.0647	97.1	30.0-143	
Dieldrin	0.0666	0.0580	87.1	35.0-137	
Endosulfan I	0.0666	0.0563	84.5	34.0-134	

Laboratory Control Sample (LCS)

(LCS) R4432292-3 10/01/26 16:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Endosulfan II	0.0666	0.0493	74.0	35.0-132	
Endosulfan sulfate	0.0666	0.0513	77.0	35.0-132	
Endrin	0.0666	0.0538	80.8	34.0-137	
Endrin aldehyde	0.0666	0.0410	61.6	23.0-121	
Endrin ketone	0.0666	0.0576	86.5	35.0-144	
Heptachlor	0.0666	0.0585	87.8	36.0-141	
Heptachlor epoxide	0.0666	0.0558	83.8	36.0-134	
Hexachlorobenzene	0.0666	0.0677	102	33.0-129	
Methoxychlor	0.0666	0.0581	87.2	28.0-150	
(S) Decachlorobiphenyl			*83.8*	*10.0-135*	
(S) Tetrachloro-m-xylene			*82.4*	*10.0-139*	

Method Blank (MB)

(MB) R4432292-1 10/01/26 16:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0102	0.0340
PCB 1221	U		0.0107	0.0340
PCB 1232	U		0.00897	0.0340
PCB 1242	U		0.0101	0.0340
PCB 1248	U		0.0124	0.0170
PCB 1254	U		0.0104	0.0170
PCB 1260	U		0.0110	0.0170
(S) Decachlorobiphenyl	*91.9*			*10.0-135*
(S) Tetrachloro-m-xylene	*84.7*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R4432292-2 10/01/26 16:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.159	95.2	36.0-141	
PCB 1260	0.167	0.178	107	37.0-145	
(S) Decachlorobiphenyl			*102*	*10.0-135*	
(S) Tetrachloro-m-xylene			*92.8*	*10.0-139*	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4433060-2 10/02/26 11:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00567	0.0333
Anthracene	U		0.00409	0.0333
Benzidine	U		0.999	1.67
Benzo(a)anthracene	U		0.00380	0.0333
Benzo(b)fluoranthene	U		0.00542	0.0333
Benzo(k)fluoranthene	U		0.00484	0.0333
Benzo(g,h,i)perylene	U		0.00644	0.0333
Benzo(a)pyrene	U		0.00668	0.0333
Bis(2-chlorethoxy)methane	U		0.0361	0.333
Bis(2-chloroethyl)ether	U		0.0629	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0714	0.333
4-Bromophenyl-phenylether	U		0.0475	0.333
2-Chloronaphthalene	U		0.00496	0.0333
4-Chlorophenyl-phenylether	U		0.0475	0.333
Chrysene	U		0.00346	0.0333
Dibenz(a,h)anthracene	U		0.00588	0.0333
1,2-Dichlorobenzene	U		0.0286	0.333
1,3-Dichlorobenzene	U		0.0290	0.333
1,4-Dichlorobenzene	U		0.0286	0.333
3,3-Dichlorobenzidine	U		0.127	0.333
2,4-Dinitrotoluene	U		0.0660	0.333
2,6-Dinitrotoluene	U		0.0628	0.333
Fluoranthene	U		0.00429	0.0333
Fluorene	U		0.00497	0.0333
Hexachlorobenzene	U		0.0544	0.333
Hexachloro-1,3-butadiene	U		0.0528	0.333
Hexachlorocyclopentadiene	U		0.102	0.333
Hexachloroethane	U		0.0410	0.333
Indeno(1,2,3-cd)pyrene	U		0.00669	0.0333
Isophorone	U		0.0419	0.333
Naphthalene	U		0.0117	0.0333
Nitrobenzene	U		0.0450	0.333
n-Nitrosodimethylamine	U		0.0782	0.333
n-Nitrosodiphenylamine	U		0.0427	0.333
n-Nitrosodi-n-propylamine	U		0.0528	0.333
Phenanthrene	U		0.00366	0.0333
Benzylbutyl phthalate	U		0.0645	0.333
Bis(2-ethylhexyl)phthalate	U		0.0657	0.333
Di-n-butyl phthalate	U		0.0448	0.333

Method Blank (MB)

(MB) R4433060-2 10/02/26 11:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diethyl phthalate	U		0.0516	0.333
Dimethyl phthalate	U		0.0447	0.333
Di-n-octyl phthalate	U		0.147	0.333
Pyrene	U		0.00373	0.0333
1,2,4-Trichlorobenzene	U		0.0395	0.333
4-Chloro-3-methylphenol	U		0.0520	0.333
2-Chlorophenol	U		0.0346	0.333
2,4-Dichlorophenol	U		0.0439	0.333
2,4-Dimethylphenol	U		0.178	0.333
4,6-Dinitro-2-methylphenol	U		0.102	0.333
2,4-Dinitrophenol	U		0.127	0.333
2-Nitrophenol	U		0.0494	0.333
4-Nitrophenol	U		0.106	0.333
Pentachlorophenol	U		0.125	0.333
Phenol	U		0.0567	0.333
2,4,6-Trichlorophenol	U		0.0796	0.333
(S) 2-Fluorophenol	*70.9*			*12.0-120*
(S) Phenol-d5	*64.4*			*10.0-120*
(S) Nitrobenzene-d5	*63.4*			*10.0-122*
(S) 2-Fluorobiphenyl	*63.7*			*15.0-120*
(S) 2,4,6-Tribromophenol	*57.4*			*10.0-127*
(S) p-Terphenyl-d14	*78.7*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4433060-1 10/02/26 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.442	66.4	38.0-120	
Acenaphthylene	0.666	0.436	65.5	40.0-120	
Anthracene	0.666	0.478	71.8	42.0-120	
Benzidine	1.33	U	0.000	10.0-120	J4
Benzo(a)anthracene	0.666	0.514	77.2	44.0-120	
Benzo(b)fluoranthene	0.666	0.516	77.5	43.0-120	
Benzo(k)fluoranthene	0.666	0.534	80.2	44.0-120	
Benzo(g,h,i)perylene	0.666	0.529	79.4	43.0-120	
Benzo(a)pyrene	0.666	0.523	78.5	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.366	55.0	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.448	67.3	16.0-120	

Laboratory Control Sample (LCS)

