



**EARTH
ENGINEERS**
An **RMA** Company

2411 Southeast 8th Avenue • Camas • WA 98607

Phone: 360-567-1806

www.earth-engineers.com

January 13, 2025

Port of Camas-Washougal
24 South A Street
Washougal, Washington 98671
Attention: Trang Lam, CEO

Phone: (360) 835-5560
Email: Trang@portcw.com

**Subject: Remedial Action Work Plan Completion Report
Proposed Hyas Point Mixed-Use Development – Phase 1a and 1b
Former Hambleton Bros Log Yard, Department of Ecology Site No. 4399598
Port of Camas-Washougal
335 South A Street, Washougal, Clark County, Washington
EE Report No. 10-240350-66**

Dear Ms. Lam,

Earth Engineers, an RMA Company (EE) is pleased to transmit our Remedial Action Work Plan Completion Report for the project referenced above. This report describes the completion of the remedial action contracted by the Port of Camas-Washougal at the former Hambleton Bros Log Yard located at 335 South A Street, Washougal, Clark County, Washington (Washington State Department of Ecology Facility Site No. 4399598); specifically, this report addresses the remedial actions conducted in the proposed Hyas Point Mixed-Use Development – Phase 1a and 1b area. Also, note that in previous EE reports, the Hyas Point project location has been referred to as “54 South 2nd Street” and also “Southeast Corner of Intersection of South Marina Way and South 2nd Street.” All of these site location descriptions are intended to refer to the same Hyas Point Mixed-Use Development project location shown in Figure 2.

This remedial action was completed in general accordance with the Work Plan titled “Geotechnical Work Plan–Overexcavation of Organic, Non-Structural Fill & Replacement with Structural Fill at Buildings A-D, Proposed Hyas Point Mixed-Use Development–Phase 1a and 1b, Port of Camas-Washougal, Southeast Corner of Intersection of South Marina Way and South 2nd Street, Washougal, Clark County, Washington, EE Report No. 10-24035-1-R2,” dated April 4, 2024. As discussed in the attached report, the Hyas Point developer and their consultants will need to complete additional remediation for Building A and a portion of Building B. If you have any questions pertaining to this report, or if we may be of further service, please contact our office.

Sincerely,

Earth Engineers, an RMA Company

Troy Hull, P.E.
Principal Geotechnical Engineer

Adam Reese, L.G., L.E.G.
Principal Engineering Geologist

Matt Enos, L.G.
Project Geologist

Attachment: Remedial Action Work Plan Completion Report

Distribution (electronic copy only): Addressee

REMEDIAL ACTION WORK PLAN COMPLETION REPORT



**EARTH
ENGINEERS**
An RMA Company

for the

**Former Hambleton Bros Log Yard
Department of Ecology Site No. 4399598
Port of Camas-Washougal
335 South A Street
Washougal, Clark County, Washington
EEI Report No. 10-240350-66**

Prepared for

**Port of Camas-Washougal
24 South A Street
Washougal, Washington 98671
Attention: Trang Lam**

Prepared by

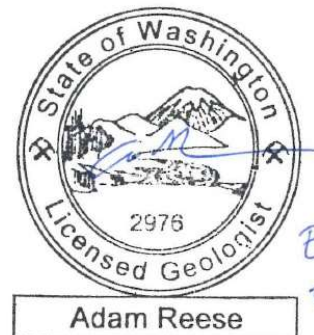
**Earth Engineers, an RMA Company
2411 Southeast 8th Avenue
Camas, Washington 98607
Telephone (360) 567-1806**

EE Report No. 10-240350-66

January 13, 2025



**Troy Hull, P.E.
Principal Geotechnical
Engineer**



**Adam Reese, L.G., L.E.G.
Principal Engineering
Geologist**

**Matt Enos, L.G.
Project Geologist**

TABLE OF CONTENTS

	Page No.
1.0 PROJECT INFORMATION	1
1.1 Project Authorization	1
1.2 Project Description	1
1.3 Purpose and Scope of Services	2
2.0 SITE LOCATION AND HISTORY	3
2.1 Site Location	3
2.2 Site History.....	3
3.0 PROJECT TEAM AND CONSTRUCTION OVERSIGHT	5
4.0 REMEDIAL ACTION SUMMARY	6
4.1 Site Preparation and Layout	6
4.2 Excavation of Protective Cap Soil.....	6
4.3 Excavation of Impacted Soil	6
4.4 Confirmation Environmental Sampling and Testing	8
4.5 Quality Assurance/Quality Control (QA/QC) Analytical Results	9
4.6 Laboratory Analytical Results	10
4.7 Estimated Haul Off Volume	10
4.8 Overexcavation of Non-Structural Fill	11
4.9 Survey of Excavation Extents.....	12
4.10 Structural Backfill and Compaction Testing	12
5.0 FINAL INSPECTION.....	14
6.0 FINDING AND CONCLUSION.....	15
7.0 VARIANCES TO WORK PLAN	16
8.0 LIMITATIONS	17
9.0 REFERENCES	18

FIGURES: **Figure 1 – Development Site Plan with Environmental Cap Areas**
 Figure 2 – Site Location and Vicinity
 Figure 3 – Site Plan with Sample Locations

APPENDICES:
 Appendix A – Photographs
 Appendix B – Laboratory Analytical Summary Tables
 Appendix C – Laboratory Analytical Reports
 Appendix D – Record of Impacted Soil Disposal
 Appendix E – Survey Results

1.0 PROJECT INFORMATION

1.1 Project Authorization

Earth Engineers, an RMA Company (EE) has completed the inspection and documentation of the remedial action work contracted by the Port of Camas-Washougal at the Former Hambleton Bros Log Yard located at 335 South A Street in Washougal, Clark County, Washington ("Hambleton Site"); specifically, this report addresses the remedial actions conducted in the proposed Hyas Point Mixed-Use Development – Phase 1a and 1b area ("Project Site"). Note that references in previous EE documents to a site address of 54 South 2nd Street, or the intersection of South Marina Way and South 2nd Street refer to the same Project Site in Figure 2 attached.

Our Work Plan inspection services were authorized by David Ripp, former CEO for the Port of Camas-Washougal on August 7, 2024 by signing EE Proposal No.10-242112-P-R1, dated August 1, 2024.

1.2 Project Description

This report was completed on behalf of the Port of Camas-Washougal (the Port) by Earth Engineers, an RMA Company (EE), and describes the completion of the remedial action work plan at the former Hambleton Bros Log Yard located at 335 South A Street, Washougal, Washington (Washington State Department of Ecology ["Ecology"] Facility Site No. 4399598). The remedial action was completed in general accordance with EE Report No. 10-240350-01-R2, Geotechnical Work Plan – Overexcavation of Organic, Non-Structural Fill & Replacement with Structural Fill at Buildings A-D Proposed Hyas Point Mixed-Use Development – Phase 1a and 1b.

Briefly, we understand that the Port's developer, RKm Development, intends to prepare the Hyas Point Phase 1 building pads for construction of conventional shallow foundations by overexcavating unsuitable soils and replacing with properly compacted structural fill. EE previously issued a geotechnical investigation report (EE Report No. 21-146-2-R1 dated June 5, 2024) to RKm Development that addressed the proposed construction for the Hyas Point Phase 1 development (previously referred to as The Waterfront at Parkers Landing – Phase 1 project) but that report did not include detailed recommendations specific to this scope of earthwork incorporated in the Work Plan. Hyas Point Phase 1a includes proposed Building A and B. Note that a new geotechnical consultant has recently been retained by RKm Development to replace EE and act as the Geotechnical Engineer of Record and environmental consultant for the project moving forward. As a result of this transition of Geotechnical Engineer of Record and environmental consultant, EE is no longer responsible for the recommendations issued in Report No. 21-146-2-R1 pertaining to the Hyas Point project design and construction.

Prior to EE involvement in this project, a "Soil Management and Cap Maintenance Plan, Former Hambleton Bros Log Yard" (SMCMP) was prepared for the Port (by Maul, Foster & Alongi [MFA],

and dated March 16, 2015). The SMCMP specifies that Ecology must be notified by the Port concerning any potential impacts to the protective cap area. Note that all future reference to the “cap” in this Remedial Action Work Plan Completion Report are referring to the protective cap area as presented in the SMCMP.

A portion of the excavation work associated with the Hyas Point, Phase 1 project occurred within the cap area. The cap is a gravel layer free of environmental contaminants placed on top of the residual contaminated soils (i.e. impacted soils), with a geotextile fabric placed beneath the gravel cap as demarcation layer, as described in the SMCMP. All future reference in this Remedial Action Work Plan Completion Report to “impacted soils” are referring to the residual contaminated soils below the cap. The soil cap profile was designed by MFA to ensure the appropriate degree of protectiveness for ecological and human receptors from the impacted material that remains on the property. The soil cap is at least 2 feet thick, varies in thickness, and is installed on top of a demarcation fabric.

The MFA plan was prepared in accordance with the requirement of Washington Administrative Code (WAC) 173-340-440 and related provisions of the November 2007 update of the Washington State Model Toxics Control Act (MTCA). The SMCMP addresses soil management procedures to be followed in event of future development or any condition in which the caps are breached. Because a portion of the proposed building pad overexcavation work will occur within the cap area, the work needed to comply with the SMCMP recommendations, which are outlined later in this Work Plan. See Figure 1 below for the location of the cap area in relation to the proposed building pads.

1.3 Purpose and Scope of Services

The purpose of our services was to provide environmental and geotechnical services throughout the excavation of impacted soil and subsequent backfill. The remedial action was designed to meet the requirements of the SMCMP recommendations.

This report briefly outlines the methods and procedures utilized throughout the excavation and backfill process, presents available project information, describes the Project Site and Hambleton Site history, and presents results of the confirmation environmental samples collected.

2.0 SITE LOCATION AND HISTORY

2.1 Site Location

The Project Site, shown in Figure 2, is contained within the greater Ecology Site No. 4399598 (Hambleton Site), which is located in sections 7, 12 and 13 of Township 1 North and Range 3 East, of the Willamette Meridian (see Figure 2). The Project Site is approximately 1,000 feet long and 1,600 feet wide (east-west) and is zoned as Highway Commercial (CH). The Hambleton Site is bordered by State Route 14 to the north, South Second Street to the west, a residential apartment complex to the east and the Columbia River to the south.

2.2 Site History

Earth Engineers has had limited involvement in the former Hambleton Site starting in about 2021. Our description of the Hambleton Site below is based on review of existing documentation.

“Between approximately 1948 and 2010, the Site was occupied by a lumber mill. The lumber mill operations expanded over the years to occupy most of the Site. The Hambleton Lumber Company originally leased the land from the Port in 1953 and eventually bought the Site in the 1970s. The company operated in a niche market, with approximately 75 percent of the mill production in large dimension green Douglas fir, hemlock, and spruce timbers. Historical lumber mill activities included log storage, sawmill, planer, lumber storage and shipping, and other operations ancillary to mill operations.”¹

At one time, the Hambleton Site contained an equipment mechanical shop, a chemical storage shed, a single family residence, a mill, a debarker, and a planer building. Wood-treating activities were reported to not be conducted on the Hambleton Site. The debarker burned to the ground in 2009. Because of poor economic conditions, the mill closed in 2010 and the Hambleton Site was purchased by the Port in 2012. The eastern portion of the Hambleton Site was later sold to Killian Pacific to construct the Ninebark Apartments, which borders the Project Site to the east. The portion of the Hambleton Site currently owned by the Port encompasses the areas where impacts are present above MTCA cleanup levels (CULs) as a result of former Hambleton Lumber Company operations.¹

There have been no above grade structures on the portion of the Hambleton Site owned by the Port since demolition of the lumber mill, shop, office, chemical storage shed, and planer building. Demolition of these structures was generally completed in November 2011. Concrete foundations from the demolished structures remained. The Hambleton Site is generally surfaced with asphalt and gravel; however, areas are covered in woody debris from log storage.¹

The Port received a legislative appropriation through the Department of Commerce to complete the remedial action described in this report. The Port released a request for proposal and selected the low bidder (Swofford Excavation, Inc. [Swofford]) to complete the remedial action. The

construction contract was awarded on July 15, 2024, and construction began in August 2024. The Port's remedial action on the Project Site was completed on November 21, 2024. The portion of the remedial action to be completed on the Project Site by Rkm Development (i.e. Building A and a portion of building B) has not been completed.

3.0 PROJECT TEAM AND CONSTRUCTION OVERSIGHT

The following presents the project organization:

- Regulator – State of Washington, Department of Ecology; Danielle Gibson
- Owner – Port of Camas-Washougal; Trang Lam, CEO
- Surveyor – PBS Engineering, Inc.
- Geotechnical Engineer – Earth Engineers, an RMA Company; Troy Hull, PE
- Environmental Geologist – Earth Engineers, an RMA Company; Adam Reese, LG, LEG
- Site Work Contractor – Swofford Excavation, Inc. (Swofford)
- Underground Storage Tank Removal Contractor – Anderson Environmental Construction, Inc. (AEC)

EE's construction oversight activities for the project included oversight of environmental and geotechnical site work. Environmental oversight activities included the oversight of excavation activities within and adjacent to the cap area, including field assessing the vertical extent of contaminated soils within the Building B footprint and its associated zone of influence (i.e. 15 horizontal feet from exterior building foundation edge) and confirmation soil sampling within the excavation floor and walls. Geotechnical oversight activities included oversight of structural backfill and compaction activities, including compaction testing and inspections. Photographs taken during the remedial action are included in Appendix A. Field reports prepared by EE are available upon request.

4.0 REMEDIAL ACTION SUMMARY

4.1 Site Preparation and Layout

The work conducted throughout this remedial action was done in general accordance with the Work Plan. Prior to beginning remedial actions, best management practices (BMPs) were installed by the contractor in order to contain contaminated soils, reduce soil erosion during construction, and prevent surface runoff from leaving the Project Site. Additionally, fencing was placed around the perimeter of the excavation work area and signage was posted on the fencing separating the public from uncapped areas.

4.2 Excavation of Protective Cap Soil

The excavation of the protective cap soil began on August 7, 2024. An approximate two-foot-thick protective clean soil cap was removed by Swofford utilizing a Kobelco SK 350 LC equipped with a 48-inch smooth edge bucket. Only the portion of the contaminated soil that was designated for removal was disturbed. Portions of the cap material east, south and west of the Hyas Point Phase 1a proposed buildings A and B remain in place. The remaining cap surface slopes were retained for adequate stormwater flow, and BMPs were implemented to prevent erosion of the cap material.

The clean soil cap material removed during the initial phase of excavation was stockpiled along the east side of the excavation. Additional clean soil cap material removed from the southwest portion of the excavation area was stockpiled along the southwest corner of the excavation. It should be noted that the clean soil cap stockpiled material was not initially covered by the contractor to protect it from wind erosion and stormwater runoff, as recommended by EE. Ultimately, the clean soil stockpile was covered with an impermeable covering and secured in place using rocks and sandbags.

An orange demarcation fabric was observed at the base of the protective cap soil layer and above the contaminated soil layer. The demarcation fabric was removed by the contractor using excavation equipment. The protective cap soil layer was observed to be approximately 2 to 3 feet thick throughout the excavation area. Some large boulders and fill debris (metal scraps, etc.) were observed while excavating the protective cap soil.

4.3 Excavation of Impacted Soil

Once the clean soil cap material was removed from the excavation area and stockpiled, Swofford began to excavate and stockpile the impacted soil. The proposed procedure for excavating and hauling the impacted soil initially involved loading the excavated impacted soil directly into a haul truck to be taken to the Wasco County Landfill, a Subtitle D Landfill in The Dalles, Oregon. Due to an inability to arrange sufficient haul trucks for direct loading of impacted soil, Swofford opted

to temporarily stockpile the impacted soil within the northwest corner of the excavation until it was able to be loaded and hauled off site. Since the impacted soil stockpile's location was within the excavation extent, waddles and berms were not considered necessary to eliminate erosion and transport of contaminants in the event of precipitation. The impacted soil stockpile was covered at the end of each work day with an impermeable covering and secured in place using rocks.

Excavated soil within the cap area beneath the orange demarcation fabric was assumed to be contaminated and was handled as such. Lateral excavation extents were predetermined based on historical information. Contaminated soil beyond the cap area (determined by the absence of orange demarcation fabric) was observed in the northern portion of the excavation. EE representative utilized a photoionization detector (PID), along with visual and olfactory indicators, to determine the extent of contaminated soil beyond the cap area. Soil observed to have visual staining or hydrocarbon odors were treated as contaminated and were excavated, stockpiled and hauled to Wasco County Landfill.

On September 11, 2024, an underground storage tank (UST) was discovered while excavating the organic-rich soil north of the cap area (in an area previously noted as not being environmentally contaminated). The UST was inadvertently damaged by the excavator upon discovery, and resulted in deformation and a large tear within the wall of the UST. The UST was not active at the time of discovery and was void of any liquid product, however, approximately five gallons of water was observed draining from the damaged UST upon discovery. EE representative utilized a PID to obtain volatile organic compound (VOC) concentrations of the vapor within the UST. PID readings of up to 65 parts per million (ppm) were observed. EE representative immediately notified the Port, and subsequently Ecology of the discovery. Swofford contracted with Anderson Environmental Construction, Inc. (AEC) to provide decommissioning, transport and disposal of the UST. On September 19, 2024 AEC removed the damaged UST from the Project Site. Upon removal of the UST, environmental soil samples were collected from within the tank trench to confirm the presence or absence of released contaminants. A separate Underground Storage Tank Sampling Report dated October 18, 2024 was submitted to the Port of Camas and Ecology on October 18, 2024.

On September 25, 2024, while extending the excavation along the planned western edge toward the area of proposed Building A, impacted soils were observed within the sidewalls of the excavation. EE representative observed degraded hydrocarbon odor as well as visually stained soils to a depth of approximately 10 feet below ground surface (bgs) while observing a test trench being excavated to assess the presence and extent of additional impacted soils in this area. Timbers and fill debris were observed within the upper portions of the test trench. At approximately 10 feet bgs, gray sand and rounded gravel, interpreted to be native material, was observed. The test trench was loosely backfilled with the excavated soil on the same day. It is understood that excavation west of the limits detailed in Figure 3 and generally within the influence zone of Building A will be completed by RKM Development or their related contracting firm Central Bethany Construction (CBC) under a separate contract.

The extent of the remedial action work observed by EE as documented in this report is depicted in Figure 3.

4.4 Confirmation Environmental Sampling and Testing

Confirmation environmental sampling and testing was conducted in general accordance with the Work Plan and was done to verify that impacted soil within the footprint of the proposed building and the building zone of influence (i.e. 15 horizontal feet from building edge) was successfully removed. Confirmation samples were collected from the sidewalls and floor of the excavation area to confirm concentrations of indicator hazardous substances (IHSs) remaining in soil were below cleanup levels as defined in Table 1 of the 2013 Ecology Draft Cleanup Action Plan (reference Table 1 below).

To address the variability of the soil, a representative soil sample was collected by compositing five subsamples of the material source. The clean sampling tool was penetrated into the sidewall or floor to a depth of at least one foot and the subsample was collected by hand with clean, disposable gloves. Gloves were changed and the sampling tool was decontaminated between composited samples, with the procedures specified in Section 2.3 of the SAP. Composite subsamples were selected to obtain representative material, based on visual inspection and professional judgement. To the extent possible, subsamples consisted of fine-grained material, with larger gravel removed.

One confirmation grab sample was collected every 40 linear feet horizontally along the sidewalls, and one confirmation composite sample was collected for every 625 square feet of the excavation floor footprint. This confirmation sampling frequency was approved via email by Ecology on July 26, 2024, and deviates from that specified in the Work Plan. Floor and wall samples were collected utilizing stainless steel hand tools (i.e. spade shovel and hand auger). Floor composite samples were mixed in a stainless-steel bowl with a stainless-steel spoon. Each confirmation soil sample was screened for VOCs utilizing a PID before being transferred into laboratory-supplied glass jars. Samples were labeled with pertinent information and then stored in a cooler with ice at an approximate temperature of 2° C prior to being shipped to Pace Analytical in Juliet, Tennessee for analysis. Pace Analytical is an Ecology approved lab. Samples that were collected were analyzed using the following methods:

- Residual-range organics (RRO) by Northwest Total Petroleum Hydrocarbons (NWTPH),
- Semi-volatile petroleum products analytical method NWTPH-Dx,
- Lead by U.S. Environmental Protection Agency (USEPA) Method 6010,
- Mercury by USEPA Method 7471,
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082, and
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) by USEPA Method 8270 selective ion monitoring (SIM).

As specified in the Work Plan, all confirmation samples collected were analyzed for all IHSs identified in Table 1 of the 2013 Ecology Cleanup Action Plan (reference Table 1 below).

Indicator Hazardous Substances	Soil CULs (mg/kg)	Groundwater CULs (µg/L)
Metals		
Lead	250	NV
Mercury	2	NV
Polychlorinated Biphenyls		
Total PCBs	1	NV
Petroleum Hydrocarbons		
DRO	2000	500
RRO	2000	500
Carcinogenic Polycyclic Aromatic Hydrocarbons		
Benzo(a)anthracene	NV	NV
Benzo(a)pyrene	0.1	NV
Benzo(b)fluoranthene	NV	NV
Benzo(k)fluoranthene	NV	NV
Chrysene	NV	NV
Dibenzo(a,h)anthracene	NV	NV
Indeno(1,2,3-cd)pyrene	NV	NV
cPAH TEC	0.1	NV
Volatile Organic Compounds		
Methylene chloride	0.02	NV
Notes: cPAH TEC = carcinogenic polycyclic aromatic hydrocarbon toxicity equivalent concentration. CULs = Cleanup levels DRO = diesel-range organics µg/L = micrograms per kilogram mg/kg = milligrams per kilogram NV = no value PCBs = polychlorinated biphenyls RRO = residual range organics		

Table 1: Summary of impacted Soil Cleanup Levels (source: Table 1 in the 2013 Ecology Draft Cleanup Action Plan).

4.5 Quality Assurance/Quality Control (QA/QC) Analytical Results

The laboratory notes and qualifiers for the Pace Analytical National report were reviewed. Many of the constituent results were “J” qualified, indicating that the analyte identification is acceptable, and the reported value is an estimate. The J qualified diesel results ranged from a low of 1.71 mg/kg to a high of 7.49 mg/kg. Heavy oil range results that were J qualified ranged from 4.93 mg/kg to 13.7 mg/kg. Given soil CULs of 2,000 mg/kg for both diesel and heavy oil range

hydrocarbons, these results being J qualified are not considered to materially impact the findings of this report.

Polychlorinated biphenyl ("PCB") congeners were not detected in any compliance samples except for sample B_F_A-25_9+0@13.5-14. In this sample PCB 1254 was detected at a concentration of 0.0116 mg/kg with the result J and P qualified. The P qualification indicates that the RPD between the primary and confirmatory analysis exceeded 40%. Since the CUL is 1.0 for all congeners combined the data qualifications are not considered to materially impact the findings of this report.

Various VOC constituent results were "C3", "J", "J3", and "J4" qualified. The "C3" qualifier indicates that the reported concentrations are an estimate due to the continuing calibration standard associated with the data being low. All VOC constituents where a C3 qualifier is present are reported by Pace to be below the reported detection limit "RDL". "J" qualified VOC results are either significantly below the CUL or are not established by MTCA Method A. The "J3" and "J4" qualifiers indicate that the associated batch QC were outside the established quality control range for precision and accuracy, respectively. Most of the "J3" and "J4" qualified results are reported by Pace to be below the RDL. Several of the VOC acetone results with either "J3" or "J4" qualifiers were reported above the RDL at concentrations ranging from 0.0532 mg/kg to 1.09 mg/kg. Acetone is not a CUL described in the Work Plan and concentrations up to 1.09 mg/kg are not considered to materially impact the findings of this report.

Polycyclic aromatic hydrocarbon ("PAH") analytical results included various "J" qualified constituents. In all instances the resulting cPAH TECs were at least one order of magnitude below the CUL and accordingly the qualified results are not considered to materially impact the findings of this report. Mercury results for several samples were "J" qualified but are at least an order of magnitude below the CUL.

4.6 Laboratory Analytical Results

Laboratory analytical results are summarized in Tables 1 through 11 located in Appendix B. Full laboratory reports are included in Appendix C. As can be observed in the tables all confirmation sample analytical results are below the established CULs as specified in the Work Plan with the exception of sample B_W_A+O_9 @ 13.5. This sample was collected from the south wall of the excavation in the roadway area. Pursuant to the Work Plan sampling on the south side of the excavation was performed to document areas outside of Building A and B influence zones to document contaminant concentrations remaining.

4.7 Estimated Haul Off Volume

Impacted soil excavated from within the cap area was characterized as described in the SAP (SMCMP) and was disposed of off-site by Swofford to the Wasco County Landfill, a Subtitle D

landfill in The Dalles, Oregon. All records for hauling and disposal of impacted soil removed from the Project Site were retained by Swofford and a copy was provided to the Port.

The total volume of impacted soil removed from the Project Site was calculated to be approximately 11,760 loose cubic yards (LCY). This calculation assumes a truck and trailer volume of approximately 24 LCY. Table 2 shows the date, number of trucks, and the approximate volume and area in which the soil was excavated from. The record of impacted soil disposal provided by Swofford are included in Appendix D.

Date	No. of Trucks w/Trailers	Volume (LCY)	Area	Truck & Trailer Volume (LCY)
8/15/2024	18	432	Stockpile - Building B	24
8/16/2024	18	432	Stockpile - Building B	Swell Factor (assumed)
8/19/2024	25	600	Stockpile + Building A & B + Roadway	4%
8/20/2024	25	600	Stockpile + Building A & B + Roadway	
8/21/2024	18	432	Stockpile + Building A & B + Roadway	
8/22/2024	25	600	Stockpile + Building A & B + Roadway	
8/26/2024	21	504	Stockpile + Building A & B + Roadway	
8/27/2024	22	528	Stockpile + Building A & B + Roadway	
8/28/2024	22	528	Stockpile + Building A & B + Roadway	
8/29/2024	20	480	Stockpile + Building A & B + Roadway	
9/3/2024	20	480	Stockpile + Building A & B + Roadway	
9/4/2024	22	528	Stockpile + Building A & B + Roadway	
9/5/2024	15	360	Stockpile + Building A & B + Roadway	
9/6/2024	18	432	Stockpile + Building A & B + Roadway	
9/9/2024	15	360	Stockpile + Building A & B + Roadway	
9/10/2024	18	432	Stockpile + Building A & B + Roadway	
9/11/2024	18	432	Stockpile + Building A & B + Roadway	
9/12/2024	16	384	Stockpile + Building A & B + Roadway	
9/13/2024	2	48	Stockpile + Building A & B + Roadway	
9/16/2024	14	336	Stockpile + Building A & B + Roadway	
9/17/2024	12	288	Stockpile + Building A & B + Roadway	
9/18/2024	17	408	Stockpile + Building A & B + Roadway	
9/19/2024	16	384	Stockpile + Building A & B + Roadway	
9/20/2024	17	408	Building A & B + Roadway	
9/23/2024	16	384	Building A & B + Roadway	
9/24/2024	14	336	Building A & B + Roadway	
9/25/2024	14	336	Building A & B + Roadway	
9/26/2024	12	288	Building A & B + Roadway	
Totals	490	11760		
	Disposed Total vs originally estimated values	190%		

Area	BCY
Building A	1400
Building B	3200
Road Way	1350
Total	5950

Area	LCY
Building A	1456
Building B	3328
Road Way	1404
Total	6188

$$V_L = \left(1 + \frac{S_w}{100}\right) V_B$$

Where:
 V_L = Volume in Loose Cubic Yards
 V_B = Volume in Bank Cubic Yards
 S_w = Swell (%)

BCY = Bank Cubic Yards
LCY = Loose Cubic Yards

Table 2: Approximate volume of impacted soil removed from the Project Site.

4.8 Overexcavation of Non-Structural Fill

As specified in the Work Plan, soil that has concentrations of IHSs below the current and relevant Ecology and MTCA cleanup levels but was considered from a geotechnical standpoint as non-structural fill due to the presence of organics, debris, or other factors was disposed of off-site by Swofford. The existing non-structural fill was excavated from the northern portion of the Building

B footprint and zone of influence and stockpiled within a corner of the excavation. A five-point composite sample was collected from the stockpile and analyzed for all IHSs. Upon receipt of lab analytical results indicating IHS concentrations below cleanup levels, the excavated soil was hauled off site and disposed of by Swofford. An EE geotechnical inspector was present on the Project Site during excavation of the existing non-structural fill soil and confirmed when the overexcavation had penetrated through the existing fill to the required dense, native silty gravel stratum.

4.9 Survey of Excavation Extents

On October 3, 2024, a PBS survey crew was onsite to locate and stake the building corners and zone of perimeter foundation loading influence envelope for Building B. Upon completion of the survey of Building B, it was apparent that the excavation extents required for Swofford in the Work Plan, to include the zone of influence (approximately 15 feet from exterior edge of building foundation) of Building B, had not been fully encompassed by the current excavation. A meeting between the Port, Swofford, Earth Engineers and Central Bethany Construction (CBC) was held on October 4, 2024 to discuss the outcome of the survey and the corrective action. It was agreed that the Port would have Swofford excavate and dispose of the additional soil volume required to achieve the full extent of the planned Building B footprint and zone of influence on the east and north sides. The west side excavation would be left to CBC. The Port's portion of the additional soil to be removed by Swofford from the Project Site was subsequently hauled off and disposed of as non-impacted material after confirmation wall sample results reported IHS concentrations below CULs.

On October 17, 2024, a PBS survey crew returned to the Project Site to confirm that the new excavation extents now fully encompassed the north and east and south sides of the Building B footprint and zone of footing influence (the result of that survey are found in Appendix E attached). As of November 21, 2024, when EE was last onsite, the west side excavation of Building B had not been started by CBC. The scope of the additional soil excavation work to be completed by CBC is outside the scope of this report. CBC and their geotechnical/environmental consultant who replaced EE should submit a separate report to Ecology documenting that work.

4.10 Structural Backfill and Compaction Testing

Upon receipt of confirmation sample results indicating concentrations of IHSs below cleanup levels, backfill processes were initiated by Swofford. In order to prepare the excavation for the placement and compaction of structural backfill, Swofford removed the existing large boulders from the excavation floor and roughly graded the remaining soil level. An orange geotextile composed of woven polypropylene was laid out throughout the excavation as a demarcation layer, and a thin layer (i.e. 6 inches or less) of structural backfill was placed and compacted in order to recompact the surface of the disturbed excavation bottom to a condition that was dense and unyielding. EE representative performed a visual inspection of the compaction process and results and approved the placement of subsequent lifts of structural backfill.

The structural backfill placed consisted of granular material and was free of organics or other deleterious materials. Lifts were placed and compacted in a manner in which each final lift height was no greater than approximately 12 inches. The material placed within the initial lifts is described as 1-1/4 inch minus gravel (mostly rounded) and was sourced from the Glacier Dallesport Quarry. EE determined optimal compaction of the Glacier backfill material using ASTM D1557 Modified Proctor lab test to be 148.1 pounds per cubic foot (pcf) with an optimal moisture content of 5.6% (EE report No. 10-240350-8). Subsequent lifts (i.e. those placed after November 6, 2024) placed and compacted consisted of material described as 1-1/4 inch minus crushed rock gravel sourced from the Storedahl Mountain Top Pit. EE determined the optimal compaction for the Storedahl backfill material using ASTM D1557 Modified Proctor lab test to be 139.3 pcf with an optimal moisture of 7.5% (EE report No. 10-240350-42).

When the placed and compacted backfill was ready for testing, an EE representative tested the compaction using a Troxler 3440 nuclear density gauge, and compared the density of the placed fill to the laboratory determined (ASTM 1557) maximum density of the given material. In order for the lift to be approved, the density of the compacted structural backfill was required to be at least 95% of the laboratory determined value.

Compaction testing was performed by EE using a nuclear density gauge on each approximately 1 foot thick lift of backfill. All lifts achieved passing compaction tests before the next lift was placed. To track lift thickness, EE representative spray painted 1 foot height intervals on the plastic draped over the sidewall of the excavation.

Daily Inspection Reports documenting the geotechnical special inspections of the backfill and compaction process and results of compaction testing are available upon request.

Note that when EE's inspection services ended on November 21, 2024, there were 2 areas that had backfill that was not properly compacted. The construction ramp entering the excavation consisted of loose fill, except for the bottom 2 feet. This is documented in EE Report No. 10-240350-63. An additional area that did not pass compaction testing was the final backfill lift placed at the south side of the overexcavation area—at the proposed new roadway (reference EE Report No. 10-240350-63). These areas will need to be addressed by CBC and their geotechnical consultant that has replaced EE. It's our understanding that this was discussed on site between CBC and the Port. In addition, an e-mail was sent by the Port to CBC on November 25, 2024.

5.0 FINAL INSPECTION

The final inspection of the remedial action work was completed by EE on November 21, 2024 (reference EE Report No. 10-24035-65). The segment of work contracted by the Port for the project has been completed. While no additional work remains for the Port's contracted phase of the project, we understand CBC has agreed to oversee the remedial action required for the removal of impacted soils within the Building A footprint that were observed to be present in the western sidewall of the Building B excavation. CBC's geotechnical/environmental consultant will be responsible for fulfilling the role of providing a Work Plan, performing inspections to ensure that the Work Plan is followed, and issuing a Work Plan Completion Report (these items are excluded from EE's scope, and EE excludes the additional work areas from EE's scope and liability).

6.0 FINDING AND CONCLUSION

The construction oversight and final inspection described in this report were performed by Earth Engineers on behalf of the Port of Camas-Washougal for all activities related to the excavation and removal of impacted soils and subsequent backfill and compaction of the excavation with structural backfill. Based on the observations made during the remedial activities, it is EE's finding and conclusion that the Former Hambleton Bros Log Yard Remedial Action for the areas detailed in this report was completed in general accordance with the standard trade practices, in general compliance with the technical specifications, and in general accordance with the design intent as approved by Ecology, except as noted.

7.0 VARIANCES TO WORK PLAN

While the construction by Swofford was intended to follow the Work Plan, it is possible that there could have been variances that we weren't aware of. Ultimately, it was the responsibility of the contractor to follow the Work Plan.

Variances that we observed included:

1. The Port did not complete the removal of all impacted soil from Building B and Building A. We understand CBC will complete the portion not yet completed.
2. Some backfill at the northwest corner of the excavation area (for the temporary construction ramp) was not properly compacted (reference EE Report No. 10-240350-63). CBC will need to complete this.
3. The final backfill lift placed at the south side of the overexcavation area—at the proposed new roadway did not pass compaction testing (reference EE Report No. 10-240350-63). CBC will need to complete this.
4. The Port negotiated an agreement with Ecology allowing impacted soils at depths greater than 15 feet bgs to remain in place. Based on the results of confirmatory floor samples collected within the cap area of the excavation, no impacted soils were observed at depths greater than the sample collection depth.

It is our professional opinion that none of the observed variances noted above affected the intent of removing and disposing of the impacted soil.

8.0 LIMITATIONS

We understand that CBC will be disturbing the area that this report covers (e.g., excavating for site investigation test pits, utility trenches, footings, and road grade; removing and replacing additional impacted soil; etc.). It is highly possible that the backfill that EE inspected and tested will be disturbed by the construction activities carried out by CBC. Because EE will not be retained to perform inspections and testing when these ground disturbance activities occur, we cannot attest to the quality of the backfill beyond the last date of our inspection (November 21, 2024).

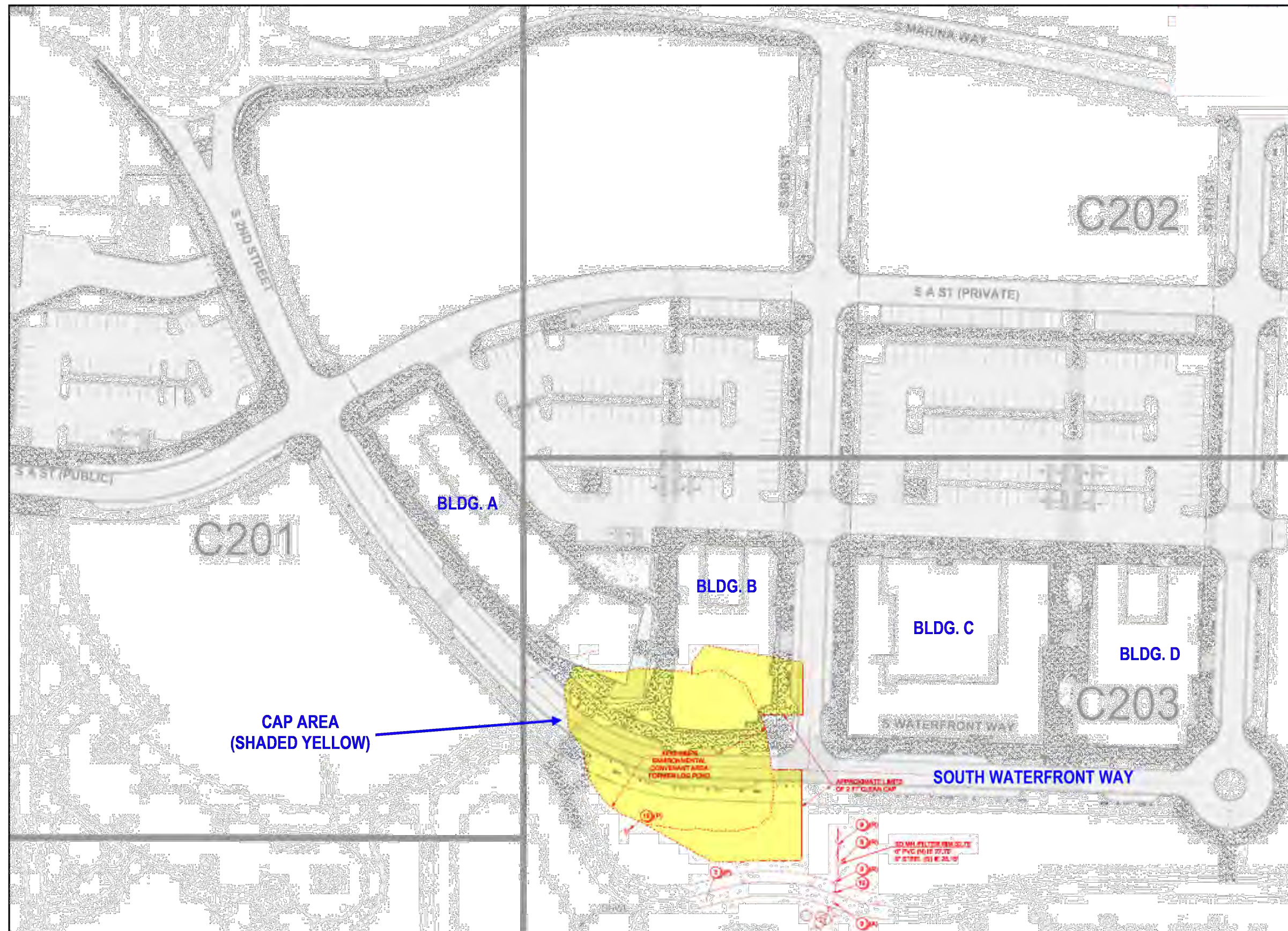
As noted in EE Report No. 10-24035-1-R2, the Work Plan was not intended to address all conditions that the contractor may encounter at the Project Site and it is possible that supplemental and/or revised recommendations may need to be provided at some later date.

As is standard practice in the industry, the conclusions contained in our report are considered preliminary because they are based on assumptions made about the soil, rock, and groundwater conditions exposed at the Project Site during our subsurface investigation. A more complete extent of the actual subsurface conditions can only be identified when they are exposed during construction. Therefore, EE should be retained as the consultant during construction to observe the actual conditions and to provide our final conclusions. When a different geotechnical consultant is retained to perform inspection during construction then they should be relied upon to provide final design conclusions and recommendations, and should assume the role of geotechnical engineer of record. This pertains to the portion of impacted soil work that will be completed by CBC after November 21, 2024. To be clear, CBC's geotechnical/environmental consultant shall not rely on EE's work and shall perform their own due diligence to develop their own evaluation and recommendations.

This report has been prepared for the exclusive use of the Port of Camas-Washougal for the specific use for the proposed Former Hambleton Bros Log Yard Remedial Action project. EE does not authorize the use of the advice herein nor the reliance upon the report by third parties without prior written authorization by EE.

9.0 REFERENCES

¹Construction Completion Report, Former Hambleton Bros. Log Yard-Remedial Action, Maul Foster & Alongi, Inc., May 13, 2015

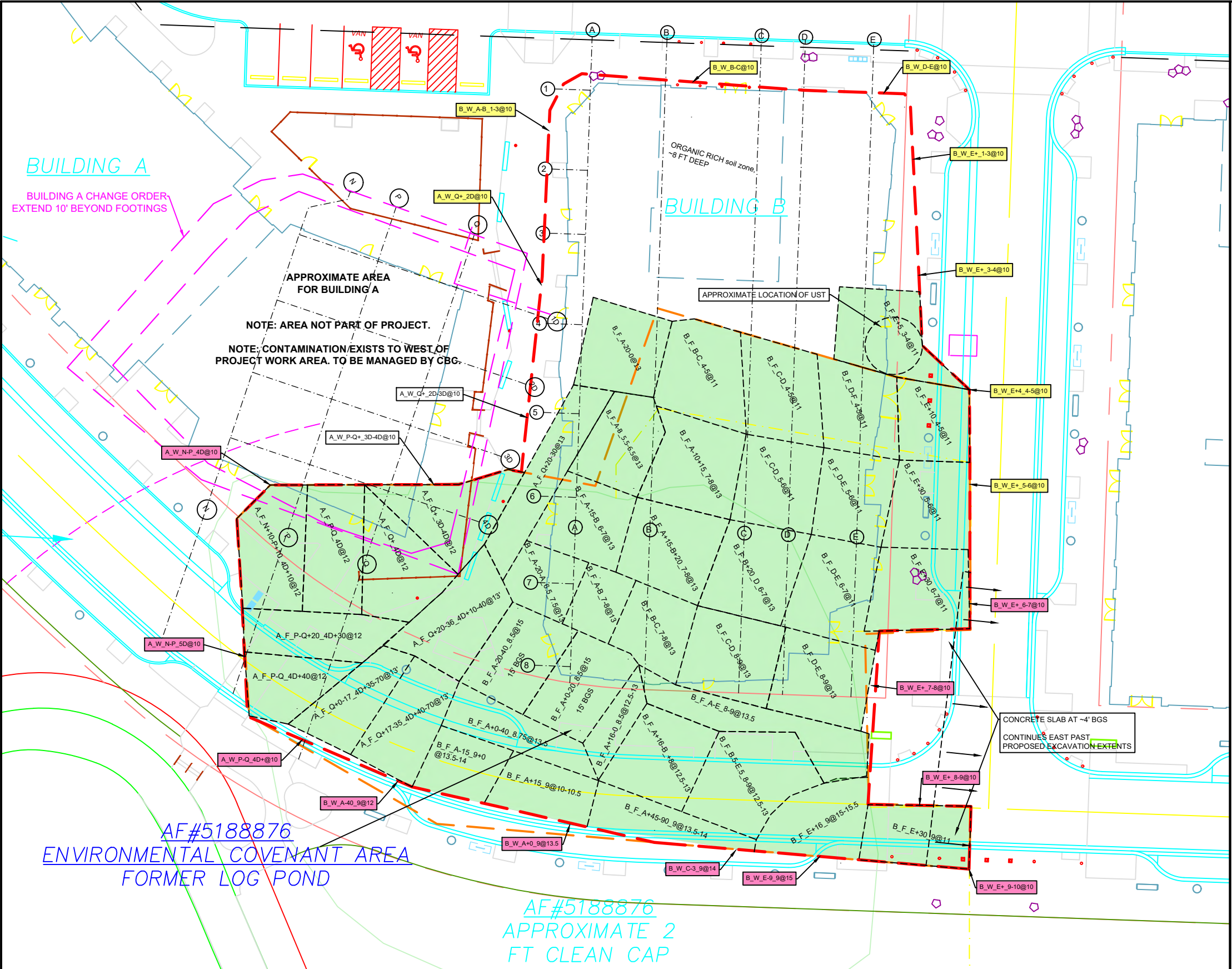


NO SCALE



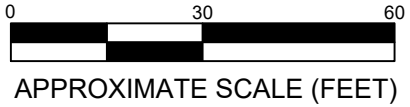
**EARTH
ENGINEERS**
An **RMA** Company

**SITE LOCATION AND VICINITY
REMEDIAL ACTION WORK PLAN
WASHOUGAL, WASHINGTON
FIGURE 2**



LEGEND

- B_F_A+15_9 @10-10.5
- ENVIRONMENTALLY SAMPLED AREA
- SAMPLE NOMENCLATURE:
B_ = BUILDING B or A_ = BUILDING A
F_ = FLOOR or W_ = WALL
A+15 = LINE A + 15 FEET
- APPROXIMATE EXCAVATION EXTENTS (AS OF 10/9/2024)
- APPROXIMATE FORMER LOG POND AREA
- ORIGINAL ESTIMATED IMPACTED SOIL OVER-EXCAVATION AREA
- APPROXIMATE BUILDING A CHANGE ORDER PERIMETERS
- AREAS APPROVED FOR BACKFILL
- AREAS WITH PRELIMINARY RESULTS
- SAMPLE FOR SOIL CHARACTERIZATION
- SAMPLE FROM AN AREA MEETING EXCAVATION LIMITS



APPENDICES

APPENDIX A PHOTOGRAPHS



Photo 1: Site conditions upon start of project, facing south, 8/7/24



Photo 2: Excavation area along the proposed roadway area south of Building B, facing east, 8/12/24.



Photo 3: Excavation area along northern portion of Building B, facing east, 8/13/24.



Photo 4: Stockpiled “organics” soil from the northern portion of the excavation, facing east, 8/13/24.



Photo 5: Stockpiled impacted soil staged for loading into trucks to be hauled off site, facing west, 8/15/24.



Photo 6: Excavation area along the proposed roadway area south of Building B, facing east, 8/15/24.



Photo 7: Excavation area along the proposed roadway area south of Building B, facing east, 8/16/24.



Photo 8: Excavation area along the proposed roadway area and southern portion of Building B, facing east, 8/16/24.



Photo 9: Subsurface materials exposed within excavation sidewall including, black geogrid (base) capped by crushed concrete and gravel-silt soils with orange demarcation fabric on top. Cap material can be seen exposed above the orange demarcation fabric, facing north, 8/16/24.



Photo 10: Excavation area along the proposed roadway area and southern portion of Building B, facing east, 8/21/24.



Photo 11: Excavation area along the proposed roadway area and southern portion of Building B, facing west, 8/22/24.



Photo 12: Excavation area along the southern portion of Building B, facing north, 8/26/24.



Photo 13: Loading impacted soil into haul truck for disposal off site, facing south, 8/27/24.



Photo 14: Excavation area in the vicinity of the southwest corner of Building B, cross-sectional area approximately 12 to 15 feet bgs, facing west, 8/28/24.



Photo 15: Excavation area in the vicinity of the southwest corner of Building B, removing impacted soils to a depth of approximately 15 feet bgs, facing north, 8/28/24.



Photo 16: Excavation area in the vicinity of the southwest corner of Building B and roadway area, facing west, 8/29/24.



Photo 17: Excavation area in the vicinity of the roadway area, facing east, 9/3/24.



Photo 18: Excavation area in the vicinity of the roadway area and Building B, facing northeast, 9/4/24.



Photo 19: Excavation area in the vicinity of Building B, facing west, 9/6/24.



Photo 20: Excavating "organic" soils from the northern portion of Building B, facing west, 9/9/24.



Photo 21: Excavating impacted soils from the west portion of Building B, facing north, 9/10/24.



Photo 22: Boulder pile staged for removal from excavation, facing west, 9/10/24.



Photo 23: Abandoned UST unearthed during excavation of “organic” soils along the eastern portion of Building B, facing south, 9/11/24.



Photo 24: Excavation area in the vicinity of the UST, facing east, 9/11/24.



Photo 25: Excavation area, facing northeast, 9/12/24.



Photo 26: Excavation area, facing southwest, 9/12/24.



Photo 27: Impacted soil and boulders staged for loading out, facing north, 9/13/24.



Photo 28: Excavation area looking west, facing east, 9/16/24.



Photo 29: Excavating impacted soils from west excavation edge in the vicinity of Building A, facing east, 9/17/24.



Photo 30: Loading boulders out of excavation, facing east, 9/18/24.



Photo 31: UST staged for removal from site, facing north, 9/19/24.



Photo 32: Excavating “organic” soils from northern portion of Building B, facing north, 9/20/24.



Photo 33: Excavation area in the vicinity of Building B, facing west, 9/24/24.



Photo 34: Timbers and fill debris in test trench dug along western edge of excavation in the vicinity of Building a, facing south, 9/18/24.

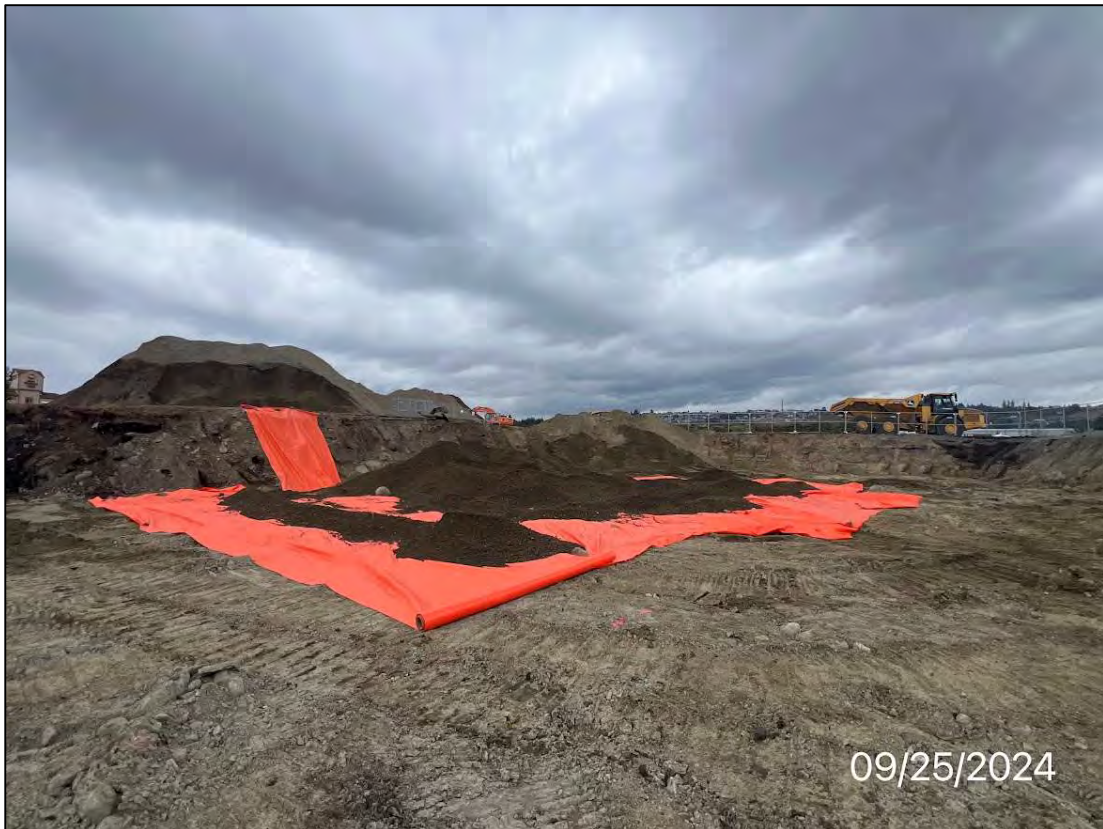


Photo 35: Laying out demarcation fabric and stockpiling structural fill within excavation, facing north, 9/25/24.



Photo 36: Laying out demarcation fabric and stockpiling structural fill within excavation, facing west, 9/27/24.



Photo 37: Lay out of demarcation fabric and the initial (<1 foot) lift of structural backfill in order to compact the underlying subgrade, facing northwest, 9/30/24.



Photo 38: Moisture conditioning and compaction of the first lift. This lift was placed in two separate thin lifts in order to compact the underlying subgrade. Once the subgrade was observed to be compacted to an unyielding state, the second thin lift was placed, moisture conditioned and compacted, facing southeast, 10/1/24.



Photo 39: Compaction testing on first completed lift using nuclear density gauge, 10/1/24.



Photo 40: Compacting second lift, facing southwest 10/2/24.



Photo 41: Survey stakes placed at edge of Building B show insufficient excavation boundaries to encompass the additional 15 foot zone of influence, facing north, 10/3/24.



Photo 42: Survey stakes placed at edge of Building B show insufficient excavation boundaries to encompass the additional 15 foot zone of influence. White dot on demarcation fabric is Building B northeast corner, facing west, 10/3/24.



Photo 43: Swofford removing structural fill in order to extend the excavation north, facing east, 10/11/24.



Photo 44: Swofford spreading structural fill in the southwest corner of the excavation, facing west, 10/17/24.



Photo 45: Swofford compacting structural fill in the extended portion along the northeastern part of the excavation, facing south, 10/18/24.



Photo 46: Pot holing within the northern portion of the excavation to retest the structural fill within the first two lifts. The third and fourth lifts were removed and stockpiled within the southern portion of the excavation, facing west, 10/19/24.



Photo 47: Pot holing in the northern portion of the excavation to retest the structural fill within the first two lifts, facing west, 10/21/24.



Photo 48: Replacing the third and fourth lifts within the northern portion of the excavation after retesting the first and second lifts, facing west, 10/22/24.



Photo 49: Recompacting the third and fourth lifts within the northern portion of the excavation after retesting the first and second lifts, facing south, 10/23/24.



Photo 50: Pot holing within the southern portion of the excavation to retest the first and second lifts, facing west, 10/24/24.



Photo 51: Replaced and compacted fourth lift within the southwestern corner of the excavation, facing west, 10/25/24.



Photo 52: Loading structural backfill within the southwestern corner of the excavation, facing southwest, 10/26/24.



Photo 53: Precipitation on this date caused structural backfill to have a greater than optimal moisture content, backfill work was paused to wait for drier conditions, facing west, 10/28/24.



Photo 54: Continuous precipitation caused structural backfill to have a greater than optimal moisture content, backfill work was paused to wait for drier conditions, facing west, 10/29/24.



Photo 55: Saturated structural backfill being “farmed” due to greater than optimal moisture content, backfill work was paused to wait for drier conditions, facing west, 10/30/24.



Photo 56: Saturated structural backfill along the southern portion of the excavation, backfill work did not occur on this date , facing west, 11/6/24.



Photo 57: Saturated structural backfill being removed along the western portion of the excavation due to greater than optimal moisture content, backfill work did not occur on this date, facing west, 11/7/24.

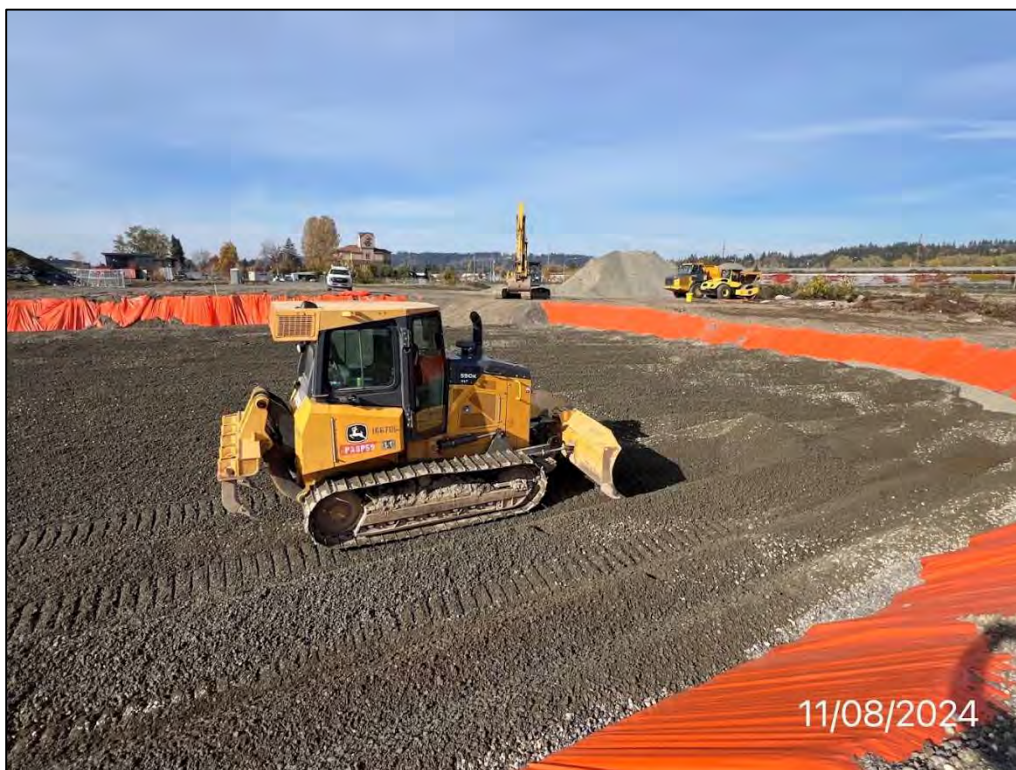


Photo 58: Saturated structural backfill being “farmed” due to greater than optimal moisture content, backfill work did not occur on this date, facing west, 11/8/24.



Photo 59: Saturated structural backfill being “farmed” due to greater than optimal moisture content, backfill work did not occur on this date, facing west, 11/9/24.

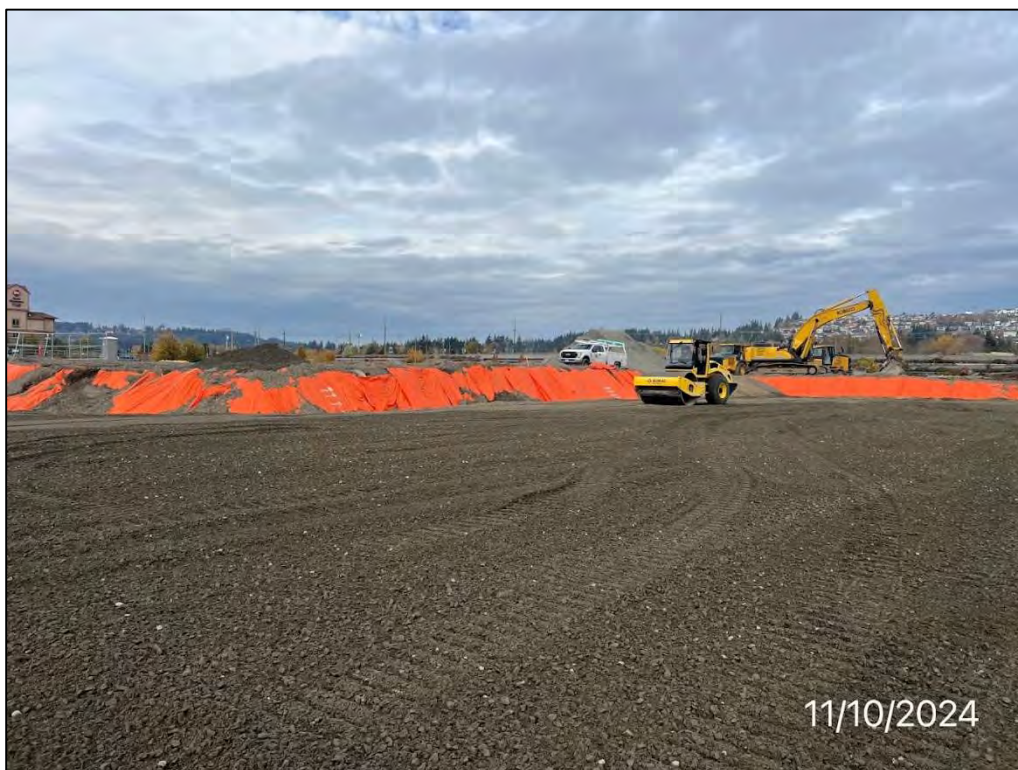


Photo 60: Recompressing the “farmed” structural backfill, facing northwest, 11/10/24.



Photo 61: Stockpiling structural backfill within the excavation prior to spreading and compacting, facing southwest, 11/11/24.



Photo 62: Compacting structural backfill within the southwestern portion of the excavation, facing southwest, 11/12/24.



Photo 63: Loading structural backfill directly into the excavation, facing southwest, 11/13/24.



Photo 64: Compacting structural backfill in the northern portion of the excavation, facing west, 11/15/24.



Photo 65: Conditions within the excavation on this date, facing southeast, 11/18/24.



Photo 66: Conditions within the southern portion of the excavation on this date, facing east, 11/20/24.



Photo 66: Conditions within the northern portion of the excavation on this date, facing southeast, 11/20/24.



Photo 67: Swofford attempting to place and compact the cap material within the roadway in the southern portion of the excavation. Compaction of 95% was not able to be achieved and cap material was subsequently removed, facing south, 11/21/24.

APPENDIX B

LABORATORY ANALYTICAL SUMMARY TABLES

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 1: L1766597 and L1768558 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1766597-03		L1768558-01		L1768558-02		L1768558-03		L1768558-04		L1768558-05		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A+15_9+0@ 10-10.5		B_F_E+16_9+0@15-15.5		B_F_A-25_9+0@13.5-14		B_F_A+45-90_9@13.5-14		B_F_A+16-B_+8@12.5-13		B_F_B.5-E.5_8-9@12.5-13			
Date Collected			08/12/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.58		5.41		7.42		5.69		<4.79		1.71	J	2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.4		<12.3		7.12	J	10.4	J	<12.0		<11.8		2000	2000
	Total DRO +RRO	mg/kg	7.99		11.56		14.54		16.09		8.40		7.61		NV	NA
Polychlorinated biphenyls (PCBs)																
8082 A	PCB 1016	mg/kg	<0.0389		<0.0419		<0.0409		<0.0415		<0.0407		<0.0402		--	NA
8082 A	PCB 1221	mg/kg	<0.0389		<0.0419		<0.0409		<0.0415		<0.0407		<0.0402		--	NA
8082 A	PCB 1232	mg/kg	<0.0389		<0.0419		<0.0409		<0.0415		<0.0407		<0.0402		--	NA
8082 A	PCB 1242	mg/kg	<0.0389		<0.0419		<0.0409		<0.0415		<0.0407		<0.0402		--	NA
8082 A	PCB 1248	mg/kg	<0.0195		<0.0209		<0.0205		<0.0207		<0.0204		<0.0201		--	NA
8082 A	PCB 1254	mg/kg	<0.0195		<0.0209		0.0116	J P	<0.0207		<0.0204		<0.0201		--	NA
8082 A	PCB 1260	mg/kg	<0.0195		<0.0209		<0.0205		<0.0207		<0.0204		<0.0201		--	NA
	Total PCBs*	mg/kg	0.107		0.115		0.114		0.114		0.112		0.111		1	1.00
Volatile Organic Compounds (VOCs)																
8260D	ACETONE	mg/kg	<0.0742	C3	<0.0736		<0.0714		0.0666	J	<0.0700		<0.0699		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0185		<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	BENZENE	mg/kg	<0.00148		<0.00147		<0.00143		<0.00146		<0.00140		<0.00140		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0185		<0.0184	J4	<0.0179	J4	<0.0184	J4	<0.0175	J4	<0.0175	J4	NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	16
8260D	BROMOFORM	mg/kg	<0.0372		<0.0368		<0.0357		<0.0366		<0.0350		<0.0350		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0185	C3	<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0185		<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0185		<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0185	C3	<0.0184	J3	<0.0179	J3	<0.0184	J3	<0.0175	J3	<0.0175	J3	NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00372	C3	<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0372		<0.0368		<0.0357		<0.0366		<0.0350		<0.0350		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	DIBROMOMETHANE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 1: L1766597 and L1768558 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1766597-03		L1768558-01		L1768558-02		L1768558-03		L1768558-04		L1768558-05		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A+15_9+0@ 10-10.5		B_F_E+16_9+0@15-15.5		B_F_A-25_9+0@13.5-14		B_F_A+45-90_9@13.5-14		B_F_A+16-B_+8@12.5-13		B_F_B.5-E.5_8-9@12.5-13			
Date Collected			08/12/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00742		<0.00736	J3	<0.00714	J3	<0.00732	J3	<0.00700	J3	<0.00699	J3	NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00148		<0.00147		<0.00143		<0.00146		<0.00140		<0.00140		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	6
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0372	C3	<0.0368		<0.0357		<0.0366		<0.0350		<0.0350		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00372		<0.00368		<0.00357		0.000768	J	<0.00350		<0.00350		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00742		<0.00736		<0.00714		0.00479	J	<0.00700		<0.00699		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.148		<0.147		<0.143		<0.146		<0.140		<0.140		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	0.0173	J	<0.00978		<0.00949		<0.00972		<0.00930		<0.00928		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0372		<0.0368		<0.0357		<0.0366		<0.0350		<0.0350		NV	NA
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00148		<0.00147		<0.00143		<0.00146		<0.00140		<0.00140		NV	0.1
8260D	NAPHTHALENE	mg/kg	<0.0185	C3	<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	0.003
8260D	N-PROPYLBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		<0.00732		<0.00700		<0.00699		NV	NA
8260D	STYRENE	mg/kg	<0.0185		<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00372	C3	<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	TOLUENE	mg/kg	<0.00742		<0.00736		<0.00714		0.00248	J	<0.00700		<0.00699		NV	7.00
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0185	C3	<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0185	C3	<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	2
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	TRICHLOROETHENE	mg/kg	<0.00148		<0.00147		<0.00143		<0.00146		<0.00140		<0.00140		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00372		<0.00368		<0.00357		<0.00366		<0.00350		<0.00350		NV	NA
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0185		<0.0184		<0.0179		<0.0184		<0.0175		<0.0175		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		0.0818		<0.00700		<0.00699		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		0.0211		<0.00700		<0.00699		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00742		<0.00736		<0.00714		0.0317		<0.00700		<0.00699		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00372		<0.00368	J3	<0.00357	J3	<0.00366	J3	<0.00350	J3	<0.00350	J3	NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00964		<0.00957		<0.00929		0.00238	J	<0.00910		<0.00909		NV	9.00

Remedial Action Work Plan Report Port of Camas-Washougal Washougal, WA Table 1: L1766597 and L1768558 Lab Results of Floor Samples																
Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1766597-03		L1768558-01		L1768558-02		L1768558-03		L1768558-04		L1768558-05		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A+15_9+0@ 10-10.5		B_F_E+16_9+0@15-15.5		B_F_A-25_9+0@13.5-14		B_F_A+45-90_9@13.5-14		B_F_A+16-B_+8@12.5-13		B_F_B.5-E.5_8-9@12.5-13			
Date Collected			08/12/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024		08/15/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)																
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0229		<0.0246		<0.0241		<0.0244		<0.0240		<0.0236		NV	5.00
8270E-SIM	PHENANTHRENE	mg/kg	<0.00687		<0.00739		<0.00722		0.00343	J	<0.00719		<0.00709		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00687		<0.00739		<0.00722		<0.00732		<0.00719		<0.00709		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0229		<0.0246		<0.0241		<0.0244		<0.0240		<0.0236		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0229		<0.0246		<0.0241		<0.0244		<0.0240		<0.0236		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0229		<0.0246		<0.0241		<0.0244		<0.0240		<0.0236		NV	NA
	cPAH TEC	UNITLESS	0.002		0.002		0.002		0.006		0.002		0.002		0.1	NA
Metals																
6010D	LEAD	mg/kg	10.9		10.9		9.64		11.7		12.3		10.9		250	250
7471B	MERCURY	mg/kg	<0.0458		<0.0493		<0.0482		<0.0488		<0.0479		<0.0473		2	2
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan				NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan							NA = Not applicable				
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%																
NOTES:																
*Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025																
Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate.																
cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.																
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																

**Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA**

Table 2: L1766597-04 Lab Results of Organic Rich Soils Stockpile

Waterfront Soils Removal Project - Building B Organics Excavation Stockpile						
Lab Sample ID			L1766597-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_OS-COMP@ 0-1			
Date Collected			08/12/2024			
Method	Analyte	Units	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	17.3		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	53.7		2000	2000
	Total DRO +RRO	mg/kg	71.0		NV	NA
Polychlorinated biphenyls (PCBs)						
8082 A	PCB 1016	mg/kg	<0.0414		--	NA
8082 A	PCB 1221	mg/kg	<0.0414		--	NA
8082 A	PCB 1232	mg/kg	<0.0414		--	NA
8082 A	PCB 1242	mg/kg	<0.0414		--	NA
8082 A	PCB 1248	mg/kg	<0.0207		--	NA
8082 A	PCB 1254	mg/kg	<0.0207		--	NA
8082 A	PCB 1260	mg/kg	<0.0207		--	NA
	Total PCBs*	mg/kg	0.114		1	1.00
Volatile Organic Compounds (VOCs)						
8260D	ACETONE	mg/kg	<0.0719	C3	NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0180		NV	NA
8260D	BENZENE	mg/kg	<0.00144		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0180		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00360		NV	16
8260D	BROMOFORM	mg/kg	<0.0360		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0180	C3	NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0180		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0180		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00719		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00719		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00360		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00360		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00719		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00360		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0180	C3	NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00360	C3	NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00719		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0360		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00360		NV	NA
8260D	DIBROMOMETHANE	mg/kg	<0.00719		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00719		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00719		NV	NA
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00719		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00719		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00360		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00360		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00360		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00360		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00719		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00719		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00360		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00719		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00360		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00719		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00360		NV	NA
8260D	DIISOPROPYL ETHER	mg/kg	<0.00144		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00360		NV	6
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0360	C3	NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00360		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00719		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.144		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00955		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0360		NV	NA
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00144		NV	0.1
8260D	NAPHTHALENE	mg/kg	<0.0180	C3	NV	0.003
8260D	N-PROPYLBENZENE	mg/kg	<0.00719		NV	NA
8260D	STYRENE	mg/kg	<0.0180		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00360		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00360	C3	NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00360		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00360		NV	NA
8260D	TOLUENE	mg/kg	<0.00719		NV	7.00
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0180	C3	NV	NA
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0180	C3	NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00360		NV	2
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00360		NV	NA
8260D	TRICHLOROETHENE	mg/kg	<0.00144		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00360		NV	NA
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0180		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	0.00229	J	NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00719		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00719		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00360		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00935		NV	9.00

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 2: L1766597-04 Lab Results of Organic Rich Soils Stockpile

Waterfront Soils Removal Project - Building B Organics Excavation Stockpile						
Lab Sample ID			L1766597-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_OS-COMP@ 0-1			
Date Collected			08/12/2024			
Method	Analyte	Units	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)						
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00731		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00731		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00731		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00731		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00731		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00731		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00731		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00731		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00731		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00731		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	0.00244	J	NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00731		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00731		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0244		NV	5.00
8270E-SIM	PHENANTHRENE	mg/kg	0.00349	J	NV	NA
8270E-SIM	PYRENE	mg/kg	0.00293	J	NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0244		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0244		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0244		NV	NA
cPAH TEC		UNITLESS	0.006		0.1	NA
Metals						
6010D	LEAD	mg/kg	15.6		250	250
7471B	MERCURY	mg/kg	0.024	J	2	2
	NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan				NA = Not applicable	
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan					
NOTES:						
*Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025						
Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate.						
cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.						
Qualifiers:						
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.						

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 3: L1772512 and L1772998 Lab Results of Floor and Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1772512-01		L1772512-02		L1772512-03		L1772512-04		L1772512-05		L1772512-06		L1772998-01		L1772998-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_W_E-9 @ 15		B_W_C-3 @ 14		B_W_A+O_9 @ 13.5		B_W_A-40_9 @ 12		B_F_A-0-20_8.5 @ 15		B_F_A-20-40_8.5 @ 15		B_F_A+0-40_8.75@13.5		B_F_A+16-0_8.5@12.5-13			
Date Collected			08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/29/2024		08/29/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.77		<4.61		2510.00		7.24		<4.66		<4.72		4.46	J	45.2		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.9		<11.5		4710.00		10.70	J	<11.6		<11.8		4.93	J	58.5		2000	2000
	Total DRO +RRO	mg/kg	8.34		8.06		7220.00		17.94		8.13		8.26		9.39		103.7		NV	NA
Polychlorinated biphenyls (PCBs)																				
8082 A	PCB 1016	mg/kg	<0.0406		<0.0392		<0.101		<0.0383		<0.0396		<0.0402		<0.0411		<0.0413		--	NA
8082 A	PCB 1221	mg/kg	<0.0406		<0.0392		<0.101		<0.0383		<0.0396		<0.0402		<0.0411		<0.0413		--	NA
8082 A	PCB 1232	mg/kg	<0.0406		<0.0392		<0.101		<0.0383		<0.0396		<0.0402		<0.0411		<0.0413		--	NA
8082 A	PCB 1242	mg/kg	<0.0406		<0.0392		<0.101		<0.0383		<0.0396		<0.0402		<0.0411		<0.0413		--	NA
8082 A	PCB 1248	mg/kg	<0.0203		<0.0196		<0.0506		<0.0192		<0.0198		<0.0201		<0.0205		<0.0206		--	NA
8082 A	PCB 1254	mg/kg	<0.0203		<0.0196		<0.0506		<0.0192		<0.0198		<0.0201		<0.0205		<0.0206		--	NA
8082 A	PCB 1260	mg/kg	<0.0203		<0.0196		<0.0506		<0.0192		<0.0198		<0.0201		<0.0205		<0.0206		--	NA
	Total PCBs*	mg/kg	0.112		0.108		0.278		0.105		0.109		0.111		0.113		0.114		1.00	1.00
Volatile Organic Compounds (VOCs)																				
8260D	ACETONE	mg/kg	0.0532	J J4	<0.0675	J4	1.09	J3	<0.0667	J3	<0.0686	J4	<0.0706	J4	<0.0721	J4	0.0583	J J4	NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	BENZENE	mg/kg	<0.00142		<0.00135		<0.00581		<0.00133		<0.00137		<0.00141		<0.00144		<0.00145		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	16
8260D	BROMOFORM	mg/kg	<0.0356		<0.0337		<0.146		<0.0334		<0.0343		<0.0353		<0.0361		<0.0362		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0178		<0.0169		0.0368	J	<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0178		<0.0169		0.0581	J	<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0356		<0.0337		<0.146		<0.0334		<0.0343		<0.0353		<0.0361		<0.0362		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 3: L1772512 and L1772998 Lab Results of Floor and Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1772512-01		L1772512-02		L1772512-03		L1772512-04		L1772512-05		L1772512-06		L1772998-01		L1772998-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_W_E-9_9 @ 15		B_W_C-3 @ 14		B_W_A+O_9 @ 13.5		B_W_A-40_9 @ 12		B_F_A-0-20_8.5 @ 15		B_F_A-20-40_8.5 @ 15		B_F_A+0-40_8.75@13.5		B_F_A+16-0_8.5@12.5-13			
Date Collected			08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/29/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00711		<0.00675		<0.0291		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361	J3	<0.00362	J3	NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00142		<0.00135		<0.00581		<0.00133		<0.00137		<0.00141		<0.00144		<0.00145		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00356		<0.00337		0.0108	J	<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0356		<0.0337		<0.146		<0.0334		<0.0343		<0.0353		<0.0361		<0.0362		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00356		<0.00337		0.0448		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00711		<0.00675		4.21		0.0121		<0.00686		<0.00706		<0.00721		0.0155		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.142		<0.135		<0.581		<0.133		<0.137		<0.141		<0.144		<0.145		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00945		<0.00897		<0.0386		<0.00885		<0.00910		<0.00937		<0.00958		<0.00960		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0356		<0.0337		<0.146		<0.0334		<0.0343		<0.0353		<0.0361		<0.0362		NV	NA
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00142		<0.00135		<0.00581		<0.00133		<0.00137		<0.00141		<0.00144		<0.00145		NV	0.1
8260D	NAPHTHALENE	mg/kg	<0.0178		<0.0169		0.168		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	5.0
8260D	N-PROPYLBENZENE	mg/kg	<0.00711		<0.00675		<0.0291	J4	<0.00667	J4	<0.00686		<0.00706		<0.00721	J4	<0.00723	J4	NV	NA
8260D	STYRENE	mg/kg	<0.0178	C3	<0.0169	C3	<0.0726		<0.0167		<0.0171	C3	<0.0176	C3	<0.0180		<0.0181		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361	J3	<0.00362	J3	NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00356	C3	<0.00337	C3	<0.0146	J3	<0.00334	J3	<0.00343	C3	<0.00353	C3	<0.00361		<0.00362		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	0.05
8260D	TOLUENE	mg/kg	<0.00711		<0.00675		0.0663		0.00271	J	<0.00686		<0.00706		<0.00721		0.00259	J	NV	7.0
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	2.0
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	TRICHLOROETHENE	mg/kg	<0.00142		<0.00135		<0.00581		<0.00133		<0.00137		<0.00141		<0.00144		<0.00145		NV	0.03
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0178		<0.0169		<0.0726		<0.0167		<0.0171		<0.0176		<0.0180		<0.0181		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00711		<0.00675		0.375		<0.00667		<0.00686		<0.00706		<0.00721		0.00282	J	NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00711		<0.00675		0.0627		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00711		<0.00675		0.192		<0.00667		<0.00686		<0.00706		<0.00721		<0.00723		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00356		<0.00337		<0.0146		<0.00334		<0.00343		<0.00353		<0.00361		<0.00362		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00926		<0.00877		0.0577		0.00283	J	<0.00891		<0.00918		<0.00938		<0.00940		NV	9.0

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 3: L1772512 and L1772998 Lab Results of Floor and Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1772512-01		L1772512-02		L1772512-03		L1772512-04		L1772512-05		L1772512-06		L1772998-01		L1772998-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_W_E-9 @ 15		B_W_C-3 @ 14		B_W_A+O_9 @ 13.5		B_W_A-40_9 @ 12		B_F_A-0-20_8.5 @ 15		B_F_A-20-40_8.5 @ 15		B_F_A+0-40_8.75@13.5		B_F_A+16-0_8.5@12.5-13			
Date Collected			08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/28/2024		08/29/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)																				
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00716		<0.00691		0.0264		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00716		<0.00691		<0.0179		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00716		<0.00691		0.0263		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00716		<0.00691		0.00888	J	<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00716		<0.00691		0.0278		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00716		<0.00691		<0.0179		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00716		<0.00691		<0.0179		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00716		<0.00691		<0.0179		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00716		<0.00691		0.05		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00716		<0.00691		0.00646	J	<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00716		<0.00691		<0.0179		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00716		<0.00691		0.164		<0.00677		<0.00699		<0.00709		<0.00725		0.00304	J	NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00716		<0.00691		0.05		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0239		<0.0230		0.112		0.00584	J	<0.0233		<0.0236		<0.0242		<0.0243		NV	5.0
8270E-SIM	PHENANTHRENE	mg/kg	<0.00716		<0.00691		0.243		<0.00677		<0.00699		<0.00709		<0.00725		0.00413	J	NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00716		<0.00691		0.106		<0.00677		<0.00699		<0.00709		<0.00725		<0.00729		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0239		<0.0230		0.174		<0.0226		<0.0233		<0.0236		<0.0242		<0.0243		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0239		<0.0230		0.25		0.00868	J	<0.0233		<0.0236		<0.0242		<0.0243		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0239		<0.0230		<0.0596		<0.0226		<0.0233		<0.0236		<0.0242		<0.0243		NV	NA
cPAH TEC		UNITLESS	0.005		0.005		0.017		0.005		0.005		0.005		0.005		0.005		0.1	NA
Metals																				
6010D	LEAD	mg/kg	6.04		5.22		31.50		4.80		4.40		7.86		10.70		12.50		250	250
7471B	MERCURY	mg/kg	<0.0477		<0.0461		0.24		<0.0451		<0.0466		<0.0472		<0.0483		<0.0486		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan					Indicates analyte tested above 2013 Washington DOE Cleanup Action limits					NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan							
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%																				
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.																				
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																				