(LCS) R4433060-1 10/02/26 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,2-Oxybis(1-Chloropropane)	0.666	0.426	64.0	23.0-120	
4-Bromophenyl-phenylether	0.666	0.479	71.9	40.0-120	
2-Chloronaphthalene	0.666	0.437	65.6	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.480	72.1	40.0-120	
Chrysene	0.666	0.508	76.3	43.0-120	
Dibenz(a,h)anthracene	0.666	0.562	84.4	44.0-120	
1,2-Dichlorobenzene	0.666	0.430	64.6	32.0-120	
1,3-Dichlorobenzene	0.666	0.401	60.2	30.0-120	
1,4-Dichlorobenzene	0.666	0.406	61.0	31.0-120	
3,3-Dichlorobenzidine	1.33	0.988	74.3	28.0-120	
2,4-Dinitrotoluene	0.666	0.516	77.5	45.0-120	
2,6-Dinitrotoluene	0.666	0.495	74.3	42.0-120	
Fluoranthene	0.666	0.502	75.4	44.0-120	
Fluorene	0.666	0.456	68.5	41.0-120	
Hexachlorobenzene	0.666	0.479	71.9	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.404	60.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.299	44.9	15.0-120	J
Hexachloroethane	0.666	0.420	63.1	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.536	80.5	45.0-120	
Isophorone	0.666	0.375	56.3	23.0-120	
Naphthalene	0.666	0.347	52.1	18.0-120	
Nitrobenzene	0.666	0.357	53.6	17.0-120	
n-Nitrosodimethylamine	0.666	0.483	72.5	10.0-125	
n-Nitrosodiphenylamine	0.666	0.468	70.3	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.436	65.5	26.0-120	
Phenanthrene	0.666	0.489	73.4	42.0-120	
Benzylbutyl phthalate	0.666	0.509	76.4	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.514	77.2	41.0-120	
Di-n-butyl phthalate	0.666	0.501	75.2	43.0-120	
Diethyl phthalate	0.666	0.503	75.5	43.0-120	
Dimethyl phthalate	0.666	0.493	74.0	43.0-120	
Di-n-octyl phthalate	0.666	0.513	77.0	40.0-120	
Pyrene	0.666	0.480	72.1	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.370	55.6	17.0-120	
4-Chloro-3-methylphenol	0.666	0.398	59.8	28.0-120	
2-Chlorophenol	0.666	0.457	68.6	28.0-120	
2,4-Dichlorophenol	0.666	0.414	62.2	25.0-120	
2,4-Dimethylphenol	0.666	0.394	59.2	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.496	74.5	16.0-120	
2,4-Dinitrophenol	0.666	0.431	64.7	10.0-120	

Laboratory Control Sample (LCS)

(LCS) R4433060-1 10/02/26 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Nitrophenol	0.666	0.390	58.6	20.0-120	
4-Nitrophenol	0.666	0.522	78.4	27.0-120	
Pentachlorophenol	0.666	0.409	61.4	29.0-120	
Phenol	0.666	0.439	65.9	28.0-120	
2,4,6-Trichlorophenol	0.666	0.499	74.9	37.0-120	
(S) 2-Fluorophenol			*73.1*	*12.0-120*	
(S) Phenol-d5			*64.1*	*10.0-120*	
(S) Nitrobenzene-d5			*53.2*	*10.0-122*	
(S) 2-Fluorobiphenyl			*64.6*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*72.4*	*10.0-127*	
(S) p-Terphenyl-d14			*73.3*	*10.0-120*	

L2020055-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2020055-05 10/02/26 16:36 • (MS) R4433060-3 10/02/26 16:58 • (MSD) R4433060-4 10/02/26 17:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.853	U	0.508	0.507	59.6	59.3	2	18.0-120			0.265	32
Acenaphthylene	0.853	U	0.512	0.473	60.1	55.3	2	25.0-120			7.91	32
Anthracene	0.853	U	0.547	0.511	64.2	59.7	2	22.0-120			6.86	29
Benzidine	1.27	U	U	U	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Benzo(a)anthracene	0.853	0.0172	0.576	0.559	65.5	63.4	2	25.0-120			2.84	29
Benzo(b)fluoranthene	0.853	0.0311	0.620	0.592	69.1	65.6	2	19.0-122			4.66	31
Benzo(k)fluoranthene	0.853	U	0.621	0.570	72.9	66.7	2	23.0-120			8.58	30
Benzo(g,h,i)perylene	0.853	U	0.262	0.274	30.8	32.1	2	10.0-120			4.51	33
Benzo(a)pyrene	0.853	U	0.588	0.554	68.9	64.8	2	24.0-120			5.89	30
Bis(2-chlorethoxy)methane	0.853	U	0.465	0.455	54.6	53.1	2	10.0-120	J	J	2.34	34
Bis(2-chloroethyl)ether	0.853	U	0.445	0.426	52.2	49.8	2	10.0-120	J	J	4.32	40
2,2-Oxybis(1-Chloropropane)	0.853	U	0.475	0.471	55.7	55.0	2	10.0-120	J	J	0.853	40
4-Bromophenyl-phenylether	0.853	U	0.538	0.527	63.1	61.6	2	27.0-120	J	J	2.02	30
2-Chloronaphthalene	0.853	U	0.520	0.494	61.0	57.7	2	20.0-120			5.31	32
4-Chlorophenyl-phenylether	0.853	U	0.559	0.546	65.6	63.8	2	24.0-120	J	J	2.43	29
Chrysene	0.853	0.0182	0.577	0.554	65.5	62.7	2	21.0-120			4.04	29
Dibenz(a,h)anthracene	0.853	U	0.343	0.332	40.2	38.8	2	10.0-120			3.19	32
1,2-Dichlorobenzene	0.853	U	0.490	0.472	57.4	55.2	2	10.0-120	J	J	3.64	38
1,3-Dichlorobenzene	0.853	U	0.456	0.434	53.5	50.8	2	10.0-120	J	J	4.83	40
1,4-Dichlorobenzene	0.853	U	0.459	0.444	53.8	51.9	2	10.0-120	J	J	3.28	39
3,3-Dichlorobenzidine	1.71	U	1.20	1.09	70.4	64.0	2	10.0-120			9.49	34
2,4-Dinitrotoluene	0.853	U	0.593	0.542	69.6	63.4	2	30.0-120	J	J	9.00	31