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 4: L1774787 and L1776163 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1774787-01		L1774787-02		L1774787-03		L1776163-01		L1776163-02		L1776163-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			A_F_Q+0-17_4D+35-70@13'		A_F_Q+17-35_4D+40-70@13'		A_F_Q+20-36_4D+10-40@12.5'		B_F_D-E_8-9 @ 13		B_F_C-D_8-9 @ 13		B_F_A-B_5.5-6.5 @ 13			
Date Collected			09/05/2024		09/05/2024		09/05/2024		09/10/2024		09/10/2024		09/10/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	19.60		29.20		9.64		32.80		9.25		<5.02		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	33.20		45.80		6.63	J	96.80		32.20		<12.5		2000	2000
	Total DRO +RRO	mg/kg	52.80		75.00		16.27		129.60		41.45		8.76		NV	NA
Polychlorinated biphenyls (PCBs)																
8082 A	PCB 1016	mg/kg	<0.0377		<0.0379		<0.0436		<0.0418		<0.0424		<0.0427		--	NA
8082 A	PCB 1221	mg/kg	<0.0377		<0.0379		<0.0436		<0.0418		<0.0424		<0.0427		--	NA
8082 A	PCB 1232	mg/kg	<0.0377		<0.0379		<0.0436		<0.0418		<0.0424		<0.0427		--	NA
8082 A	PCB 1242	mg/kg	<0.0377		<0.0379		<0.0436		<0.0418		<0.0424		<0.0427		--	NA
8082 A	PCB 1248	mg/kg	<0.0189		<0.0190		<0.0218		<0.0209		<0.0212		<0.0213		--	NA
8082 A	PCB 1254	mg/kg	<0.0189		<0.0190		<0.0218		<0.0209		<0.0212		<0.0213		--	NA
8082 A	PCB 1260	mg/kg	<0.0189		<0.0190		<0.0218		<0.0209		<0.0212		<0.0213		--	NA
	Total PCBs*	mg/kg	0.104		0.104		0.120		0.115		0.117		0.117		1	1.00
Volatile Organic Compounds (VOCs)																
8260D	ACETONE	mg/kg	<0.0638	J4	<0.0622	J4	<0.0797	J4	<0.0747		<0.0776		0.0628	J	NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	BENZENE	mg/kg	<0.00128		<0.00124		<0.00159		<0.00149		<0.00155		<0.00153		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	16
8260D	BROMOFORM	mg/kg	<0.0320		<0.0311		<0.0398		<0.0374		<0.0388		<0.0384		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0320		<0.0311		<0.0398		<0.0374	C3	<0.0388	C3	<0.0384	C3	NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	DIBROMOMETHANE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 4: L1774787 and L1776163 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1774787-01		L1774787-02		L1774787-03		L1776163-01		L1776163-02		L1776163-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			A_F_Q+0-17_4D+35-70@13'		A_F_Q+17-35_4D+40-70@13'		A_F_Q+20-36_4D+10-40@12.5'		B_F_D-E_8-9 @ 13		B_F_C-D_8-9 @ 13		B_F_A-B_5.5-6.5 @ 13			
Date Collected			09/05/2024		09/05/2024		09/05/2024		09/10/2024		09/10/2024		09/10/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00128		<0.00124		<0.00159		<0.00149		<0.00155		<0.00153		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	6
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0320		<0.0311		<0.0398		<0.0374		<0.0388		<0.0384		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.128		<0.124		<0.159		<0.149		<0.155		<0.153		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00847		<0.00826		<0.0106		<0.00992		<0.0103		<0.0102		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0320		<0.0311		<0.0398		<0.0374		<0.0388		<0.0384		NV	NA
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00128		<0.00124		<0.00159		<0.00149		<0.00155		<0.00153		NV	0.1
8260D	NAPHTHALENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187	C3	<0.0194	C3	<0.0192	C3	NV	0.003
8260D	N-PROPYLBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	STYRENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	TOLUENE	mg/kg	<0.00638		0.00314	J	<0.00797		0.00257	J	<0.00776		<0.00767		NV	7.00
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374	J4	<0.00388	J4	<0.00384	J4	NV	2
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	TRICHLOROETHENE	mg/kg	<0.00128		<0.00124		<0.00159		<0.00149		<0.00155		<0.00153		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00320	J3	<0.00311	J3	<0.00398	J3	<0.00374		<0.00388		<0.00384		NV	NA
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0159		<0.0155		<0.0199		<0.0187		<0.0194		<0.0192		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00638		0.0022	J	<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00638		<0.00622		<0.00797		<0.00747		<0.00776		<0.00767		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00320		<0.00311		<0.00398		<0.00374		<0.00388		<0.00384		NV	NA
8260D	XYLENES, TOTAL	mg/kg	0.002	J	0.00153	J	0.00212	J	<0.00971		<0.0101		<0.00998		NV	9.00

Remedial Action Work Plan Report Port of Camas-Washougal Washougal, WA Table 4: L1774787 and L1776163 Lab Results of Floor Samples																
Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																
Lab Sample ID			L1774787-01		L1774787-02		L1774787-03		L1776163-01		L1776163-02		L1776163-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			A_F_Q+0-17_4D+35-70@13'		A_F_Q+17-35_4D+40-70@13'		A_F_Q+20-36_4D+10-40@12.5'		B_F_D-E_8-9 @ 13		B_F_C-D_8-9 @ 13		B_F_A-B_5.5-6.5 @ 13			
Date Collected			09/05/2024		09/05/2024		09/05/2024		09/10/2024		09/10/2024		09/10/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)																
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0222		<0.0223		<0.0256		<0.0246		<0.0250		<0.0251		NV	5.00
8270E-SIM	PHENANTHRENE	mg/kg	<0.00666		0.00281	J	<0.00769		0.00338	J	<0.00749		<0.00753		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00666		<0.00670		<0.00769		<0.00738		<0.00749		<0.00753		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0222		<0.0223		0.00983	J	<0.0246		<0.0250		<0.0251		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0222		<0.0223		0.0218	J	<0.0246		<0.0250		<0.0251		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0222		<0.0223		<0.0256		<0.0246		<0.0250		<0.0251		NV	NA
	cPAH TEC	UNITLESS	0.002		0.002		0.002		0.002		0.002		0.002		0.1	NA
Metals																
6010D	LEAD	mg/kg	6.60		26.40		11.70		9.51		11.10		10.70		250	250
7471B	MERCURY	mg/kg	<0.0444		<0.0446		<0.0513		<0.0492		<0.0499		<0.0502		2	2
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan				NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan							NA = Not applicable				
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%																
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.																
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 5: L1775350 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations								
Lab Sample ID			L1775350-01		L1775350-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A-20-0@13		A_F_Q+20-30@13			
Date Collected			09/06/2024		09/06/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.54		<5.27		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.4		<13.2		2000	2000
	Total DRO +RRO	mg/kg	7.97		9.24		NV	NA
Polychlorinated biphenyls (PCBs)								
8082 A	PCB 1016	mg/kg	<0.0386		<0.0448		--	NA
8082 A	PCB 1221	mg/kg	<0.0386		<0.0448		--	NA
8082 A	PCB 1232	mg/kg	<0.0386		<0.0448		--	NA
8082 A	PCB 1242	mg/kg	<0.0386		<0.0448		--	NA
8082 A	PCB 1248	mg/kg	<0.0193		<0.0224		--	NA
8082 A	PCB 1254	mg/kg	<0.0193		<0.0224		--	NA
8082 A	PCB 1260	mg/kg	<0.0193		<0.0224		--	NA
	Total PCBs*	mg/kg	0.106		0.123		1	1.00
Volatile Organic Compounds (VOCs)								
8260D	ACETONE	mg/kg	0.0848	J3 J4	<0.0826	J3 J4	NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	BENZENE	mg/kg	0.00139		<0.00165		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00333		<0.00413		NV	16
8260D	BROMOFORM	mg/kg	<0.0333		<0.0413		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00333		<0.00413		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0333		<0.0413		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	DIBROMOMETHANE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00664		<0.00826		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 5: L1775350 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations								
Lab Sample ID			L1775350-01		L1775350-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A-20-0@13		A_F_Q+20-30@13			
Date Collected			09/06/2024		09/06/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00133		<0.00165		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00333		<0.00413		NV	6
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0333		<0.0413		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.133		<0.165		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00881		<0.0110		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0333	J3 J4	<0.0413	J3 J4	NV	NA
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00133		<0.00165		NV	0.1
8260D	NAPHTHALENE	mg/kg	<0.0166		<0.0207		NV	0.003
8260D	N-PROPYLBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	STYRENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00333	C3	<0.00413	C3	NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00333	C3 J4	<0.00413	C3 J4	NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	TOLUENE	mg/kg	<0.00664		<0.00826		NV	7.00
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00333		<0.00413		NV	2
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	TRICHLOROETHENE	mg/kg	<0.00133		<0.00165		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0166		<0.0207		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00664		<0.00826		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00333		<0.00413		NV	NA
8260D	XYLENES, TOTAL	mg/kg	0.00172	J	<0.0107		NV	9.00

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 5: L1775350 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations								
Lab Sample ID			L1775350-01		L1775350-02		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			B_F_A-20-0@13		A_F_Q+20-30@13			
Date Collected			09/06/2024		09/06/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)								
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00681		<0.00790		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0227		<0.0263		NV	5.00
8270E-SIM	PHENANTHRENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00681		<0.00790		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0227		<0.0263		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	0.00494	J	<0.0263		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0227		<0.0263		NV	NA
	cPAH TEC	UNITLESS	0.002		0.002		0.1	NA
Metals								
6010D	LEAD	mg/kg	10.1		8.18		250	250
7471B	MERCURY	mg/kg	0.0449	J	0.061		2	2
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan				NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan			
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%								
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.								
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf								

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 6: L1778300 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1778300-01		L1778300-02		L1778300-03		L1778300-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740.1)
Client Sample ID			B_F_A_E_8-9@13		B_F_B+20-D_6-7@13		B_F_A+15-B+20_7-8@13		B_F_A-10+15_7-8@13			
Date Collected			09/16/2024		09/16/2024		09/16/2024		09/16/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<5.59		13.2		1.91	J	8.74		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<14.0		52.1		5.01	J	10.2	J	2000	2000
	Total DRO +RRO	mg/kg	9.80		65.30		6.92		18.94		NV	NA
Polychlorinated biphenyls (PCBs)												
8082 A	PCB 1016	mg/kg	<0.0475		<0.0393		<0.0392		<0.0416		--	NA
8082 A	PCB 1221	mg/kg	<0.0475		<0.0393		<0.0392		<0.0416		--	NA
8082 A	PCB 1232	mg/kg	<0.0475		<0.0393		<0.0392		<0.0416		--	NA
8082 A	PCB 1242	mg/kg	<0.0475		<0.0393		<0.0392		<0.0416		--	NA
8082 A	PCB 1248	mg/kg	<0.0237		<0.0196		<0.0196		<0.0208		--	NA
8082 A	PCB 1254	mg/kg	<0.0237		<0.0196		<0.0196		<0.0208		--	NA
8082 A	PCB 1260	mg/kg	<0.0237		<0.0196		<0.0196		<0.0208		--	NA
	Total PCBs*	mg/kg	0.131		0.108		0.108		0.114		1.00	1.00
Volatile Organic Compounds (VOCs)												
8260D	ACETONE	mg/kg	<0.0931		<0.0667		<0.0661		<0.0745		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	BENZENE	mg/kg	<0.00186		<0.00133		<0.00132		<0.00149		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	16
8260D	BROMOFORM	mg/kg	<0.0466		<0.0333		<0.0331		<0.0373		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00931	J4	<0.00667	J4	<0.00661	J4	<0.00745	J4	NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0466		<0.0333		<0.0331		<0.0373		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 6: L1778300 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1778300-01		L1778300-02		L1778300-03		L1778300-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan) mg/kg	Washington CLAR Method A Unrestricted Land Use (Table 740.1) mg/kg
Client Sample ID			B_F_A_E_8-9@13		B_F_B+20-D_6-7@13		B_F_A+15-B+20_7-8@13		B_F_A-10+15_7-8@13			
Date Collected			09/16/2024		09/16/2024		09/16/2024		09/16/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00186		<0.00133		<0.00132		<0.00149		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0466		<0.0333		<0.0331		<0.0373		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.186		<0.133		<0.132		<0.149		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.0124		<0.00886		<0.00878		<0.00990		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0466		<0.0333		<0.0331		<0.0373		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00186		<0.00133		<0.00132		<0.00149		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	5.0
8260D	STYRENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	TOLUENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00186		<0.00133		<0.00132		<0.00149		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0233		<0.0167		<0.0165		<0.0186		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00931		<0.00667		<0.00661		<0.00745		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00466		<0.00333		<0.00331		<0.00373		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.0121		<0.00867		<0.00860		<0.00969		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 6: L1778300 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1778300-01		L1778300-02		L1778300-03		L1778300-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan) mg/kg	Washington CLAR Method A Unrestricted Land Use (Table 740.1) mg/kg
Client Sample ID			B_F_A_E_8-9@13		B_F_B+20-D_6-7@13		B_F_A+15-B+20_7-8@13		B_F_A-10+15_7-8@13			
Date Collected			09/16/2024		09/16/2024		09/16/2024		09/16/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Polycyclic Aromatic Hydrocarbons (PAHs)												
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00838		0.00296	J	<0.00692		<0.00735		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00838		0.00222	J	<0.00692		<0.00735		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00838		0.00364	J	<0.00692		<0.00735		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00838		0.00717		<0.00692		<0.00735		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00838		<0.00693		<0.00692		<0.00735		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0279		<0.0231		<0.0231		<0.0245		NV	5.0
8270E-SIM	PHENANTHRENE	mg/kg	<0.00838		0.00635	J	<0.00692		<0.00735		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00838		0.00703		<0.00692		<0.00735		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0279		<0.0231		<0.0231		<0.0245		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0279		<0.0231		<0.0231		<0.0245		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0279		<0.0231		<0.0231		<0.0245		NV	NA
	cPAH TEC	UNITLESS	0.003		0.003		0.002		0.002		0.1	NA
Metals												
6010D	LEAD	mg/kg	9.95		12.7		9.52		20.3		250	250
7471B	MERCURY	mg/kg	<0.0559		<0.0462		<0.0461		<0.0490		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan		Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan				
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%												
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.												
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf												

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 7: L1779358 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1779358-01		L1779358-02		L1779358-03		L1779358-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARCs Method A Unrestricted Land Use (Table 740.1)
Client Sample ID			B_F_B_C 7-8 @ 13		B_F_A_B 7-8 @ 13		B_F_A_20-A 6.5-7.5 @ 13		B_F_A_15-A 6-7 @ 13			
Date Collected			09/18/2024		09/18/2024		09/18/2024		09/18/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.52		7.49	J	<13.7		4.69	J	2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.3		13.7	J	<34.4		14.9		2000	2000
	Total DRO +RRO	mg/kg	7.91		21.19		24.05		19.59		NV	NA
Polychlorinated biphenyls (PCBs)												
8082 A	PCB 1016	mg/kg	<0.0384		<0.0400		<0.0416		<0.0399		--	NA
8082 A	PCB 1221	mg/kg	<0.0384		<0.0400		<0.0416		<0.0399		--	NA
8082 A	PCB 1232	mg/kg	<0.0384		<0.0400		<0.0416		<0.0399		--	NA
8082 A	PCB 1242	mg/kg	<0.0384		<0.0400		<0.0416		<0.0399		--	NA
8082 A	PCB 1248	mg/kg	<0.0192		<0.0200		<0.0208		<0.0200		--	NA
8082 A	PCB 1254	mg/kg	<0.0192		<0.0200		<0.0208		<0.0200		--	NA
8082 A	PCB 1260	mg/kg	<0.0192		<0.0200		<0.0208		<0.0200		--	NA
	Total PCBs*	mg/kg	0.106		0.110		0.114		0.110		1.00	1.00
Volatile Organic Compounds (VOCs)												
8260D	ACETONE	mg/kg	<0.0633		<0.0688		<0.0730		<0.0716		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	BENZENE	mg/kg	<0.00127		<0.00138		<0.00146		<0.00143		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	16
8260D	BROMOFORM	mg/kg	<0.0316		<0.0344		<0.0365		<0.0358		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0158	C3	<0.0172	C3	<0.0182	C3	<0.0179	C3	NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0316		<0.0344		<0.0365		<0.0358		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 7: L1779358 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1779358-01		L1779358-02		L1779358-03		L1779358-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan) mg/kg	Washington CLARC Method A Unrestricted Land Use (Table 740.1) mg/kg
Client Sample ID			B_F_B_C 7-8 @ 13		B_F_A_B 7-8 @ 13		B_F_A_20-A 6.5-7.5 @ 13		B_F_A_15-A 6-7 @ 13			
Date Collected			09/18/2024		09/18/2024		09/18/2024		09/18/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00127		<0.00138		<0.00146		<0.00143		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0316		<0.0344		<0.0365		<0.0358		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.127		<0.138		<0.146		<0.143		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	0.00963	J	<0.00914		<0.00969		<0.00950		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0316		<0.0344		<0.0365		<0.0358		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00127		<0.00138		<0.00146		<0.00143		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0158	C3	<0.0172	C3	<0.0182	C3	<0.0179	C3	NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	5.0
8260D	STYRENE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00316	J4	<0.00344	J4	<0.00365	J4	<0.00358	J4	NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	TOLUENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00127		<0.00138		<0.00146		<0.00143		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0158		<0.0172		<0.0182		<0.0179		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	0.00449	C3 J	<0.00688	C3	<0.00730	C3	<0.00716	C3	NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00633		<0.00688		<0.00730		<0.00716		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00316		<0.00344		<0.00365		<0.00358		NV	NA
8260D	XYLENES, TOTAL	mg/kg	0.00595	J	<0.00894		<0.00949		<0.00931		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 7: L1779358 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations												
Lab Sample ID			L1779358-01		L1779358-02		L1779358-03		L1779358-04		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan) mg/kg	Washington CLAR Method A Unrestricted Land Use (Table 740.1) mg/kg
Client Sample ID			B_F_B_C 7-8 @ 13		B_F_A_B 7-8 @ 13		B_F_A 20-A 6.5-7.5 @ 13		B_F_A 15-A 6-7 @ 13			
Date Collected			09/18/2024		09/18/2024		09/18/2024		09/18/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Polycyclic Aromatic Hydrocarbons (PAHs)												
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0226		<0.0235		<0.0244		<0.0235		NV	5.0
8270E-SIM	PHENANTHRENE	mg/kg	<0.00678		<0.00706		<0.00733		0.0053	J	NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00678		<0.00706		<0.00733		<0.00705		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0226		<0.0235		<0.0244		<0.0235		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0226		<0.0235		<0.0244		<0.0235		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0226		<0.0235		<0.0244		<0.0235		NV	NA
	cPAH TEC	UNITLESS	0.002		0.002		0.002		0.002		0.1	NA
Metals												
6010D	LEAD	mg/kg	5.56		7.53		7.67		7.83		250	250
7471B	MERCURY	mg/kg	<0.0452		<0.0471		<0.0489		<0.0470		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan		Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan				
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%												
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.												
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf												

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 8: L1780967 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																						
Lab Sample ID			L1780967-01		L1780967-02		L1780967-03		L1780967-04		L1780967-05		L1780967-06		L1780967-07		L1780967-08		L1780967-09		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_F_E+30_9@11		B_F_E+30_6-7@11		B_F_D-E_6-7@11		B_F_E+30_5-6@11		B_F_D-E_5-6@11		B_F_C-D_5-6@11		B_F_C-D_4-5@11		B_F_C-D_4-5@11		B_F_B-C_4-5@11			
Date Collected			09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.85		28.30		44.10		7.82		31.20		14.00		5.91		<5.41		15.30		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<12.1		97.00		123.00		20.20		72.80		62.70		<13.8		<13.5		52.20		2000	2000
	Total DRO +RRO	mg/kg	8.48		125.30		8.03				104.00		76.70		12.81		9.46		67.50		NV	NA
Polychlorinated biphenyls (PCBs)																						
8082 A	PCB 1016	mg/kg	<0.0412		<0.0416		<0.0403		<0.0424		<0.0436		<0.0396		<0.0470		<0.0460		<0.0397		--	NA
8082 A	PCB 1221	mg/kg	<0.0412		<0.0416		<0.0403		<0.0424		<0.0436		<0.0396		<0.0470		<0.0460		<0.0397		--	NA
8082 A	PCB 1232	mg/kg	<0.0412		<0.0416		<0.0403		<0.0424		<0.0436		<0.0396		<0.0470		<0.0460		<0.0397		--	NA
8082 A	PCB 1242	mg/kg	<0.0412		<0.0416		<0.0403		<0.0424		<0.0436		<0.0396		<0.0470		<0.0460		<0.0397		--	NA
8082 A	PCB 1248	mg/kg	<0.0206		<0.0208		<0.0202		<0.0212		<0.0218		<0.0198		<0.0235		<0.0230		<0.0198		--	NA
8082 A	PCB 1254	mg/kg	<0.0206		<0.0208		<0.0202		<0.0212		<0.0218		<0.0198		<0.0235		<0.0230		<0.0198		--	NA
8082 A	PCB 1260	mg/kg	<0.0206		<0.0208		<0.0202		<0.0212		<0.0218		<0.0198		<0.0235		<0.0230		<0.0198		--	NA
	Total PCBs*	mg/kg	0.113		0.114		0.111		0.117		0.120		0.109		0.129		0.127		0.109		1.00	1.00
Volatile Organic Compounds (VOCs)																						
8260D	ACETONE	mg/kg	<0.0725	C3	<0.0747	C3	<0.0698	C3	<0.0773	C3	<0.0818	C3	<0.0682	C3	<0.0915	C3	<0.0852	C3	<0.0686	C3	NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	BENZENE	mg/kg	<0.00145		<0.00149		<0.00140		<0.00155		<0.00164		<0.00136		<0.00183		<0.00170		<0.00137		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	16
8260D	BROMOFORM	mg/kg	<0.0363		<0.0373		<0.0349		<0.0387		<0.0409		<0.0341		<0.0457		<0.0426		<0.0343		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0363		<0.0373		<0.0349		<0.0387		<0.0409		<0.0341		<0.0457		<0.0426		<0.0343		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 8: L1780967 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																						
Lab Sample ID			L1780967-01		L1780967-02		L1780967-03		L1780967-04		L1780967-05		L1780967-06		L1780967-07		L1780967-08		L1780967-09		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_F_E+30_9@11		B_F_E+30_6-7@11		B_F_D-E_6-7@11		B_F_E+30_5-6@11		B_F_D-E_5-6@11		B_F_C-D_5-6@11		B_F_D-E_4-5@11		B_F_C-D_4-5@11		B_F_B-C_4-5@11			
Date Collected			09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00145		<0.00149		<0.00140		<0.00155		<0.00164		<0.00136		<0.00183		<0.00170		<0.00137		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0363		<0.0373		<0.0349		<0.0387		<0.0409		<0.0341		<0.0457		<0.0426		<0.0343		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00725		0.00499	J	<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.145		<0.149		<0.140		<0.155		<0.164		<0.136		<0.183		<0.170		<0.137		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00963		<0.00992		<0.00926		<0.0103		<0.0109		<0.00906		<0.0121		<0.0113		<0.00911		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0363		<0.0373		<0.0349		<0.0387		<0.0409		<0.0341		<0.0457		<0.0426		<0.0343		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00145		<0.00149		<0.00140		<0.00155		<0.00164		<0.00136		<0.00183		<0.00170		<0.00137		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0181	C3 J4	<0.0187	C3 J4	<0.0174	C3 J4	<0.0193	C3 J4	<0.0205	C3 J4	<0.0171	C3 J4	<0.0229	C3 J4	<0.0213	C3 J4	<0.0171	C3 J4	NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	5.0
8260D	STYRENE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	TOLUENE	mg/kg	<0.00725		<0.00747		<0.00698		<0.00773		<0.00818		0.00341	J	<0.00915		<0.00852		<0.00686		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0181	C3	<0.0187	C3	<0.0174	C3	<0.0193	C3	<0.0205	C3	<0.0171	C3	<0.0229	C3	<0.0213	C3	<0.0171	C3	NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0181	C3	<0.0187	C3	<0.0174	C3	<0.0193	C3	<0.0205	C3	<0.0171	C3	<0.0229	C3	<0.0213	C3	<0.0171	C3	NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00145		<0.00149		<0.00140		<0.00155		<0.00164		<0.00136		<0.00183		<0.00170		<0.00137		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0181		<0.0187		<0.0174		<0.0193		<0.0205		<0.0171		<0.0229		<0.0213		<0.0171		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		0.0122		<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		0.00336	J	<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00725		<0.00747		<0.00698		0.00472	J	<0.00818		<0.00682		<0.00915		<0.00852		<0.00686		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00363		<0.00373		<0.00349		<0.00387		<0.00409		<0.00341		<0.00457		<0.00426		<0.00343		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00943		<0.00971		<0.00907		<0.0101		<0.0106		0.00143	J	<0.0119		<0.0111		<0.00891		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 8: L1780967 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																							
Lab Sample ID			L1780967-01		L1780967-02		L1780967-03		L1780967-04		L1780967-05		L1780967-06		L1780967-07		L1780967-08		L1780967-09		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use	
Client Sample ID			B_F_E+30_9@11		B_F_E+30_6-7@11		B_F_D-E_6-7@11		B_F_E+30_5-6@11		B_F_D-E_5-6@11		B_F_C-D_5-6@11		B_F_D-E_4-5@11		B_F_C-D_4-5@11		B_F_B-C_4-5@11				
Date Collected			09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024		09/23/2024				
Method	Analyte		Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg		
Polycyclic Aromatic Hydrocarbons (PAHs)																							
8270E-SIM	BENZO(A)ANTHRACENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	BENZO(A)PYRENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE		mg/kg	<0.00727		<0.00734		0.00283	J	<0.00747		<0.00770		0.00222	J	<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	CHRYSENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	ANTHRACENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	ACENAPHTHENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	ACENAPHTHYLENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	FLUORANTHENE		mg/kg	<0.00727		<0.00734		0.00594	J	<0.00747		0.0033	J	0.00472	J	<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	FLUORENE		mg/kg	<0.00727		<0.00734		<0.00711		<0.00747		<0.00770		<0.00699		<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	NAPHTHALENE		mg/kg	<0.0242		<0.0245		<0.0237		<0.0249		<0.0257		0.0411		<0.0276		<0.0270		<0.0234		NV	5.0
8270E-SIM	PHENANTHRENE		mg/kg	<0.00727		<0.00734		0.00555	J	<0.00747		0.00416	J	0.00467	J	<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	PYRENE		mg/kg	<0.00727		<0.00734		0.00583	J	<0.00747		0.00345	J	0.00487	J	<0.00829		<0.00811		<0.00701		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE		mg/kg	<0.0242		<0.0245		<0.0237		<0.0249		<0.0257		0.0189	J	<0.0276		<0.0270		<0.0234		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE		mg/kg	<0.0242		<0.0245		<0.0237		<0.0249		<0.0257		0.0569		0.0133	J	<0.0270		<0.0234		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE		mg/kg	<0.0242		<0.0245		<0.0237		<0.0249		<0.0257		<0.0233		<0.0276		<0.0270		<0.0234		NV	NA
	cPAH TEC		UNITLESS	0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.1	NA
Metals																							
6010D	LEAD		mg/kg	16.1		19.2		17.7		23.2		23.7		17.1		13.2		12		16.8		250	250
7471B	MERCURY		mg/kg	<0.0485		<0.0490		<0.0474		<0.0498		<0.0513		<0.0466		<0.0553		<0.0541		<0.0467		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan			Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan														
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%																							
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																							

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 9: L1782578 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1782578-01		L1782578-02		L1782578-03		L1782578-04		L1782578-05		L1782578-06		L1782578-07		L1782578-08		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_F_E+10_4-5@11		B_F_E+5_3-4@11		A_F_P_Q_4D+40@12		A_F_P_Q+20_4D+30@12		A_F_N+10_P+10_4D+10@12		A_F_P-Q_4D@12		A_F_Q+_4D+@12		A_F_Q+_3D-4D@12			
Date Collected			09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	7.55		<4.51		3.17	J	26.30		<4.43		63.00		5.67		8.39		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	25.70		7.38	J	5.07	J	13.60		<11.1		103.00		19.00		8.24	J	2000	2000
	Total DRO +RRO	mg/kg	33.25		9.64		8.24		39.90		7.77		166.00		24.67		16.63		NV	NA
Polychlorinated biphenyls (PCBs)																				
8082 A	PCB 1016	mg/kg	<0.0395		<0.0384		<0.0383		<0.0422		<0.0377		<0.0428		<0.0425		<0.0413		--	NA
8082 A	PCB 1221	mg/kg	<0.0395		<0.0384		<0.0383		<0.0422		<0.0377		<0.0428		<0.0425		<0.0413		--	NA
8082 A	PCB 1232	mg/kg	<0.0395		<0.0384		<0.0383		<0.0422		<0.0377		<0.0428		<0.0425		<0.0413		--	NA
8082 A	PCB 1242	mg/kg	<0.0395		<0.0384		<0.0383		<0.0422		<0.0377		<0.0428		<0.0425		<0.0413		--	NA
8082 A	PCB 1248	mg/kg	<0.0197		<0.0192		<0.0191		<0.0211		<0.0188		<0.0214		<0.0212		<0.0207		--	NA
8082 A	PCB 1254	mg/kg	<0.0197		<0.0192		<0.0191		<0.0211		<0.0188		<0.0214		<0.0212		<0.0207		--	NA
8082 A	PCB 1260	mg/kg	<0.0197		<0.0192		<0.0191		<0.0211		<0.0188		<0.0214		<0.0212		<0.0207		--	NA
	Total PCBs*	mg/kg	0.109		0.106		0.105		0.116		0.104		0.118		0.117		0.114		1.00	1.00
Volatile Organic Compounds (VOCs)																				
8260D	ACETONE	mg/kg	<0.0680		<0.0633		<0.0683		<0.0747		<0.0641		<0.0789		<0.0758		<0.0728		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	BENZENE	mg/kg	<0.00136		<0.00127		<0.00137		<0.00149		<0.00128		<0.00158		<0.00152		<0.00146		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	16
8260D	BROMOFORM	mg/kg	<0.0340		<0.0316		<0.0341		<0.0374		<0.0321		<0.0395		<0.0379		<0.0364		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0170	C3	<0.0158	C3	<0.0171	C3	<0.0187	C3	<0.0161	C3	<0.0197	C3	<0.0190	C3	<0.0182	C3	NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00680	C3	<0.00633	C3	<0.00683	C3	<0.00747	C3	<0.00641	C3	<0.00789	C3	<0.00758	C3	<0.00728	C3	NV	NA
8260D	CHLOROFORM	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0340		<0.0316		<0.0341		<0.0374		<0.0321		<0.0395		<0.0379		<0.0364		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 9: L1782578 Lab Results of Floor Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1782578-01		L1782578-02		L1782578-03		L1782578-04		L1782578-05		L1782578-06		L1782578-07		L1782578-08		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_F_E+10_4-5@11		B_F_E+5_3-4@11		A_F_P_Q_4D+40@12		A_F_P_Q+20_4D+30@12		A_F_N+10-P+10_4D+10@12		A_F_P-Q_4D@12		A_F_Q+_4D+@12		A_F_Q+_3D-4D@12			
Date Collected			09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00340	J3	<0.00316	J3	<0.00341	J3	<0.00374	J3	<0.00321	J3	<0.00395	J3	<0.00379	J3	<0.00364	J3	NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00136		<0.00127		<0.00137		<0.00149		<0.00128		<0.00158		<0.00152		<0.00146		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0340	J4	<0.0316	J4	<0.0341	J4	<0.0374	J4	<0.0321	J4	<0.0395	J4	<0.0379	J4	<0.0364	J4	NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00680		<0.00633		<0.00683		0.00393	J	<0.00641		0.0108		<0.00758		<0.00728		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.136		<0.127		<0.137		<0.149		<0.128		<0.158		<0.152		<0.146		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00903		<0.00840		<0.00906		<0.00992		<0.00852		<0.0105		<0.0101		<0.00966		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0340		<0.0316		<0.0341		<0.0374		<0.0321		<0.0395		<0.0379		<0.0364		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00136		<0.00127		<0.00137		<0.00149		<0.00128		<0.00158		<0.00152		<0.00146		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		0.0572		<0.0190		<0.0182		NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	5.0
8260D	STYRENE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00340	C3	<0.00316	C3	<0.00341	C3	<0.00374	C3	<0.00321	C3	<0.00395	C3	<0.00379	C3	<0.00364	C3	NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	TOLUENE	mg/kg	<0.00680		<0.00633		0.00191	J	<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	0.05
8260D	1,2,3-TRICHLOROENZENE	mg/kg	<0.0170	J3 J4	<0.0158	J3 J4	<0.0171	J3 J4	<0.0187	J3 J4	<0.0161	J3 J4	<0.0197	J3 J4	<0.0190	J3 J4	<0.0182	J3 J4	NV	7.0
8260D	1,2,4-TRICHLOROENZENE	mg/kg	<0.0170	J4	<0.0158	J4	<0.0171	J4	<0.0187	J4	<0.0161	J4	<0.0197	J4	<0.0190	J4	<0.0182	J4	NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00136		<0.00127		<0.00137		<0.00149		<0.00128		<0.00158		<0.00152		<0.00146		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0170		<0.0158		<0.0171		<0.0187		<0.0161		<0.0197		<0.0190		<0.0182		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00680		<0.00633		<0.00683		<0.00747		<0.00641		<0.00789		<0.00758		<0.00728		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00340		<0.00316		<0.00341		<0.00374		<0.00321		<0.00395		<0.00379		<0.00364		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00884		<0.00823		<0.00888		<0.00971		<0.00834		<0.0103		<0.00986		<0.00946		NV	NA

Remedial Action Work Plan Report Port of Camas-Washougal Washougal, WA Table 9: L1782578 Lab Results of Floor Samples																					
Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																					
Lab Sample ID			L1782578-01		L1782578-02		L1782578-03		L1782578-04		L1782578-05		L1782578-06		L1782578-07		L1782578-08		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use	
Client Sample ID			B_F_E+10_4-5@11		B_F_E+5_3-4@11		A_F_P_Q_4D+40@12		A_F_P_Q+20_4D+30@12		A_F_N+10-P+10_4D+10@12		A_F_P-Q_4D@12		A_F_Q+_4D+@12		A_F_Q+_3D-4D@12				
Date Collected			09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024		09/26/2024				
Method	Analyte		Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Polycyclic Aromatic Hydrocarbons (PAHs)																					
8270E-SIM	BENZO(A)ANTHRACENE		mg/kg	<0.00697		<0.00677		<0.00676		0.00246	J	<0.00665		0.0131		<0.00749		<0.00730		NV	NA
8270E-SIM	BENZO(A)PYRENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.0051	J	<0.00749		<0.00730		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.00687	J	<0.00749		<0.00730		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		<0.00755		<0.00749		<0.00730		NV	NA
8270E-SIM	CHRYSENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.0118		<0.00749		<0.00730		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		<0.00755		<0.00749		<0.00730		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.00256	J	<0.00749		<0.00730		NV	NA
8270E-SIM	ANTHRACENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.021		<0.00749		<0.00730		NV	NA
8270E-SIM	ACENAPHTHENE		mg/kg	<0.00697		<0.00677		<0.00676		0.0124		<0.00665		0.0283		<0.00749		<0.00730		NV	NA
8270E-SIM	ACENAPHTHYLENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		<0.00755		<0.00749		<0.00730		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE		mg/kg	<0.00697		<0.00677		<0.00676		<0.00744		<0.00665		0.00251	J	<0.00749		<0.00730		NV	NA
8270E-SIM	FLUORANTHENE		mg/kg	<0.00697		<0.00677		0.00524	J	0.016		<0.00665		0.0585		<0.00749		<0.00730		NV	NA
8270E-SIM	FLUORENE		mg/kg	<0.00697		<0.00677		0.0028	J	0.0115		<0.00665		0.0317		<0.00749		<0.00730		NV	NA
8270E-SIM	NAPHTHALENE		mg/kg	<0.0232		<0.0226		<0.0225		0.00619	J	<0.0222		0.0277		<0.0250		<0.0243		NV	5.0
8270E-SIM	PHENANTHRENE		mg/kg	<0.00697		<0.00677		0.00973		0.0332		<0.00665		0.122		<0.00749		<0.00730		NV	NA
8270E-SIM	PYRENE		mg/kg	<0.00697		<0.00677		0.00355	J	0.0118		<0.00665		0.0399		<0.00749		<0.00730		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE		mg/kg	<0.0232		<0.0226		<0.0225		<0.0248		<0.0222		0.0107	J	<0.0250		<0.0243		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE		mg/kg	<0.0232		<0.0226		<0.0225		0.00701	J	<0.0222		0.0206	J	<0.0250		<0.0243		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE		mg/kg	<0.0232		<0.0226		<0.0225		<0.0248		<0.0222		<0.0252		<0.0250		<0.0243		NV	NA
	cPAH TEC		UNITLESS	0.001		0.001		0.002		0.003		0.001		0.008		0.001		0.001		0.1	NA
Metals																					
6010D	LEAD		mg/kg	11.3		8.69		7.36		8.73		7.4		9.52		7.16		6.72		250	250
7471B	MERCURY		mg/kg	<0.0464		<0.0451		<0.0451		<0.0496		<0.0443		<0.0504		<0.0499		<0.0486		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan			Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan												
Qualifiers: 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 P: RPD between the primary and confirmatory analysis exceeded 40%																					
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.																					
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																					

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 10: L1783949 Lab Results of Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																						
Lab Sample ID			L1783949-01		L1783949-02		L1783949-03		L1783949-04		L1783949-05		L1783949-06		L1783949-07		L1783949-08		L1783949-09		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			A_W_P_Q_4D@10		A_W_N_P_5D@10		A_W_N_P_4D@10		A_W_P_Q+ 3D-4D@10		A_W_Q+ 2D-3D@10		A_W_Q+ 1D-2D@10		B_W_A-B 1-3@10		B_W_B-C@10		B_W_E+ 9-10@10			
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.63		<4.72		<4.68						<4.71		<4.70		<4.66		<4.64		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.6		<11.8		<11.7						8.22	J	<11.8		<11.7		<11.6		2000	2000
	Total DRO +RRO	mg/kg	8.12		8.26		8.19						10.58		8.25		8.18		8.12		NV	NA
Polychlorinated biphenyls (PCBs)																						
8082 A	PCB 1016	mg/kg	<0.0393		<0.0402		<0.0398						<0.0139		<0.0139		<0.0138		<0.0137		--	NA
8082 A	PCB 1221	mg/kg	<0.0393		<0.0402		<0.0398						<0.0139		<0.0139		<0.0138		<0.0137		--	NA
8082 A	PCB 1232	mg/kg	<0.0393		<0.0402		<0.0398						<0.0139		<0.0139		<0.0138		<0.0137		--	NA
8082 A	PCB 1242	mg/kg	<0.0393		<0.0402		<0.0398						<0.0139		<0.0139		<0.0138		<0.0137		--	NA
8082 A	PCB 1248	mg/kg	<0.0197		<0.0201		<0.0199						<0.00869		<0.00867		<0.00860		<0.00857		--	NA
8082 A	PCB 1254	mg/kg	<0.0197		<0.0201		<0.0199						<0.00869		<0.00867		<0.00860		<0.00857		--	NA
8082 A	PCB 1260	mg/kg	<0.0197		<0.0201		<0.0199						<0.00869		<0.00867		<0.00860		<0.00857		--	NA
	Total PCBs*	mg/kg	0.108		0.111		0.109						0.041		0.041		0.041		0.040		1.00	1.00
Volatile Organic Compounds (VOCs)																						
8260D	ACETONE	mg/kg	<0.0732		<0.0681		<0.0673						<0.0678		<0.0681		<0.0666		<0.0664		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	BENZENE	mg/kg	<0.00146		<0.00136		<0.00135						<0.00136		<0.00136		<0.00133		<0.00133		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	16
8260D	BROMOFORM	mg/kg	<0.0367		<0.0340		<0.0336						<0.0339		<0.0341		<0.0333		<0.0332		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0367		<0.0340		<0.0336						<0.0339		<0.0341		<0.0333		<0.0332		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 10: L1783949 Lab Results of Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																						
Lab Sample ID			L1783949-01		L1783949-02		L1783949-03		L1783949-04		L1783949-05		L1783949-06		L1783949-07		L1783949-08		L1783949-09		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			A_W_P_Q_4D@10		A_W_N_P_5D@10		A_W_N_P_4D@10		A_W_P_Q+ 3D-4D@10		A_W_Q+ 2D-3D@10		A_W_Q+ 1D-2D@10		B_W_A-B 1-3@10		B_W_B-C@10		B_W_E+ 9-10@10			
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00367	J4	<0.00340	J4	<0.00336	J4					<0.00339	J4	<0.00341	J4	<0.00333	J4	<0.00332	J4	NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	DIISOPROPYL ETHER	mg/kg	<0.00146		<0.00136		<0.00135						<0.00136		<0.00136		<0.00133		<0.00133		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0367		<0.0340		<0.0336						<0.0339		<0.0341		<0.0333		<0.0332		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.146		<0.136		<0.135						<0.136		<0.136		<0.133		<0.133		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	0.0139	B J	0.0122	B J	<0.00894						<0.00900		<0.00905		<0.00885		<0.00881		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0367		<0.0340		<0.0336						<0.0339		<0.0341		<0.0333		<0.0332		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00146		<0.00136		<0.00135						<0.00136		<0.00136		<0.00133		<0.00133		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0183		0.0126	B J	<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	5.0
8260D	STYRENE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	TOLUENE	mg/kg	0.00194	J	<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0183	J4	<0.0170	J4	<0.0168	J4					<0.0169	J4	<0.0170	J4	<0.0167	J4	<0.0166	J4	NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0183	J4	<0.0170	J4	<0.0168	J4					<0.0169	J4	<0.0170	J4	<0.0167	J4	<0.0166	J4	NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00146		<0.00136		<0.00135						<0.00136		<0.00136		<0.00133		<0.00133		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0183		<0.0170		<0.0168						<0.0169		<0.0170		<0.0167		<0.0166		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00732		<0.00681		<0.00673						<0.00678		<0.00681		<0.00666		<0.00664		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00367		<0.00340		<0.00336						<0.00339		<0.00341		<0.00333		<0.00332		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00952		<0.00885		<0.00875						<0.00881		<0.00885		<0.00866		<0.00863		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 10: L1783949 Lab Results of Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																							
Lab Sample ID			L1783949-01		L1783949-02		L1783949-03		L1783949-04		L1783949-05		L1783949-06		L1783949-07		L1783949-08		L1783949-09		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use	
Client Sample ID			A_W_P_Q_4D+@10		A_W_N_P_5D@10		A_W_N_P_4D@10		A_W_P_Q+ 3D-4D@10		A_W_Q+ 2D-3D@10		A_W_Q+ 1D-2D@10		B_W_A-B 1-3@10		B_W_B-C@10		B_W_E+ 9-10@10				
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024				
Method	Analyte		Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg		
Polycyclic Aromatic Hydrocarbons (PAHs)																							
8270E-SIM	BENZO(A)ANTHRACENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	BENZO(A)PYRENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	CHRYSENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	ANTHRACENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	ACENAPHTHENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	ACENAPHTHYLENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	FLUORANTHENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	FLUORENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	NAPHTHALENE		mg/kg	<0.0231		<0.0236		0.00648	B J					<0.0235		<0.0235		<0.0233		<0.0232		NV	5.0
8270E-SIM	PHENANTHRENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	PYRENE		mg/kg	<0.00694		<0.00709		<0.00703						<0.00706		<0.00705		<0.00699		<0.00697		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE		mg/kg	<0.0231		<0.0236		<0.0234						<0.0235		<0.0235		<0.0233		<0.0232		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE		mg/kg	<0.0231		<0.0236		<0.0234						<0.0235		<0.0235		<0.0233		<0.0232		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE		mg/kg	<0.0231		<0.0236		<0.0234						<0.0235		<0.0235		<0.0233		<0.0232		NV	NA
	cPAH TEC		UNITLESS	0.002		0.002		0.002						0.002		0.002		0.002		0.002		0.1	NA
Metals																							
6010D	LEAD		mg/kg	13.7	O1	10.1		12.8						11.3		8.56		11.3		12.4		250	250
7471B	MERCURY		mg/kg	<0.0463		<0.0472		0.0277	J					<0.0471		<0.0470		<0.0466		<0.0464		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan			Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan						Sample is for soil characterization to confirm that additional soils excavated from this area can be disposed of as clean fill.				Sample from an area at or exceeding excavation limits				
Qualifiers: 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 O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference. P: RPD between the primary and confirmatory analysis exceeded 40%																							
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																							

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 11: L1783979 Lab Results of Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1783979-01		L1783979-02		L1783979-03		L1783979-04		L1783979-05		L1783979-06		L1783979-07		L1783979-08		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_W_E+ 8-9@10		B_W_E+ 7-8@10		B_W_E+ 6-7@10		B_W_E+ 5-6@10		B_W_E+ 4-5@10		B_W_E+ 3-4@10		B_W_E+ 1-3@10		B_W_D-E@10			
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			mg/kg	mg/kg
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	<4.62		<4.63		<4.71		<5.26		<4.79		<4.80		<5.36		<4.61		2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	<11.6		<11.6		<11.8		<13.2		<12.0		<12.0		<13.4		<11.5		2000	2000
	Total DRO +RRO	mg/kg	8.11		8.12		8.26		9.23		8.40		8.40		9.38		8.06		NV	NA
Polychlorinated biphenyls (PCBs)																				
8082 A	PCB 1016	mg/kg	<0.0136		<0.0137		<0.0139		<0.0155		<0.0141		<0.0141		<0.0158		<0.0136		--	NA
8082 A	PCB 1221	mg/kg	<0.0136		<0.0137		<0.0139		<0.0155		<0.0141		<0.0141		<0.0158		<0.0136		--	NA
8082 A	PCB 1232	mg/kg	<0.0136		<0.0137		<0.0139		<0.0155		<0.0141		<0.0141		<0.0158		<0.0136		--	NA
8082 A	PCB 1242	mg/kg	<0.0136		<0.0137		<0.0139		<0.0155		<0.0141		<0.0141		<0.0158		<0.0136		--	NA
8082 A	PCB 1248	mg/kg	<0.00853		<0.00854		<0.00869		<0.00971		<0.00883		<0.00885		<0.00989		<0.00851		--	NA
8082 A	PCB 1254	mg/kg	<0.00853		<0.00854		<0.00869		<0.00971		<0.00883		<0.00885		<0.00989		<0.00851		--	NA
8082 A	PCB 1260	mg/kg	<0.00853		<0.00854		<0.00869		<0.00971		<0.00883		<0.00885		<0.00989		<0.00851		--	NA
	Total PCBs*	mg/kg	0.0400		0.0402		0.0408		0.0456		0.0414		0.0415		0.0464		0.0400		1.00	1.00
Volatile Organic Compounds (VOCs)																				
8260D	ACETONE	mg/kg	<0.0662		<0.0658		<0.0683		<0.0818		<0.0698		<0.0704		<0.0848		<0.0655		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	BENZENE	mg/kg	<0.00132		<0.00132		<0.00137		<0.00164		<0.00140		<0.00141		<0.00170		<0.00131		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	16
8260D	BROMOFORM	mg/kg	<0.0332		<0.0329		<0.0342		<0.0409		<0.0349		<0.0352		<0.0424		<0.0328		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0332		<0.0329		<0.0342		<0.0409		<0.0349		<0.0352		<0.0424		<0.0328		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 11: L1783979 Lab Results of Wall Samples

Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1783979-01		L1783979-02		L1783979-03		L1783979-04		L1783979-05		L1783979-06		L1783979-07		L1783979-08		Impacted Soil Cleanup Levels (2013 Washington DOE	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_W_E+ 8-9@10		B_W_E+ 7-8@10		B_W_E+ 6-7@10		B_W_E+ 5-6@10		B_W_E+ 4-5@10		B_W_E+ 3-4@10		B_W_E+ 1-3@10		B_W_D-E@10			
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier			mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00332	J4	<0.00329	J4	<0.00342	J4	<0.00409	J4	<0.00349	J4	<0.00352	J4	<0.00424	J4	<0.00328	J4	NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00132		<0.00132		<0.00137		<0.00164		<0.00140		<0.00141		<0.00170		<0.00131		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0332		<0.0329		<0.0342		<0.0409		<0.0349		<0.0352		<0.0424		<0.0328		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.132		<0.132		<0.137		<0.164		<0.140		<0.141		<0.170		<0.131		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.00879		<0.00874		<0.00907		<0.0109		0.0121	B J	<0.00934		<0.0113		<0.00870		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0332		<0.0329		<0.0342		<0.0409		<0.0349		<0.0352		<0.0424		<0.0328		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00132		<0.00132		<0.00137		<0.00164		<0.00140		<0.00141		<0.00170		<0.00131		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	5.0
8260D	STYRENE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	TOLUENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		0.00184	J	<0.00704		<0.00848		<0.00655		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0165	J4	<0.0165	J4	<0.0170	J4	<0.0205	J4	<0.0175	J4	<0.0176	J4	<0.0212	J4	<0.0164	J4	NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0165	J4	<0.0165	J4	<0.0170	J4	<0.0205	J4	<0.0175	J4	<0.0176	J4	<0.0212	J4	<0.0164	J4	NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00132		<0.00132		<0.00137		<0.00164		<0.00140		<0.00141		<0.00170		<0.00131		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0165		<0.0165		<0.0170		<0.0205		<0.0175		<0.0176		<0.0212		<0.0164		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00662		<0.00658		<0.00683		<0.00818		<0.00698		<0.00704		<0.00848		<0.00655		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00332		<0.00329		<0.00342		<0.00409		<0.00349		<0.00352		<0.00424		<0.00328		NV	NA
8260D	XYLENES, TOTAL	mg/kg	<0.00860		<0.00856		<0.00887		<0.0106		<0.00908		<0.00915		<0.0110		<0.00852		NV	NA

Remedial Action Work Plan Report Port of Camas-Washougal Washougal, WA Table 11: L1783979 Lab Results of Wall Samples																				
Waterfront Soils Removal Project - Building A, B, and Roadway Impacted Soils Excavations																				
Lab Sample ID			L1783979-01		L1783979-02		L1783979-03		L1783979-04		L1783979-05		L1783979-06		L1783979-07		L1783979-08		Impacted Soil Cleanup Levels (2013 Washington DOE)	Washington CLARC Method A Unrestricted Land Use
Client Sample ID			B_W_E+ 8-9@10		B_W_E+ 7-8@10		B_W_E+ 6-7@10		B_W_E+ 5-6@10		B_W_E+ 4-5@10		B_W_E+ 3-4@10		B_W_E+ 1-3@10		B_W_D-E@10			
Date Collected			09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024		09/30/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)																				
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	0.00724	B J	<0.0231		<0.0235		<0.0263		<0.0239		<0.0240		<0.0268		<0.0231		NV	5.0
8270E-SIM	PHENANTHRENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00694		<0.00694		<0.00706		<0.00789		<0.00718		<0.00719		<0.00804		<0.00692		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0231		<0.0231		<0.0235		<0.0263		<0.0239		<0.0240		<0.0268		<0.0231		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	<0.0231		<0.0231		<0.0235		<0.0263		<0.0239		<0.0240		<0.0268		<0.0231		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0231		<0.0231		<0.0235		<0.0263		<0.0239		<0.0240		<0.0268		<0.0231		NV	NA
	cPAH TEC	UNITLESS	0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.1	NA
Metals																				
6010D	LEAD	mg/kg	9.38		11.9		11.6		13.1		15.7		12.9		10.3		12.7		250	250
7471B	MERCURY	mg/kg	0.0254	J	<0.0463		<0.0471		<0.0526		<0.0479		<0.0480		<0.0536		<0.0461		2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan		Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan						Sample is for soil characterization to confirm that additional soils excavated from this area can be disposed of as clean fill.				Sample from an area at or exceeding excavation limits		
Qualifiers: 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. J1: Surrogate recovery limits have been exceeded; values are outside upper control limits. 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 P: RPD between the primary and confirmatory analysis exceeded 40%																				
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.																				
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf																				

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 12: L178060 Lab Results of UST Samples

Waterfront Soils Removal Project - Building B - UST										
Lab Sample ID			L1780690-01		L1780690-02		L1780690-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			EAST SIDE FLOOR-TANK		WEST SIDE FLOOR-TANK		SE WALL-TANK			
Date Collected			09/20/2024		09/20/2024		09/20/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
NWTPHGX	TPHG C6 - C12	mg/kg	4.29	B	3.82	B J	1.66	B J	NV	30
NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	2.47	J	4.57	J	2.75	J	2000	2000
NWTPHDX-SGT	RESIDUAL RANGE ORGANICS	mg/kg	12.20	J	14.40		9.47	J	2000	2000
	Total DRO +RRO	mg/kg							NV	NA
Polychlorinated biphenyls (PCBs)										
8082 A	PCB 1016	mg/kg	<0.0440		<0.0428		<0.0420		--	NA
8082 A	PCB 1221	mg/kg	<0.0440		<0.0428		<0.0420		--	NA
8082 A	PCB 1232	mg/kg	<0.0440		<0.0428		<0.0420		--	NA
8082 A	PCB 1242	mg/kg	<0.0440		<0.0428		<0.0420		--	NA
8082 A	PCB 1248	mg/kg	<0.0220		<0.0214		<0.0210		--	NA
8082 A	PCB 1254	mg/kg	<0.0220		<0.0214		<0.0210		--	NA
8082 A	PCB 1260	mg/kg	<0.0220		<0.0214		<0.0210		--	NA
	Total PCBs*	mg/kg	0.121		0.118		0.116		1.00	1.00
Volatile Organic Compounds (VOCs)										
8260D	ACETONE	mg/kg	<0.0848	J4	<0.0777	J4	0.29		NV	NA
8260D	ACRYLONITRILE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	BENZENE	mg/kg	0.00107	J	0.00144	J	<0.00153		NV	0.03
8260D	BROMOBENZENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	BROMODICHLOROMETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	16
8260D	BROMOFORM	mg/kg	<0.0424		<0.0388		<0.0382		NV	130
8260D	BROMOMETHANE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	N-BUTYLBENZENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	SEC-BUTYLBENZENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	TERT-BUTYLBENZENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	CARBON TETRACHLORIDE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	CHLOROBENZENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	CHLORODIBROMOMETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	CHLOROETHANE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	CHLOROFORM	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	CHLOROMETHANE	mg/kg	<0.0212	C3	<0.0194	C3	<0.0191	C3	NV	NA
8260D	2-CHLOROTOLUENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	4-CHLOROTOLUENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0424		<0.0388		<0.0382		NV	NA
8260D	1,2-DIBROMOETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	0.005
8260D	DIBROMOMETHANE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,2-DICHLOROBENZENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,3-DICHLOROBENZENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA

Table 12: L178060 Lab Results of UST Samples

Waterfront Soils Removal Project - Building B - UST										
Lab Sample ID			L1780690-01		L1780690-02		L1780690-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			EAST SIDE FLOOR-TANK		WEST SIDE FLOOR-TANK		SE WALL-TANK			
Date Collected			09/20/2024		09/20/2024		09/20/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
8260D	1,4-DICHLOROBENZENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	DICHLORODIFLUOROMETHANE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,1-DICHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,2-DICHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,1-DICHLOROETHENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,2-DICHLOROPROPANE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	1,1-DICHLOROPROPENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,3-DICHLOROPROPANE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	2,2-DICHLOROPROPANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	DI-ISOPROPYL ETHER	mg/kg	<0.00170		<0.00155		<0.00153		NV	NA
8260D	ETHYLBENZENE	mg/kg	<0.00424		0.00133	J	<0.00382		NV	6.0
8260D	HEXACHLORO-1,3-BUTADIENE	mg/kg	<0.0424		<0.0388		<0.0382		NV	NA
8260D	ISOPROPYLBENZENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	P-ISOPROPYLTOLUENE	mg/kg	<0.00848		<0.00777		<0.00763		NV	NA
8260D	2-BUTANONE (MEK)	mg/kg	<0.170		<0.155		<0.153		NV	NA
8260D	METHYLENE CHLORIDE*	mg/kg	<0.0113		<0.0103		<0.0101		0.02	0.02
8260D	4-METHYL-2-PENTANONE (MIBK)	mg/kg	<0.0424		<0.0388		<0.0382		0.02	0.02
8260D	METHYL TERT-BUTYL ETHER	mg/kg	<0.00170		<0.00155		<0.00153		NV	NA
8260D	NAPHTHALENE	mg/kg	<0.0212	C3	0.0109	C3 J	<0.0191	C3	NV	0.1
8260D	N-PROPYLBENZENE	mg/kg	<0.00848		0.00202	J	<0.00763		NV	5.0
8260D	STYRENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	TETRACHLOROETHENE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	TOLUENE	mg/kg	<0.00848		0.00277	J	<0.00763		NV	0.05
8260D	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	7.0
8260D	1,2,4-TRICHLOROBENZENE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	1,1,1-TRICHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	1,1,2-TRICHLOROETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	2.0
8260D	TRICHLOROETHENE	mg/kg	<0.00170		<0.00155		<0.00153		NV	NA
8260D	TRICHLOROFLUOROMETHANE	mg/kg	<0.00424		<0.00388		<0.00382		NV	0.03
8260D	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0212		<0.0194		<0.0191		NV	NA
8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	0.0108		0.0284		<0.00763		NV	NA
8260D	1,2,3-TRIMETHYLBENZENE	mg/kg	0.00332	J	0.0143		<0.00763		NV	NA
8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00848		0.0114		<0.00763		NV	NA
8260D	VINYL CHLORIDE	mg/kg	<0.00424		<0.00388		<0.00382		NV	NA
8260D	XYLENES, TOTAL	mg/kg	0.013		0.0101	J	<0.00992		NV	NA

Remedial Action Work Plan Report
Port of Camas-Washougal
Washougal, WA
Table 12: L178060 Lab Results of UST Samples

Waterfront Soils Removal Project - Building B - UST										
Lab Sample ID			L1780690-01		L1780690-02		L1780690-03		Impacted Soil Cleanup Levels (2013 Washington DOE Cleanup Action Plan)	Washington CLARC Method A Unrestricted Land Use (Table 740-1)
Client Sample ID			EAST SIDE FLOOR-TANK		WEST SIDE FLOOR-TANK		SE WALL-TANK			
Date Collected			09/20/2024		09/20/2024		09/20/2024			
Method	Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	mg/kg	mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)										
8270E-SIM	BENZO(A)ANTHRACENE	mg/kg	<0.00777		0.00233	J	<0.00741		NV	NA
8270E-SIM	BENZO(A)PYRENE	mg/kg	<0.00777		<0.00755		<0.00741		0.1	0.1
8270E-SIM	BENZO(B)FLUORANTHENE	mg/kg	<0.00777		0.00196	J	<0.00741		NV	NA
8270E-SIM	BENZO(K)FLUORANTHENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	CHRYSENE	mg/kg	<0.00777		0.00358	J	<0.00741		NV	NA
8270E-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	ANTHRACENE	mg/kg	<0.00777		0.0161	Q	<0.00741		NV	NA
8270E-SIM	ACENAPHTHENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	ACENAPHTHYLENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	BENZO(G,H,I)PERYLENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	FLUORANTHENE	mg/kg	<0.00777	J4	0.0154	Q B J4	<0.00741	J4	NV	NA
8270E-SIM	FLUORENE	mg/kg	<0.00777		<0.00755		<0.00741		NV	NA
8270E-SIM	NAPHTHALENE	mg/kg	<0.0259		<0.0252		<0.0247		NV	5.0
8270E-SIM	PHENANTHRENE	mg/kg	<0.00777		0.0045	J	<0.00741		NV	NA
8270E-SIM	PYRENE	mg/kg	<0.00777		0.0119	Q B	<0.00741		NV	NA
8270E-SIM	1-METHYLNAPHTHALENE	mg/kg	<0.0259		<0.0252		<0.0247		NV	NA
8270E-SIM	2-METHYLNAPHTHALENE	mg/kg	0.00811	J	0.00744	J	<0.0247		NV	NA
8270E-SIM	2-CHLORONAPHTHALENE	mg/kg	<0.0259		<0.0252		<0.0247		NV	NA
	cPAH TEC	UNITLESS							0.1	NA
Metals										
6010D	ARSENIC	mg/kg	4.82	B	5.99	B	6.4	B	NV	20
6010D	LEAD	mg/kg	13.7		13.6		14.5		250	250
6010D	BARIUM	mg/kg	116		98.3		116		NV	NA
6010D	CADMIUM	mg/kg	0.098	J	0.157	J	0.105	J	NV	2.0
6010D	CHROMIUM	mg/kg	13.8		16.8		16.4		NV	NA
6010D	SELENIUM	mg/kg	2.65		2.22	J	1.63	J	NV	NA
6010D	SILVER	mg/kg	<1.30		<1.26		<1.23		NV	NA
7471B	MERCURY	mg/kg	0.0272	J	0.0281	J	0.033	J	2.0	2.0
	Indicates analyte cited in the 2013 Washington DOE Cleanup Action plan		Indicates analyte tested above 2013 Washington DOE Cleanup Action limits			NA = Not applicable		NV = NO VALUE As cited in 2013 Washington DOE Cleanup Action Plan		
Qualifiers: B: The same analyte is found in the associated blank. 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. J4: The associated batch QC was outside the established quality control range for accuracy Q: Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.										
NOTES: *Methylene Chloride non-detects reported with a Method Detection Limit ("MDL") to meet Washington Department of Ecology detection standards. Pace Analytical MDL = .00664 and RDL = .025 Total PCBs based on summation of 1/2 nondetect limits, peak reported value, or a summation of the two when appropriate. cPAH TEC values were calculated utilizing the MTCATPH_V12.0 Spreadsheet, based on recommendations provided by the WA DOE in a 2015 report titled: Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors.										
Works Cited: Washington Department of Ecology . (2013). DRAFT CLEANUP ACTION PLAN, Hambleton Bros Log Yard, Washougal, WA. Washington Department of Ecology. Washington Department of Ecology. (2015, April 20). Evaluating the Human Health Toxicity of Carcinogenic PAHs Using Toxicity Equivalency Factors. Retrieved from ecology.wa.gov: https://apps.ecology.wa.gov/publications/documents/1509049.pdf										

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Earth Engineers - Camas, WA

Sample Delivery Group: L1766597
Samples Received: 08/13/2024
Project Number: WATERFRONT SOILS REM
Description:
Site: BUILDING B,
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



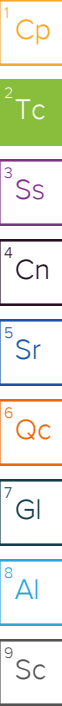
Jason Romer
Project Manager

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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_A+15_9+0@ 10-10.5 L1766597-03	5
B_OS-COMP@ 0-1 L1766597-04	8
Qc: Quality Control Summary	11
Total Solids by Method 2540 G-2011	11
Mercury by Method 7471B	12
Metals (ICP) by Method 6010D	13
Volatile Organic Compounds (GC/MS) by Method 8260D	14
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	18
Polychlorinated Biphenyls (GC) by Method 8082 A	19
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	20
Gl: Glossary of Terms	22
Al: Accreditations & Locations	23
Sc: Sample Chain of Custody	24



SAMPLE SUMMARY

B_F_A+15_9+0@ 10-10.5 L1766597-03 Solid

Collected by
David Hannant

Collected date/time
08/12/24 13:10

Received date/time
08/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2342367	1	08/14/24 08:02	08/14/24 08:07	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2342263	1	08/14/24 10:02	08/15/24 09:08	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2342829	1	08/15/24 06:54	08/15/24 11:20	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2342294	1.17	08/12/24 13:10	08/14/24 03:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2342350	1	08/15/24 06:41	08/16/24 06:50	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2342871	1	08/14/24 15:26	08/15/24 07:27	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2342912	1	08/14/24 17:23	08/15/24 04:39	DSH	Mt. Juliet, TN

B_OS-COMP@ 0-1 L1766597-04 Solid

Collected by
David Hannant

Collected date/time
08/12/24 14:45

Received date/time
08/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2342367	1	08/14/24 08:02	08/14/24 08:07	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2342263	1	08/14/24 10:02	08/15/24 09:54	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2342829	1	08/15/24 06:54	08/15/24 11:21	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2342294	1	08/12/24 14:45	08/14/24 03:35	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2342350	1	08/15/24 06:41	08/16/24 07:16	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2342871	1	08/14/24 15:26	08/15/24 07:38	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2342912	1	08/14/24 17:23	08/15/24 04:57	DSH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.3		1	08/14/2024 08:07	WG2342367

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0206	0.0458	1	08/15/2024 09:08	WG2342263

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.9		0.238	0.572	1	08/15/2024 11:20	WG2342829

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0542	0.0742	1.17	08/14/2024 03:15	WG2342294
Acrylonitrile	U		0.00535	0.0185	1.17	08/14/2024 03:15	WG2342294
Benzene	U		0.000693	0.00148	1.17	08/14/2024 03:15	WG2342294
Bromobenzene	U		0.00133	0.0185	1.17	08/14/2024 03:15	WG2342294
Bromodichloromethane	U		0.00108	0.00372	1.17	08/14/2024 03:15	WG2342294
Bromoform	U		0.00174	0.0372	1.17	08/14/2024 03:15	WG2342294
Bromomethane	U	C3	0.00292	0.0185	1.17	08/14/2024 03:15	WG2342294
n-Butylbenzene	U		0.00779	0.0185	1.17	08/14/2024 03:15	WG2342294
sec-Butylbenzene	U		0.00428	0.0185	1.17	08/14/2024 03:15	WG2342294
tert-Butylbenzene	U		0.00289	0.00742	1.17	08/14/2024 03:15	WG2342294
Carbon tetrachloride	U		0.00133	0.00742	1.17	08/14/2024 03:15	WG2342294
Chlorobenzene	U		0.000312	0.00372	1.17	08/14/2024 03:15	WG2342294
Chlorodibromomethane	U		0.000908	0.00372	1.17	08/14/2024 03:15	WG2342294
Chloroethane	U		0.00252	0.00742	1.17	08/14/2024 03:15	WG2342294
Chloroform	U		0.00154	0.00372	1.17	08/14/2024 03:15	WG2342294
Chloromethane	U	C3	0.00646	0.0185	1.17	08/14/2024 03:15	WG2342294
2-Chlorotoluene	U	C3	0.00128	0.00372	1.17	08/14/2024 03:15	WG2342294
4-Chlorotoluene	U		0.000669	0.00742	1.17	08/14/2024 03:15	WG2342294
1,2-Dibromo-3-Chloropropane	U		0.00579	0.0372	1.17	08/14/2024 03:15	WG2342294
1,2-Dibromoethane	U		0.000962	0.00372	1.17	08/14/2024 03:15	WG2342294
Dibromomethane	U		0.00111	0.00742	1.17	08/14/2024 03:15	WG2342294
1,2-Dichlorobenzene	U		0.000631	0.00742	1.17	08/14/2024 03:15	WG2342294
1,3-Dichlorobenzene	U		0.000891	0.00742	1.17	08/14/2024 03:15	WG2342294
1,4-Dichlorobenzene	U		0.00104	0.00742	1.17	08/14/2024 03:15	WG2342294
Dichlorodifluoromethane	U		0.00239	0.00742	1.17	08/14/2024 03:15	WG2342294
1,1-Dichloroethane	U		0.000728	0.00372	1.17	08/14/2024 03:15	WG2342294
1,2-Dichloroethane	U		0.000963	0.00372	1.17	08/14/2024 03:15	WG2342294
1,1-Dichloroethene	U		0.000900	0.00372	1.17	08/14/2024 03:15	WG2342294
cis-1,2-Dichloroethene	U		0.00109	0.00372	1.17	08/14/2024 03:15	WG2342294
trans-1,2-Dichloroethene	U		0.00155	0.00742	1.17	08/14/2024 03:15	WG2342294
1,2-Dichloropropane	U		0.00211	0.00742	1.17	08/14/2024 03:15	WG2342294
1,1-Dichloropropene	U		0.00120	0.00372	1.17	08/14/2024 03:15	WG2342294
1,3-Dichloropropane	U		0.000744	0.00742	1.17	08/14/2024 03:15	WG2342294
cis-1,3-Dichloropropene	U		0.00112	0.00372	1.17	08/14/2024 03:15	WG2342294
trans-1,3-Dichloropropene	U		0.00169	0.00742	1.17	08/14/2024 03:15	WG2342294
2,2-Dichloropropane	U		0.00204	0.00372	1.17	08/14/2024 03:15	WG2342294
Di-isopropyl ether	U		0.000609	0.00148	1.17	08/14/2024 03:15	WG2342294
Ethylbenzene	U		0.00109	0.00372	1.17	08/14/2024 03:15	WG2342294
Hexachloro-1,3-butadiene	U	C3	0.00891	0.0372	1.17	08/14/2024 03:15	WG2342294

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000631	0.00372	1.17	08/14/2024 03:15	WG2342294
p-Isopropyltoluene	U		0.00378	0.00742	1.17	08/14/2024 03:15	WG2342294
2-Butanone (MEK)	U		0.0943	0.148	1.17	08/14/2024 03:15	WG2342294
Methylene Chloride	0.0173	J	0.00986	0.0372	1.17	08/14/2024 03:15	WG2342294
4-Methyl-2-pentanone (MIBK)	U		0.00339	0.0372	1.17	08/14/2024 03:15	WG2342294
Methyl tert-butyl ether	U		0.000519	0.00148	1.17	08/14/2024 03:15	WG2342294
Naphthalene	U	C3	0.00724	0.0185	1.17	08/14/2024 03:15	WG2342294
n-Propylbenzene	U		0.00141	0.00742	1.17	08/14/2024 03:15	WG2342294
Styrene	U		0.000340	0.0185	1.17	08/14/2024 03:15	WG2342294
1,1,1,2-Tetrachloroethane	U		0.00141	0.00372	1.17	08/14/2024 03:15	WG2342294
1,1,2,2-Tetrachloroethane	U	C3	0.00103	0.00372	1.17	08/14/2024 03:15	WG2342294
1,1,2-Trichlorotrifluoroethane	U		0.00112	0.00372	1.17	08/14/2024 03:15	WG2342294
Tetrachloroethene	U		0.00133	0.00372	1.17	08/14/2024 03:15	WG2342294
Toluene	U		0.00193	0.00742	1.17	08/14/2024 03:15	WG2342294
1,2,3-Trichlorobenzene	U	C3	0.0109	0.0185	1.17	08/14/2024 03:15	WG2342294
1,2,4-Trichlorobenzene	U	C3	0.00653	0.0185	1.17	08/14/2024 03:15	WG2342294
1,1,1-Trichloroethane	U		0.00137	0.00372	1.17	08/14/2024 03:15	WG2342294
1,1,2-Trichloroethane	U		0.000886	0.00372	1.17	08/14/2024 03:15	WG2342294
Trichloroethene	U		0.000867	0.00148	1.17	08/14/2024 03:15	WG2342294
Trichlorofluoromethane	U		0.00123	0.00372	1.17	08/14/2024 03:15	WG2342294
1,2,3-Trichloropropane	U		0.00241	0.0185	1.17	08/14/2024 03:15	WG2342294
1,2,4-Trimethylbenzene	U		0.00235	0.00742	1.17	08/14/2024 03:15	WG2342294
1,2,3-Trimethylbenzene	U		0.00235	0.00742	1.17	08/14/2024 03:15	WG2342294
1,3,5-Trimethylbenzene	U		0.00297	0.00742	1.17	08/14/2024 03:15	WG2342294
Vinyl chloride	U		0.00173	0.00372	1.17	08/14/2024 03:15	WG2342294
Xylenes, Total	U		0.00131	0.00964	1.17	08/14/2024 03:15	WG2342294
(S) Toluene-d8	101			75.0-131		08/14/2024 03:15	WG2342294
(S) 4-Bromofluorobenzene	102			67.0-138		08/14/2024 03:15	WG2342294
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		08/14/2024 03:15	WG2342294

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.52	4.58	1	08/16/2024 06:50	WG2342350
Residual Range Organics (RRO)	U		3.81	11.4	1	08/16/2024 06:50	WG2342350
(S) o-Terphenyl	62.5			18.0-148		08/16/2024 06:50	WG2342350

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		0.0135	0.0389	1	08/15/2024 07:27	WG2342871
PCB 1221	U		0.0135	0.0389	1	08/15/2024 07:27	WG2342871
PCB 1232	U		0.0135	0.0389	1	08/15/2024 07:27	WG2342871
PCB 1242	U		0.0135	0.0389	1	08/15/2024 07:27	WG2342871
PCB 1248	U		0.00845	0.0195	1	08/15/2024 07:27	WG2342871
PCB 1254	U		0.00845	0.0195	1	08/15/2024 07:27	WG2342871
PCB 1260	U		0.00845	0.0195	1	08/15/2024 07:27	WG2342871
(S) Decachlorobiphenyl	78.3			10.0-135		08/15/2024 07:27	WG2342871
(S) Tetrachloro-m-xylene	81.9			10.0-139		08/15/2024 07:27	WG2342871

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00263	0.00687	1	08/15/2024 04:39	WG2342912
Acenaphthene	U		0.00239	0.00687	1	08/15/2024 04:39	WG2342912
Acenaphthylene	U		0.00247	0.00687	1	08/15/2024 04:39	WG2342912
Benzo(a)anthracene	U		0.00198	0.00687	1	08/15/2024 04:39	WG2342912
Benzo(a)pyrene	U		0.00205	0.00687	1	08/15/2024 04:39	WG2342912
Benzo(b)fluoranthene	U		0.00175	0.00687	1	08/15/2024 04:39	WG2342912
Benzo(g,h,i)perylene	U		0.00203	0.00687	1	08/15/2024 04:39	WG2342912
Benzo(k)fluoranthene	U		0.00246	0.00687	1	08/15/2024 04:39	WG2342912
Chrysene	U		0.00266	0.00687	1	08/15/2024 04:39	WG2342912
Dibenz(a,h)anthracene	U		0.00197	0.00687	1	08/15/2024 04:39	WG2342912
Fluoranthene	U		0.00260	0.00687	1	08/15/2024 04:39	WG2342912
Fluorene	U		0.00235	0.00687	1	08/15/2024 04:39	WG2342912
Indeno(1,2,3-cd)pyrene	U		0.00207	0.00687	1	08/15/2024 04:39	WG2342912
Naphthalene	U		0.00467	0.0229	1	08/15/2024 04:39	WG2342912
Phenanthrene	U		0.00264	0.00687	1	08/15/2024 04:39	WG2342912
Pyrene	U		0.00229	0.00687	1	08/15/2024 04:39	WG2342912
1-Methylnaphthalene	U		0.00514	0.0229	1	08/15/2024 04:39	WG2342912
2-Methylnaphthalene	U		0.00489	0.0229	1	08/15/2024 04:39	WG2342912
2-Chloronaphthalene	U		0.00534	0.0229	1	08/15/2024 04:39	WG2342912
(S) p-Terphenyl-d14	65.8			23.0-120		08/15/2024 04:39	WG2342912
(S) Nitrobenzene-d5	61.3			14.0-149		08/15/2024 04:39	WG2342912
(S) 2-Fluorobiphenyl	64.0			34.0-125		08/15/2024 04:39	WG2342912

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	82.1		1	08/14/2024 08:07	WG2342367

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0240	J	0.0219	0.0487	1	08/15/2024 09:54	WG2342263

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	15.6		0.253	0.609	1	08/15/2024 11:21	WG2342829

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0525	0.0719	1	08/14/2024 03:35	WG2342294
Acrylonitrile	U		0.00519	0.0180	1	08/14/2024 03:35	WG2342294
Benzene	U		0.000672	0.00144	1	08/14/2024 03:35	WG2342294
Bromobenzene	U		0.00129	0.0180	1	08/14/2024 03:35	WG2342294
Bromodichloromethane	U		0.00104	0.00360	1	08/14/2024 03:35	WG2342294
Bromoform	U		0.00168	0.0360	1	08/14/2024 03:35	WG2342294
Bromomethane	U	C3	0.00283	0.0180	1	08/14/2024 03:35	WG2342294
n-Butylbenzene	U		0.00755	0.0180	1	08/14/2024 03:35	WG2342294
sec-Butylbenzene	U		0.00414	0.0180	1	08/14/2024 03:35	WG2342294
tert-Butylbenzene	U		0.00281	0.00719	1	08/14/2024 03:35	WG2342294
Carbon tetrachloride	U		0.00129	0.00719	1	08/14/2024 03:35	WG2342294
Chlorobenzene	U		0.000302	0.00360	1	08/14/2024 03:35	WG2342294
Chlorodibromomethane	U		0.000881	0.00360	1	08/14/2024 03:35	WG2342294
Chloroethane	U		0.00245	0.00719	1	08/14/2024 03:35	WG2342294
Chloroform	U		0.00148	0.00360	1	08/14/2024 03:35	WG2342294
Chloromethane	U	C3	0.00626	0.0180	1	08/14/2024 03:35	WG2342294
2-Chlorotoluene	U	C3	0.00124	0.00360	1	08/14/2024 03:35	WG2342294
4-Chlorotoluene	U		0.000647	0.00719	1	08/14/2024 03:35	WG2342294
1,2-Dibromo-3-Chloropropane	U		0.00561	0.0360	1	08/14/2024 03:35	WG2342294
1,2-Dibromoethane	U		0.000932	0.00360	1	08/14/2024 03:35	WG2342294
Dibromomethane	U		0.00108	0.00719	1	08/14/2024 03:35	WG2342294
1,2-Dichlorobenzene	U		0.000611	0.00719	1	08/14/2024 03:35	WG2342294
1,3-Dichlorobenzene	U		0.000863	0.00719	1	08/14/2024 03:35	WG2342294
1,4-Dichlorobenzene	U		0.00101	0.00719	1	08/14/2024 03:35	WG2342294
Dichlorodifluoromethane	U		0.00232	0.00719	1	08/14/2024 03:35	WG2342294
1,1-Dichloroethane	U		0.000706	0.00360	1	08/14/2024 03:35	WG2342294
1,2-Dichloroethane	U		0.000934	0.00360	1	08/14/2024 03:35	WG2342294
1,1-Dichloroethene	U		0.000872	0.00360	1	08/14/2024 03:35	WG2342294
cis-1,2-Dichloroethene	U		0.00106	0.00360	1	08/14/2024 03:35	WG2342294
trans-1,2-Dichloroethene	U		0.00150	0.00719	1	08/14/2024 03:35	WG2342294
1,2-Dichloropropane	U		0.00204	0.00719	1	08/14/2024 03:35	WG2342294
1,1-Dichloropropene	U		0.00116	0.00360	1	08/14/2024 03:35	WG2342294
1,3-Dichloropropane	U		0.000721	0.00719	1	08/14/2024 03:35	WG2342294
cis-1,3-Dichloropropene	U		0.00109	0.00360	1	08/14/2024 03:35	WG2342294
trans-1,3-Dichloropropene	U		0.00164	0.00719	1	08/14/2024 03:35	WG2342294
2,2-Dichloropropane	U		0.00199	0.00360	1	08/14/2024 03:35	WG2342294
Di-isopropyl ether	U		0.000590	0.00144	1	08/14/2024 03:35	WG2342294
Ethylbenzene	U		0.00106	0.00360	1	08/14/2024 03:35	WG2342294
Hexachloro-1,3-butadiene	U	C3	0.00863	0.0360	1	08/14/2024 03:35	WG2342294

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000611	0.00360	1	08/14/2024 03:35	WG2342294
p-Isopropyltoluene	U		0.00367	0.00719	1	08/14/2024 03:35	WG2342294
2-Butanone (MEK)	U		0.0914	0.144	1	08/14/2024 03:35	WG2342294
Methylene Chloride	U		0.00955	0.0360	1	08/14/2024 03:35	WG2342294
4-Methyl-2-pentanone (MIBK)	U		0.00328	0.0360	1	08/14/2024 03:35	WG2342294
Methyl tert-butyl ether	U		0.000504	0.00144	1	08/14/2024 03:35	WG2342294
Naphthalene	U	C3	0.00702	0.0180	1	08/14/2024 03:35	WG2342294
n-Propylbenzene	U		0.00137	0.00719	1	08/14/2024 03:35	WG2342294
Styrene	U		0.000329	0.0180	1	08/14/2024 03:35	WG2342294
1,1,1,2-Tetrachloroethane	U		0.00136	0.00360	1	08/14/2024 03:35	WG2342294
1,1,2,2-Tetrachloroethane	U	C3	0.00100	0.00360	1	08/14/2024 03:35	WG2342294
1,1,2-Trichlorotrifluoroethane	U		0.00108	0.00360	1	08/14/2024 03:35	WG2342294
Tetrachloroethene	U		0.00129	0.00360	1	08/14/2024 03:35	WG2342294
Toluene	U		0.00187	0.00719	1	08/14/2024 03:35	WG2342294
1,2,3-Trichlorobenzene	U	C3	0.0105	0.0180	1	08/14/2024 03:35	WG2342294
1,2,4-Trichlorobenzene	U	C3	0.00633	0.0180	1	08/14/2024 03:35	WG2342294
1,1,1-Trichloroethane	U		0.00133	0.00360	1	08/14/2024 03:35	WG2342294
1,1,2-Trichloroethane	U		0.000859	0.00360	1	08/14/2024 03:35	WG2342294
Trichloroethene	U		0.000840	0.00144	1	08/14/2024 03:35	WG2342294
Trichlorofluoromethane	U		0.00119	0.00360	1	08/14/2024 03:35	WG2342294
1,2,3-Trichloropropane	U		0.00233	0.0180	1	08/14/2024 03:35	WG2342294
1,2,4-Trimethylbenzene	0.00229	J	0.00227	0.00719	1	08/14/2024 03:35	WG2342294
1,2,3-Trimethylbenzene	U		0.00227	0.00719	1	08/14/2024 03:35	WG2342294
1,3,5-Trimethylbenzene	U		0.00288	0.00719	1	08/14/2024 03:35	WG2342294
Vinyl chloride	U		0.00167	0.00360	1	08/14/2024 03:35	WG2342294
Xylenes, Total	U		0.00127	0.00935	1	08/14/2024 03:35	WG2342294
(S) Toluene-d8	102			75.0-131		08/14/2024 03:35	WG2342294
(S) 4-Bromofluorobenzene	109			67.0-138		08/14/2024 03:35	WG2342294
(S) 1,2-Dichloroethane-d4	85.8			70.0-130		08/14/2024 03:35	WG2342294