L2020055-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2020055-05 10/02/26 16:36 • (MS) R4433060-3 10/02/26 16:58 • (MSD) R4433060-4 10/02/26 17:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,6-Dinitrotoluene	0.853	U	0.580	0.573	68.0	67.0	2	25.0-120	J	J	1.17	31
Fluoranthene	0.853	0.0539	0.596	0.572	63.5	60.5	2	18.0-126			4.15	32
Fluorene	0.853	U	0.523	0.526	61.4	61.5	2	25.0-120			0.513	30
Hexachlorobenzene	0.853	U	0.563	0.542	66.1	63.4	2	27.0-120	J	J	3.89	28
Hexachloro-1,3-butadiene	0.853	U	0.531	0.512	62.3	59.9	2	10.0-120	J	J	3.61	38
Hexachlorocyclopentadiene	0.853	U	U	U	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Hexachloroethane	0.853	U	0.508	0.473	59.6	55.3	2	10.0-120	J	J	7.12	40
Indeno(1,2,3-cd)pyrene	0.853	U	0.340	0.328	39.9	38.4	2	10.0-120			3.62	32
Isophorone	0.853	U	0.475	0.477	55.7	55.8	2	13.0-120	J	J	0.565	34
Naphthalene	0.853	U	0.456	0.438	53.5	51.3	2	10.0-120			3.91	35
Nitrobenzene	0.853	U	0.459	0.465	53.8	54.4	2	10.0-120	J	J	1.46	36
n-Nitrosodimethylamine	0.853	U	0.565	0.535	66.2	62.6	2	10.0-127	J	J	5.38	40
n-Nitrosodiphenylamine	0.853	U	0.543	0.518	63.7	60.5	2	17.0-120	J	J	4.82	29
n-Nitrosodi-n-propylamine	0.853	U	0.522	0.498	61.2	58.2	2	10.0-120	J	J	4.75	37
Phenanthrene	0.853	0.0249	0.554	0.545	62.1	60.8	2	17.0-120			1.71	31
Benzylbutyl phthalate	0.853	U	0.589	0.569	69.1	66.5	2	23.0-120	J	J	3.48	30
Bis(2-ethylhexyl)phthalate	0.853	U	0.592	0.569	69.4	66.5	2	17.0-126	J	J	3.94	30
Di-n-butyl phthalate	0.853	U	0.604	0.551	70.8	64.5	2	30.0-120	J	J	9.08	29
Diethyl phthalate	0.853	U	0.613	0.565	71.9	66.0	2	26.0-120	J	J	8.22	28
Dimethyl phthalate	0.853	U	0.572	0.542	67.0	63.4	2	25.0-120	J	J	5.31	29
Di-n-octyl phthalate	0.853	U	0.578	0.554	67.8	64.8	2	21.0-123	J	J	4.28	29
Pyrene	0.853	0.0371	0.511	0.531	55.6	57.8	2	16.0-121			3.87	32
1,2,4-Trichlorobenzene	0.853	U	0.471	0.471	55.2	55.0	2	12.0-120	J	J	0.000	37
4-Chloro-3-methylphenol	0.853	U	0.527	0.490	61.8	57.2	2	15.0-120	J	J	7.41	30
2-Chlorophenol	0.853	U	0.542	0.512	63.6	59.9	2	15.0-120	J	J	5.61	37
2,4-Dichlorophenol	0.853	U	0.559	0.546	65.6	63.8	2	20.0-120	J	J	2.43	31
2,4-Dimethylphenol	0.853	U	0.504	U	59.1	0.000	2	10.0-120	J	J3 J6	200	33
4,6-Dinitro-2-methylphenol	0.853	U	0.459	0.425	53.8	49.7	2	10.0-120	J	J	7.61	39
2,4-Dinitrophenol	0.853	U	0.446	0.424	52.4	49.5	2	10.0-121	J	J	5.26	40
2-Nitrophenol	0.853	U	0.566	0.524	66.4	61.3	2	12.0-120	J	J	7.64	39
4-Nitrophenol	0.853	U	0.633	0.570	74.3	66.7	2	10.0-137	J	J	10.5	32
Pentachlorophenol	0.853	U	0.518	0.455	60.7	53.1	2	10.0-160	J	J	13.0	31
Phenol	0.853	U	0.512	0.496	60.1	58.0	2	12.0-120	J	J	3.20	38
2,4,6-Trichlorophenol	0.853	U	0.604	0.566	70.8	66.2	2	19.0-120	J	J	6.44	32
(S) 2-Fluorophenol					*72.4*	*64.9*		*12.0-120*				
(S) Phenol-d5					*60.7*	*59.5*		*10.0-120*				
(S) Nitrobenzene-d5					*58.0*	*57.2*		*10.0-122*				
(S) 2-Fluorobiphenyl					*63.1*	*56.3*		*15.0-120*				
(S) 2,4,6-Tribromophenol					*77.3*	*68.7*		*10.0-127*				

L2020055-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L2020055-05 10/02/26 16:36 • (MS) R4433060-3 10/02/26 16:58 • (MSD) R4433060-4 10/02/26 17:20

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
(S) p-Terphenyl-d14					*63.7*	*61.3*		*10.0-120*				

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Langan - Nashville, TN

1 PPG Place
Suite 1950
Pittsburgh. PA 15222

Billing Information:
Ryan Willis
333 Commerce St
Suite 600
Nashville, TN 37201

Pres Chk

Report to:
Tom Antonacci 724-514-5165

Email To:
tantonacci@langan.com;rwillis@langan.com;lm

Project Description:
Glacier

City/State Collected: Birmingham, AL

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
350120001

Lab Project #
LANGANNTN-BIRMINGHAM

Collected by (print):
Luke McKeon

Site/Facility ID #
BIRMINGHAM, AL

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
X Three Day ___ STD TAT

Quote #

Date Results Needed
10/01/26

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	M6010PP 8ozClr-NoPres	SUBPFAS1633 PFAS-90mlPP-NoPres	SV8081/8082 8ozClr-NoPres	SV8270 8ozClr-NoPres	SV8321HERB 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks PID(PPm)	Sample # (lab only)
IFS-01-09282026	Grab	SS	3 ft	9/28/26	13:40	3	X			X			0.4	-01
IFS-02-09282026		SS	5		13:51								1.0	-02
IFS-03-09282026		SS	7		14:00								0.8	-03
IFS-04-09282026		SS	6		14:10								0.4	-04
IFS-05-09282026		SS	2		14:19								0.8	-05
IFS-06-09282026		SS	8		14:34								0.4	-06
IFS-07-09282026		SS	1		15:21								0.4	-07
IFS-08-09282026		SS	9		15:02								0.5	-08
IFS-09-09282026		SS	10		14:52								0.6	-09
IFS-10-09282026		SS	4		15:11								0.7	-10

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L2019920
Table # G023
Acctnum: LANGANNTN
Template: T297599
Prelogin: P1247796
PM: 4089 - Andi R Jones
PB: 8-19-26
Shipped Via: Client

* Matrix:
(SS) - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Send PFAS1633 to Pace Mansfield
Confirm analysis via Tom - 8/10 Sample sets missing labels - Labels in bag
Iced tops

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No (HCL) / MeoH TBR	If preservation required by Login: Date/Time
	9/28/26	20:00		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 30	
				AHA 0.3 + 0 = 0.3	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/29/26 Time: 0800	Hold: / Condition: NCF / OK

ANALYTICAL REPORT

October 07, 2026

Langan - Plttsburgh, PA

Sample Delivery Group:	L2019949
Samples Received:	09/29/2026
Project Number:	350120001
Description:	Glaicier
Site:	BIRMINGHAM, AL
Report To:	Tom Antonacci
	1 PPG Place
	Suite 1950
	Pittsburgh, PA 15222

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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IFS-01-09282026 L2019949-01

Collected by: Luke McKeon | Collected date/time: 09/28/26 13:40 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-02-09282026 L2019949-02

Collected by: Luke McKeon | Collected date/time: 09/28/26 13:51 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-03-09282026 L2019949-03

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:00 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-04-09282026 L2019949-04

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:10 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-05-09282026 L2019949-05

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:19 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-06-09282026 L2019949-06

Collected by: Luke McKeon | Collected date/time: 09/28/26 14:34 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-07-09282026 L2019949-07

Collected by: Luke McKeon | Collected date/time: 09/28/26 15:21 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-08-09282026 L2019949-08

Collected by: Luke McKeon | Collected date/time: 09/28/26 15:02 | Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-09-09282026 L2019949-09

Collected by: Luke McKeon
Collected date/time: 09/28/26 14:52
Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

IFS-10-09282026 L2019949-10

Collected by: Luke McKeon
Collected date/time: 09/28/26 15:11
Received date/time: 09/29/26 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2843434	1	10/07/26 00:00	10/07/26 00:00	SSD	Subcontract

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Andi R Jones
Project Manager

Project Narrative

L2019949 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10 contains subout data that is included after the chain of custody.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Langan - Nashville, TN