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	17.3		1.62	4.87	1	08/16/2024 07:16	WG2342350
Residual Range Organics (RRO)	53.7		4.05	12.2	1	08/16/2024 07:16	WG2342350
(S) o-Terphenyl	63.1			18.0-148		08/16/2024 07:16	WG2342350

Sample Narrative:

L1766597-04 WG2342350: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0144	0.0414	1	08/15/2024 07:38	WG2342871
PCB 1221	U		0.0144	0.0414	1	08/15/2024 07:38	WG2342871
PCB 1232	U		0.0144	0.0414	1	08/15/2024 07:38	WG2342871
PCB 1242	U		0.0144	0.0414	1	08/15/2024 07:38	WG2342871
PCB 1248	U		0.00899	0.0207	1	08/15/2024 07:38	WG2342871
PCB 1254	U		0.00899	0.0207	1	08/15/2024 07:38	WG2342871
PCB 1260	U		0.00899	0.0207	1	08/15/2024 07:38	WG2342871
(S) Decachlorobiphenyl	91.4			10.0-135		08/15/2024 07:38	WG2342871
(S) Tetrachloro-m-xylene	103			10.0-139		08/15/2024 07:38	WG2342871

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00280	0.00731	1	08/15/2024 04:57	WG2342912
Acenaphthene	U		0.00254	0.00731	1	08/15/2024 04:57	WG2342912
Acenaphthylene	U		0.00263	0.00731	1	08/15/2024 04:57	WG2342912
Benzo(a)anthracene	U		0.00211	0.00731	1	08/15/2024 04:57	WG2342912
Benzo(a)pyrene	U		0.00218	0.00731	1	08/15/2024 04:57	WG2342912
Benzo(b)fluoranthene	U		0.00186	0.00731	1	08/15/2024 04:57	WG2342912
Benzo(g,h,i)perylene	0.00244	U	0.00216	0.00731	1	08/15/2024 04:57	WG2342912
Benzo(k)fluoranthene	U		0.00262	0.00731	1	08/15/2024 04:57	WG2342912
Chrysene	U		0.00282	0.00731	1	08/15/2024 04:57	WG2342912
Dibenz(a,h)anthracene	U		0.00209	0.00731	1	08/15/2024 04:57	WG2342912
Fluoranthene	U		0.00276	0.00731	1	08/15/2024 04:57	WG2342912
Fluorene	U		0.00250	0.00731	1	08/15/2024 04:57	WG2342912
Indeno(1,2,3-cd)pyrene	U		0.00220	0.00731	1	08/15/2024 04:57	WG2342912
Naphthalene	U		0.00497	0.0244	1	08/15/2024 04:57	WG2342912
Phenanthrene	0.00349	U	0.00281	0.00731	1	08/15/2024 04:57	WG2342912
Pyrene	0.00293	U	0.00244	0.00731	1	08/15/2024 04:57	WG2342912
1-Methylnaphthalene	U		0.00547	0.0244	1	08/15/2024 04:57	WG2342912
2-Methylnaphthalene	U		0.00520	0.0244	1	08/15/2024 04:57	WG2342912
2-Chloronaphthalene	U		0.00567	0.0244	1	08/15/2024 04:57	WG2342912
(S) p-Terphenyl-d14	72.3			23.0-120		08/15/2024 04:57	WG2342912
(S) Nitrobenzene-d5	69.7			14.0-149		08/15/2024 04:57	WG2342912
(S) 2-Fluorobiphenyl	71.7			34.0-125		08/15/2024 04:57	WG2342912

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

L1766597-03,04

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00500			

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	82.1	82.6	1	0.615		10

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

Sc

Method Blank (MB)

(MB) R4107124-1 08/15/24 09:03

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4107124-2 08/15/24 09:05

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.504	101	80.0-120	

L1766597-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766597-03 08/15/24 09:08 • (MS) R4107124-4 08/15/24 09:13 • (MSD) R4107124-5 08/15/24 09:15

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.572	U	0.569	0.565	99.3	98.7	1	75.0-125			0.621	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4107271-1 08/15/24 10:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4107271-2 08/15/24 10:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	100	100	80.0-120	

L1764208-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1764208-08 08/15/24 10:58 • (MS) R4107271-5 08/15/24 11:03 • (MSD) R4107271-6 08/15/24 11:05

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 %
Lead	110	12.2	125	123	102	100	1	75.0-125			1.86	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4106495-3 08/14/24 00:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4106495-3 08/14/24 00:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.0			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	91.3			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4106495-1 08/13/24 22:49 • (LCSD) R4106495-2 08/13/24 23:09

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	0.625	0.450	0.475	72.0	76.0	10.0-160			5.41	31
Acrylonitrile	0.625	0.586	0.588	93.8	94.1	45.0-153			0.341	22
Benzene	0.125	0.127	0.120	102	96.0	70.0-123			5.67	20
Bromobenzene	0.125	0.122	0.126	97.6	101	73.0-121			3.23	20
Bromodichloromethane	0.125	0.132	0.133	106	106	73.0-121			0.755	20

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

(LCS) R4106495-1 08/13/24 22:49 • (LCSD) R4106495-2 08/13/24 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.125	0.123	100	98.4	64.0-132			1.61	20
Bromomethane	0.125	0.0980	0.0925	78.4	74.0	56.0-147			5.77	20
n-Butylbenzene	0.125	0.108	0.106	86.4	84.8	68.0-135			1.87	20
sec-Butylbenzene	0.125	0.109	0.112	87.2	89.6	74.0-130			2.71	20
tert-Butylbenzene	0.125	0.122	0.126	97.6	101	75.0-127			3.23	20
Carbon tetrachloride	0.125	0.121	0.117	96.8	93.6	66.0-128			3.36	20
Chlorobenzene	0.125	0.114	0.110	91.2	88.0	76.0-128			3.57	20
Chlorodibromomethane	0.125	0.124	0.130	99.2	104	74.0-127			4.72	20
Chloroethane	0.125	0.103	0.0937	82.4	75.0	61.0-134			9.46	20
Chloroform	0.125	0.129	0.123	103	98.4	72.0-123			4.76	20
Chloromethane	0.125	0.0856	0.0777	68.5	62.2	51.0-138			9.68	20
2-Chlorotoluene	0.125	0.0958	0.103	76.6	82.4	75.0-124			7.24	20
4-Chlorotoluene	0.125	0.104	0.112	83.2	89.6	75.0-124			7.41	20
1,2-Dibromo-3-Chloropropane	0.125	0.107	0.100	85.6	80.0	59.0-130			6.76	20
1,2-Dibromoethane	0.125	0.107	0.112	85.6	89.6	74.0-128			4.57	20
Dibromomethane	0.125	0.119	0.114	95.2	91.2	75.0-122			4.29	20
1,2-Dichlorobenzene	0.125	0.113	0.116	90.4	92.8	76.0-124			2.62	20
1,3-Dichlorobenzene	0.125	0.118	0.119	94.4	95.2	76.0-125			0.844	20
1,4-Dichlorobenzene	0.125	0.101	0.119	80.8	95.2	77.0-121			16.4	20
Dichlorodifluoromethane	0.125	0.105	0.0997	84.0	79.8	43.0-156			5.18	20
1,1-Dichloroethane	0.125	0.119	0.116	95.2	92.8	70.0-127			2.55	20
1,2-Dichloroethane	0.125	0.115	0.117	92.0	93.6	65.0-131			1.72	20
1,1-Dichloroethene	0.125	0.127	0.122	102	97.6	65.0-131			4.02	20
cis-1,2-Dichloroethene	0.125	0.112	0.101	89.6	80.8	73.0-125			10.3	20
trans-1,2-Dichloroethene	0.125	0.119	0.116	95.2	92.8	71.0-125			2.55	20
1,2-Dichloropropane	0.125	0.121	0.119	96.8	95.2	74.0-125			1.67	20
1,1-Dichloropropene	0.125	0.118	0.109	94.4	87.2	73.0-125			7.93	20
1,3-Dichloropropane	0.125	0.119	0.121	95.2	96.8	80.0-125			1.67	20
cis-1,3-Dichloropropene	0.125	0.118	0.112	94.4	89.6	76.0-127			5.22	20
trans-1,3-Dichloropropene	0.125	0.118	0.121	94.4	96.8	73.0-127			2.51	20
2,2-Dichloropropane	0.125	0.117	0.107	93.6	85.6	59.0-135			8.93	20
Di-isopropyl ether	0.125	0.120	0.121	96.0	96.8	60.0-136			0.830	20
Ethylbenzene	0.125	0.105	0.113	84.0	90.4	74.0-126			7.34	20
Hexachloro-1,3-butadiene	0.125	0.0985	0.108	78.8	86.4	57.0-150			9.20	20
Isopropylbenzene	0.125	0.128	0.133	102	106	72.0-127			3.83	20
p-Isopropyltoluene	0.125	0.120	0.122	96.0	97.6	72.0-133			1.65	20
2-Butanone (MEK)	0.625	0.584	0.617	93.4	98.7	30.0-160			5.50	24
Methylene Chloride	0.125	0.119	0.113	95.2	90.4	68.0-123			5.17	20
4-Methyl-2-pentanone (MIBK)	0.625	0.546	0.550	87.4	88.0	56.0-143			0.730	20
Methyl tert-butyl ether	0.125	0.134	0.129	107	103	66.0-132			3.80	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4106495-1 08/13/24 22:49 • (LCSD) R4106495-2 08/13/24 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.0961	0.0987	76.9	79.0	59.0-130			2.67	20
n-Propylbenzene	0.125	0.119	0.109	95.2	87.2	74.0-126			8.77	20
Styrene	0.125	0.121	0.113	96.8	90.4	72.0-127			6.84	20
1,1,1,2-Tetrachloroethane	0.125	0.118	0.117	94.4	93.6	74.0-129			0.851	20
1,1,2,2-Tetrachloroethane	0.125	0.0969	0.103	77.5	82.4	68.0-128			6.10	20
1,1,2-Trichlorotrifluoroethane	0.125	0.121	0.110	96.8	88.0	61.0-139			9.52	20
Tetrachloroethene	0.125	0.123	0.129	98.4	103	70.0-136			4.76	20
Toluene	0.125	0.111	0.109	88.8	87.2	75.0-121			1.82	20
1,2,3-Trichlorobenzene	0.125	0.0882	0.0960	70.6	76.8	59.0-139			8.47	20
1,2,4-Trichlorobenzene	0.125	0.0941	0.103	75.3	82.4	62.0-137			9.03	20
1,1,1-Trichloroethane	0.125	0.145	0.139	116	111	69.0-126			4.23	20
1,1,2-Trichloroethane	0.125	0.125	0.119	100	95.2	78.0-123			4.92	20
Trichloroethene	0.125	0.148	0.136	118	109	76.0-126			8.45	20
Trichlorofluoromethane	0.125	0.110	0.0945	88.0	75.6	61.0-142			15.2	20
1,2,3-Trichloropropane	0.125	0.120	0.119	96.0	95.2	67.0-129			0.837	20
1,2,4-Trimethylbenzene	0.125	0.119	0.121	95.2	96.8	70.0-126			1.67	20
1,2,3-Trimethylbenzene	0.125	0.114	0.115	91.2	92.0	74.0-124			0.873	20
1,3,5-Trimethylbenzene	0.125	0.108	0.113	86.4	90.4	73.0-127			4.52	20
Vinyl chloride	0.125	0.104	0.100	83.2	80.0	63.0-134			3.92	20
Xylenes, Total	0.375	0.371	0.377	98.9	101	72.0-127			1.60	20
(S) Toluene-d8				97.4	96.6	75.0-131				
(S) 4-Bromofluorobenzene				105	105	67.0-138				
(S) 1,2-Dichloroethane-d4				100	98.8	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4107883-1 08/16/24 06:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	72.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4107883-2 08/16/24 06:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	35.7	71.4	50.0-150	
(S) o-Terphenyl			75.1	18.0-148	

L1764813-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1764813-01 08/16/24 08:21 • (MS) R4107883-3 08/16/24 08:35 • (MSD) R4107883-4 08/16/24 09:01

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 %
Diesel Range Organics (DRO)	59.1	7.07	41.0	40.3	57.4	56.0	1	50.0-150			1.78	20
(S) o-Terphenyl					56.6	57.6		18.0-148				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4107500-1 08/14/24 21:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	95.2			10.0-135
(S) Tetrachloro-m-xylene	92.2			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4107500-2 08/14/24 22:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.163	97.6	36.0-141	
PCB 1260	0.167	0.171	102	37.0-145	
(S) Decachlorobiphenyl			116	10.0-135	
(S) Tetrachloro-m-xylene			113	10.0-139	

L1766227-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1766227-15 08/15/24 06:15 • (MS) R4107500-3 08/15/24 06:27 • (MSD) R4107500-4 08/15/24 06:39

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 %
PCB 1016	0.184	U	0.179	0.162	97.0	88.0	1	10.0-160			9.71	37
PCB 1260	0.184	0.0131	0.189	0.158	95.3	78.5	1	10.0-160			17.8	38
(S) Decachlorobiphenyl					110	96.5		10.0-135				
(S) Tetrachloro-m-xylene					109	101		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4107111-2 08/14/24 23:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	76.9			23.0-120
(S) Nitrobenzene-d5	75.1			14.0-149
(S) 2-Fluorobiphenyl	75.7			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4107111-1 08/14/24 23:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0602	75.3	50.0-126	
Acenaphthene	0.0800	0.0556	69.5	50.0-120	
Acenaphthylene	0.0800	0.0560	70.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0563	70.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0469	58.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0518	64.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0535	66.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0514	64.3	49.0-125	
Chrysene	0.0800	0.0575	71.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0536	67.0	47.0-125	
Fluoranthene	0.0800	0.0639	79.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4107111-1 08/14/24 23:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0612	76.5	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0528	66.0	46.0-125	
Naphthalene	0.0800	0.0560	70.0	50.0-120	
Phenanthrene	0.0800	0.0605	75.6	47.0-120	
Pyrene	0.0800	0.0553	69.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0632	79.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0604	75.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0567	70.9	50.0-120	
(S) p-Terphenyl-d14			72.5	23.0-120	
(S) Nitrobenzene-d5			74.3	14.0-149	
(S) 2-Fluorobiphenyl			74.0	34.0-125	

L1765454-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1765454-01 08/15/24 00:30 • (MS) R4107111-3 08/15/24 00:48 • (MSD) R4107111-4 08/15/24 01:06

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0915	U	0.0481	0.0568	52.6	62.1	1	10.0-145			16.6	30
Acenaphthene	0.0915	U	0.0481	0.0575	52.6	62.8	1	14.0-127			17.8	27
Acenaphthylene	0.0915	U	0.0475	0.0562	51.9	61.4	1	21.0-124			16.7	25
Benzo(a)anthracene	0.0915	U	0.0465	0.0556	50.8	60.8	1	10.0-139			17.9	30
Benzo(a)pyrene	0.0915	U	0.0425	0.0516	46.4	56.4	1	10.0-141			19.5	31
Benzo(b)fluoranthene	0.0915	U	0.0439	0.0537	47.9	58.7	1	10.0-140			20.2	36
Benzo(g,h,i)perylene	0.0915	0.00230	0.0441	0.0551	45.7	57.7	1	10.0-140			22.2	33
Benzo(k)fluoranthene	0.0915	U	0.0433	0.0516	47.3	56.4	1	10.0-137			17.6	31
Chrysene	0.0915	U	0.0514	0.0605	56.2	66.2	1	10.0-145			16.4	30
Dibenz(a,h)anthracene	0.0915	U	0.0459	0.0553	50.1	60.4	1	10.0-132			18.6	31
Fluoranthene	0.0915	U	0.0510	0.0618	55.8	67.6	1	10.0-153			19.1	33
Fluorene	0.0915	U	0.0513	0.0630	56.0	68.8	1	11.0-130			20.5	29
Indeno(1,2,3-cd)pyrene	0.0915	U	0.0416	0.0503	45.5	55.0	1	10.0-137			18.9	32
Naphthalene	0.0915	U	0.0541	0.0615	57.6	65.6	1	10.0-135			12.8	27
Phenanthrene	0.0915	U	0.0504	0.0608	55.1	66.4	1	10.0-144			18.6	31
Pyrene	0.0915	U	0.0469	0.0564	51.3	61.7	1	10.0-148			18.4	35
1-Methylnaphthalene	0.0915	U	0.0562	0.0666	60.2	71.6	1	10.0-142			17.0	28
2-Methylnaphthalene	0.0915	U	0.0549	0.0639	58.0	67.9	1	10.0-137			15.2	28
2-Chloronaphthalene	0.0915	U	0.0495	0.0585	54.1	63.9	1	29.0-120			16.7	24
(S) p-Terphenyl-d14					59.5	70.7		23.0-120				
(S) Nitrobenzene-d5					62.4	69.9		14.0-149				
(S) 2-Fluorobiphenyl					61.6	72.7		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

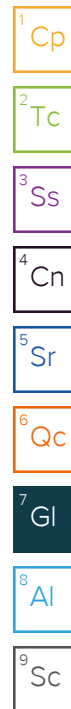
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.



ACCREDITATIONS & LOCATIONS

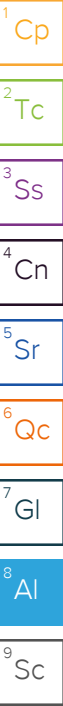
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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: Northwest Geotech, Inc. -Wilsonville, OR 9120 SW Pioneer Court Report to: Steven Day Project Description:				Billing Information: Brett Hui 9120 SW Pioneer Ct., Ste. B Wilsonville, OR 97070 Email To: sday@rmacompanies.com				Analysis / Container / Preservative Pres Chk				Chain of Custody Page <u> </u> of <u> </u>  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/hubs/pas-standard-terms.pdf SDG # 1746597 C214 Tabl Acctnum: NWGEOTOR Template: T257763 Prelogin: P1093161 PM: 110 - Brian Ford PB: Shipped Via:			
Phone: 503-682-1880		Client Project # <i>water front soils removal project</i>		Lab Project # NWGEOTOR-CAMAS		City/State Collected:		Please Circle: PT MT CT ET		NWT PHDX w/ SGT 8oz Clr-NoPres PAHs 8270SIM 8oz Clr-NoPres PCBs 8082 8oz Clr-NoPres RCRA8 Metals 6010 4oz Clr-NoPres (Pb, P6) VOCs 8260 40ml Amb/MeOH 10ml/Syr					
Collected by (print): <i>David F Hannant</i>		Site/Facility ID # <i>Building B,</i>		P.O. #		Quote #		Date Results Needed							
Collected by (signature): <i>David Hannant</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☒ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		No. of Cntrs		Immediately Packed on Ice N <u> </u> Y <u>X</u>									
Sample ID		Comp/Grab		Matrix *		Depth		Date				Time			
<i>B-F-A-25-940@10-10.5</i>		<i>grab</i>		<i>SS</i>		<i>10-10.5</i>		<i>8/12/24</i>		<i>11:05</i>					
<i>B-W-A-25-940@8-8.5</i>		<i>grab</i>		<i>SS</i>		<i>8-8.5</i>		<i>8/12/24</i>		<i>11:15</i>					
<i>B-F-A-15-940@10-10.5</i>		<i>grab</i>		<i>SS</i>		<i>10-10.5</i>		<i>8/12/24</i>		<i>13:10</i>					
<i>B-OS-comp@0-1</i>		<i>comp</i>		<i>SS</i>		<i>0-1</i>		<i>8/12/24</i>		<i>14:45</i>					
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											
				<i>SS</i>											

Earth Engineers - Camas, WA

Sample Delivery Group: L1768558
Samples Received: 08/16/2024
Project Number:
Description: Waterfront Soils Removal
Site: BUILDING B
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B_F_E+16_9+0@15-15.5 L1768558-01	6
B_F_A-25_9+0@13.5-14 L1768558-02	9
B_F_A+45=90_9@13.514 L1768558-03	12
B_F_A+16.-B_+8@12.5-13 L1768558-04	15
B_F_B.5-E.5_8-9@12.5-13 L1768558-05	18
Qc: Quality Control Summary	21
Total Solids by Method 2540 G-2011	21
Mercury by Method 7471B	22
Metals (ICP) by Method 6010D	23
Volatile Organic Compounds (GC/MS) by Method 8260D	24
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	28
Polychlorinated Biphenyls (GC) by Method 8082 A	29
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	30
Gl: Glossary of Terms	32
Al: Accreditations & Locations	33
Sc: Sample Chain of Custody	34

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

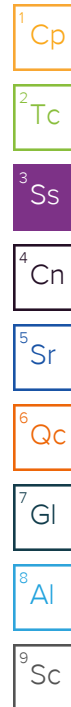
B_F_E+16_9+0@15-15.5 L1768558-01 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2345378	1	08/19/24 14:10	08/19/24 14:18	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2345353	1	08/18/24 18:16	08/19/24 11:03	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2345444	1	08/19/24 08:41	08/19/24 18:49	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2349350	1	08/15/24 00:00	08/23/24 20:25	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2347099	1	08/21/24 07:56	08/22/24 15:43	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2348330	1	08/22/24 16:20	08/23/24 12:53	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2348858	1	08/23/24 04:09	08/23/24 16:55	JRM	Mt. Juliet, TN



B_F_A-25_9+0@13.5-14 L1768558-02 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2345378	1	08/19/24 14:10	08/19/24 14:18	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2345353	1	08/18/24 18:16	08/19/24 11:06	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2345444	1	08/19/24 08:41	08/19/24 18:51	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2349350	1	08/15/24 00:00	08/23/24 20:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2347099	1	08/21/24 07:56	08/22/24 14:24	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2348330	1	08/22/24 16:20	08/23/24 13:02	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2348858	1	08/23/24 04:09	08/23/24 17:14	JRM	Mt. Juliet, TN

B_F_A+45=90_9@13.514 L1768558-03 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2345378	1	08/19/24 14:10	08/19/24 14:18	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2345353	1	08/18/24 18:16	08/19/24 11:08	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2345444	1	08/19/24 08:41	08/19/24 18:53	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2349350	1.02	08/15/24 00:00	08/23/24 21:04	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2347099	1	08/21/24 07:56	08/22/24 14:37	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2348330	1	08/22/24 16:20	08/23/24 13:11	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2348858	1	08/23/24 04:09	08/23/24 17:34	JRM	Mt. Juliet, TN

B_F_A+16.-B_+8@12.5-13 L1768558-04 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2345378	1	08/19/24 14:10	08/19/24 14:18	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2345353	1	08/18/24 18:16	08/19/24 11:11	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2345444	1	08/19/24 08:41	08/19/24 18:54	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2349350	1	08/15/24 00:00	08/23/24 21:23	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2347099	1	08/21/24 07:56	08/22/24 15:16	KDB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2348330	1	08/22/24 16:20	08/23/24 13:21	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2348858	1	08/23/24 04:09	08/23/24 17:53	JRM	Mt. Juliet, TN

B_F_B.5-E.5_8-9@12.5-13 L1768558-05 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2345378	1	08/19/24 14:10	08/19/24 14:18	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2345353	1	08/18/24 18:16	08/19/24 11:13	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2345444	1	08/19/24 08:41	08/19/24 18:56	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2349350	1.03	08/15/24 00:00	08/23/24 21:42	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

B_F_B.5-E.5_8-9@12.5-13 L1768558-05 Solid

Collected by
David Hannant

Collected date/time
08/15/24 00:00

Received date/time
08/16/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2347099	1	08/21/24 07:56	08/22/24 15:30	KDB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2348330	1	08/22/24 16:20	08/23/24 13:30	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2348858	1	08/23/24 04:09	08/23/24 18:13	JRM	Mt. Juliet, TN

¹Cp

 ${}^2\text{Tc}$

³Ss

$$^4\text{Cn}$$
 ${}^5\text{Sr}$ ${}^6\text{Qc}$ ⁷Gl ${}^8\text{Al}$ ${}^9\text{Sc}$

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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.2		1	08/19/2024 14:18	WG2345378

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0222	0.0493	1	08/19/2024 11:03	WG2345353

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.9		0.256	0.616	1	08/19/2024 18:49	WG2345444

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0538	0.0736	1	08/23/2024 20:25	WG2349350
Acrylonitrile	U		0.00532	0.0184	1	08/23/2024 20:25	WG2349350
Benzene	U		0.000688	0.00147	1	08/23/2024 20:25	WG2349350
Bromobenzene	U	J4	0.00133	0.0184	1	08/23/2024 20:25	WG2349350
Bromodichloromethane	U		0.00107	0.00368	1	08/23/2024 20:25	WG2349350
Bromoform	U		0.00172	0.0368	1	08/23/2024 20:25	WG2349350
Bromomethane	U		0.00290	0.0184	1	08/23/2024 20:25	WG2349350
n-Butylbenzene	U		0.00773	0.0184	1	08/23/2024 20:25	WG2349350
sec-Butylbenzene	U		0.00424	0.0184	1	08/23/2024 20:25	WG2349350
tert-Butylbenzene	U		0.00287	0.00736	1	08/23/2024 20:25	WG2349350
Carbon tetrachloride	U		0.00132	0.00736	1	08/23/2024 20:25	WG2349350
Chlorobenzene	U		0.000309	0.00368	1	08/23/2024 20:25	WG2349350
Chlorodibromomethane	U		0.000901	0.00368	1	08/23/2024 20:25	WG2349350
Chloroethane	U		0.00250	0.00736	1	08/23/2024 20:25	WG2349350
Chloroform	U		0.00152	0.00368	1	08/23/2024 20:25	WG2349350
Chloromethane	U	J3	0.00641	0.0184	1	08/23/2024 20:25	WG2349350
2-Chlorotoluene	U		0.00127	0.00368	1	08/23/2024 20:25	WG2349350
4-Chlorotoluene	U		0.000663	0.00736	1	08/23/2024 20:25	WG2349350
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0368	1	08/23/2024 20:25	WG2349350
1,2-Dibromoethane	U		0.000954	0.00368	1	08/23/2024 20:25	WG2349350
Dibromomethane	U		0.00110	0.00736	1	08/23/2024 20:25	WG2349350
1,2-Dichlorobenzene	U		0.000626	0.00736	1	08/23/2024 20:25	WG2349350
1,3-Dichlorobenzene	U		0.000884	0.00736	1	08/23/2024 20:25	WG2349350
1,4-Dichlorobenzene	U		0.00103	0.00736	1	08/23/2024 20:25	WG2349350
Dichlorodifluoromethane	U	J3	0.00237	0.00736	1	08/23/2024 20:25	WG2349350
1,1-Dichloroethane	U		0.000723	0.00368	1	08/23/2024 20:25	WG2349350
1,2-Dichloroethane	U		0.000956	0.00368	1	08/23/2024 20:25	WG2349350
1,1-Dichloroethene	U		0.000893	0.00368	1	08/23/2024 20:25	WG2349350
cis-1,2-Dichloroethene	U		0.00108	0.00368	1	08/23/2024 20:25	WG2349350
trans-1,2-Dichloroethene	U		0.00153	0.00736	1	08/23/2024 20:25	WG2349350
1,2-Dichloropropane	U		0.00209	0.00736	1	08/23/2024 20:25	WG2349350
1,1-Dichloropropene	U		0.00119	0.00368	1	08/23/2024 20:25	WG2349350
1,3-Dichloropropane	U		0.000738	0.00736	1	08/23/2024 20:25	WG2349350
cis-1,3-Dichloropropene	U		0.00112	0.00368	1	08/23/2024 20:25	WG2349350
trans-1,3-Dichloropropene	U		0.00168	0.00736	1	08/23/2024 20:25	WG2349350
2,2-Dichloropropane	U		0.00203	0.00368	1	08/23/2024 20:25	WG2349350
Di-isopropyl ether	U		0.000604	0.00147	1	08/23/2024 20:25	WG2349350
Ethylbenzene	U		0.00109	0.00368	1	08/23/2024 20:25	WG2349350
Hexachloro-1,3-butadiene	U		0.00884	0.0368	1	08/23/2024 20:25	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000626	0.00368	1	08/23/2024 20:25	WG2349350
p-Isopropyltoluene	U		0.00376	0.00736	1	08/23/2024 20:25	WG2349350
2-Butanone (MEK)	U		0.0935	0.147	1	08/23/2024 20:25	WG2349350
Methylene Chloride	U		0.00978	0.0368	1	08/23/2024 20:25	WG2349350
4-Methyl-2-pentanone (MIBK)	U		0.00336	0.0368	1	08/23/2024 20:25	WG2349350
Methyl tert-butyl ether	U		0.000516	0.00147	1	08/23/2024 20:25	WG2349350
Naphthalene	U		0.00719	0.0184	1	08/23/2024 20:25	WG2349350
n-Propylbenzene	U		0.00140	0.00736	1	08/23/2024 20:25	WG2349350
Styrene	U		0.000337	0.0184	1	08/23/2024 20:25	WG2349350
1,1,1,2-Tetrachloroethane	U		0.00140	0.00368	1	08/23/2024 20:25	WG2349350
1,1,2,2-Tetrachloroethane	U		0.00102	0.00368	1	08/23/2024 20:25	WG2349350
1,1,2-Trichlorotrifluoroethane	U		0.00111	0.00368	1	08/23/2024 20:25	WG2349350
Tetrachloroethene	U		0.00132	0.00368	1	08/23/2024 20:25	WG2349350
Toluene	U		0.00191	0.00736	1	08/23/2024 20:25	WG2349350
1,2,3-Trichlorobenzene	U		0.0108	0.0184	1	08/23/2024 20:25	WG2349350
1,2,4-Trichlorobenzene	U		0.00648	0.0184	1	08/23/2024 20:25	WG2349350
1,1,1-Trichloroethane	U		0.00136	0.00368	1	08/23/2024 20:25	WG2349350
1,1,2-Trichloroethane	U		0.000879	0.00368	1	08/23/2024 20:25	WG2349350
Trichloroethene	U		0.000860	0.00147	1	08/23/2024 20:25	WG2349350
Trichlorofluoromethane	U		0.00122	0.00368	1	08/23/2024 20:25	WG2349350
1,2,3-Trichloropropane	U		0.00239	0.0184	1	08/23/2024 20:25	WG2349350
1,2,4-Trimethylbenzene	U		0.00233	0.00736	1	08/23/2024 20:25	WG2349350
1,2,3-Trimethylbenzene	U		0.00233	0.00736	1	08/23/2024 20:25	WG2349350
1,3,5-Trimethylbenzene	U		0.00295	0.00736	1	08/23/2024 20:25	WG2349350
Vinyl chloride	U	J3	0.00171	0.00368	1	08/23/2024 20:25	WG2349350
Xylenes, Total	U		0.00130	0.00957	1	08/23/2024 20:25	WG2349350
(S) Toluene-d8	103			75.0-131		08/23/2024 20:25	WG2349350
(S) 4-Bromofluorobenzene	96.0			67.0-138		08/23/2024 20:25	WG2349350
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		08/23/2024 20:25	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.41		1.64	4.93	1	08/22/2024 15:43	WG2347099
Residual Range Organics (RRO)	U		4.10	12.3	1	08/22/2024 15:43	WG2347099
(S) o-Terphenyl	75.5			18.0-148		08/22/2024 15:43	WG2347099

Sample Narrative:

L1768558-01 WG2347099: Sample does not resemble laboratory standards.

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		0.0145	0.0419	1	08/23/2024 12:53	WG2348330
PCB 1221	U		0.0145	0.0419	1	08/23/2024 12:53	WG2348330
PCB 1232	U		0.0145	0.0419	1	08/23/2024 12:53	WG2348330
PCB 1242	U		0.0145	0.0419	1	08/23/2024 12:53	WG2348330
PCB 1248	U		0.00909	0.0209	1	08/23/2024 12:53	WG2348330
PCB 1254	U		0.00909	0.0209	1	08/23/2024 12:53	WG2348330
PCB 1260	U		0.00909	0.0209	1	08/23/2024 12:53	WG2348330
(S) Decachlorobiphenyl	98.4			10.0-135		08/23/2024 12:53	WG2348330
(S) Tetrachloro-m-xylene	98.9			10.0-139		08/23/2024 12:53	WG2348330

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00283	0.00739	1	08/23/2024 16:55	WG2348858
Acenaphthene	U		0.00257	0.00739	1	08/23/2024 16:55	WG2348858
Acenaphthylene	U		0.00266	0.00739	1	08/23/2024 16:55	WG2348858
Benzo(a)anthracene	U		0.00213	0.00739	1	08/23/2024 16:55	WG2348858
Benzo(a)pyrene	U		0.00221	0.00739	1	08/23/2024 16:55	WG2348858
Benzo(b)fluoranthene	U		0.00188	0.00739	1	08/23/2024 16:55	WG2348858
Benzo(g,h,i)perylene	U		0.00218	0.00739	1	08/23/2024 16:55	WG2348858
Benzo(k)fluoranthene	U		0.00265	0.00739	1	08/23/2024 16:55	WG2348858
Chrysene	U		0.00286	0.00739	1	08/23/2024 16:55	WG2348858
Dibenz(a,h)anthracene	U		0.00212	0.00739	1	08/23/2024 16:55	WG2348858
Fluoranthene	U		0.00280	0.00739	1	08/23/2024 16:55	WG2348858
Fluorene	U		0.00253	0.00739	1	08/23/2024 16:55	WG2348858
Indeno(1,2,3-cd)pyrene	U		0.00223	0.00739	1	08/23/2024 16:55	WG2348858
Naphthalene	U		0.00503	0.0246	1	08/23/2024 16:55	WG2348858
Phenanthrene	U		0.00285	0.00739	1	08/23/2024 16:55	WG2348858
Pyrene	U		0.00246	0.00739	1	08/23/2024 16:55	WG2348858
1-Methylnaphthalene	U		0.00553	0.0246	1	08/23/2024 16:55	WG2348858
2-Methylnaphthalene	U		0.00526	0.0246	1	08/23/2024 16:55	WG2348858
2-Chloronaphthalene	U		0.00574	0.0246	1	08/23/2024 16:55	WG2348858
(S) p-Terphenyl-d14	74.0			23.0-120		08/23/2024 16:55	WG2348858
(S) Nitrobenzene-d5	92.2			14.0-149		08/23/2024 16:55	WG2348858
(S) 2-Fluorobiphenyl	73.7			34.0-125		08/23/2024 16:55	WG2348858

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.0		1	08/19/2024 14:18	WG2345378

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0217	0.0482	1	08/19/2024 11:06	WG2345353

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.64		0.250	0.602	1	08/19/2024 18:51	WG2345444

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0522	0.0714	1	08/23/2024 20:45	WG2349350
Acrylonitrile	U		0.00516	0.0179	1	08/23/2024 20:45	WG2349350
Benzene	U		0.000667	0.00143	1	08/23/2024 20:45	WG2349350
Bromobenzene	U	J4	0.00129	0.0179	1	08/23/2024 20:45	WG2349350
Bromodichloromethane	U		0.00104	0.00357	1	08/23/2024 20:45	WG2349350
Bromoform	U		0.00167	0.0357	1	08/23/2024 20:45	WG2349350
Bromomethane	U		0.00282	0.0179	1	08/23/2024 20:45	WG2349350
n-Butylbenzene	U		0.00750	0.0179	1	08/23/2024 20:45	WG2349350
sec-Butylbenzene	U		0.00412	0.0179	1	08/23/2024 20:45	WG2349350
tert-Butylbenzene	U		0.00279	0.00714	1	08/23/2024 20:45	WG2349350
Carbon tetrachloride	U		0.00128	0.00714	1	08/23/2024 20:45	WG2349350
Chlorobenzene	U		0.000300	0.00357	1	08/23/2024 20:45	WG2349350
Chlorodibromomethane	U		0.000875	0.00357	1	08/23/2024 20:45	WG2349350
Chloroethane	U		0.00243	0.00714	1	08/23/2024 20:45	WG2349350
Chloroform	U		0.00147	0.00357	1	08/23/2024 20:45	WG2349350
Chloromethane	U	J3	0.00622	0.0179	1	08/23/2024 20:45	WG2349350
2-Chlorotoluene	U		0.00124	0.00357	1	08/23/2024 20:45	WG2349350
4-Chlorotoluene	U		0.000643	0.00714	1	08/23/2024 20:45	WG2349350
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0357	1	08/23/2024 20:45	WG2349350
1,2-Dibromoethane	U		0.000926	0.00357	1	08/23/2024 20:45	WG2349350
Dibromomethane	U		0.00107	0.00714	1	08/23/2024 20:45	WG2349350
1,2-Dichlorobenzene	U		0.000607	0.00714	1	08/23/2024 20:45	WG2349350
1,3-Dichlorobenzene	U		0.000857	0.00714	1	08/23/2024 20:45	WG2349350
1,4-Dichlorobenzene	U		0.00100	0.00714	1	08/23/2024 20:45	WG2349350
Dichlorodifluoromethane	U	J3	0.00230	0.00714	1	08/23/2024 20:45	WG2349350
1,1-Dichloroethane	U		0.000702	0.00357	1	08/23/2024 20:45	WG2349350
1,2-Dichloroethane	U		0.000927	0.00357	1	08/23/2024 20:45	WG2349350
1,1-Dichloroethene	U		0.000866	0.00357	1	08/23/2024 20:45	WG2349350
cis-1,2-Dichloroethene	U		0.00105	0.00357	1	08/23/2024 20:45	WG2349350
trans-1,2-Dichloroethene	U		0.00149	0.00714	1	08/23/2024 20:45	WG2349350
1,2-Dichloropropane	U		0.00203	0.00714	1	08/23/2024 20:45	WG2349350
1,1-Dichloropropene	U		0.00116	0.00357	1	08/23/2024 20:45	WG2349350
1,3-Dichloropropane	U		0.000716	0.00714	1	08/23/2024 20:45	WG2349350
cis-1,3-Dichloropropene	U		0.00108	0.00357	1	08/23/2024 20:45	WG2349350
trans-1,3-Dichloropropene	U		0.00163	0.00714	1	08/23/2024 20:45	WG2349350
2,2-Dichloropropane	U		0.00197	0.00357	1	08/23/2024 20:45	WG2349350
Di-isopropyl ether	U		0.000586	0.00143	1	08/23/2024 20:45	WG2349350
Ethylbenzene	U		0.00105	0.00357	1	08/23/2024 20:45	WG2349350
Hexachloro-1,3-butadiene	U		0.00857	0.0357	1	08/23/2024 20:45	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000607	0.00357	1	08/23/2024 20:45	WG2349350
p-Isopropyltoluene	U		0.00364	0.00714	1	08/23/2024 20:45	WG2349350
2-Butanone (MEK)	U		0.0907	0.143	1	08/23/2024 20:45	WG2349350
Methylene Chloride	U		0.00949	0.0357	1	08/23/2024 20:45	WG2349350
4-Methyl-2-pentanone (MIBK)	U		0.00326	0.0357	1	08/23/2024 20:45	WG2349350
Methyl tert-butyl ether	U		0.000500	0.00143	1	08/23/2024 20:45	WG2349350
Naphthalene	U		0.00697	0.0179	1	08/23/2024 20:45	WG2349350
n-Propylbenzene	U		0.00136	0.00714	1	08/23/2024 20:45	WG2349350
Styrene	U		0.000327	0.0179	1	08/23/2024 20:45	WG2349350
1,1,1,2-Tetrachloroethane	U		0.00135	0.00357	1	08/23/2024 20:45	WG2349350
1,1,2,2-Tetrachloroethane	U		0.000993	0.00357	1	08/23/2024 20:45	WG2349350
1,1,2-Trichlorotrifluoroethane	U		0.00108	0.00357	1	08/23/2024 20:45	WG2349350
Tetrachloroethene	U		0.00128	0.00357	1	08/23/2024 20:45	WG2349350
Toluene	U		0.00186	0.00714	1	08/23/2024 20:45	WG2349350
1,2,3-Trichlorobenzene	U		0.0105	0.0179	1	08/23/2024 20:45	WG2349350
1,2,4-Trichlorobenzene	U		0.00629	0.0179	1	08/23/2024 20:45	WG2349350
1,1,1-Trichloroethane	U		0.00132	0.00357	1	08/23/2024 20:45	WG2349350
1,1,2-Trichloroethane	U		0.000853	0.00357	1	08/23/2024 20:45	WG2349350
Trichloroethene	U		0.000835	0.00143	1	08/23/2024 20:45	WG2349350
Trichlorofluoromethane	U		0.00118	0.00357	1	08/23/2024 20:45	WG2349350
1,2,3-Trichloropropane	U		0.00231	0.0179	1	08/23/2024 20:45	WG2349350
1,2,4-Trimethylbenzene	U		0.00226	0.00714	1	08/23/2024 20:45	WG2349350
1,2,3-Trimethylbenzene	U		0.00226	0.00714	1	08/23/2024 20:45	WG2349350
1,3,5-Trimethylbenzene	U		0.00286	0.00714	1	08/23/2024 20:45	WG2349350
Vinyl chloride	U	J3	0.00166	0.00357	1	08/23/2024 20:45	WG2349350
Xylenes, Total	U		0.00126	0.00929	1	08/23/2024 20:45	WG2349350
(S) Toluene-d8	106			75.0-131		08/23/2024 20:45	WG2349350
(S) 4-Bromofluorobenzene	92.2			67.0-138		08/23/2024 20:45	WG2349350
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		08/23/2024 20:45	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.42		1.60	4.82	1	08/22/2024 14:24	WG2347099
Residual Range Organics (RRO)	7.12	J	4.01	12.0	1	08/22/2024 14:24	WG2347099
(S) o-Terphenyl	64.9			18.0-148		08/22/2024 14:24	WG2347099