1 PPG Place
Suite 1950
Pittsburgh, PA 15222

Billing Information:
Ryan Willis
333 Commerce St
Suite 600
Nashville, TN 37201

Pres Chk

Report to:
Tom Antonacci 724-514-5165

Email To:
tantonacci@langan.com;rwillis@langan.com;lm

Project Description:
Glacier

City/State Collected: Birmingham, AL

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
350120001

Lab Project #
LANGANNTN-BIRMINGHAM

Collected by (print):
Luke McKean

Site/Facility ID #
BIRMINGHAM, AL

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day ___ STD TAT

Quote #

Date Results Needed
10/01/26

Immediately Packed on Ice N___ Y X

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	M6010PP 8ozClr-NoPres	SUBPFAS1633 PFAS-90mlPP-NoPres	SV8081/8082 8ozClr-NoPres	SV8270 8ozClr-NoPres	SV8321HERB 8ozClr-NoPres	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
IFS-01-09262026	Grab	SS	3 ft	9/28/26	13:40	3	X			X			PID 0.4	-01
IFS-02-09282026		SS	5		13:51								1.0	-02
IFS-03-09282026		SS	7		14:00								0.8	-03
IFS-04-09282026		SS	6		14:10								0.4	-04
IFS-05-09282026		SS	2		14:19								0.8	-05
IFS-06-09282026		SS	8		14:34								0.4	-06
IFS-07-09282026		SS	1		15:21								0.4	-07
IFS-08-09282026		SS	9		15:02								0.5	-08
IFS-09-09282026		SS	10		14:52								0.6	-09
IFS-10-09282026		SS	4		15:11								0.7	-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Send PFAS1633 to Pace Mansfield
Confirm analysis via Tom
- 8/10 sample sets missing labels - Labels in bag
Included trips

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeoH) TBR
	9/28/26	20:00		1
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 30
				AHA 80.3 + 0 = 0.3
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				9/29/26 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG# ~~L2019920~~ L2019949 9/29/26

Table # G023

Acctnum: LANGANNTN
Template: T297599
Prelogin: P1247796
PM: 4089 - Andi R Jones
PB: 8-19-26

Shipped Via: Client

ANALYTICAL REPORT

Lab Number:	L2664449
Client:	Pace Mt. Juliet, TN 12065 Lebanon Road Mt. Juliet, TN 37122
ATTN:	James Huckaba
Phone:	(615) 773-9775
Project Name:	L2019949
Project Number:	L2019949
Report Date:	10/07/26

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2664449-01	IFS-01-09282026	SOIL	AL	09/28/26 13:40	09/30/26
L2664449-02	IFS-02-09282026	SOIL	AL	09/28/26 13:51	09/30/26
L2664449-03	IFS-03-09282026	SOIL	AL	09/28/26 14:00	09/30/26
L2664449-04	IFS-04-09282026	SOIL	AL	09/28/26 14:10	09/30/26
L2664449-05	IFS-05-09282026	SOIL	AL	09/28/26 14:19	09/30/26
L2664449-06	IFS-06-09282026	SOIL	AL	09/28/26 14:34	09/30/26
L2664449-07	IFS-07-09282026	SOIL	AL	09/28/26 15:21	09/30/26
L2664449-08	IFS-08-09282026	SOIL	AL	09/28/26 15:02	09/30/26
L2664449-09	IFS-09-09282026	SOIL	AL	09/28/26 14:52	09/30/26
L2664449-10	IFS-10-09282026	SOIL	AL	09/28/26 15:11	09/30/26

Project Name:	L2019949	**Lab Number:**	L2664449
Project Number:	L2019949	**Report Date:**	10/07/26

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	L2019949	**Lab Number:**	L2664449
Project Number:	L2019949	**Report Date:**	10/07/26

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2664449-01 through 10: The analysis of Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) exceeded the 3-day holding time recommended by the method for soil/sediment and tissue matrices.

L2664449-05D and -05D2: The sample was re-analyzed on dilution due to EIS failure in the original analysis. The results of the re-analysis are reported for the associated target compounds.

L2664449-05: The Extracted Internal Standard recoveries were below the acceptance criteria for perfluoro[1,2-13c2]dodecanoic acid (mpfdoa) (37%) and perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (17%); however, the associated target analytes are not reported from this analysis.

L2664449-05D: The Extracted Internal Standard recoveries were below the acceptance criteria for perfluoro[1,2-13c2]tetradecanoic acid (m2pfteda) (18%); however, the associated target analytes are not reported from this analysis.

WG2278026-1R2: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

The Extracted Internal Standard recovery for the WG2278026-3 LCS associated with L2664449-01 through -10 is outside the acceptance criteria for perfluoro[13c4]butanoic acid (mpfba) (131%), perfluoro[1,2,3,4-13c4]heptanoic acid (m4pfhpa) (132%), perfluoro[13c8]octanoic acid (m8pfoa) (152%), and perfluoro[13c8]octanesulfonic acid (m8pfos) (131%); however, all associated target analytes are within overall LCS criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Ashley Leitao Ashley Leitao

Title: Technical Director/Representative Date: 10/07/26

QC OUTLIER SUMMARY REPORT

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab								
1633A	IFS-05-09282026	L2664449-05	Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	Surrogate	37	40-130	-	- - not applicable - -
1633A	IFS-05-09282026	L2664449-05	Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	Surrogate	17	20-130	-	- - not applicable - -
1633A	IFS-05-09282026	L2664449-05 D	Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	Surrogate	18	20-130	-	- - not applicable - -
1633A	Batch QC	WG2278026-3	Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	Surrogate	131	8-130	-	- - not applicable - -
1633A	Batch QC	WG2278026-3	Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	Surrogate	132	40-130	-	- - not applicable - -
1633A	Batch QC	WG2278026-3	Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	Surrogate	152	40-130	-	- - not applicable - -
1633A	Batch QC	WG2278026-3	Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	Surrogate	131	40-130	-	- - not applicable - -

ORGANICS

SEMIVOLATILES

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-01
Client ID: IFS-01-09282026
Sample Location: AL

Date Collected: 09/28/26 13:40
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 15:51
Analyst: SL
Percent Solids: 92%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.790	0.530	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.395	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.049	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.790	0.152	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.198	0.162	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.071	1
Perfluorohexanesulfonic Acid (PFHxS)	0.091	J	ng/g	0.198	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.198	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.790	0.474	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.034	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.198	0.032	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.198	0.103	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.049	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.790	0.233	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.093	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.095	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.087	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.093	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.113	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.077	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.099	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.091	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.144	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.790	0.158	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.790	0.280	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-01 Date Collected: 09/28/26 13:40

Client ID: IFS-01-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.093	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.790	0.154	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.790	0.391	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.059	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.065	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.247	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.239	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.395	0.036	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.395	0.051	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.395	0.047	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.395	0.118	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.988	0.342	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.94	1.39	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.94	1.93	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-01 Date Collected: 09/28/26 13:40

Client ID: IFS-01-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	84		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	88		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	55		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	67		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	82		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	91		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	52		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	68		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	70		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	51		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	62		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	51		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	61		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	56		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	41		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	41		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	27		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	100		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	18		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	16		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	44		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	36		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-02
Client ID: IFS-02-09282026
Sample Location: AL

Date Collected: 09/28/26 13:51
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 16:00
Analyst: SL
Percent Solids: 94%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.797	0.534	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.399	0.080	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.199	0.050	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.797	0.154	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.199	0.163	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.199	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.199	0.072	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.199	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.199	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.797	0.478	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.199	0.034	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.199	0.032	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.199	0.104	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.199	0.050	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.797	0.235	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.199	0.094	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.199	0.096	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.199	0.088	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.199	0.094	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.199	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.199	0.078	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.199	0.100	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.199	0.092	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.199	0.146	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.797	0.159	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.797	0.283	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-02 Date Collected: 09/28/26 13:51