Sample Narrative:

L1768558-02 WG2347099: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0142	0.0409	1	08/23/2024 13:02	WG2348330
PCB 1221	U		0.0142	0.0409	1	08/23/2024 13:02	WG2348330
PCB 1232	U		0.0142	0.0409	1	08/23/2024 13:02	WG2348330
PCB 1242	U		0.0142	0.0409	1	08/23/2024 13:02	WG2348330
PCB 1248	U		0.00889	0.0205	1	08/23/2024 13:02	WG2348330
PCB 1254	0.0116	J P	0.00889	0.0205	1	08/23/2024 13:02	WG2348330
PCB 1260	U		0.00889	0.0205	1	08/23/2024 13:02	WG2348330
(S) Decachlorobiphenyl	86.4			10.0-135		08/23/2024 13:02	WG2348330
(S) Tetrachloro-m-xylene	92.2			10.0-139		08/23/2024 13:02	WG2348330

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00277	0.00722	1	08/23/2024 17:14	WG2348858
Acenaphthene	U		0.00252	0.00722	1	08/23/2024 17:14	WG2348858
Acenaphthylene	U		0.00260	0.00722	1	08/23/2024 17:14	WG2348858
Benzo(a)anthracene	U		0.00208	0.00722	1	08/23/2024 17:14	WG2348858
Benzo(a)pyrene	U		0.00216	0.00722	1	08/23/2024 17:14	WG2348858
Benzo(b)fluoranthene	U		0.00184	0.00722	1	08/23/2024 17:14	WG2348858
Benzo(g,h,i)perylene	U		0.00213	0.00722	1	08/23/2024 17:14	WG2348858
Benzo(k)fluoranthene	U		0.00259	0.00722	1	08/23/2024 17:14	WG2348858
Chrysene	U		0.00279	0.00722	1	08/23/2024 17:14	WG2348858
Dibenz(a,h)anthracene	U		0.00207	0.00722	1	08/23/2024 17:14	WG2348858
Fluoranthene	U		0.00273	0.00722	1	08/23/2024 17:14	WG2348858
Fluorene	U		0.00247	0.00722	1	08/23/2024 17:14	WG2348858
Indeno(1,2,3-cd)pyrene	U		0.00218	0.00722	1	08/23/2024 17:14	WG2348858
Naphthalene	U		0.00491	0.0241	1	08/23/2024 17:14	WG2348858
Phenanthrene	U		0.00278	0.00722	1	08/23/2024 17:14	WG2348858
Pyrene	U		0.00241	0.00722	1	08/23/2024 17:14	WG2348858
1-Methylnaphthalene	U		0.00541	0.0241	1	08/23/2024 17:14	WG2348858
2-Methylnaphthalene	U		0.00514	0.0241	1	08/23/2024 17:14	WG2348858
2-Chloronaphthalene	U		0.00561	0.0241	1	08/23/2024 17:14	WG2348858
(S) p-Terphenyl-d14	58.4			23.0-120		08/23/2024 17:14	WG2348858
(S) Nitrobenzene-d5	76.1			14.0-149		08/23/2024 17:14	WG2348858
(S) 2-Fluorobiphenyl	60.5			34.0-125		08/23/2024 17:14	WG2348858

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.9		1	08/19/2024 14:18	WG2345378

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0488	1	08/19/2024 11:08	WG2345353

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.7		0.254	0.610	1	08/19/2024 18:53	WG2345444

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0666	J	0.0534	0.0732	1.02	08/23/2024 21:04	WG2349350
Acrylonitrile	U		0.00528	0.0184	1.02	08/23/2024 21:04	WG2349350
Benzene	U		0.000683	0.00146	1.02	08/23/2024 21:04	WG2349350
Bromobenzene	U	J4	0.00132	0.0184	1.02	08/23/2024 21:04	WG2349350
Bromodichloromethane	U		0.00106	0.00366	1.02	08/23/2024 21:04	WG2349350
Bromoform	U		0.00171	0.0366	1.02	08/23/2024 21:04	WG2349350
Bromomethane	U		0.00289	0.0184	1.02	08/23/2024 21:04	WG2349350
n-Butylbenzene	U		0.00768	0.0184	1.02	08/23/2024 21:04	WG2349350
sec-Butylbenzene	U		0.00422	0.0184	1.02	08/23/2024 21:04	WG2349350
tert-Butylbenzene	U		0.00286	0.00732	1.02	08/23/2024 21:04	WG2349350
Carbon tetrachloride	U		0.00131	0.00732	1.02	08/23/2024 21:04	WG2349350
Chlorobenzene	U		0.000307	0.00366	1.02	08/23/2024 21:04	WG2349350
Chlorodibromomethane	U		0.000896	0.00366	1.02	08/23/2024 21:04	WG2349350
Chloroethane	U		0.00248	0.00732	1.02	08/23/2024 21:04	WG2349350
Chloroform	U		0.00151	0.00366	1.02	08/23/2024 21:04	WG2349350
Chloromethane	U	J3	0.00637	0.0184	1.02	08/23/2024 21:04	WG2349350
2-Chlorotoluene	U		0.00127	0.00366	1.02	08/23/2024 21:04	WG2349350
4-Chlorotoluene	U		0.000659	0.00732	1.02	08/23/2024 21:04	WG2349350
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0366	1.02	08/23/2024 21:04	WG2349350
1,2-Dibromoethane	U		0.000949	0.00366	1.02	08/23/2024 21:04	WG2349350
Dibromomethane	U		0.00110	0.00732	1.02	08/23/2024 21:04	WG2349350
1,2-Dichlorobenzene	U		0.000622	0.00732	1.02	08/23/2024 21:04	WG2349350
1,3-Dichlorobenzene	U		0.000878	0.00732	1.02	08/23/2024 21:04	WG2349350
1,4-Dichlorobenzene	U		0.00102	0.00732	1.02	08/23/2024 21:04	WG2349350
Dichlorodifluoromethane	U	J3	0.00235	0.00732	1.02	08/23/2024 21:04	WG2349350
1,1-Dichloroethane	U		0.000719	0.00366	1.02	08/23/2024 21:04	WG2349350
1,2-Dichloroethane	U		0.000950	0.00366	1.02	08/23/2024 21:04	WG2349350
1,1-Dichloroethene	U		0.000887	0.00366	1.02	08/23/2024 21:04	WG2349350
cis-1,2-Dichloroethene	U		0.00108	0.00366	1.02	08/23/2024 21:04	WG2349350
trans-1,2-Dichloroethene	U		0.00152	0.00732	1.02	08/23/2024 21:04	WG2349350
1,2-Dichloropropane	U		0.00208	0.00732	1.02	08/23/2024 21:04	WG2349350
1,1-Dichloropropene	U		0.00118	0.00366	1.02	08/23/2024 21:04	WG2349350
1,3-Dichloropropane	U		0.000734	0.00732	1.02	08/23/2024 21:04	WG2349350
cis-1,3-Dichloropropene	U		0.00111	0.00366	1.02	08/23/2024 21:04	WG2349350
trans-1,3-Dichloropropene	U		0.00167	0.00732	1.02	08/23/2024 21:04	WG2349350
2,2-Dichloropropane	U		0.00202	0.00366	1.02	08/23/2024 21:04	WG2349350
Di-isopropyl ether	U		0.000600	0.00146	1.02	08/23/2024 21:04	WG2349350
Ethylbenzene	U		0.00108	0.00366	1.02	08/23/2024 21:04	WG2349350
Hexachloro-1,3-butadiene	U		0.00878	0.0366	1.02	08/23/2024 21:04	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	0.000768	1J	0.000622	0.00366	1.02	08/23/2024 21:04	WG2349350
p-Isopropyltoluene	0.00479	1J	0.00373	0.00732	1.02	08/23/2024 21:04	WG2349350
2-Butanone (MEK)	U		0.0930	0.146	1.02	08/23/2024 21:04	WG2349350
Methylene Chloride	U		0.00972	0.0366	1.02	08/23/2024 21:04	WG2349350
4-Methyl-2-pentanone (MIBK)	U		0.00334	0.0366	1.02	08/23/2024 21:04	WG2349350
Methyl tert-butyl ether	U		0.000512	0.00146	1.02	08/23/2024 21:04	WG2349350
Naphthalene	U		0.00715	0.0184	1.02	08/23/2024 21:04	WG2349350
n-Propylbenzene	U		0.00139	0.00732	1.02	08/23/2024 21:04	WG2349350
Styrene	U		0.000336	0.0184	1.02	08/23/2024 21:04	WG2349350
1,1,1,2-Tetrachloroethane	U		0.00139	0.00366	1.02	08/23/2024 21:04	WG2349350
1,1,2,2-Tetrachloroethane	U		0.00102	0.00366	1.02	08/23/2024 21:04	WG2349350
1,1,2-Trichlorotrifluoroethane	U		0.00110	0.00366	1.02	08/23/2024 21:04	WG2349350
Tetrachloroethene	U		0.00131	0.00366	1.02	08/23/2024 21:04	WG2349350
Toluene	0.00248	1J	0.00191	0.00732	1.02	08/23/2024 21:04	WG2349350
1,2,3-Trichlorobenzene	U		0.0107	0.0184	1.02	08/23/2024 21:04	WG2349350
1,2,4-Trichlorobenzene	U		0.00645	0.0184	1.02	08/23/2024 21:04	WG2349350
1,1,1-Trichloroethane	U		0.00135	0.00366	1.02	08/23/2024 21:04	WG2349350
1,1,2-Trichloroethane	U		0.000874	0.00366	1.02	08/23/2024 21:04	WG2349350
Trichloroethene	U		0.000856	0.00146	1.02	08/23/2024 21:04	WG2349350
Trichlorofluoromethane	U		0.00121	0.00366	1.02	08/23/2024 21:04	WG2349350
1,2,3-Trichloropropane	U		0.00237	0.0184	1.02	08/23/2024 21:04	WG2349350
1,2,4-Trimethylbenzene	0.0818		0.00231	0.00732	1.02	08/23/2024 21:04	WG2349350
1,2,3-Trimethylbenzene	0.0211		0.00231	0.00732	1.02	08/23/2024 21:04	WG2349350
1,3,5-Trimethylbenzene	0.0317		0.00293	0.00732	1.02	08/23/2024 21:04	WG2349350
Vinyl chloride	U	3J	0.00169	0.00366	1.02	08/23/2024 21:04	WG2349350
Xylenes, Total	0.00238	1J	0.00129	0.00952	1.02	08/23/2024 21:04	WG2349350
(S) Toluene-d8	104			75.0-131		08/23/2024 21:04	WG2349350
(S) 4-Bromofluorobenzene	98.4			67.0-138		08/23/2024 21:04	WG2349350
(S) 1,2-Dichloroethane-d4	97.0			70.0-130		08/23/2024 21:04	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.69		1.62	4.88	1	08/22/2024 14:37	WG2347099
Residual Range Organics (RRO)	10.4	1J	4.06	12.2	1	08/22/2024 14:37	WG2347099
(S) o-Terphenyl	52.8			18.0-148		08/22/2024 14:37	WG2347099

Sample Narrative:

L1768558-03 WG2347099: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0144	0.0415	1	08/23/2024 13:11	WG2348330
PCB 1221	U		0.0144	0.0415	1	08/23/2024 13:11	WG2348330
PCB 1232	U		0.0144	0.0415	1	08/23/2024 13:11	WG2348330
PCB 1242	U		0.0144	0.0415	1	08/23/2024 13:11	WG2348330
PCB 1248	U		0.00901	0.0207	1	08/23/2024 13:11	WG2348330
PCB 1254	U		0.00901	0.0207	1	08/23/2024 13:11	WG2348330
PCB 1260	U		0.00901	0.0207	1	08/23/2024 13:11	WG2348330
(S) Decachlorobiphenyl	98.4			10.0-135		08/23/2024 13:11	WG2348330
(S) Tetrachloro-m-xylene	96.3			10.0-139		08/23/2024 13:11	WG2348330

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00281	0.00732	1	08/23/2024 17:34	WG2348858
Acenaphthene	U		0.00255	0.00732	1	08/23/2024 17:34	WG2348858
Acenaphthylene	U		0.00264	0.00732	1	08/23/2024 17:34	WG2348858
Benzo(a)anthracene	U		0.00211	0.00732	1	08/23/2024 17:34	WG2348858
Benzo(a)pyrene	U		0.00218	0.00732	1	08/23/2024 17:34	WG2348858
Benzo(b)fluoranthene	U		0.00187	0.00732	1	08/23/2024 17:34	WG2348858
Benzo(g,h,i)perylene	U		0.00216	0.00732	1	08/23/2024 17:34	WG2348858
Benzo(k)fluoranthene	U		0.00262	0.00732	1	08/23/2024 17:34	WG2348858
Chrysene	U		0.00283	0.00732	1	08/23/2024 17:34	WG2348858
Dibenz(a,h)anthracene	U		0.00210	0.00732	1	08/23/2024 17:34	WG2348858
Fluoranthene	U		0.00277	0.00732	1	08/23/2024 17:34	WG2348858
Fluorene	U		0.00250	0.00732	1	08/23/2024 17:34	WG2348858
Indeno(1,2,3-cd)pyrene	U		0.00221	0.00732	1	08/23/2024 17:34	WG2348858
Naphthalene	U		0.00498	0.0244	1	08/23/2024 17:34	WG2348858
Phenanthrene	0.00343	J	0.00282	0.00732	1	08/23/2024 17:34	WG2348858
Pyrene	U		0.00244	0.00732	1	08/23/2024 17:34	WG2348858
1-Methylnaphthalene	U		0.00548	0.0244	1	08/23/2024 17:34	WG2348858
2-Methylnaphthalene	U		0.00521	0.0244	1	08/23/2024 17:34	WG2348858
2-Chloronaphthalene	U		0.00569	0.0244	1	08/23/2024 17:34	WG2348858
(S) p-Terphenyl-d14	70.8			23.0-120		08/23/2024 17:34	WG2348858
(S) Nitrobenzene-d5	89.1			14.0-149		08/23/2024 17:34	WG2348858
(S) 2-Fluorobiphenyl	70.4			34.0-125		08/23/2024 17:34	WG2348858

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.5		1	08/19/2024 14:18	WG2345378

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0216	0.0479	1	08/19/2024 11:11	WG2345353

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.3		0.249	0.599	1	08/19/2024 18:54	WG2345444

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0511	0.0700	1	08/23/2024 21:23	WG2349350
Acrylonitrile	U		0.00505	0.0175	1	08/23/2024 21:23	WG2349350
Benzene	U		0.000654	0.00140	1	08/23/2024 21:23	WG2349350
Bromobenzene	U	J4	0.00126	0.0175	1	08/23/2024 21:23	WG2349350
Bromodichloromethane	U		0.00102	0.00350	1	08/23/2024 21:23	WG2349350
Bromoform	U		0.00164	0.0350	1	08/23/2024 21:23	WG2349350
Bromomethane	U		0.00276	0.0175	1	08/23/2024 21:23	WG2349350
n-Butylbenzene	U		0.00735	0.0175	1	08/23/2024 21:23	WG2349350
sec-Butylbenzene	U		0.00403	0.0175	1	08/23/2024 21:23	WG2349350
tert-Butylbenzene	U		0.00273	0.00700	1	08/23/2024 21:23	WG2349350
Carbon tetrachloride	U		0.00126	0.00700	1	08/23/2024 21:23	WG2349350
Chlorobenzene	U		0.000294	0.00350	1	08/23/2024 21:23	WG2349350
Chlorodibromomethane	U		0.000857	0.00350	1	08/23/2024 21:23	WG2349350
Chloroethane	U		0.00238	0.00700	1	08/23/2024 21:23	WG2349350
Chloroform	U		0.00144	0.00350	1	08/23/2024 21:23	WG2349350
Chloromethane	U	J3	0.00609	0.0175	1	08/23/2024 21:23	WG2349350
2-Chlorotoluene	U		0.00121	0.00350	1	08/23/2024 21:23	WG2349350
4-Chlorotoluene	U		0.000630	0.00700	1	08/23/2024 21:23	WG2349350
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0350	1	08/23/2024 21:23	WG2349350
1,2-Dibromoethane	U		0.000907	0.00350	1	08/23/2024 21:23	WG2349350
Dibromomethane	U		0.00105	0.00700	1	08/23/2024 21:23	WG2349350
1,2-Dichlorobenzene	U		0.000595	0.00700	1	08/23/2024 21:23	WG2349350
1,3-Dichlorobenzene	U		0.000840	0.00700	1	08/23/2024 21:23	WG2349350
1,4-Dichlorobenzene	U		0.000980	0.00700	1	08/23/2024 21:23	WG2349350
Dichlorodifluoromethane	U	J3	0.00225	0.00700	1	08/23/2024 21:23	WG2349350
1,1-Dichloroethane	U		0.000687	0.00350	1	08/23/2024 21:23	WG2349350
1,2-Dichloroethane	U		0.000909	0.00350	1	08/23/2024 21:23	WG2349350
1,1-Dichloroethene	U		0.000848	0.00350	1	08/23/2024 21:23	WG2349350
cis-1,2-Dichloroethene	U		0.00103	0.00350	1	08/23/2024 21:23	WG2349350
trans-1,2-Dichloroethene	U		0.00146	0.00700	1	08/23/2024 21:23	WG2349350
1,2-Dichloropropane	U		0.00199	0.00700	1	08/23/2024 21:23	WG2349350
1,1-Dichloropropene	U		0.00113	0.00350	1	08/23/2024 21:23	WG2349350
1,3-Dichloropropane	U		0.000701	0.00700	1	08/23/2024 21:23	WG2349350
cis-1,3-Dichloropropene	U		0.00106	0.00350	1	08/23/2024 21:23	WG2349350
trans-1,3-Dichloropropene	U		0.00160	0.00700	1	08/23/2024 21:23	WG2349350
2,2-Dichloropropane	U		0.00193	0.00350	1	08/23/2024 21:23	WG2349350
Di-isopropyl ether	U		0.000574	0.00140	1	08/23/2024 21:23	WG2349350
Ethylbenzene	U		0.00103	0.00350	1	08/23/2024 21:23	WG2349350
Hexachloro-1,3-butadiene	U		0.00840	0.0350	1	08/23/2024 21:23	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000595	0.00350	1	08/23/2024 21:23	WG2349350
p-Isopropyltoluene	U		0.00357	0.00700	1	08/23/2024 21:23	WG2349350
2-Butanone (MEK)	U		0.0889	0.140	1	08/23/2024 21:23	WG2349350
Methylene Chloride	U		0.00930	0.0350	1	08/23/2024 21:23	WG2349350
4-Methyl-2-pentanone (MIBK)	U		0.00319	0.0350	1	08/23/2024 21:23	WG2349350
Methyl tert-butyl ether	U		0.000490	0.00140	1	08/23/2024 21:23	WG2349350
Naphthalene	U		0.00683	0.0175	1	08/23/2024 21:23	WG2349350
n-Propylbenzene	U		0.00133	0.00700	1	08/23/2024 21:23	WG2349350
Styrene	U		0.000321	0.0175	1	08/23/2024 21:23	WG2349350
1,1,1,2-Tetrachloroethane	U		0.00133	0.00350	1	08/23/2024 21:23	WG2349350
1,1,2,2-Tetrachloroethane	U		0.000973	0.00350	1	08/23/2024 21:23	WG2349350
1,1,2-Trichlorotrifluoroethane	U		0.00106	0.00350	1	08/23/2024 21:23	WG2349350
Tetrachloroethene	U		0.00125	0.00350	1	08/23/2024 21:23	WG2349350
Toluene	U		0.00182	0.00700	1	08/23/2024 21:23	WG2349350
1,2,3-Trichlorobenzene	U		0.0103	0.0175	1	08/23/2024 21:23	WG2349350
1,2,4-Trichlorobenzene	U		0.00616	0.0175	1	08/23/2024 21:23	WG2349350
1,1,1-Trichloroethane	U		0.00129	0.00350	1	08/23/2024 21:23	WG2349350
1,1,2-Trichloroethane	U		0.000836	0.00350	1	08/23/2024 21:23	WG2349350
Trichloroethene	U		0.000818	0.00140	1	08/23/2024 21:23	WG2349350
Trichlorofluoromethane	U		0.00116	0.00350	1	08/23/2024 21:23	WG2349350
1,2,3-Trichloropropane	U		0.00227	0.0175	1	08/23/2024 21:23	WG2349350
1,2,4-Trimethylbenzene	U		0.00221	0.00700	1	08/23/2024 21:23	WG2349350
1,2,3-Trimethylbenzene	U		0.00221	0.00700	1	08/23/2024 21:23	WG2349350
1,3,5-Trimethylbenzene	U		0.00280	0.00700	1	08/23/2024 21:23	WG2349350
Vinyl chloride	U	J3	0.00162	0.00350	1	08/23/2024 21:23	WG2349350
Xylenes, Total	U		0.00123	0.00910	1	08/23/2024 21:23	WG2349350
(S) Toluene-d8	105			75.0-131		08/23/2024 21:23	WG2349350
(S) 4-Bromofluorobenzene	95.6			67.0-138		08/23/2024 21:23	WG2349350
(S) 1,2-Dichloroethane-d4	96.7			70.0-130		08/23/2024 21:23	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.59	4.79	1	08/22/2024 15:16	WG2347099
Residual Range Organics (RRO)	U		3.99	12.0	1	08/22/2024 15:16	WG2347099
(S) o-Terphenyl	53.2			18.0-148		08/22/2024 15:16	WG2347099

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		0.0141	0.0407	1	08/23/2024 13:21	WG2348330
PCB 1221	U		0.0141	0.0407	1	08/23/2024 13:21	WG2348330
PCB 1232	U		0.0141	0.0407	1	08/23/2024 13:21	WG2348330
PCB 1242	U		0.0141	0.0407	1	08/23/2024 13:21	WG2348330
PCB 1248	U		0.00884	0.0204	1	08/23/2024 13:21	WG2348330
PCB 1254	U		0.00884	0.0204	1	08/23/2024 13:21	WG2348330
PCB 1260	U		0.00884	0.0204	1	08/23/2024 13:21	WG2348330
(S) Decachlorobiphenyl	89.2			10.0-135		08/23/2024 13:21	WG2348330
(S) Tetrachloro-m-xylene	90.9			10.0-139		08/23/2024 13:21	WG2348330

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00276	0.00719	1	08/23/2024 17:53	WG2348858
Acenaphthene	U		0.00250	0.00719	1	08/23/2024 17:53	WG2348858
Acenaphthylene	U		0.00259	0.00719	1	08/23/2024 17:53	WG2348858
Benzo(a)anthracene	U		0.00207	0.00719	1	08/23/2024 17:53	WG2348858
Benzo(a)pyrene	U		0.00214	0.00719	1	08/23/2024 17:53	WG2348858
Benzo(b)fluoranthene	U		0.00183	0.00719	1	08/23/2024 17:53	WG2348858
Benzo(g,h,i)perylene	U		0.00212	0.00719	1	08/23/2024 17:53	WG2348858
Benzo(k)fluoranthene	U		0.00258	0.00719	1	08/23/2024 17:53	WG2348858
Chrysene	U		0.00278	0.00719	1	08/23/2024 17:53	WG2348858
Dibenz(a,h)anthracene	U		0.00206	0.00719	1	08/23/2024 17:53	WG2348858
Fluoranthene	U		0.00272	0.00719	1	08/23/2024 17:53	WG2348858
Fluorene	U		0.00246	0.00719	1	08/23/2024 17:53	WG2348858
Indeno(1,2,3-cd)pyrene	U		0.00217	0.00719	1	08/23/2024 17:53	WG2348858
Naphthalene	U		0.00489	0.0240	1	08/23/2024 17:53	WG2348858
Phenanthrene	U		0.00277	0.00719	1	08/23/2024 17:53	WG2348858
Pyrene	U		0.00240	0.00719	1	08/23/2024 17:53	WG2348858
1-Methylnaphthalene	U		0.00538	0.0240	1	08/23/2024 17:53	WG2348858
2-Methylnaphthalene	U		0.00512	0.0240	1	08/23/2024 17:53	WG2348858
2-Chloronaphthalene	U		0.00558	0.0240	1	08/23/2024 17:53	WG2348858
(S) p-Terphenyl-d14	64.1			23.0-120		08/23/2024 17:53	WG2348858
(S) Nitrobenzene-d5	79.3			14.0-149		08/23/2024 17:53	WG2348858
(S) 2-Fluorobiphenyl	63.7			34.0-125		08/23/2024 17:53	WG2348858

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.6		1	08/19/2024 14:18	WG2345378

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0213	0.0473	1	08/19/2024 11:13	WG2345353

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.9		0.246	0.591	1	08/19/2024 18:56	WG2345444

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0510	0.0699	1.03	08/23/2024 21:42	WG2349350
Acrylonitrile	U		0.00505	0.0175	1.03	08/23/2024 21:42	WG2349350
Benzene	U		0.000653	0.00140	1.03	08/23/2024 21:42	WG2349350
Bromobenzene	U	J4	0.00126	0.0175	1.03	08/23/2024 21:42	WG2349350
Bromodichloromethane	U		0.00101	0.00350	1.03	08/23/2024 21:42	WG2349350
Bromoform	U		0.00164	0.0350	1.03	08/23/2024 21:42	WG2349350
Bromomethane	U		0.00276	0.0175	1.03	08/23/2024 21:42	WG2349350
n-Butylbenzene	U		0.00734	0.0175	1.03	08/23/2024 21:42	WG2349350
sec-Butylbenzene	U		0.00403	0.0175	1.03	08/23/2024 21:42	WG2349350
tert-Butylbenzene	U		0.00273	0.00699	1.03	08/23/2024 21:42	WG2349350
Carbon tetrachloride	U		0.00126	0.00699	1.03	08/23/2024 21:42	WG2349350
Chlorobenzene	U		0.000293	0.00350	1.03	08/23/2024 21:42	WG2349350
Chlorodibromomethane	U		0.000855	0.00350	1.03	08/23/2024 21:42	WG2349350
Chloroethane	U		0.00238	0.00699	1.03	08/23/2024 21:42	WG2349350
Chloroform	U		0.00144	0.00350	1.03	08/23/2024 21:42	WG2349350
Chloromethane	U	J3	0.00608	0.0175	1.03	08/23/2024 21:42	WG2349350
2-Chlorotoluene	U		0.00121	0.00350	1.03	08/23/2024 21:42	WG2349350
4-Chlorotoluene	U		0.000630	0.00699	1.03	08/23/2024 21:42	WG2349350
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0350	1.03	08/23/2024 21:42	WG2349350
1,2-Dibromoethane	U		0.000905	0.00350	1.03	08/23/2024 21:42	WG2349350
Dibromomethane	U		0.00105	0.00699	1.03	08/23/2024 21:42	WG2349350
1,2-Dichlorobenzene	U		0.000594	0.00699	1.03	08/23/2024 21:42	WG2349350
1,3-Dichlorobenzene	U		0.000839	0.00699	1.03	08/23/2024 21:42	WG2349350
1,4-Dichlorobenzene	U		0.000979	0.00699	1.03	08/23/2024 21:42	WG2349350
Dichlorodifluoromethane	U	J3	0.00225	0.00699	1.03	08/23/2024 21:42	WG2349350
1,1-Dichloroethane	U		0.000687	0.00350	1.03	08/23/2024 21:42	WG2349350
1,2-Dichloroethane	U		0.000907	0.00350	1.03	08/23/2024 21:42	WG2349350
1,1-Dichloroethene	U		0.000847	0.00350	1.03	08/23/2024 21:42	WG2349350
cis-1,2-Dichloroethene	U		0.00103	0.00350	1.03	08/23/2024 21:42	WG2349350
trans-1,2-Dichloroethene	U		0.00145	0.00699	1.03	08/23/2024 21:42	WG2349350
1,2-Dichloropropane	U		0.00198	0.00699	1.03	08/23/2024 21:42	WG2349350
1,1-Dichloropropene	U		0.00113	0.00350	1.03	08/23/2024 21:42	WG2349350
1,3-Dichloropropane	U		0.000700	0.00699	1.03	08/23/2024 21:42	WG2349350
cis-1,3-Dichloropropene	U		0.00106	0.00350	1.03	08/23/2024 21:42	WG2349350
trans-1,3-Dichloropropene	U		0.00159	0.00699	1.03	08/23/2024 21:42	WG2349350
2,2-Dichloropropane	U		0.00193	0.00350	1.03	08/23/2024 21:42	WG2349350
Di-isopropyl ether	U		0.000573	0.00140	1.03	08/23/2024 21:42	WG2349350
Ethylbenzene	U		0.00103	0.00350	1.03	08/23/2024 21:42	WG2349350
Hexachloro-1,3-butadiene	U		0.00839	0.0350	1.03	08/23/2024 21:42	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000594	0.00350	1.03	08/23/2024 21:42	WG2349350
p-Isopropyltoluene	U		0.00357	0.00699	1.03	08/23/2024 21:42	WG2349350
2-Butanone (MEK)	U		0.0888	0.140	1.03	08/23/2024 21:42	WG2349350
Methylene Chloride	U		0.00928	0.0350	1.03	08/23/2024 21:42	WG2349350
4-Methyl-2-pentanone (MIBK)	U		0.00319	0.0350	1.03	08/23/2024 21:42	WG2349350
Methyl tert-butyl ether	U		0.000490	0.00140	1.03	08/23/2024 21:42	WG2349350
Naphthalene	U		0.00683	0.0175	1.03	08/23/2024 21:42	WG2349350
n-Propylbenzene	U		0.00133	0.00699	1.03	08/23/2024 21:42	WG2349350
Styrene	U		0.000320	0.0175	1.03	08/23/2024 21:42	WG2349350
1,1,1,2-Tetrachloroethane	U		0.00132	0.00350	1.03	08/23/2024 21:42	WG2349350
1,1,2,2-Tetrachloroethane	U		0.000972	0.00350	1.03	08/23/2024 21:42	WG2349350
1,1,2-Trichlorotrifluoroethane	U		0.00105	0.00350	1.03	08/23/2024 21:42	WG2349350
Tetrachloroethene	U		0.00125	0.00350	1.03	08/23/2024 21:42	WG2349350
Toluene	U		0.00182	0.00699	1.03	08/23/2024 21:42	WG2349350
1,2,3-Trichlorobenzene	U		0.0102	0.0175	1.03	08/23/2024 21:42	WG2349350
1,2,4-Trichlorobenzene	U		0.00615	0.0175	1.03	08/23/2024 21:42	WG2349350
1,1,1-Trichloroethane	U		0.00129	0.00350	1.03	08/23/2024 21:42	WG2349350
1,1,2-Trichloroethane	U		0.000835	0.00350	1.03	08/23/2024 21:42	WG2349350
Trichloroethene	U		0.000817	0.00140	1.03	08/23/2024 21:42	WG2349350
Trichlorofluoromethane	U		0.00116	0.00350	1.03	08/23/2024 21:42	WG2349350
1,2,3-Trichloropropane	U		0.00227	0.0175	1.03	08/23/2024 21:42	WG2349350
1,2,4-Trimethylbenzene	U		0.00221	0.00699	1.03	08/23/2024 21:42	WG2349350
1,2,3-Trimethylbenzene	U		0.00221	0.00699	1.03	08/23/2024 21:42	WG2349350
1,3,5-Trimethylbenzene	U		0.00280	0.00699	1.03	08/23/2024 21:42	WG2349350
Vinyl chloride	U	J3	0.00162	0.00350	1.03	08/23/2024 21:42	WG2349350
Xylenes, Total	U		0.00123	0.00909	1.03	08/23/2024 21:42	WG2349350
(S) Toluene-d8	105			75.0-131		08/23/2024 21:42	WG2349350
(S) 4-Bromofluorobenzene	93.0			67.0-138		08/23/2024 21:42	WG2349350
(S) 1,2-Dichloroethane-d4	100			70.0-130		08/23/2024 21:42	WG2349350

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1.71	J	1.57	4.73	1	08/22/2024 15:30	WG2347099
Residual Range Organics (RRO)	U		3.93	11.8	1	08/22/2024 15:30	WG2347099
(S) o-Terphenyl	59.1			18.0-148		08/22/2024 15:30	WG2347099

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		0.0139	0.0402	1	08/23/2024 13:30	WG2348330
PCB 1221	U		0.0139	0.0402	1	08/23/2024 13:30	WG2348330
PCB 1232	U		0.0139	0.0402	1	08/23/2024 13:30	WG2348330
PCB 1242	U		0.0139	0.0402	1	08/23/2024 13:30	WG2348330
PCB 1248	U		0.00872	0.0201	1	08/23/2024 13:30	WG2348330
PCB 1254	U		0.00872	0.0201	1	08/23/2024 13:30	WG2348330
PCB 1260	U		0.00872	0.0201	1	08/23/2024 13:30	WG2348330
(S) Decachlorobiphenyl	85.5			10.0-135		08/23/2024 13:30	WG2348330
(S) Tetrachloro-m-xylene	87.4			10.0-139		08/23/2024 13:30	WG2348330

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00272	0.00709	1	08/23/2024 18:13	WG2348858
Acenaphthene	U		0.00247	0.00709	1	08/23/2024 18:13	WG2348858
Acenaphthylene	U		0.00255	0.00709	1	08/23/2024 18:13	WG2348858
Benzo(a)anthracene	U		0.00204	0.00709	1	08/23/2024 18:13	WG2348858
Benzo(a)pyrene	U		0.00211	0.00709	1	08/23/2024 18:13	WG2348858
Benzo(b)fluoranthene	U		0.00181	0.00709	1	08/23/2024 18:13	WG2348858
Benzo(g,h,i)perylene	U		0.00209	0.00709	1	08/23/2024 18:13	WG2348858
Benzo(k)fluoranthene	U		0.00254	0.00709	1	08/23/2024 18:13	WG2348858
Chrysene	U		0.00274	0.00709	1	08/23/2024 18:13	WG2348858
Dibenz(a,h)anthracene	U		0.00203	0.00709	1	08/23/2024 18:13	WG2348858
Fluoranthene	U		0.00268	0.00709	1	08/23/2024 18:13	WG2348858
Fluorene	U		0.00242	0.00709	1	08/23/2024 18:13	WG2348858
Indeno(1,2,3-cd)pyrene	U		0.00214	0.00709	1	08/23/2024 18:13	WG2348858
Naphthalene	U		0.00482	0.0236	1	08/23/2024 18:13	WG2348858
Phenanthrene	U		0.00273	0.00709	1	08/23/2024 18:13	WG2348858
Pyrene	U		0.00236	0.00709	1	08/23/2024 18:13	WG2348858
1-Methylnaphthalene	U		0.00531	0.0236	1	08/23/2024 18:13	WG2348858
2-Methylnaphthalene	U		0.00505	0.0236	1	08/23/2024 18:13	WG2348858
2-Chloronaphthalene	U		0.00551	0.0236	1	08/23/2024 18:13	WG2348858
(S) p-Terphenyl-d14	68.8			23.0-120		08/23/2024 18:13	WG2348858
(S) Nitrobenzene-d5	84.3			14.0-149		08/23/2024 18:13	WG2348858
(S) 2-Fluorobiphenyl	68.7			34.0-125		08/23/2024 18:13	WG2348858

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4109024-1 08/19/24 14:18

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

1Cp

2Tc

3Ss

L1768547-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1768547-01 08/19/24 14:18 • (DUP) R4109024-3 08/19/24 14:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.2	89.1	1	0.0430		10

4Cn

5Sr

6Qc

Laboratory Control Sample (LCS)

(LCS) R4109024-2 08/19/24 14:18

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

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4108607-1 08/19/24 10:09

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4108607-2 08/19/24 10:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.520	104	80.0-120	

L1767947-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1767947-05 08/19/24 10:14 • (MS) R4108607-4 08/19/24 10:19 • (MSD) R4108607-5 08/19/24 10:22

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.625	0.0289	0.739	0.749	114	115	1	75.0-125			1.35	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4108919-1 08/19/24 18:24

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4108919-2 08/19/24 18:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Lead	100	94.9	94.9	80.0-120	

L1768142-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1768142-32 08/19/24 18:27 • (MS) R4108919-5 08/19/24 18:32 • (MSD) R4108919-6 08/19/24 18:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Lead	100	12.4	106	105	94.0	93.1	1	75.0-125			0.929	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4111245-3 08/23/24 19:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4111245-3 08/23/24 19:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	0.000475	U	0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	91.6			67.0-138
(S) 1,2-Dichloroethane-d4	99.5			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4111245-1 08/23/24 17:58 • (LCSD) R4111245-2 08/23/24 18:57

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	0.625	0.788	0.723	126	116	10.0-160			8.60	31
Acrylonitrile	0.625	0.666	0.647	107	104	45.0-153			2.89	22
Benzene	0.125	0.118	0.110	94.4	88.0	70.0-123			7.02	20
Bromobenzene	0.125	0.157	0.136	126	109	73.0-121	J4		14.3	20
Bromodichloromethane	0.125	0.130	0.120	104	96.0	73.0-121			8.00	20

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

(LCS) R4111245-1 08/23/24 17:58 • (LCSD) R4111245-2 08/23/24 18:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.146	0.140	117	112	64.0-132			4.20	20
Bromomethane	0.125	0.120	0.0984	96.0	78.7	56.0-147			19.8	20
n-Butylbenzene	0.125	0.139	0.143	111	114	68.0-135			2.84	20
sec-Butylbenzene	0.125	0.153	0.146	122	117	74.0-130			4.68	20
tert-Butylbenzene	0.125	0.151	0.142	121	114	75.0-127			6.14	20
Carbon tetrachloride	0.125	0.127	0.122	102	97.6	66.0-128			4.02	20
Chlorobenzene	0.125	0.133	0.125	106	100	76.0-128			6.20	20
Chlorodibromomethane	0.125	0.140	0.133	112	106	74.0-127			5.13	20
Chloroethane	0.125	0.115	0.0962	92.0	77.0	61.0-134			17.8	20
Chloroform	0.125	0.116	0.114	92.8	91.2	72.0-123			1.74	20
Chloromethane	0.125	0.117	0.0768	93.6	61.4	51.0-138		J3	41.5	20
2-Chlorotoluene	0.125	0.152	0.131	122	105	75.0-124			14.8	20
4-Chlorotoluene	0.125	0.149	0.132	119	106	75.0-124			12.1	20
1,2-Dibromo-3-Chloropropane	0.125	0.130	0.127	104	102	59.0-130			2.33	20
1,2-Dibromoethane	0.125	0.138	0.130	110	104	74.0-128			5.97	20
Dibromomethane	0.125	0.130	0.118	104	94.4	75.0-122			9.68	20
1,2-Dichlorobenzene	0.125	0.143	0.126	114	101	76.0-124			12.6	20
1,3-Dichlorobenzene	0.125	0.148	0.134	118	107	76.0-125			9.93	20
1,4-Dichlorobenzene	0.125	0.144	0.132	115	106	77.0-121			8.70	20
Dichlorodifluoromethane	0.125	0.143	0.0824	114	65.9	43.0-156		J3	53.8	20
1,1-Dichloroethane	0.125	0.116	0.111	92.8	88.8	70.0-127			4.41	20
1,2-Dichloroethane	0.125	0.125	0.116	100	92.8	65.0-131			7.47	20
1,1-Dichloroethene	0.125	0.106	0.0930	84.8	74.4	65.0-131			13.1	20
cis-1,2-Dichloroethene	0.125	0.116	0.110	92.8	88.0	73.0-125			5.31	20
trans-1,2-Dichloroethene	0.125	0.109	0.104	87.2	83.2	71.0-125			4.69	20
1,2-Dichloropropane	0.125	0.129	0.114	103	91.2	74.0-125			12.3	20
1,1-Dichloropropene	0.125	0.118	0.114	94.4	91.2	73.0-125			3.45	20
1,3-Dichloropropane	0.125	0.140	0.125	112	100	80.0-125			11.3	20
cis-1,3-Dichloropropene	0.125	0.137	0.127	110	102	76.0-127			7.58	20
trans-1,3-Dichloropropene	0.125	0.142	0.139	114	111	73.0-127			2.14	20
2,2-Dichloropropane	0.125	0.0999	0.118	79.9	94.4	59.0-135			16.6	20
Di-isopropyl ether	0.125	0.123	0.113	98.4	90.4	60.0-136			8.47	20
Ethylbenzene	0.125	0.135	0.127	108	102	74.0-126			6.11	20
Hexachloro-1,3-butadiene	0.125	0.136	0.156	109	125	57.0-150			13.7	20
Isopropylbenzene	0.125	0.136	0.129	109	103	72.0-127			5.28	20
p-Isopropyltoluene	0.125	0.155	0.153	124	122	72.0-133			1.30	20
2-Butanone (MEK)	0.625	0.873	0.802	140	128	30.0-160			8.48	24
Methylene Chloride	0.125	0.122	0.105	97.6	84.0	68.0-123			15.0	20
4-Methyl-2-pentanone (MIBK)	0.625	0.769	0.708	123	113	56.0-143			8.26	20
Methyl tert-butyl ether	0.125	0.125	0.115	100	92.0	66.0-132			8.33	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4111245-1 08/23/24 17:58 • (LCSD) R4111245-2 08/23/24 18:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.117	0.109	93.6	87.2	59.0-130			7.08	20
n-Propylbenzene	0.125	0.153	0.141	122	113	74.0-126			8.16	20
Styrene	0.125	0.138	0.126	110	101	72.0-127			9.09	20
1,1,1,2-Tetrachloroethane	0.125	0.132	0.128	106	102	74.0-129			3.08	20
1,1,2,2-Tetrachloroethane	0.125	0.124	0.124	99.2	99.2	68.0-128			0.000	20
1,1,2-Trichlorotrifluoroethane	0.125	0.102	0.0954	81.6	76.3	61.0-139			6.69	20
Tetrachloroethene	0.125	0.137	0.130	110	104	70.0-136			5.24	20
Toluene	0.125	0.130	0.125	104	100	75.0-121			3.92	20
1,2,3-Trichlorobenzene	0.125	0.157	0.148	126	118	59.0-139			5.90	20
1,2,4-Trichlorobenzene	0.125	0.142	0.138	114	110	62.0-137			2.86	20
1,1,1-Trichloroethane	0.125	0.129	0.121	103	96.8	69.0-126			6.40	20
1,1,2-Trichloroethane	0.125	0.141	0.132	113	106	78.0-123			6.59	20
Trichloroethene	0.125	0.130	0.116	104	92.8	76.0-126			11.4	20
Trichlorofluoromethane	0.125	0.108	0.100	86.4	80.0	61.0-142			7.69	20
1,2,3-Trichloropropane	0.125	0.149	0.135	119	108	67.0-129			9.86	20
1,2,4-Trimethylbenzene	0.125	0.146	0.135	117	108	70.0-126			7.83	20
1,2,3-Trimethylbenzene	0.125	0.143	0.132	114	106	74.0-124			8.00	20
1,3,5-Trimethylbenzene	0.125	0.146	0.136	117	109	73.0-127			7.09	20
Vinyl chloride	0.125	0.124	0.0943	99.2	75.4	63.0-134		J3	27.2	20
Xylenes, Total	0.375	0.401	0.366	107	97.6	72.0-127			9.13	20
(S) Toluene-d8				105	104	75.0-131				
(S) 4-Bromofluorobenzene				91.6	92.5	67.0-138				
(S) 1,2-Dichloroethane-d4				103	102	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4110534-1 08/22/24 13:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	77.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4110534-2 08/22/24 13:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	38.1	76.2	50.0-150	
(S) o-Terphenyl			80.0	18.0-148	

L1768558-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1768558-03 08/22/24 14:37 • (MS) R4110534-3 08/22/24 14:50 • (MSD) R4110534-4 08/22/24 15:03

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 %
Diesel Range Organics (DRO)	58.9	5.69	44.8	51.3	66.3	78.1	1	50.0-150			13.5	20
(S) o-Terphenyl					59.0	59.7		18.0-148				

Sample Narrative:

OS: Sample resembles laboratory standard for Hydraulic Oil.

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4111192-1 08/23/24 12:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	98.5			10.0-135
(S) Tetrachloro-m-xylene	97.9			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4111192-2 08/23/24 12:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.154	92.2	36.0-141	
PCB 1260	0.167	0.160	95.8	37.0-145	
(S) Decachlorobiphenyl			100	10.0-135	
(S) Tetrachloro-m-xylene			98.2	10.0-139	

L1769347-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1769347-03 08/23/24 18:19 • (MS) R4111192-3 08/23/24 18:28 • (MSD) R4111192-4 08/23/24 18:37

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 %
PCB 1016	0.170	U	2.32	2.29	1370	1350	1	10.0-160	E J5	E J5	1.36	37
PCB 1260	0.170	U	3.54	3.91	2090	2300	1	10.0-160	E J5	E J5	9.85	38
(S) Decachlorobiphenyl					77.7	75.2		10.0-135				
(S) Tetrachloro-m-xylene					93.4	90.0		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) R4111292-2 08/23/24 13:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	80.1			23.0-120
(S) Nitrobenzene-d5	96.2			14.0-149
(S) 2-Fluorobiphenyl	78.9			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4111292-1 08/23/24 13:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0657	82.1	50.0-126	
Acenaphthene	0.0800	0.0658	82.3	50.0-120	
Acenaphthylene	0.0800	0.0650	81.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0667	83.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0608	76.0	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0786	98.2	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0736	92.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0712	89.0	49.0-125	
Chrysene	0.0800	0.0698	87.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0758	94.8	47.0-125	
Fluoranthene	0.0800	0.0706	88.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4111292-1 08/23/24 13:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0705	88.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0755	94.4	46.0-125	
Naphthalene	0.0800	0.0649	81.1	50.0-120	
Phenanthrene	0.0800	0.0687	85.9	47.0-120	
Pyrene	0.0800	0.0674	84.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0693	86.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0670	83.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0662	82.8	50.0-120	
(S) p-Terphenyl-d14			82.1	23.0-120	
(S) Nitrobenzene-d5			101	14.0-149	
(S) 2-Fluorobiphenyl			81.9	34.0-125	

L1768153-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1768153-12 08/23/24 21:28 • (MS) R4111292-3 08/23/24 21:47 • (MSD) R4111292-4 08/23/24 22:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	0.00324	0.0580	0.0662	70.2	80.3	1	10.0-145			13.2	30
Acenaphthene	0.0780	0.00251	0.0607	0.0685	74.6	84.2	1	14.0-127			12.1	27
Acenaphthylene	0.0780	U	0.0556	0.0622	71.3	79.3	1	21.0-124			11.2	25
Benzo(a)anthracene	0.0780	0.00384	0.0606	0.0690	72.8	83.1	1	10.0-139			13.0	30
Benzo(a)pyrene	0.0780	0.0278	0.0831	0.0983	70.9	89.9	1	10.0-141			16.8	31
Benzo(b)fluoranthene	0.0780	0.0368	0.0990	0.115	79.7	99.7	1	10.0-140			15.0	36
Benzo(g,h,i)perylene	0.0780	0.0390	0.101	0.121	79.5	105	1	10.0-140			18.0	33
Benzo(k)fluoranthene	0.0780	0.0120	0.0703	0.0840	74.7	91.8	1	10.0-137			17.8	31
Chrysene	0.0780	0.0137	0.0787	0.0906	83.3	98.1	1	10.0-145			14.1	30
Dibenz(a,h)anthracene	0.0780	0.00857	0.0737	0.0861	83.5	98.9	1	10.0-132			15.5	31
Fluoranthene	0.0780	0.00519	0.0649	0.0742	76.6	88.0	1	10.0-153			13.4	33
Fluorene	0.0780	U	0.0638	0.0710	81.8	90.6	1	11.0-130			10.7	29
Indeno(1,2,3-cd)pyrene	0.0780	0.0422	0.102	0.123	76.7	103	1	10.0-137			18.7	32
Naphthalene	0.0780	U	0.0573	0.0649	73.5	82.8	1	10.0-135			12.4	27
Phenanthrene	0.0780	0.0116	0.0701	0.0810	75.0	88.5	1	10.0-144			14.4	31
Pyrene	0.0780	0.00901	0.0683	0.0785	76.0	88.6	1	10.0-148			13.9	35
1-Methylnaphthalene	0.0780	U	0.0599	0.0685	76.8	87.4	1	10.0-142			13.4	28
2-Methylnaphthalene	0.0780	U	0.0577	0.0663	74.0	84.6	1	10.0-137			13.9	28
2-Chloronaphthalene	0.0780	U	0.0595	0.0671	76.3	85.6	1	29.0-120			12.0	24
(S) p-Terphenyl-d14					70.0	76.0		23.0-120				
(S) Nitrobenzene-d5					86.1	92.7		14.0-149				
(S) 2-Fluorobiphenyl					70.6	76.0		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

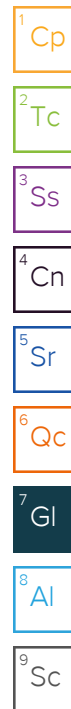
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

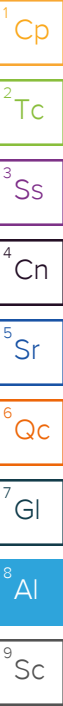
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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: Northwest Geotech, Inc. -Wilsonville, OR 9120 SW Pioneer Court		Billing Information: Brett Hui 9120 SW Pioneer Ct., Ste. B Wilsonville, OR 97070 <i>dhannant@NWGeotech.com</i>		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ____ of ____		
Report to: Steven Day <i>David Hannant</i>		Email To: sdlay@rmacompanies.com <i>dhannant@rmacompanies.com</i>														 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		
Project Description: Waterfront Soils Removal		City/State Collected: Camas, WA		Please Circle: PT MT CT ET												SDG # 1768538 A022		
Phone: 503-682-1880		Client Project #		Lab Project # NWGEOTOR-CAMAS												Acctnum: NWGEOTOR Template: T257763 Prelogin: P1093161 PM: 110 - Brian Ford PB:		
Collected by (print): <i>David Hannant</i>		Site/Facility ID # Building B		P.O. #												Shipped Via:		
Collected by (signature): <i>David Hannant</i>		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #												Remarks Sample # (lab only)		
Immediately Packed on Ice N ___ Y <u>X</u>		Date Results Needed		No. of Cntrs														
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time												
B-F-E-16-9+0@15-15.5		Camp	SS	15-15.5	8/15/24	13:20	3	X	X	X	X	X					-01	
B-F-A-25-9+0@13.5-14		Camp	SS	13.5-14	8/15/24	14:00	3	X	X	X	X	X					-02	
B-F-A-45-90-9@13.5-14		Camp	SS	13.5-14	8/15/24	14:30	3	X	X	X	X	X					-03	
B-F-A-16-B-8@12.5-13		Camp	SS	12.5-13	8/15/24	15:00	3	X	X	X	X	X					-04	
B-F-B.5-E.5-8-9@12.5-13		Camp	SS	12.5-13	8/15/24	15:45	3	X	X	X	X	X					-05	
			SS															
			SS															
			SS															
			SS															
			SS															
			SS															

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

Remarks:

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **7914 8195 4636**

Relinquished by : (Signature)
David Hannant

Date: **8/15/24** Time: **16:45**

Relinquished by : (Signature)

Date: Time: Received by: (Signature)

Relinquished by : (Signature)

Date: Time: Received for lab by: (Signature)

Trip Blank Received: Yes / No
2 HCL / MeOH
 TBR

Temp: **14.3** °C Bottles Received: **7**

Date: **8/16/24** Time: **9:00**

Hold: Condition: **NCF / OK**

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☒ 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

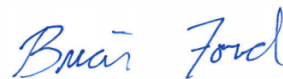
Preservation Correct/Checked: ☒ Y ☒ N

RAD Screen <0.5 mR/hr: ☒ Y ☒ N

Earth Engineers - Camas, WA

Sample Delivery Group: L1772512
Samples Received: 08/29/2024
Project Number: 10-240350-0
Description: Waterfront Soils Removal
Site: BUILDING B
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B_W_E-9_9 @ 15 L1772512-01	6
B_W_C-3 @ 14 L1772512-02	9
B_W_A+O_9 @ 13.5 L1772512-03	12
B_W_A-40_9 @ 12 L1772512-04	15
B_F_A-0-20_8.5 @ 15 L1772512-05	18
B_F_A-20-40_8.5 @ 15 L1772512-06	21
Qc: Quality Control Summary	24
Total Solids by Method 2540 G-2011	24
Mercury by Method 7471B	26
Metals (ICP) by Method 6010D	27
Volatile Organic Compounds (GC/MS) by Method 8260D	28
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	36
Polychlorinated Biphenyls (GC) by Method 8082 A	37
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	38
Gl: Glossary of Terms	40
Al: Accreditations & Locations	41
Sc: Sample Chain of Custody	42

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

B_W_E-9_9 @ 15 L1772512-01 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 10:45

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353338	1	08/30/24 07:19	08/30/24 07:25	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:28	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:05	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2353943	1.03	08/28/24 10:45	09/01/24 12:49	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	1	08/30/24 08:32	08/31/24 13:24	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 23:08	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 19:34	JCH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

B_W_C-3 @ 14 L1772512-02 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 11:00

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353339	1	08/30/24 07:28	08/30/24 07:34	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:31	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:06	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2353943	1.04	08/28/24 11:00	09/01/24 13:08	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	1	08/30/24 08:32	08/31/24 13:51	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 22:06	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 19:53	JCH	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

B_W_A+O_9 @ 13.5 L1772512-03 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 11:30

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353339	1	08/30/24 07:28	08/30/24 07:34	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:38	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:08	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2355185	1.29	08/28/24 11:30	09/03/24 13:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	20	08/30/24 08:32	08/31/24 14:45	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 23:18	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 20:13	JCH	Mt. Juliet, TN

B_W_A-40_9 @ 12 L1772512-04 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 12:00

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353339	1	08/30/24 07:28	08/30/24 07:34	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:41	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:10	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2355185	1.07	08/28/24 12:00	09/03/24 13:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	1	08/30/24 08:32	08/31/24 14:04	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 23:29	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 20:32	JCH	Mt. Juliet, TN

B_F_A-0-20_8.5 @ 15 L1772512-05 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 16:00

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353339	1	08/30/24 07:28	08/30/24 07:34	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:43	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:15	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2353943	1	08/28/24 16:00	09/01/24 13:27	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

B_F_A-0-20_8.5 @ 15 L1772512-05 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 16:00

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	1	08/30/24 08:32	08/31/24 14:04	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 23:39	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 20:52	JCH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

B_F_A-20-40_8.5 @ 15 L1772512-06 Solid

Collected by
Matt Enos

Collected date/time
08/28/24 16:10

Received date/time
08/29/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2353339	1	08/30/24 07:28	08/30/24 07:34	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2353412	1	08/30/24 12:01	08/31/24 11:46	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2353588	1	08/30/24 11:01	08/30/24 14:16	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2353943	1	08/28/24 16:10	09/01/24 13:46	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2353374	1	08/30/24 08:32	08/31/24 13:37	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2353581	1	09/02/24 09:03	09/02/24 23:49	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2353580	1	08/31/24 01:33	08/31/24 21:51	JCH	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.8		1	08/30/2024 07:25	WG2353338

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0215	0.0477	1	08/31/2024 11:28	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	6.04		0.248	0.597	1	08/30/2024 14:05	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0532	J J4	0.0519	0.0711	1.03	09/01/2024 12:49	WG2353943
Acrylonitrile	U		0.00514	0.0178	1.03	09/01/2024 12:49	WG2353943
Benzene	U		0.000664	0.00142	1.03	09/01/2024 12:49	WG2353943
Bromobenzene	U		0.00128	0.0178	1.03	09/01/2024 12:49	WG2353943
Bromodichloromethane	U		0.00103	0.00356	1.03	09/01/2024 12:49	WG2353943
Bromoform	U		0.00167	0.0356	1.03	09/01/2024 12:49	WG2353943
Bromomethane	U		0.00280	0.0178	1.03	09/01/2024 12:49	WG2353943
n-Butylbenzene	U		0.00747	0.0178	1.03	09/01/2024 12:49	WG2353943
sec-Butylbenzene	U		0.00410	0.0178	1.03	09/01/2024 12:49	WG2353943
tert-Butylbenzene	U		0.00278	0.00711	1.03	09/01/2024 12:49	WG2353943
Carbon tetrachloride	U		0.00128	0.00711	1.03	09/01/2024 12:49	WG2353943
Chlorobenzene	U		0.000298	0.00356	1.03	09/01/2024 12:49	WG2353943
Chlorodibromomethane	U		0.000870	0.00356	1.03	09/01/2024 12:49	WG2353943
Chloroethane	U		0.00242	0.00711	1.03	09/01/2024 12:49	WG2353943
Chloroform	U		0.00146	0.00356	1.03	09/01/2024 12:49	WG2353943
Chloromethane	U		0.00619	0.0178	1.03	09/01/2024 12:49	WG2353943
2-Chlorotoluene	U		0.00123	0.00356	1.03	09/01/2024 12:49	WG2353943
4-Chlorotoluene	U		0.000641	0.00711	1.03	09/01/2024 12:49	WG2353943
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0356	1.03	09/01/2024 12:49	WG2353943
1,2-Dibromoethane	U		0.000921	0.00356	1.03	09/01/2024 12:49	WG2353943
Dibromomethane	U		0.00107	0.00711	1.03	09/01/2024 12:49	WG2353943
1,2-Dichlorobenzene	U		0.000605	0.00711	1.03	09/01/2024 12:49	WG2353943
1,3-Dichlorobenzene	U		0.000854	0.00711	1.03	09/01/2024 12:49	WG2353943
1,4-Dichlorobenzene	U		0.000996	0.00711	1.03	09/01/2024 12:49	WG2353943
Dichlorodifluoromethane	U		0.00229	0.00711	1.03	09/01/2024 12:49	WG2353943
1,1-Dichloroethane	U		0.000699	0.00356	1.03	09/01/2024 12:49	WG2353943
1,2-Dichloroethane	U		0.000923	0.00356	1.03	09/01/2024 12:49	WG2353943
1,1-Dichloroethene	U		0.000862	0.00356	1.03	09/01/2024 12:49	WG2353943
cis-1,2-Dichloroethene	U		0.00104	0.00356	1.03	09/01/2024 12:49	WG2353943
trans-1,2-Dichloroethene	U		0.00148	0.00711	1.03	09/01/2024 12:49	WG2353943
1,2-Dichloropropane	U		0.00202	0.00711	1.03	09/01/2024 12:49	WG2353943
1,1-Dichloropropene	U		0.00115	0.00356	1.03	09/01/2024 12:49	WG2353943
1,3-Dichloropropane	U		0.000713	0.00711	1.03	09/01/2024 12:49	WG2353943
cis-1,3-Dichloropropene	U		0.00108	0.00356	1.03	09/01/2024 12:49	WG2353943
trans-1,3-Dichloropropene	U		0.00162	0.00711	1.03	09/01/2024 12:49	WG2353943
2,2-Dichloropropane	U		0.00196	0.00356	1.03	09/01/2024 12:49	WG2353943
Di-isopropyl ether	U		0.000583	0.00142	1.03	09/01/2024 12:49	WG2353943
Ethylbenzene	U		0.00105	0.00356	1.03	09/01/2024 12:49	WG2353943
Hexachloro-1,3-butadiene	U		0.00854	0.0356	1.03	09/01/2024 12:49	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000605	0.00356	1.03	09/01/2024 12:49	WG2353943
p-Isopropyltoluene	U		0.00363	0.00711	1.03	09/01/2024 12:49	WG2353943
2-Butanone (MEK)	U		0.0903	0.142	1.03	09/01/2024 12:49	WG2353943
Methylene Chloride	U		0.00945	0.0356	1.03	09/01/2024 12:49	WG2353943
4-Methyl-2-pentanone (MIBK)	U		0.00325	0.0356	1.03	09/01/2024 12:49	WG2353943
Methyl tert-butyl ether	U		0.000499	0.00142	1.03	09/01/2024 12:49	WG2353943
Naphthalene	U		0.00695	0.0178	1.03	09/01/2024 12:49	WG2353943
n-Propylbenzene	U		0.00135	0.00711	1.03	09/01/2024 12:49	WG2353943
Styrene	U	C3	0.000326	0.0178	1.03	09/01/2024 12:49	WG2353943
1,1,1,2-Tetrachloroethane	U		0.00135	0.00356	1.03	09/01/2024 12:49	WG2353943
1,1,2,2-Tetrachloroethane	U		0.000989	0.00356	1.03	09/01/2024 12:49	WG2353943
1,1,2-Trichlorotrifluoroethane	U	C3	0.00107	0.00356	1.03	09/01/2024 12:49	WG2353943
Tetrachloroethene	U		0.00128	0.00356	1.03	09/01/2024 12:49	WG2353943
Toluene	U		0.00185	0.00711	1.03	09/01/2024 12:49	WG2353943
1,2,3-Trichlorobenzene	U		0.0104	0.0178	1.03	09/01/2024 12:49	WG2353943
1,2,4-Trichlorobenzene	U		0.00626	0.0178	1.03	09/01/2024 12:49	WG2353943
1,1,1-Trichloroethane	U		0.00131	0.00356	1.03	09/01/2024 12:49	WG2353943
1,1,2-Trichloroethane	U		0.000850	0.00356	1.03	09/01/2024 12:49	WG2353943
Trichloroethene	U		0.000832	0.00142	1.03	09/01/2024 12:49	WG2353943
Trichlorofluoromethane	U		0.00118	0.00356	1.03	09/01/2024 12:49	WG2353943
1,2,3-Trichloropropane	U		0.00231	0.0178	1.03	09/01/2024 12:49	WG2353943
1,2,4-Trimethylbenzene	U		0.00225	0.00711	1.03	09/01/2024 12:49	WG2353943
1,2,3-Trimethylbenzene	U		0.00225	0.00711	1.03	09/01/2024 12:49	WG2353943
1,3,5-Trimethylbenzene	U		0.00285	0.00711	1.03	09/01/2024 12:49	WG2353943
Vinyl chloride	U		0.00164	0.00356	1.03	09/01/2024 12:49	WG2353943
Xylenes, Total	U		0.00125	0.00926	1.03	09/01/2024 12:49	WG2353943
(S) Toluene-d8	97.8			75.0-131		09/01/2024 12:49	WG2353943
(S) 4-Bromofluorobenzene	105			67.0-138		09/01/2024 12:49	WG2353943
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		09/01/2024 12:49	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.59	4.77	1	08/31/2024 13:24	WG2353374
Residual Range Organics (RRO)	U		3.97	11.9	1	08/31/2024 13:24	WG2353374
(S) o-Terphenyl	55.2			18.0-148		08/31/2024 13:24	WG2353374

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		0.0141	0.0406	1	09/02/2024 23:08	WG2353581
PCB 1221	U		0.0141	0.0406	1	09/02/2024 23:08	WG2353581
PCB 1232	U		0.0141	0.0406	1	09/02/2024 23:08	WG2353581
PCB 1242	U		0.0141	0.0406	1	09/02/2024 23:08	WG2353581
PCB 1248	U		0.00881	0.0203	1	09/02/2024 23:08	WG2353581
PCB 1254	U		0.00881	0.0203	1	09/02/2024 23:08	WG2353581
PCB 1260	U		0.00881	0.0203	1	09/02/2024 23:08	WG2353581
(S) Decachlorobiphenyl	48.1			10.0-135		09/02/2024 23:08	WG2353581
(S) Tetrachloro-m-xylene	53.5			10.0-139		09/02/2024 23:08	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00274	0.00716	1	08/31/2024 19:34	WG2353580
Acenaphthene	U		0.00249	0.00716	1	08/31/2024 19:34	WG2353580
Acenaphthylene	U		0.00258	0.00716	1	08/31/2024 19:34	WG2353580
Benzo(a)anthracene	U		0.00206	0.00716	1	08/31/2024 19:34	WG2353580
Benzo(a)pyrene	U		0.00214	0.00716	1	08/31/2024 19:34	WG2353580
Benzo(b)fluoranthene	U		0.00183	0.00716	1	08/31/2024 19:34	WG2353580
Benzo(g,h,i)perylene	U		0.00211	0.00716	1	08/31/2024 19:34	WG2353580
Benzo(k)fluoranthene	U		0.00257	0.00716	1	08/31/2024 19:34	WG2353580
Chrysene	U		0.00277	0.00716	1	08/31/2024 19:34	WG2353580
Dibenz(a,h)anthracene	U		0.00205	0.00716	1	08/31/2024 19:34	WG2353580
Fluoranthene	U		0.00271	0.00716	1	08/31/2024 19:34	WG2353580
Fluorene	U		0.00245	0.00716	1	08/31/2024 19:34	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00216	0.00716	1	08/31/2024 19:34	WG2353580
Naphthalene	U		0.00487	0.0239	1	08/31/2024 19:34	WG2353580
Phenanthrene	U		0.00276	0.00716	1	08/31/2024 19:34	WG2353580
Pyrene	U		0.00239	0.00716	1	08/31/2024 19:34	WG2353580
1-Methylnaphthalene	U		0.00536	0.0239	1	08/31/2024 19:34	WG2353580
2-Methylnaphthalene	U		0.00509	0.0239	1	08/31/2024 19:34	WG2353580
2-Chloronaphthalene	U		0.00556	0.0239	1	08/31/2024 19:34	WG2353580
(S) p-Terphenyl-d14	55.1			23.0-120		08/31/2024 19:34	WG2353580
(S) Nitrobenzene-d5	49.9			14.0-149		08/31/2024 19:34	WG2353580
(S) 2-Fluorobiphenyl	43.5			34.0-125		08/31/2024 19:34	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.8		1	08/30/2024 07:34	WG2353339

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0207	0.0461	1	08/31/2024 11:31	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	5.22		0.240	0.576	1	08/30/2024 14:06	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0493	0.0675	1.04	09/01/2024 13:08	WG2353943
Acrylonitrile	U		0.00487	0.0169	1.04	09/01/2024 13:08	WG2353943
Benzene	U		0.000631	0.00135	1.04	09/01/2024 13:08	WG2353943
Bromobenzene	U		0.00121	0.0169	1.04	09/01/2024 13:08	WG2353943
Bromodichloromethane	U		0.000978	0.00337	1.04	09/01/2024 13:08	WG2353943
Bromoform	U		0.00158	0.0337	1.04	09/01/2024 13:08	WG2353943
Bromomethane	U		0.00266	0.0169	1.04	09/01/2024 13:08	WG2353943
n-Butylbenzene	U		0.00708	0.0169	1.04	09/01/2024 13:08	WG2353943
sec-Butylbenzene	U		0.00389	0.0169	1.04	09/01/2024 13:08	WG2353943
tert-Butylbenzene	U		0.00263	0.00675	1.04	09/01/2024 13:08	WG2353943
Carbon tetrachloride	U		0.00121	0.00675	1.04	09/01/2024 13:08	WG2353943
Chlorobenzene	U		0.000283	0.00337	1.04	09/01/2024 13:08	WG2353943
Chlorodibromomethane	U		0.000825	0.00337	1.04	09/01/2024 13:08	WG2353943
Chloroethane	U		0.00230	0.00675	1.04	09/01/2024 13:08	WG2353943
Chloroform	U		0.00139	0.00337	1.04	09/01/2024 13:08	WG2353943
Chloromethane	U		0.00586	0.0169	1.04	09/01/2024 13:08	WG2353943
2-Chlorotoluene	U		0.00117	0.00337	1.04	09/01/2024 13:08	WG2353943
4-Chlorotoluene	U		0.000607	0.00675	1.04	09/01/2024 13:08	WG2353943
1,2-Dibromo-3-Chloropropane	U		0.00527	0.0337	1.04	09/01/2024 13:08	WG2353943
1,2-Dibromoethane	U		0.000875	0.00337	1.04	09/01/2024 13:08	WG2353943
Dibromomethane	U		0.00101	0.00675	1.04	09/01/2024 13:08	WG2353943
1,2-Dichlorobenzene	U		0.000574	0.00675	1.04	09/01/2024 13:08	WG2353943
1,3-Dichlorobenzene	U		0.000810	0.00675	1.04	09/01/2024 13:08	WG2353943
1,4-Dichlorobenzene	U		0.000945	0.00675	1.04	09/01/2024 13:08	WG2353943
Dichlorodifluoromethane	U		0.00217	0.00675	1.04	09/01/2024 13:08	WG2353943
1,1-Dichloroethane	U		0.000663	0.00337	1.04	09/01/2024 13:08	WG2353943
1,2-Dichloroethane	U		0.000876	0.00337	1.04	09/01/2024 13:08	WG2353943
1,1-Dichloroethene	U		0.000817	0.00337	1.04	09/01/2024 13:08	WG2353943
cis-1,2-Dichloroethene	U		0.000990	0.00337	1.04	09/01/2024 13:08	WG2353943
trans-1,2-Dichloroethene	U		0.00140	0.00675	1.04	09/01/2024 13:08	WG2353943
1,2-Dichloropropane	U		0.00192	0.00675	1.04	09/01/2024 13:08	WG2353943
1,1-Dichloropropene	U		0.00109	0.00337	1.04	09/01/2024 13:08	WG2353943
1,3-Dichloropropane	U		0.000676	0.00675	1.04	09/01/2024 13:08	WG2353943
cis-1,3-Dichloropropene	U		0.00102	0.00337	1.04	09/01/2024 13:08	WG2353943
trans-1,3-Dichloropropene	U		0.00154	0.00675	1.04	09/01/2024 13:08	WG2353943
2,2-Dichloropropane	U		0.00187	0.00337	1.04	09/01/2024 13:08	WG2353943
Di-isopropyl ether	U		0.000553	0.00135	1.04	09/01/2024 13:08	WG2353943
Ethylbenzene	U		0.000994	0.00337	1.04	09/01/2024 13:08	WG2353943
Hexachloro-1,3-butadiene	U		0.00810	0.0337	1.04	09/01/2024 13:08	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000574	0.00337	1.04	09/01/2024 13:08	WG2353943
p-Isopropyltoluene	U		0.00344	0.00675	1.04	09/01/2024 13:08	WG2353943
2-Butanone (MEK)	U		0.0856	0.135	1.04	09/01/2024 13:08	WG2353943
Methylene Chloride	U		0.00897	0.0337	1.04	09/01/2024 13:08	WG2353943
4-Methyl-2-pentanone (MIBK)	U		0.00308	0.0337	1.04	09/01/2024 13:08	WG2353943
Methyl tert-butyl ether	U		0.000472	0.00135	1.04	09/01/2024 13:08	WG2353943
Naphthalene	U		0.00659	0.0169	1.04	09/01/2024 13:08	WG2353943
n-Propylbenzene	U		0.00128	0.00675	1.04	09/01/2024 13:08	WG2353943
Styrene	U	C3	0.000309	0.0169	1.04	09/01/2024 13:08	WG2353943
1,1,1,2-Tetrachloroethane	U		0.00128	0.00337	1.04	09/01/2024 13:08	WG2353943
1,1,2,2-Tetrachloroethane	U		0.000938	0.00337	1.04	09/01/2024 13:08	WG2353943
1,1,2-Trichlorotrifluoroethane	U	C3	0.00102	0.00337	1.04	09/01/2024 13:08	WG2353943
Tetrachloroethene	U		0.00121	0.00337	1.04	09/01/2024 13:08	WG2353943
Toluene	U		0.00175	0.00675	1.04	09/01/2024 13:08	WG2353943
1,2,3-Trichlorobenzene	U		0.00989	0.0169	1.04	09/01/2024 13:08	WG2353943
1,2,4-Trichlorobenzene	U		0.00594	0.0169	1.04	09/01/2024 13:08	WG2353943
1,1,1-Trichloroethane	U		0.00125	0.00337	1.04	09/01/2024 13:08	WG2353943
1,1,2-Trichloroethane	U		0.000806	0.00337	1.04	09/01/2024 13:08	WG2353943
Trichloroethene	U		0.000788	0.00135	1.04	09/01/2024 13:08	WG2353943
Trichlorofluoromethane	U		0.00112	0.00337	1.04	09/01/2024 13:08	WG2353943
1,2,3-Trichloropropane	U		0.00218	0.0169	1.04	09/01/2024 13:08	WG2353943
1,2,4-Trimethylbenzene	U		0.00213	0.00675	1.04	09/01/2024 13:08	WG2353943
1,2,3-Trimethylbenzene	U		0.00213	0.00675	1.04	09/01/2024 13:08	WG2353943
1,3,5-Trimethylbenzene	U		0.00270	0.00675	1.04	09/01/2024 13:08	WG2353943
Vinyl chloride	U		0.00157	0.00337	1.04	09/01/2024 13:08	WG2353943
Xylenes, Total	U		0.00119	0.00877	1.04	09/01/2024 13:08	WG2353943
(S) Toluene-d8	98.4			75.0-131		09/01/2024 13:08	WG2353943
(S) 4-Bromofluorobenzene	104			67.0-138		09/01/2024 13:08	WG2353943
(S) 1,2-Dichloroethane-d4	87.9			70.0-130		09/01/2024 13:08	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.53	4.61	1	08/31/2024 13:51	WG2353374
Residual Range Organics (RRO)	U		3.83	11.5	1	08/31/2024 13:51	WG2353374
(S) o-Terphenyl	58.2			18.0-148		08/31/2024 13:51	WG2353374

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		0.0136	0.0392	1	09/02/2024 22:06	WG2353581
PCB 1221	U		0.0136	0.0392	1	09/02/2024 22:06	WG2353581
PCB 1232	U		0.0136	0.0392	1	09/02/2024 22:06	WG2353581
PCB 1242	U		0.0136	0.0392	1	09/02/2024 22:06	WG2353581
PCB 1248	U		0.00850	0.0196	1	09/02/2024 22:06	WG2353581
PCB 1254	U		0.00850	0.0196	1	09/02/2024 22:06	WG2353581
PCB 1260	U		0.00850	0.0196	1	09/02/2024 22:06	WG2353581
(S) Decachlorobiphenyl	72.6			10.0-135		09/02/2024 22:06	WG2353581
(S) Tetrachloro-m-xylene	80.1			10.0-139		09/02/2024 22:06	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00265	0.00691	1	08/31/2024 19:53	WG2353580
Acenaphthene	U		0.00241	0.00691	1	08/31/2024 19:53	WG2353580
Acenaphthylene	U		0.00249	0.00691	1	08/31/2024 19:53	WG2353580
Benzo(a)anthracene	U		0.00199	0.00691	1	08/31/2024 19:53	WG2353580
Benzo(a)pyrene	U		0.00206	0.00691	1	08/31/2024 19:53	WG2353580
Benzo(b)fluoranthene	U		0.00176	0.00691	1	08/31/2024 19:53	WG2353580
Benzo(g,h,i)perylene	U		0.00204	0.00691	1	08/31/2024 19:53	WG2353580
Benzo(k)fluoranthene	U		0.00248	0.00691	1	08/31/2024 19:53	WG2353580
Chrysene	U		0.00267	0.00691	1	08/31/2024 19:53	WG2353580
Dibenz(a,h)anthracene	U		0.00198	0.00691	1	08/31/2024 19:53	WG2353580
Fluoranthene	U		0.00261	0.00691	1	08/31/2024 19:53	WG2353580
Fluorene	U		0.00236	0.00691	1	08/31/2024 19:53	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00208	0.00691	1	08/31/2024 19:53	WG2353580
Naphthalene	U		0.00470	0.0230	1	08/31/2024 19:53	WG2353580
Phenanthrene	U		0.00266	0.00691	1	08/31/2024 19:53	WG2353580
Pyrene	U		0.00230	0.00691	1	08/31/2024 19:53	WG2353580
1-Methylnaphthalene	U		0.00517	0.0230	1	08/31/2024 19:53	WG2353580
2-Methylnaphthalene	U		0.00492	0.0230	1	08/31/2024 19:53	WG2353580
2-Chloronaphthalene	U		0.00537	0.0230	1	08/31/2024 19:53	WG2353580
(S) p-Terphenyl-d14	87.2			23.0-120		08/31/2024 19:53	WG2353580
(S) Nitrobenzene-d5	71.8			14.0-149		08/31/2024 19:53	WG2353580
(S) 2-Fluorobiphenyl	67.6			34.0-125		08/31/2024 19:53	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	33.6		1	08/30/2024 07:34	WG2353339

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.241		0.0536	0.119	1	08/31/2024 11:38	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	31.5		0.619	1.49	1	08/30/2024 14:08	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.09	J3	0.212	0.291	1.29	09/03/2024 13:11	WG2355185
Acrylonitrile	U		0.0210	0.0726	1.29	09/03/2024 13:11	WG2355185
Benzene	U		0.00271	0.00581	1.29	09/03/2024 13:11	WG2355185
Bromobenzene	U		0.00523	0.0726	1.29	09/03/2024 13:11	WG2355185
Bromodichloromethane	U		0.00421	0.0146	1.29	09/03/2024 13:11	WG2355185
Bromoform	U		0.00681	0.146	1.29	09/03/2024 13:11	WG2355185
Bromomethane	U		0.0114	0.0726	1.29	09/03/2024 13:11	WG2355185
n-Butylbenzene	0.0368	J	0.0305	0.0726	1.29	09/03/2024 13:11	WG2355185
sec-Butylbenzene	0.0581	J	0.0168	0.0726	1.29	09/03/2024 13:11	WG2355185
tert-Butylbenzene	U		0.0114	0.0291	1.29	09/03/2024 13:11	WG2355185
Carbon tetrachloride	U		0.00523	0.0291	1.29	09/03/2024 13:11	WG2355185
Chlorobenzene	U		0.00122	0.0146	1.29	09/03/2024 13:11	WG2355185
Chlorodibromomethane	U		0.00356	0.0146	1.29	09/03/2024 13:11	WG2355185
Chloroethane	U		0.00987	0.0291	1.29	09/03/2024 13:11	WG2355185
Chloroform	U		0.00599	0.0146	1.29	09/03/2024 13:11	WG2355185
Chloromethane	U		0.0253	0.0726	1.29	09/03/2024 13:11	WG2355185
2-Chlorotoluene	U		0.00505	0.0146	1.29	09/03/2024 13:11	WG2355185
4-Chlorotoluene	U		0.00261	0.0291	1.29	09/03/2024 13:11	WG2355185
1,2-Dibromo-3-Chloropropane	U		0.0227	0.146	1.29	09/03/2024 13:11	WG2355185
1,2-Dibromoethane	U		0.00377	0.0146	1.29	09/03/2024 13:11	WG2355185
Dibromomethane	U		0.00436	0.0291	1.29	09/03/2024 13:11	WG2355185
1,2-Dichlorobenzene	U		0.00247	0.0291	1.29	09/03/2024 13:11	WG2355185
1,3-Dichlorobenzene	U		0.00349	0.0291	1.29	09/03/2024 13:11	WG2355185
1,4-Dichlorobenzene	U		0.00407	0.0291	1.29	09/03/2024 13:11	WG2355185
Dichlorodifluoromethane	U		0.00938	0.0291	1.29	09/03/2024 13:11	WG2355185
1,1-Dichloroethane	U		0.00285	0.0146	1.29	09/03/2024 13:11	WG2355185
1,2-Dichloroethane	U		0.00377	0.0146	1.29	09/03/2024 13:11	WG2355185
1,1-Dichloroethene	U		0.00352	0.0146	1.29	09/03/2024 13:11	WG2355185
cis-1,2-Dichloroethene	U		0.00427	0.0146	1.29	09/03/2024 13:11	WG2355185
trans-1,2-Dichloroethene	U		0.00604	0.0291	1.29	09/03/2024 13:11	WG2355185
1,2-Dichloropropane	U		0.00825	0.0291	1.29	09/03/2024 13:11	WG2355185
1,1-Dichloropropene	U		0.00469	0.0146	1.29	09/03/2024 13:11	WG2355185
1,3-Dichloropropane	U		0.00291	0.0291	1.29	09/03/2024 13:11	WG2355185
cis-1,3-Dichloropropene	U		0.00440	0.0146	1.29	09/03/2024 13:11	WG2355185
trans-1,3-Dichloropropene	U		0.00663	0.0291	1.29	09/03/2024 13:11	WG2355185
2,2-Dichloropropane	U		0.00802	0.0146	1.29	09/03/2024 13:11	WG2355185
Di-isopropyl ether	U		0.00238	0.00581	1.29	09/03/2024 13:11	WG2355185
Ethylbenzene	0.0108	J	0.00429	0.0146	1.29	09/03/2024 13:11	WG2355185
Hexachloro-1,3-butadiene	U		0.0349	0.146	1.29	09/03/2024 13:11	WG2355185

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	0.0448		0.00247	0.0146	1.29	09/03/2024 13:11	WG2355185
p-Isopropyltoluene	4.21		0.0148	0.0291	1.29	09/03/2024 13:11	WG2355185
2-Butanone (MEK)	U		0.369	0.581	1.29	09/03/2024 13:11	WG2355185
Methylene Chloride	U		0.0386	0.146	1.29	09/03/2024 13:11	WG2355185
4-Methyl-2-pentanone (MIBK)	U		0.0133	0.146	1.29	09/03/2024 13:11	WG2355185
Methyl tert-butyl ether	U		0.00204	0.00581	1.29	09/03/2024 13:11	WG2355185
Naphthalene	0.168		0.0284	0.0726	1.29	09/03/2024 13:11	WG2355185
n-Propylbenzene	U	J4	0.00554	0.0291	1.29	09/03/2024 13:11	WG2355185
Styrene	U		0.00133	0.0726	1.29	09/03/2024 13:11	WG2355185
1,1,1,2-Tetrachloroethane	U		0.00550	0.0146	1.29	09/03/2024 13:11	WG2355185
1,1,2,2-Tetrachloroethane	U		0.00404	0.0146	1.29	09/03/2024 13:11	WG2355185
1,1,2-Trichlorotrifluoroethane	U	J3	0.00439	0.0146	1.29	09/03/2024 13:11	WG2355185
Tetrachloroethene	U		0.00523	0.0146	1.29	09/03/2024 13:11	WG2355185
Toluene	0.0663		0.00757	0.0291	1.29	09/03/2024 13:11	WG2355185
1,2,3-Trichlorobenzene	U		0.0426	0.0726	1.29	09/03/2024 13:11	WG2355185
1,2,4-Trichlorobenzene	U		0.0256	0.0726	1.29	09/03/2024 13:11	WG2355185
1,1,1-Trichloroethane	U		0.00536	0.0146	1.29	09/03/2024 13:11	WG2355185
1,1,2-Trichloroethane	U		0.00347	0.0146	1.29	09/03/2024 13:11	WG2355185
Trichloroethene	U		0.00339	0.00581	1.29	09/03/2024 13:11	WG2355185
Trichlorofluoromethane	U		0.00482	0.0146	1.29	09/03/2024 13:11	WG2355185
1,2,3-Trichloropropane	U		0.00942	0.0726	1.29	09/03/2024 13:11	WG2355185
1,2,4-Trimethylbenzene	0.375		0.00920	0.0291	1.29	09/03/2024 13:11	WG2355185
1,2,3-Trimethylbenzene	0.0627		0.00920	0.0291	1.29	09/03/2024 13:11	WG2355185
1,3,5-Trimethylbenzene	0.192		0.0116	0.0291	1.29	09/03/2024 13:11	WG2355185
Vinyl chloride	U		0.00676	0.0146	1.29	09/03/2024 13:11	WG2355185
Xylenes, Total	0.0577		0.00514	0.0378	1.29	09/03/2024 13:11	WG2355185
(S) Toluene-d8	112			75.0-131		09/03/2024 13:11	WG2355185
(S) 4-Bromofluorobenzene	123			67.0-138		09/03/2024 13:11	WG2355185
(S) 1,2-Dichloroethane-d4	104			70.0-130		09/03/2024 13:11	WG2355185

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2510		79.5	238	20	08/31/2024 14:45	WG2353374
Residual Range Organics (RRO)	4710		199	596	20	08/31/2024 14:45	WG2353374
(S) o-Terphenyl	0.000	J7		18.0-148		08/31/2024 14:45	WG2353374

Sample Narrative:

L1772512-03 WG2353374: Sample resembles laboratory standard for Motor Oil.