Client ID: IFS-02-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.199	0.094	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.797	0.155	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.797	0.395	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.199	0.060	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.199	0.066	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.99	0.249	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.99	0.241	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.399	0.036	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.399	0.052	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.399	0.048	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.399	0.120	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.997	0.345	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.98	1.40	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.98	1.94	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-02 Date Collected: 09/28/26 13:51

Client ID: IFS-02-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	79		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	70		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	71		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	78		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	103		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	83		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	79		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	70		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	77		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	86		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	65		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	69		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	43		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	88		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	31		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	26		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	54		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-03
Client ID: IFS-03-09282026
Sample Location: AL

Date Collected: 09/28/26 14:00
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 16:09
Analyst: SL
Percent Solids: 92%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.805	0.540	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.403	0.081	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.201	0.050	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.805	0.155	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.201	0.165	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.201	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.201	0.073	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.201	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.201	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.805	0.483	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.201	0.034	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.201	0.032	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.201	0.105	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.201	0.050	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.805	0.238	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.201	0.095	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.201	0.097	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.201	0.089	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.201	0.095	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.201	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.201	0.079	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.201	0.101	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.201	0.093	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.201	0.147	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.805	0.161	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.805	0.286	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-03 Date Collected: 09/28/26 14:00

Client ID: IFS-03-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.201	0.095	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.805	0.157	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.805	0.399	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.201	0.060	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.201	0.066	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.01	0.252	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.01	0.244	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.403	0.036	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.403	0.052	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.403	0.048	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.403	0.121	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.01	0.348	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.03	1.41	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.03	1.96	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-03 Date Collected: 09/28/26 14:00

Client ID: IFS-03-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	99		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	103		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	79		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	103		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	114		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	89		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	97		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	84		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	89		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	90		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	76		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	65		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	80		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	87		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	61		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	63		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	46		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	107		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	26		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	23		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	59		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	48		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-04
Client ID: IFS-04-09282026
Sample Location: AL

Date Collected: 09/28/26 14:10
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 16:44
Analyst: SL
Percent Solids: 90%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.766	0.513	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.383	0.077	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.191	0.048	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.766	0.147	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.191	0.157	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.191	0.027	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.191	0.069	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.191	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.191	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.766	0.459	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.191	0.033	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.191	0.031	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.191	0.100	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.191	0.048	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.766	0.226	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.191	0.090	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.191	0.092	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.191	0.084	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.191	0.090	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.191	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.191	0.075	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.191	0.096	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.191	0.088	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.191	0.140	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.766	0.153	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.766	0.272	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-04 Date Collected: 09/28/26 14:10

Client ID: IFS-04-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.191	0.090	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.766	0.149	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.766	0.379	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.191	0.057	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.191	0.063	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.91	0.239	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.91	0.232	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.383	0.034	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.383	0.050	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.383	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.383	0.115	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.957	0.331	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.78	1.34	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.78	1.87	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-04 Date Collected: 09/28/26 14:10

Client ID: IFS-04-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	73		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	72		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	111		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	95		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	83		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	111		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	71		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	69		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	82		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	74		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	69		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	81		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	81		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	67		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	60		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	33		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	120		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	25		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	21		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	58		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	51		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05
Client ID: IFS-05-09282026
Sample Location: AL

Date Collected: 09/28/26 14:19
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 16:53
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.785	0.526	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.392	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.196	0.049	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.785	0.151	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.196	0.161	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.196	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.196	0.071	1
Perfluorohexanesulfonic Acid (PFHxS)	0.077	J	ng/g	0.196	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.196	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.785	0.471	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.196	0.033	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.196	0.031	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.196	0.102	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.196	0.049	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.785	0.232	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.196	0.092	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.196	0.094	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.196	0.086	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.196	0.092	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.196	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.196	0.077	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.785	0.157	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.785	0.279	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.196	0.092	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.785	0.153	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 Date Collected: 09/28/26 14:19

Client ID: IFS-05-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.785	0.388	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.196	0.059	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.196	0.065	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.96	0.245	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.96	0.237	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.392	0.035	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.392	0.051	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.392	0.047	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.392	0.118	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.981	0.340	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.91	1.38	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.91	1.91	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 Date Collected: 09/28/26 14:19

Client ID: IFS-05-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	80		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	56		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	64		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	56		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	80		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	64		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	62		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	62		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	77		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	57		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	51		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	56		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	69		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	48		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	**37**	Q	40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	**17**	Q	20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	85		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	19		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	16		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	53		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	41		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 D2
Client ID: IFS-05-09282026
Sample Location: AL

Date Collected: 09/28/26 14:19
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/06/26 19:54
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	1.96	1.43	10

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 D2 Date Collected: 09/28/26 14:19

Client ID: IFS-05-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	65		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	77		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	77		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	70		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	74		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	78		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	67		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	71		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	58		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	66		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	79		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	51		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	49		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	23		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	76		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	18		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	17		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	56		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 D
Client ID: IFS-05-09282026
Sample Location: AL

Date Collected: 09/28/26 14:19
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/06/26 16:47
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.981	0.491	5
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.981	0.451	5

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05 D Date Collected: 09/28/26 14:19

Client ID: IFS-05-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	78		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	82		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	59		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	72		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	69		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	72		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	58		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	74		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	83		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	60		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	72		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	85		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	54		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	61		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	65		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	50		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	41		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	**18**	Q	20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	63		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	17		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	13		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	51		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	36		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-06
Client ID: IFS-06-09282026
Sample Location: AL

Date Collected: 09/28/26 14:34
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 17:02
Analyst: SL
Percent Solids: 92%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.749	0.502	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.374	0.075	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.187	0.047	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.749	0.144	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.187	0.154	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.187	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.187	0.067	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.187	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.187	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.749	0.449	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.187	0.032	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.187	0.030	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.187	0.097	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.187	0.047	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.749	0.221	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.187	0.088	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.187	0.090	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.187	0.082	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.187	0.088	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.187	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.187	0.073	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.187	0.094	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.187	0.086	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.187	0.137	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.749	0.150	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.749	0.266	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-06 Date Collected: 09/28/26 14:34

Client ID: IFS-06-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.187	0.088	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.749	0.146	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.749	0.371	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.187	0.056	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.187	0.062	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.87	0.234	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.87	0.226	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.374	0.034	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.374	0.049	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.374	0.045	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.374	0.112	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.936	0.324	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.68	1.31	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.68	1.82	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-06 Date Collected: 09/28/26 14:34

Client ID: IFS-06-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	93		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	86		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	71		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	71		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	91		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	113		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	74		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	97		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	77		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	86		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	98		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	90		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	73		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	69		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	75		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	67		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	51		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	45		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	92		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	21		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	17		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	49		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	41		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-07
Client ID: IFS-07-09282026
Sample Location: AL

Date Collected: 09/28/26 15:21
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 17:11
Analyst: SL
Percent Solids: 98%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.804	0.539	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.402	0.080	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.201	0.050	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.804	0.155	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.201	0.165	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.201	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.201	0.072	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.201	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.201	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.804	0.483	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.201	0.034	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.201	0.032	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.201	0.104	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.201	0.050	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.804	0.237	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.201	0.095	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.201	0.097	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.201	0.089	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.201	0.095	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.201	0.115	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.201	0.078	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.201	0.100	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.201	0.093	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.201	0.147	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.804	0.161	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.804	0.286	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-07 Date Collected: 09/28/26 15:21

Client ID: IFS-07-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.201	0.095	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.804	0.157	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.804	0.398	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.201	0.060	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.201	0.066	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.01	0.251	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.01	0.243	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.402	0.036	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.402	0.052	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.402	0.048	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.402	0.121	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.348	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.03	1.41	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.03	1.96	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-07 Date Collected: 09/28/26 15:21

Client ID: IFS-07-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	98		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	73		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	116		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	99		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	97		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	62		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	77		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	66		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	53		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	51		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	38		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	105		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	19		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	18		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	44		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	38		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-08
Client ID: IFS-08-09282026
Sample Location: AL

Date Collected: 09/28/26 15:02
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 17:20
Analyst: SL
Percent Solids: 89%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.791	0.530	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.396	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.049	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.791	0.152	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.198	0.162	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.028	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.071	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.065	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.198	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.791	0.475	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.034	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.198	0.032	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.198	0.103	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.049	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.791	0.233	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.093	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.095	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.087	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.093	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.113	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.077	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.099	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.091	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.144	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.791	0.158	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.791	0.281	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-08 Date Collected: 09/28/26 15:02

Client ID: IFS-08-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.093	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.791	0.154	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.791	0.392	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.059	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.065	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.247	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.239	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.396	0.036	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.396	0.051	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.396	0.048	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.396	0.119	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.989	0.342	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.94	1.39	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.94	1.93	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-08 Date Collected: 09/28/26 15:02

Client ID: IFS-08-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	95		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	90		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	77		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	70		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	109		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	88		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	82		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	97		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	73		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	61		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	70		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	74		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	51		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	47		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	41		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	87		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	23		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	21		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	48		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	40		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-09
Client ID: IFS-09-09282026
Sample Location: AL

Date Collected: 09/28/26 14:52
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 17:29
Analyst: SL
Percent Solids: 90%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.756	0.506	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.378	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.189	0.047	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.756	0.145	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.189	0.155	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.189	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.189	0.068	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.189	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.189	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.756	0.453	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.189	0.032	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.189	0.030	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.189	0.098	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.189	0.047	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.756	0.223	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.189	0.089	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.189	0.091	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.189	0.083	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.189	0.089	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.189	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.189	0.074	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.189	0.095	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.189	0.087	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.189	0.138	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.756	0.151	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.756	0.268	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-09 Date Collected: 09/28/26 14:52

Client ID: IFS-09-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.189	0.089	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.756	0.147	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.756	0.374	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.189	0.057	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.189	0.062	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.89	0.236	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.89	0.229	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.378	0.034	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.378	0.049	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.378	0.045	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.378	0.113	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.945	0.327	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.72	1.33	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.72	1.84	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-09 Date Collected: 09/28/26 14:52

Client ID: IFS-09-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	97		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	83		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	80		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	95		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	107		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	80		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	75		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	90		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	79		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	73		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	60		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	103		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	26		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	23		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	59		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	48		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-10
Client ID: IFS-10-09282026
Sample Location: AL

Date Collected: 09/28/26 15:11
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 168,1633A
Analytical Date: 10/03/26 17:38
Analyst: SL
Percent Solids: 94%

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.773	0.518	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.387	0.077	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.193	0.048	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.773	0.149	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.193	0.158	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.193	0.027	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.193	0.070	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.193	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.193	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.773	0.464	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.193	0.033	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.193	0.031	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.193	0.100	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.193	0.048	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.773	0.228	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.193	0.091	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.193	0.093	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.193	0.085	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.193	0.091	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.193	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.193	0.075	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.193	0.097	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.193	0.089	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.193	0.141	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.773	0.155	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.773	0.274	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-10 Date Collected: 09/28/26 15:11

Client ID: IFS-10-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.193	0.091	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.773	0.151	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.773	0.383	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.193	0.058	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.193	0.064	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.93	0.242	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.93	0.234	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.387	0.035	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.387	0.050	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.387	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.387	0.116	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.967	0.334	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.83	1.36	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.83	1.88	1

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-10 Date Collected: 09/28/26 15:11

Client ID: IFS-10-09282026 Date Received: 09/30/26

Sample Location: AL Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	82		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	68		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	67		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	83		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	80		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	93		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	72		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	74		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	81		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	70		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	63		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	78		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	67		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	54		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	56		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	38		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	93		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	21		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	18		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	46		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	37		15-130

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 10/06/26 12:27
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-10 Batch: WG2278026-1 R2					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.536
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.080
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.050
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.154
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.164
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.028
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.072
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.066
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.044
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.480
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.034
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.104
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.050
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.236
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.094
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.096
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.088
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.094
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.114
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.078
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.100
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.092

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 10/06/26 12:27
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-10 Batch: WG2278026-1 R2					
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.146
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.160
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.284
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.094
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.156
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.396
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.060
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.066
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.242
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.036
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.052
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.048
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.120
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.346
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	1.40
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.95

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 10/06/26 12:27
Analyst: JW

Extraction Method: EPA 1633
Extraction Date: 10/02/26 11:50
Cleanup Method: EPA 1633
Cleanup Date: 10/02/26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-10 Batch: WG2278026-1 R2					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	105		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	112		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	84		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	111		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	103		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	102		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	76		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	114		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	102		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	101		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	68		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	100		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	98		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	68		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	86		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	73		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	52		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	57		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	22		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	88		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	21		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	17		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	56		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	54		15-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	101		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	111		-		60-150	-		
Perfluorobutanesulfonic Acid (PFBS)	90		-		65-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	96		-		60-150	-		
Perfluorohexanoic Acid (PFHxA)	90		-		65-140	-		
Perfluoropentanesulfonic Acid (PFPeS)	94		-		55-160	-		
Perfluoroheptanoic Acid (PFHpA)	98		-		65-145	-		
Perfluorohexanesulfonic Acid (PFHxS)	120		-		60-150	-		
Perfluorooctanoic Acid (PFOA)	96		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	108		-		55-200	-		
Perfluoroheptanesulfonic Acid (PFHpS)	111		-		65-155	-		
Perfluorononanoic Acid (PFNA)	96		-		70-155	-		
Perfluorooctanesulfonic Acid (PFOS)	98		-		65-160	-		
Perfluorodecanoic Acid (PFDA)	110		-		70-155	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		-		70-150	-		
Perfluorononanesulfonic Acid (PFNS)	88		-		55-140	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	127		-		65-155	-		
Perfluoroundecanoic Acid (PFUnA)	102		-		70-155	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-2 LOW LEVEL								
Perfluorodecanesulfonic Acid (PFDS)	83		-		40-155	-		
Perfluorooctanesulfonamide (PFOSA)	109		-		70-140	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	122		-		65-165	-		
Perfluorododecanoic Acid (PFDoA)	103		-		70-150	-		
Perfluorotridecanoic Acid (PFTrDA)	102		-		65-150	-		
Perfluorotetradecanoic Acid (PFTeDA)	104		-		65-150	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	97		-		70-145	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	103		-		70-160	-		
Perfluorododecanesulfonic Acid (PFDoS)	47		-		25-160	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	106		-		70-150	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	77		-		45-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		70-155	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	104		-		70-140	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	104		-		70-140	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	102		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	93		-		30-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-2 LOW LEVEL								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	110		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	84		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	127		-		60-155	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	111		-		45-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	104		-		60-130	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	81		-		60-150	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	96				8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	86				35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	80				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	82				40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	93				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	79				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	111				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	83				40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	84				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	99				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75				40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	77				40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	85				40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	96				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	69				40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	69				40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	55				20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	100				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	33				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	30				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	67				20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	56				15-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-3								
Perfluorobutanoic Acid (PFBA)	111		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	128		-		60-150	-		
Perfluorobutanesulfonic Acid (PFBS)	98		-		65-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	120		-		60-150	-		
Perfluorohexanoic Acid (PFHxA)	110		-		65-140	-		
Perfluoropentanesulfonic Acid (PFPeS)	104		-		55-160	-		
Perfluoroheptanoic Acid (PFHpA)	115		-		65-145	-		
Perfluorohexanesulfonic Acid (PFHxS)	108		-		60-150	-		
Perfluorooctanoic Acid (PFOA)	94		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	112		-		55-200	-		
Perfluoroheptanesulfonic Acid (PFHpS)	114		-		65-155	-		
Perfluorononanoic Acid (PFNA)	103		-		70-155	-		
Perfluorooctanesulfonic Acid (PFOS)	102		-		65-160	-		
Perfluorodecanoic Acid (PFDA)	123		-		70-155	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		-		70-150	-		
Perfluorononanesulfonic Acid (PFNS)	103		-		55-140	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	115		-		65-155	-		
Perfluoroundecanoic Acid (PFUnA)	117		-		70-155	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-3								
Perfluorodecanesulfonic Acid (PFDS)	80		-		40-155	-		
Perfluorooctanesulfonamide (PFOSA)	96		-		70-140	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		65-165	-		
Perfluorododecanoic Acid (PFDoA)	103		-		70-150	-		
Perfluorotridecanoic Acid (PFTrDA)	84		-		65-150	-		
Perfluorotetradecanoic Acid (PFTeDA)	102		-		65-150	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	108		-		70-145	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	101		-		70-160	-		
Perfluorododecanesulfonic Acid (PFDoS)	46		-		25-160	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	116		-		70-150	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	80		-		45-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	121		-		70-155	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	114		-		70-140	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	112		-		70-140	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	107		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	102		-		30-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-3								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	112		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	99		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	125		-		60-155	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	124		-		45-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	111		-		60-130	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	82		-		60-150	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-10 Batch: WG2278026-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	**131**	Q			8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	113				35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	118				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	108				40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	114				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	**132**	Q			40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	120				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	**152**	Q			40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	114				40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	118				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	**131**	Q			40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	129				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	111				40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	110				40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	114				40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	121				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	99				40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	97				40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	69				20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	124				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	41				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	38				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	83				20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	75				15-130

INORGANICS
&
MISCELLANEOUS

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-01
Client ID: IFS-01-09282026
Sample Location: AL

Date Collected: 09/28/26 13:40
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	91.6		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-02
Client ID: IFS-02-09282026
Sample Location: AL

Date Collected: 09/28/26 13:51
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	94.2		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-03
Client ID: IFS-03-09282026
Sample Location: AL

Date Collected: 09/28/26 14:00
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	92.4		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-04
Client ID: IFS-04-09282026
Sample Location: AL

Date Collected: 09/28/26 14:10
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	89.7		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-05
Client ID: IFS-05-09282026
Sample Location: AL

Date Collected: 09/28/26 14:19
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	91.4		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-06
Client ID: IFS-06-09282026
Sample Location: AL

Date Collected: 09/28/26 14:34
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	91.7		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-07
Client ID: IFS-07-09282026
Sample Location: AL

Date Collected: 09/28/26 15:21
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	97.5		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-08
Client ID: IFS-08-09282026
Sample Location: AL

Date Collected: 09/28/26 15:02
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	88.7		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-09
Client ID: IFS-09-09282026
Sample Location: AL

Date Collected: 09/28/26 14:52
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	89.7		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

SAMPLE RESULTS

Lab ID: L2664449-10
Client ID: IFS-10-09282026
Sample Location: AL

Date Collected: 09/28/26 15:11
Date Received: 09/30/26
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	93.6		%	0.100	0.100	1	-	10/01/26 09:59	121,2540G	ALL

Lab Duplicate Analysis

Batch Quality Control

Project Name: L2019949

Project Number: L2019949

Lab Number: L2664449

Report Date: 10/07/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG2277523-1 QC Sample: L2664449-01 Client ID: IFS-01-09282026						
Solids, Total	91.6	92.1	%	1		10

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2664449-01A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-02A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-03A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-04A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-05A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-06A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-07A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-08A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-09A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)
L2664449-10A	Plastic 90mL Unpreserved for PFAS	NA	NA			Y	Absent		A2-TS(7),A2-1633(90)

*Values in parentheses indicate holding time in days

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: L2019949
Project Number: L2019949

Lab Number: L2664449
Report Date: 10/07/26

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	L2019949	**Lab Number:**	L2664449
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers

Project Name:	L2019949	**Lab Number:**	L2664449
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Data Qualifiers

estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: L2019949 **Lab Number:** L2664449

Project Number: L2019949 **Report Date:** 10/07/26

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

168 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. EPA Method 1633A, EPA 820-R-24-007, December 2024. For MCP, WSC-CAM-XA, September 2025. For CT DEEP RCP, USEPA Method 1633, Version 1.0, July 2026.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

PAS-MAN1 Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028
EPA 524.2: 1,3,5-Trichlorobenzene, m/p-Xylene, o-xylene.
EPA 625.1: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodiphenylamine.
EPA 8081B NPW and SCM: Alachlor, Endrin Ketone, Hexachlorobenzene.
EPA 8260D NPW: Tetrahydrofuran, 1,3,5-Trichlorobenzene; **SCM:** TAME, TBEE, Diethyl ether, DIPE, Tetrahydrofuran. 1,3,5-Trichlorobenzene, Freon-113.
EPA 8270E: NPW: Carbazole, 1-Methylnaphthalene, Pentachloronitrobenzene; **SCM:** Carbazole, 1-Methylnaphthalene.
EPA TO-13: Air: Benzo(e)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Perylene.
EPA TO-4A Pesticide Air: delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Hexachlorobenzene, Methoxychlor.
SM4500: NPW: Amenable Cyanide; **SCM:** Total Phosphorus, TKN, NH3, NECi: NO2, NO3, ASTMD516.

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 504.1: EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028

Drinking Water
EPA 300.0: NO3, NO2, Fl, Cl, SO4. **NECI Reductase**: NO3, NO2.
SM4500F-C, SM4500Cl-B, SM4500CN-C,E, EPA 180.1, SM2320B, SM 2540C, SM4500H-B, SM4500SO4-E.
EPA 537.1; EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9223-P/A: TC/EC; SM9223B-Colilert-enumeration: TC/EC; HPC-Simplate.

Non-Potable Water
SM4500H-B, SM2510B, SM2540C, SM2320B, SM4500Cl-B, SM4500NH3-B, C, EPA 350.1, NECi: NO3, **SM4500NH3-B, C: TKN, SM4500P-E: Ortho Phosphate, SM4500P-B, E: Total Phosphorus, EPA 410.4, SM5210B, SM5310C, SM4500CN-C, E, SM2540D, SM4500Cl-G, SM4500SO4-E, EPA 1664, EPA 420.1, EPA 300.0:** Cl, SO4, NO3.
EPA 624.1: Volatile Halocarbons, Volatile Aromatics.
EPA 608.3: Chlordane, Toxaphene, Aldrin, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs.
EPA 625.1: SVOC-Acid Extractables and Base/Neutrals
Microbiology: SM9223B-Colilert: E. coli (Ambient and Wastewater), **SM9223B-Colilert-18:** Fecal Coliform (Wastewater).

Certification IDs:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NV MA00030, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

PAS-MAN1 Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

PAS-ELON East Longmeadow Facility – 39 Spruce St. East Longmeadow, MA 01028
CT PH-0821, ME MA00100, MI 9100, NC (DENR) 652, NC (DW) 25703, MA M-MA100, NH (Secondary) 2516, NH (Primary) 2557, NJ MA007, NY 10899, PA 68-05812, RI LAO00373, VA 460217, VT-255716, WV DEP 419, WV-DW 9979C, LA 05130, LA-DW LA042, MD-DW 373, OH 87781.

For a complete listing of analytes and methods, please contact your Project Manager.

9/30/26

L2664449

Sub-Contract Chain of Custody

Batch Date/Time: 09/29/26 13:23
Sub-Contract Lab: ALPHAWMA
Address: 320 Forbes Boulevard
City/State: Mansfield, MA 02048
Contact:
west.pm.managers@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Road
City/State: Mount Juliet
Phone: 6158185278
Fax:

WO: WG2843434
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 10/07/26
ESC Purchase Order #: L2019949
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Road
Mount Juliet
Phone:6158185278

Sample ID Container ID	Matrix	Location	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
-01 **IFS-01-09282026** PFAS-90mlPP-NoPres - 58436037	SS	Jefferson County	AL	09/28/26 13:40	SUBPFAS163	31. L2019949-01	
IFS-01-09282026 PFAS-90mlPP-NoPres - 58436037*	SS	Jefferson County	AL	09/28/26 13:40	Dry Weight	2. L2019949-01	
-02 **IFS-02-09282026** PFAS-90mlPP-NoPres - 58436038	SS	Jefferson County	AL	09/28/26 13:51	SUBPFAS163	33. L2019949-02	
IFS-02-09282026 PFAS-90mlPP-NoPres - 58436038*	SS	Jefferson County	AL	09/28/26 13:51	Dry Weight	4. L2019949-02	
-03 **IFS-03-09282026** PFAS-90mlPP-NoPres - 58436039	SS	Jefferson County	AL	09/28/26 14:00	SUBPFAS163	35. L2019949-03	
IFS-03-09282026 PFAS-90mlPP-NoPres - 58436039*	SS	Jefferson County	AL	09/28/26 14:00	Dry Weight	6. L2019949-03	
-04 **IFS-04-09282026** PFAS-90mlPP-NoPres - 58436040	SS	Jefferson County	AL	09/28/26 14:10	SUBPFAS163	37. L2019949-04	
IFS-04-09282026 PFAS-90mlPP-NoPres - 58436040*	SS	Jefferson County	AL	09/28/26 14:10	Dry Weight	8. L2019949-04	
-05 **IFS-05-09282026** PFAS-90mlPP-NoPres - 58436041	SS	Jefferson County	AL	09/28/26 14:19	SUBPFAS163	39. L2019949-05	
IFS-05-09282026 PFAS-90mlPP-NoPres - 58436041*	SS	Jefferson County	AL	09/28/26 14:19	Dry Weight	10. L2019949-05	
-06 **IFS-06-09282026** PFAS-90mlPP-NoPres - 58436042	SS	Jefferson County	AL	09/28/26 14:34	SUBPFAS163	311. L2019949-06	
IFS-06-09282026 PFAS-90mlPP-NoPres - 58436042*	SS	Jefferson County	AL	09/28/26 14:34	Dry Weight	12. L2019949-06	
-07 **IFS-07-09282026** PFAS-90mlPP-NoPres - 58436043	SS	Jefferson County	AL	09/28/26 15:21	SUBPFAS163	313. L2019949-07	
IFS-07-09282026 PFAS-90mlPP-NoPres - 58436043*	SS	Jefferson County	AL	09/28/26 15:21	Dry Weight	14. L2019949-07	
-08 **IFS-08-09282026** PFAS-90mlPP-NoPres - 58436044	SS	Jefferson County	AL	09/28/26 15:02	SUBPFAS163	315. L2019949-08	
IFS-08-09282026 PFAS-90mlPP-NoPres - 58436044*	SS	Jefferson County	AL	09/28/26 15:02	Dry Weight	16. L2019949-08	
-09 **IFS-09-09282026** PFAS-90mlPP-NoPres - 58436045	SS	Jefferson County	AL	09/28/26 14:52	SUBPFAS163	317. L2019949-09	
IFS-09-09282026 PFAS-90mlPP-NoPres - 58436045*	SS	Jefferson County	AL	09/28/26 14:52	Dry Weight	18. L2019949-09	
-10 **IFS-10-09282026** PFAS-90mlPP-NoPres - 58436046	SS	Jefferson County	AL	09/28/26 15:11	SUBPFAS163	319. L2019949-10	
IFS-10-09282026 PFAS-90mlPP-NoPres - 58436046*	SS	Jefferson County	AL	09/28/26 15:11	Dry Weight	20. L2019949-10	

*= Container used for multiple Samples and/or Analyses

9/30/26

L2664449

Relinquished by: _____ Date 9.29.26

Received by: FedEx Date _____

Relinquished by: FEDEX Date 9/30/26 1017

Received by: Abby Cundiff Date 9/30/26 1017

RUSH

Sample Delivery Group Summary

Pace Job Number : L2664449
Received : 30-SEP-2026
Reviewer : Charles McCrosson

Account Name : Pace Mt. Juliet, TN
Project Number : L2019949
Project Name : L2019949

Delivery Information

Samples Delivered By : Express Ship
FedEx (100189175436000020480087793481657 7)

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Present/Intact/na	Ice	4.6	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

Attachment 3 ADEM Approval of HHRA Memorandum

Tom Antonacci

From: Jones, Jackson M <jackson.jones@adem.alabama.gov>
Sent: Thursday, October 22, 2026 1:21 PM
To: Tom Antonacci
Subject: FW: 4401 Coalburg Road

Follow Up Flag: Follow up
Flag Status: Flagged

Jackson M Jones
Environmental Scientist
Redevelopment Section
Industrial Hazardous Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, Al 36110-2400
(334) 327-9399 (mobile)
(334) 274-4182 (office)
www.adem.alabama.gov

From: Collins, Crystal <CCollins@adem.alabama.gov>
Sent: Thursday, October 22, 2026 11:58 AM
To: Jones, Jackson M <jackson.jones@adem.alabama.gov>
Subject: RE: 4401 Coalburg Road

This material is lower in arsenic than what was previously assessed. I am okay with this

---

From: Jones, Jackson M <jackson.jones@adem.alabama.gov>
Sent: Wednesday, October 14, 2026 4:40 PM
To: Pierce, Austin R <austin.pierce@adem.alabama.gov>
Cc: Collins, Crystal <CCollins@adem.alabama.gov>
Subject: 4401 Coalburg Road

Consultant is wanting to use arsenic contaminated fill which is slightly above RSL. They have agreed to change their cleanup plan and republic notice if approved. Attached is the soil risk assessment.

Jackson M Jones
Environmental Scientist
Redevelopment Section
Industrial Hazardous Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard

Montgomery, Al 36110-2400
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