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		0.0351	0.101	1	09/02/2024 23:18	WG2353581
PCB 1221	U		0.0351	0.101	1	09/02/2024 23:18	WG2353581
PCB 1232	U		0.0351	0.101	1	09/02/2024 23:18	WG2353581
PCB 1242	U		0.0351	0.101	1	09/02/2024 23:18	WG2353581
PCB 1248	U		0.0220	0.0506	1	09/02/2024 23:18	WG2353581
PCB 1254	U		0.0220	0.0506	1	09/02/2024 23:18	WG2353581
PCB 1260	U		0.0220	0.0506	1	09/02/2024 23:18	WG2353581
(S) Decachlorobiphenyl	57.0			10.0-135		09/02/2024 23:18	WG2353581
(S) Tetrachloro-m-xylene	59.3			10.0-139		09/02/2024 23:18	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00685	0.0179	1	08/31/2024 20:13	WG2353580
Acenaphthene	0.0500		0.00622	0.0179	1	08/31/2024 20:13	WG2353580
Acenaphthylene	0.00646	U	0.00643	0.0179	1	08/31/2024 20:13	WG2353580
Benzo(a)anthracene	0.0264		0.00515	0.0179	1	08/31/2024 20:13	WG2353580
Benzo(a)pyrene	U		0.00533	0.0179	1	08/31/2024 20:13	WG2353580
Benzo(b)fluoranthene	0.0263		0.00456	0.0179	1	08/31/2024 20:13	WG2353580
Benzo(g,h,i)perylene	U		0.00527	0.0179	1	08/31/2024 20:13	WG2353580
Benzo(k)fluoranthene	0.00888	U	0.00640	0.0179	1	08/31/2024 20:13	WG2353580
Chrysene	0.0278		0.00691	0.0179	1	08/31/2024 20:13	WG2353580
Dibenz(a,h)anthracene	U		0.00512	0.0179	1	08/31/2024 20:13	WG2353580
Fluoranthene	0.164		0.00676	0.0179	1	08/31/2024 20:13	WG2353580
Fluorene	0.0500		0.00611	0.0179	1	08/31/2024 20:13	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00539	0.0179	1	08/31/2024 20:13	WG2353580
Naphthalene	0.112		0.0122	0.0596	1	08/31/2024 20:13	WG2353580
Phenanthrene	0.243		0.00688	0.0179	1	08/31/2024 20:13	WG2353580
Pyrene	0.106		0.00596	0.0179	1	08/31/2024 20:13	WG2353580
1-Methylnaphthalene	0.174		0.0134	0.0596	1	08/31/2024 20:13	WG2353580
2-Methylnaphthalene	0.250		0.0127	0.0596	1	08/31/2024 20:13	WG2353580
2-Chloronaphthalene	U		0.0139	0.0596	1	08/31/2024 20:13	WG2353580
(S) p-Terphenyl-d14	63.3			23.0-120		08/31/2024 20:13	WG2353580
(S) Nitrobenzene-d5	74.1			14.0-149		08/31/2024 20:13	WG2353580
(S) 2-Fluorobiphenyl	56.5			34.0-125		08/31/2024 20:13	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.7		1	08/30/2024 07:34	WG2353339

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0203	0.0451	1	08/31/2024 11:41	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	4.80		0.235	0.564	1	08/30/2024 14:10	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J3	0.0488	0.0667	1.07	09/03/2024 13:31	WG2355185
Acrylonitrile	U		0.00481	0.0167	1.07	09/03/2024 13:31	WG2355185
Benzene	U		0.000623	0.00133	1.07	09/03/2024 13:31	WG2355185
Bromobenzene	U		0.00120	0.0167	1.07	09/03/2024 13:31	WG2355185
Bromodichloromethane	U		0.000968	0.00334	1.07	09/03/2024 13:31	WG2355185
Bromoform	U		0.00156	0.0334	1.07	09/03/2024 13:31	WG2355185
Bromomethane	U		0.00263	0.0167	1.07	09/03/2024 13:31	WG2355185
n-Butylbenzene	U		0.00701	0.0167	1.07	09/03/2024 13:31	WG2355185
sec-Butylbenzene	U		0.00384	0.0167	1.07	09/03/2024 13:31	WG2355185
tert-Butylbenzene	U		0.00261	0.00667	1.07	09/03/2024 13:31	WG2355185
Carbon tetrachloride	U		0.00120	0.00667	1.07	09/03/2024 13:31	WG2355185
Chlorobenzene	U		0.000281	0.00334	1.07	09/03/2024 13:31	WG2355185
Chlorodibromomethane	U		0.000817	0.00334	1.07	09/03/2024 13:31	WG2355185
Chloroethane	U		0.00227	0.00667	1.07	09/03/2024 13:31	WG2355185
Chloroform	U		0.00137	0.00334	1.07	09/03/2024 13:31	WG2355185
Chloromethane	U		0.00580	0.0167	1.07	09/03/2024 13:31	WG2355185
2-Chlorotoluene	U		0.00115	0.00334	1.07	09/03/2024 13:31	WG2355185
4-Chlorotoluene	U		0.000600	0.00667	1.07	09/03/2024 13:31	WG2355185
1,2-Dibromo-3-Chloropropane	U		0.00520	0.0334	1.07	09/03/2024 13:31	WG2355185
1,2-Dibromoethane	U		0.000864	0.00334	1.07	09/03/2024 13:31	WG2355185
Dibromomethane	U		0.00100	0.00667	1.07	09/03/2024 13:31	WG2355185
1,2-Dichlorobenzene	U		0.000567	0.00667	1.07	09/03/2024 13:31	WG2355185
1,3-Dichlorobenzene	U		0.000801	0.00667	1.07	09/03/2024 13:31	WG2355185
1,4-Dichlorobenzene	U		0.000934	0.00667	1.07	09/03/2024 13:31	WG2355185
Dichlorodifluoromethane	U		0.00214	0.00667	1.07	09/03/2024 13:31	WG2355185
1,1-Dichloroethane	U		0.000655	0.00334	1.07	09/03/2024 13:31	WG2355185
1,2-Dichloroethane	U		0.000865	0.00334	1.07	09/03/2024 13:31	WG2355185
1,1-Dichloroethene	U		0.000808	0.00334	1.07	09/03/2024 13:31	WG2355185
cis-1,2-Dichloroethene	U		0.000979	0.00334	1.07	09/03/2024 13:31	WG2355185
trans-1,2-Dichloroethene	U		0.00138	0.00667	1.07	09/03/2024 13:31	WG2355185
1,2-Dichloropropane	U		0.00190	0.00667	1.07	09/03/2024 13:31	WG2355185
1,1-Dichloropropene	U		0.00108	0.00334	1.07	09/03/2024 13:31	WG2355185
1,3-Dichloropropane	U		0.000668	0.00667	1.07	09/03/2024 13:31	WG2355185
cis-1,3-Dichloropropene	U		0.00101	0.00334	1.07	09/03/2024 13:31	WG2355185
trans-1,3-Dichloropropene	U		0.00152	0.00667	1.07	09/03/2024 13:31	WG2355185
2,2-Dichloropropane	U		0.00185	0.00334	1.07	09/03/2024 13:31	WG2355185
Di-isopropyl ether	U		0.000547	0.00133	1.07	09/03/2024 13:31	WG2355185
Ethylbenzene	U		0.000984	0.00334	1.07	09/03/2024 13:31	WG2355185
Hexachloro-1,3-butadiene	U		0.00801	0.0334	1.07	09/03/2024 13:31	WG2355185

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000567	0.00334	1.07	09/03/2024 13:31	WG2355185
p-Isopropyltoluene	0.0121		0.00340	0.00667	1.07	09/03/2024 13:31	WG2355185
2-Butanone (MEK)	U		0.0847	0.133	1.07	09/03/2024 13:31	WG2355185
Methylene Chloride	U		0.00885	0.0334	1.07	09/03/2024 13:31	WG2355185
4-Methyl-2-pentanone (MIBK)	U		0.00304	0.0334	1.07	09/03/2024 13:31	WG2355185
Methyl tert-butyl ether	U		0.000466	0.00133	1.07	09/03/2024 13:31	WG2355185
Naphthalene	U		0.00651	0.0167	1.07	09/03/2024 13:31	WG2355185
n-Propylbenzene	U	J4	0.00127	0.00667	1.07	09/03/2024 13:31	WG2355185
Styrene	U		0.000305	0.0167	1.07	09/03/2024 13:31	WG2355185
1,1,1,2-Tetrachloroethane	U		0.00126	0.00334	1.07	09/03/2024 13:31	WG2355185
1,1,2,2-Tetrachloroethane	U		0.000928	0.00334	1.07	09/03/2024 13:31	WG2355185
1,1,2-Trichlorotrifluoroethane	U	J3	0.00101	0.00334	1.07	09/03/2024 13:31	WG2355185
Tetrachloroethene	U		0.00120	0.00334	1.07	09/03/2024 13:31	WG2355185
Toluene	0.00271	J	0.00173	0.00667	1.07	09/03/2024 13:31	WG2355185
1,2,3-Trichlorobenzene	U		0.00978	0.0167	1.07	09/03/2024 13:31	WG2355185
1,2,4-Trichlorobenzene	U		0.00587	0.0167	1.07	09/03/2024 13:31	WG2355185
1,1,1-Trichloroethane	U		0.00123	0.00334	1.07	09/03/2024 13:31	WG2355185
1,1,2-Trichloroethane	U		0.000797	0.00334	1.07	09/03/2024 13:31	WG2355185
Trichloroethene	U		0.000779	0.00133	1.07	09/03/2024 13:31	WG2355185
Trichlorofluoromethane	U		0.00110	0.00334	1.07	09/03/2024 13:31	WG2355185
1,2,3-Trichloropropane	U		0.00216	0.0167	1.07	09/03/2024 13:31	WG2355185
1,2,4-Trimethylbenzene	U		0.00211	0.00667	1.07	09/03/2024 13:31	WG2355185
1,2,3-Trimethylbenzene	U		0.00211	0.00667	1.07	09/03/2024 13:31	WG2355185
1,3,5-Trimethylbenzene	U		0.00267	0.00667	1.07	09/03/2024 13:31	WG2355185
Vinyl chloride	U		0.00155	0.00334	1.07	09/03/2024 13:31	WG2355185
Xylenes, Total	0.00283	J	0.00117	0.00868	1.07	09/03/2024 13:31	WG2355185
(S) Toluene-d8	109			75.0-131		09/03/2024 13:31	WG2355185
(S) 4-Bromofluorobenzene	98.2			67.0-138		09/03/2024 13:31	WG2355185
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		09/03/2024 13:31	WG2355185

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.24		1.50	4.51	1	08/31/2024 14:04	WG2353374
Residual Range Organics (RRO)	10.7	J	3.75	11.3	1	08/31/2024 14:04	WG2353374
(S) o-Terphenyl	40.8			18.0-148		08/31/2024 14:04	WG2353374

Sample Narrative:

L1772512-04 WG2353374: Sample resembles laboratory standard for Motor Oil.

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		0.0133	0.0383	1	09/02/2024 23:29	WG2353581
PCB 1221	U		0.0133	0.0383	1	09/02/2024 23:29	WG2353581
PCB 1232	U		0.0133	0.0383	1	09/02/2024 23:29	WG2353581
PCB 1242	U		0.0133	0.0383	1	09/02/2024 23:29	WG2353581
PCB 1248	U		0.00832	0.0192	1	09/02/2024 23:29	WG2353581
PCB 1254	U		0.00832	0.0192	1	09/02/2024 23:29	WG2353581
PCB 1260	U		0.00832	0.0192	1	09/02/2024 23:29	WG2353581
(S) Decachlorobiphenyl	54.4			10.0-135		09/02/2024 23:29	WG2353581
(S) Tetrachloro-m-xylene	58.0			10.0-139		09/02/2024 23:29	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00259	0.00677	1	08/31/2024 20:32	WG2353580
Acenaphthene	U		0.00236	0.00677	1	08/31/2024 20:32	WG2353580
Acenaphthylene	U		0.00244	0.00677	1	08/31/2024 20:32	WG2353580
Benzo(a)anthracene	U		0.00195	0.00677	1	08/31/2024 20:32	WG2353580
Benzo(a)pyrene	U		0.00202	0.00677	1	08/31/2024 20:32	WG2353580
Benzo(b)fluoranthene	U		0.00173	0.00677	1	08/31/2024 20:32	WG2353580
Benzo(g,h,i)perylene	U		0.00200	0.00677	1	08/31/2024 20:32	WG2353580
Benzo(k)fluoranthene	U		0.00242	0.00677	1	08/31/2024 20:32	WG2353580
Chrysene	U		0.00262	0.00677	1	08/31/2024 20:32	WG2353580
Dibenz(a,h)anthracene	U		0.00194	0.00677	1	08/31/2024 20:32	WG2353580
Fluoranthene	U		0.00256	0.00677	1	08/31/2024 20:32	WG2353580
Fluorene	U		0.00231	0.00677	1	08/31/2024 20:32	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00204	0.00677	1	08/31/2024 20:32	WG2353580
Naphthalene	0.00584	U	0.00460	0.0226	1	08/31/2024 20:32	WG2353580
Phenanthrene	U		0.00260	0.00677	1	08/31/2024 20:32	WG2353580
Pyrene	U		0.00226	0.00677	1	08/31/2024 20:32	WG2353580
1-Methylnaphthalene	U		0.00506	0.0226	1	08/31/2024 20:32	WG2353580
2-Methylnaphthalene	0.00868	U	0.00481	0.0226	1	08/31/2024 20:32	WG2353580
2-Chloronaphthalene	U		0.00525	0.0226	1	08/31/2024 20:32	WG2353580
(S) p-Terphenyl-d14	80.3			23.0-120		08/31/2024 20:32	WG2353580
(S) Nitrobenzene-d5	83.1			14.0-149		08/31/2024 20:32	WG2353580
(S) 2-Fluorobiphenyl	66.3			34.0-125		08/31/2024 20:32	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.9		1	08/30/2024 07:34	WG2353339

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0210	0.0466	1	08/31/2024 11:43	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	4.40		0.242	0.582	1	08/30/2024 14:15	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0500	0.0686	1	09/01/2024 13:27	WG2353943
Acrylonitrile	U		0.00495	0.0171	1	09/01/2024 13:27	WG2353943
Benzene	U		0.000640	0.00137	1	09/01/2024 13:27	WG2353943
Bromobenzene	U		0.00123	0.0171	1	09/01/2024 13:27	WG2353943
Bromodichloromethane	U		0.000994	0.00343	1	09/01/2024 13:27	WG2353943
Bromoform	U		0.00160	0.0343	1	09/01/2024 13:27	WG2353943
Bromomethane	U		0.00270	0.0171	1	09/01/2024 13:27	WG2353943
n-Butylbenzene	U		0.00720	0.0171	1	09/01/2024 13:27	WG2353943
sec-Butylbenzene	U		0.00395	0.0171	1	09/01/2024 13:27	WG2353943
tert-Butylbenzene	U		0.00267	0.00686	1	09/01/2024 13:27	WG2353943
Carbon tetrachloride	U		0.00123	0.00686	1	09/01/2024 13:27	WG2353943
Chlorobenzene	U		0.000288	0.00343	1	09/01/2024 13:27	WG2353943
Chlorodibromomethane	U		0.000839	0.00343	1	09/01/2024 13:27	WG2353943
Chloroethane	U		0.00233	0.00686	1	09/01/2024 13:27	WG2353943
Chloroform	U		0.00141	0.00343	1	09/01/2024 13:27	WG2353943
Chloromethane	U		0.00596	0.0171	1	09/01/2024 13:27	WG2353943
2-Chlorotoluene	U		0.00119	0.00343	1	09/01/2024 13:27	WG2353943
4-Chlorotoluene	U		0.000617	0.00686	1	09/01/2024 13:27	WG2353943
1,2-Dibromo-3-Chloropropane	U		0.00535	0.0343	1	09/01/2024 13:27	WG2353943
1,2-Dibromoethane	U		0.000888	0.00343	1	09/01/2024 13:27	WG2353943
Dibromomethane	U		0.00103	0.00686	1	09/01/2024 13:27	WG2353943
1,2-Dichlorobenzene	U		0.000583	0.00686	1	09/01/2024 13:27	WG2353943
1,3-Dichlorobenzene	U		0.000823	0.00686	1	09/01/2024 13:27	WG2353943
1,4-Dichlorobenzene	U		0.000960	0.00686	1	09/01/2024 13:27	WG2353943
Dichlorodifluoromethane	U		0.00221	0.00686	1	09/01/2024 13:27	WG2353943
1,1-Dichloroethane	U		0.000673	0.00343	1	09/01/2024 13:27	WG2353943
1,2-Dichloroethane	U		0.000890	0.00343	1	09/01/2024 13:27	WG2353943
1,1-Dichloroethene	U		0.000831	0.00343	1	09/01/2024 13:27	WG2353943
cis-1,2-Dichloroethene	U		0.00101	0.00343	1	09/01/2024 13:27	WG2353943
trans-1,2-Dichloroethene	U		0.00143	0.00686	1	09/01/2024 13:27	WG2353943
1,2-Dichloropropane	U		0.00195	0.00686	1	09/01/2024 13:27	WG2353943
1,1-Dichloropropene	U		0.00111	0.00343	1	09/01/2024 13:27	WG2353943
1,3-Dichloropropane	U		0.000687	0.00686	1	09/01/2024 13:27	WG2353943
cis-1,3-Dichloropropene	U		0.00104	0.00343	1	09/01/2024 13:27	WG2353943
trans-1,3-Dichloropropene	U		0.00156	0.00686	1	09/01/2024 13:27	WG2353943
2,2-Dichloropropane	U		0.00189	0.00343	1	09/01/2024 13:27	WG2353943
Di-isopropyl ether	U		0.000562	0.00137	1	09/01/2024 13:27	WG2353943
Ethylbenzene	U		0.00101	0.00343	1	09/01/2024 13:27	WG2353943
Hexachloro-1,3-butadiene	U		0.00823	0.0343	1	09/01/2024 13:27	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000583	0.00343	1	09/01/2024 13:27	WG2353943
p-Isopropyltoluene	U		0.00350	0.00686	1	09/01/2024 13:27	WG2353943
2-Butanone (MEK)	U		0.0871	0.137	1	09/01/2024 13:27	WG2353943
Methylene Chloride	U		0.00910	0.0343	1	09/01/2024 13:27	WG2353943
4-Methyl-2-pentanone (MIBK)	U		0.00313	0.0343	1	09/01/2024 13:27	WG2353943
Methyl tert-butyl ether	U		0.000480	0.00137	1	09/01/2024 13:27	WG2353943
Naphthalene	U		0.00669	0.0171	1	09/01/2024 13:27	WG2353943
n-Propylbenzene	U		0.00130	0.00686	1	09/01/2024 13:27	WG2353943
Styrene	U	C3	0.000314	0.0171	1	09/01/2024 13:27	WG2353943
1,1,1,2-Tetrachloroethane	U		0.00130	0.00343	1	09/01/2024 13:27	WG2353943
1,1,2,2-Tetrachloroethane	U		0.000953	0.00343	1	09/01/2024 13:27	WG2353943
1,1,2-Trichlorotrifluoroethane	U	C3	0.00103	0.00343	1	09/01/2024 13:27	WG2353943
Tetrachloroethene	U		0.00123	0.00343	1	09/01/2024 13:27	WG2353943
Toluene	U		0.00178	0.00686	1	09/01/2024 13:27	WG2353943
1,2,3-Trichlorobenzene	U		0.0100	0.0171	1	09/01/2024 13:27	WG2353943
1,2,4-Trichlorobenzene	U		0.00603	0.0171	1	09/01/2024 13:27	WG2353943
1,1,1-Trichloroethane	U		0.00127	0.00343	1	09/01/2024 13:27	WG2353943
1,1,2-Trichloroethane	U		0.000819	0.00343	1	09/01/2024 13:27	WG2353943
Trichloroethene	U		0.000801	0.00137	1	09/01/2024 13:27	WG2353943
Trichlorofluoromethane	U		0.00113	0.00343	1	09/01/2024 13:27	WG2353943
1,2,3-Trichloropropane	U		0.00222	0.0171	1	09/01/2024 13:27	WG2353943
1,2,4-Trimethylbenzene	U		0.00217	0.00686	1	09/01/2024 13:27	WG2353943
1,2,3-Trimethylbenzene	U		0.00217	0.00686	1	09/01/2024 13:27	WG2353943
1,3,5-Trimethylbenzene	U		0.00274	0.00686	1	09/01/2024 13:27	WG2353943
Vinyl chloride	U		0.00159	0.00343	1	09/01/2024 13:27	WG2353943
Xylenes, Total	U		0.00121	0.00891	1	09/01/2024 13:27	WG2353943
(S) Toluene-d8	98.8			75.0-131		09/01/2024 13:27	WG2353943
(S) 4-Bromofluorobenzene	105			67.0-138		09/01/2024 13:27	WG2353943
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		09/01/2024 13:27	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.55	4.66	1	08/31/2024 14:04	WG2353374
Residual Range Organics (RRO)	U		3.88	11.6	1	08/31/2024 14:04	WG2353374
(S) o-Terphenyl	55.5			18.0-148		08/31/2024 14:04	WG2353374

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		0.0137	0.0396	1	09/02/2024 23:39	WG2353581
PCB 1221	U		0.0137	0.0396	1	09/02/2024 23:39	WG2353581
PCB 1232	U		0.0137	0.0396	1	09/02/2024 23:39	WG2353581
PCB 1242	U		0.0137	0.0396	1	09/02/2024 23:39	WG2353581
PCB 1248	U		0.00859	0.0198	1	09/02/2024 23:39	WG2353581
PCB 1254	U		0.00859	0.0198	1	09/02/2024 23:39	WG2353581
PCB 1260	U		0.00859	0.0198	1	09/02/2024 23:39	WG2353581
(S) Decachlorobiphenyl	70.7			10.0-135		09/02/2024 23:39	WG2353581
(S) Tetrachloro-m-xylene	78.6			10.0-139		09/02/2024 23:39	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00268	0.00699	1	08/31/2024 20:52	WG2353580
Acenaphthene	U		0.00243	0.00699	1	08/31/2024 20:52	WG2353580
Acenaphthylene	U		0.00251	0.00699	1	08/31/2024 20:52	WG2353580
Benzo(a)anthracene	U		0.00201	0.00699	1	08/31/2024 20:52	WG2353580
Benzo(a)pyrene	U		0.00208	0.00699	1	08/31/2024 20:52	WG2353580
Benzo(b)fluoranthene	U		0.00178	0.00699	1	08/31/2024 20:52	WG2353580
Benzo(g,h,i)perylene	U		0.00206	0.00699	1	08/31/2024 20:52	WG2353580
Benzo(k)fluoranthene	U		0.00250	0.00699	1	08/31/2024 20:52	WG2353580
Chrysene	U		0.00270	0.00699	1	08/31/2024 20:52	WG2353580
Dibenz(a,h)anthracene	U		0.00200	0.00699	1	08/31/2024 20:52	WG2353580
Fluoranthene	U		0.00264	0.00699	1	08/31/2024 20:52	WG2353580
Fluorene	U		0.00239	0.00699	1	08/31/2024 20:52	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00211	0.00699	1	08/31/2024 20:52	WG2353580
Naphthalene	U		0.00475	0.0233	1	08/31/2024 20:52	WG2353580
Phenanthrene	U		0.00269	0.00699	1	08/31/2024 20:52	WG2353580
Pyrene	U		0.00233	0.00699	1	08/31/2024 20:52	WG2353580
1-Methylnaphthalene	U		0.00523	0.0233	1	08/31/2024 20:52	WG2353580
2-Methylnaphthalene	U		0.00497	0.0233	1	08/31/2024 20:52	WG2353580
2-Chloronaphthalene	U		0.00543	0.0233	1	08/31/2024 20:52	WG2353580
(S) p-Terphenyl-d14	71.3			23.0-120		08/31/2024 20:52	WG2353580
(S) Nitrobenzene-d5	85.2			14.0-149		08/31/2024 20:52	WG2353580
(S) 2-Fluorobiphenyl	65.9			34.0-125		08/31/2024 20:52	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.7		1	08/30/2024 07:34	WG2353339

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0213	0.0472	1	08/31/2024 11:46	WG2353412

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.86		0.246	0.591	1	08/30/2024 14:16	WG2353588

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0515	0.0706	1	09/01/2024 13:46	WG2353943
Acrylonitrile	U		0.00510	0.0176	1	09/01/2024 13:46	WG2353943
Benzene	U		0.000659	0.00141	1	09/01/2024 13:46	WG2353943
Bromobenzene	U		0.00127	0.0176	1	09/01/2024 13:46	WG2353943
Bromodichloromethane	U		0.00102	0.00353	1	09/01/2024 13:46	WG2353943
Bromoform	U		0.00165	0.0353	1	09/01/2024 13:46	WG2353943
Bromomethane	U		0.00278	0.0176	1	09/01/2024 13:46	WG2353943
n-Butylbenzene	U		0.00741	0.0176	1	09/01/2024 13:46	WG2353943
sec-Butylbenzene	U		0.00407	0.0176	1	09/01/2024 13:46	WG2353943
tert-Butylbenzene	U		0.00275	0.00706	1	09/01/2024 13:46	WG2353943
Carbon tetrachloride	U		0.00127	0.00706	1	09/01/2024 13:46	WG2353943
Chlorobenzene	U		0.000296	0.00353	1	09/01/2024 13:46	WG2353943
Chlorodibromomethane	U		0.000864	0.00353	1	09/01/2024 13:46	WG2353943
Chloroethane	U		0.00240	0.00706	1	09/01/2024 13:46	WG2353943
Chloroform	U		0.00145	0.00353	1	09/01/2024 13:46	WG2353943
Chloromethane	U		0.00614	0.0176	1	09/01/2024 13:46	WG2353943
2-Chlorotoluene	U		0.00122	0.00353	1	09/01/2024 13:46	WG2353943
4-Chlorotoluene	U		0.000635	0.00706	1	09/01/2024 13:46	WG2353943
1,2-Dibromo-3-Chloropropane	U		0.00551	0.0353	1	09/01/2024 13:46	WG2353943
1,2-Dibromoethane	U		0.000915	0.00353	1	09/01/2024 13:46	WG2353943
Dibromomethane	U		0.00106	0.00706	1	09/01/2024 13:46	WG2353943
1,2-Dichlorobenzene	U		0.000600	0.00706	1	09/01/2024 13:46	WG2353943
1,3-Dichlorobenzene	U		0.000847	0.00706	1	09/01/2024 13:46	WG2353943
1,4-Dichlorobenzene	U		0.000988	0.00706	1	09/01/2024 13:46	WG2353943
Dichlorodifluoromethane	U		0.00227	0.00706	1	09/01/2024 13:46	WG2353943
1,1-Dichloroethane	U		0.000693	0.00353	1	09/01/2024 13:46	WG2353943
1,2-Dichloroethane	U		0.000916	0.00353	1	09/01/2024 13:46	WG2353943
1,1-Dichloroethene	U		0.000856	0.00353	1	09/01/2024 13:46	WG2353943
cis-1,2-Dichloroethene	U		0.00104	0.00353	1	09/01/2024 13:46	WG2353943
trans-1,2-Dichloroethene	U		0.00147	0.00706	1	09/01/2024 13:46	WG2353943
1,2-Dichloropropane	U		0.00200	0.00706	1	09/01/2024 13:46	WG2353943
1,1-Dichloropropene	U		0.00114	0.00353	1	09/01/2024 13:46	WG2353943
1,3-Dichloropropane	U		0.000707	0.00706	1	09/01/2024 13:46	WG2353943
cis-1,3-Dichloropropene	U		0.00107	0.00353	1	09/01/2024 13:46	WG2353943
trans-1,3-Dichloropropene	U		0.00161	0.00706	1	09/01/2024 13:46	WG2353943
2,2-Dichloropropane	U		0.00195	0.00353	1	09/01/2024 13:46	WG2353943
Di-isopropyl ether	U		0.000579	0.00141	1	09/01/2024 13:46	WG2353943
Ethylbenzene	U		0.00104	0.00353	1	09/01/2024 13:46	WG2353943
Hexachloro-1,3-butadiene	U		0.00847	0.0353	1	09/01/2024 13:46	WG2353943

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000600	0.00353	1	09/01/2024 13:46	WG2353943
p-Isopropyltoluene	U		0.00360	0.00706	1	09/01/2024 13:46	WG2353943
2-Butanone (MEK)	U		0.0897	0.141	1	09/01/2024 13:46	WG2353943
Methylene Chloride	U		0.00937	0.0353	1	09/01/2024 13:46	WG2353943
4-Methyl-2-pentanone (MIBK)	U		0.00322	0.0353	1	09/01/2024 13:46	WG2353943
Methyl tert-butyl ether	U		0.000494	0.00141	1	09/01/2024 13:46	WG2353943
Naphthalene	U		0.00689	0.0176	1	09/01/2024 13:46	WG2353943
n-Propylbenzene	U		0.00134	0.00706	1	09/01/2024 13:46	WG2353943
Styrene	U	C3	0.000323	0.0176	1	09/01/2024 13:46	WG2353943
1,1,1,2-Tetrachloroethane	U		0.00134	0.00353	1	09/01/2024 13:46	WG2353943
1,1,2,2-Tetrachloroethane	U		0.000981	0.00353	1	09/01/2024 13:46	WG2353943
1,1,2-Trichlorotrifluoroethane	U	C3	0.00106	0.00353	1	09/01/2024 13:46	WG2353943
Tetrachloroethene	U		0.00126	0.00353	1	09/01/2024 13:46	WG2353943
Toluene	U		0.00184	0.00706	1	09/01/2024 13:46	WG2353943
1,2,3-Trichlorobenzene	U		0.0103	0.0176	1	09/01/2024 13:46	WG2353943
1,2,4-Trichlorobenzene	U		0.00621	0.0176	1	09/01/2024 13:46	WG2353943
1,1,1-Trichloroethane	U		0.00130	0.00353	1	09/01/2024 13:46	WG2353943
1,1,2-Trichloroethane	U		0.000843	0.00353	1	09/01/2024 13:46	WG2353943
Trichloroethene	U		0.000825	0.00141	1	09/01/2024 13:46	WG2353943
Trichlorofluoromethane	U		0.00117	0.00353	1	09/01/2024 13:46	WG2353943
1,2,3-Trichloropropane	U		0.00229	0.0176	1	09/01/2024 13:46	WG2353943
1,2,4-Trimethylbenzene	U		0.00223	0.00706	1	09/01/2024 13:46	WG2353943
1,2,3-Trimethylbenzene	U		0.00223	0.00706	1	09/01/2024 13:46	WG2353943
1,3,5-Trimethylbenzene	U		0.00282	0.00706	1	09/01/2024 13:46	WG2353943
Vinyl chloride	U		0.00164	0.00353	1	09/01/2024 13:46	WG2353943
Xylenes, Total	U		0.00124	0.00918	1	09/01/2024 13:46	WG2353943
(S) Toluene-d8	96.1			75.0-131		09/01/2024 13:46	WG2353943
(S) 4-Bromofluorobenzene	104			67.0-138		09/01/2024 13:46	WG2353943
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		09/01/2024 13:46	WG2353943

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

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.57	4.72	1	08/31/2024 13:37	WG2353374
Residual Range Organics (RRO)	U		3.93	11.8	1	08/31/2024 13:37	WG2353374
(S) o-Terphenyl	57.8			18.0-148		08/31/2024 13:37	WG2353374

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		0.0139	0.0402	1	09/02/2024 23:49	WG2353581
PCB 1221	U		0.0139	0.0402	1	09/02/2024 23:49	WG2353581
PCB 1232	U		0.0139	0.0402	1	09/02/2024 23:49	WG2353581
PCB 1242	U		0.0139	0.0402	1	09/02/2024 23:49	WG2353581
PCB 1248	U		0.00872	0.0201	1	09/02/2024 23:49	WG2353581
PCB 1254	U		0.00872	0.0201	1	09/02/2024 23:49	WG2353581
PCB 1260	U		0.00872	0.0201	1	09/02/2024 23:49	WG2353581
(S) Decachlorobiphenyl	47.6			10.0-135		09/02/2024 23:49	WG2353581
(S) Tetrachloro-m-xylene	55.6			10.0-139		09/02/2024 23:49	WG2353581

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00272	0.00709	1	08/31/2024 21:51	WG2353580
Acenaphthene	U		0.00247	0.00709	1	08/31/2024 21:51	WG2353580
Acenaphthylene	U		0.00255	0.00709	1	08/31/2024 21:51	WG2353580
Benzo(a)anthracene	U		0.00204	0.00709	1	08/31/2024 21:51	WG2353580
Benzo(a)pyrene	U		0.00211	0.00709	1	08/31/2024 21:51	WG2353580
Benzo(b)fluoranthene	U		0.00181	0.00709	1	08/31/2024 21:51	WG2353580
Benzo(g,h,i)perylene	U		0.00209	0.00709	1	08/31/2024 21:51	WG2353580
Benzo(k)fluoranthene	U		0.00254	0.00709	1	08/31/2024 21:51	WG2353580
Chrysene	U		0.00274	0.00709	1	08/31/2024 21:51	WG2353580
Dibenz(a,h)anthracene	U		0.00203	0.00709	1	08/31/2024 21:51	WG2353580
Fluoranthene	U		0.00268	0.00709	1	08/31/2024 21:51	WG2353580
Fluorene	U		0.00242	0.00709	1	08/31/2024 21:51	WG2353580
Indeno(1,2,3-cd)pyrene	U		0.00214	0.00709	1	08/31/2024 21:51	WG2353580
Naphthalene	U		0.00482	0.0236	1	08/31/2024 21:51	WG2353580
Phenanthrene	U		0.00273	0.00709	1	08/31/2024 21:51	WG2353580
Pyrene	U		0.00236	0.00709	1	08/31/2024 21:51	WG2353580
1-Methylnaphthalene	U		0.00530	0.0236	1	08/31/2024 21:51	WG2353580
2-Methylnaphthalene	U		0.00504	0.0236	1	08/31/2024 21:51	WG2353580
2-Chloronaphthalene	U		0.00550	0.0236	1	08/31/2024 21:51	WG2353580
(S) p-Terphenyl-d14	74.4			23.0-120		08/31/2024 21:51	WG2353580
(S) Nitrobenzene-d5	65.3			14.0-149		08/31/2024 21:51	WG2353580
(S) 2-Fluorobiphenyl	58.1			34.0-125		08/31/2024 21:51	WG2353580

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114118-1 08/30/24 07:25

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

1
Cp

2
Tc

3
Ss

L1772398-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1772398-07 08/30/24 07:25 • (DUP) R4114118-3 08/30/24 07:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	98.7	98.7	1	0.0729		10

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS)

(LCS) R4114118-2 08/30/24 07:25

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

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4114249-1 08/30/24 07:34

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1772512-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1772512-05 08/30/24 07:34 • (DUP) R4114249-3 08/30/24 07:34

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.9	80.7	1	6.29		10

Laboratory Control Sample (LCS)

(LCS) R4114249-2 08/30/24 07:34

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4114342-1 08/31/24 10:39

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4114342-2 08/31/24 10:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.512	102	80.0-120	

L1772662-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772662-07 08/31/24 10:44 • (MS) R4114342-4 08/31/24 10:49 • (MSD) R4114342-5 08/31/24 10:51

	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
Analyte	mg/kg				%	%		%			%	%
Mercury	0.564	0.0250	0.560	0.527	94.9	89.0	1	75.0-125			6.07	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114015-1 08/30/24 13:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4114015-2 08/30/24 13:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	95.3	95.3	80.0-120	

L1772403-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772403-11 08/30/24 13:38 • (MS) R4114015-5 08/30/24 13:43 • (MSD) R4114015-6 08/30/24 13:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	123	11.2	134	123	99.6	90.5	1	75.0-125			8.75	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114742-2 09/01/24 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4114742-2 09/01/24 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	94.5			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	95.7			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4114742-1 09/01/24 10:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	1.06	170	10.0-160	J4
Acrylonitrile	0.625	0.684	109	45.0-153	
Benzene	0.125	0.123	98.4	70.0-123	
Bromobenzene	0.125	0.119	95.2	73.0-121	
Bromodichloromethane	0.125	0.125	100	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R4114742-1 09/01/24 10:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.111	88.8	64.0-132	
Bromomethane	0.125	0.149	119	56.0-147	
n-Butylbenzene	0.125	0.119	95.2	68.0-135	
sec-Butylbenzene	0.125	0.109	87.2	74.0-130	
tert-Butylbenzene	0.125	0.116	92.8	75.0-127	
Carbon tetrachloride	0.125	0.123	98.4	66.0-128	
Chlorobenzene	0.125	0.117	93.6	76.0-128	
Chlorodibromomethane	0.125	0.111	88.8	74.0-127	
Chloroethane	0.125	0.155	124	61.0-134	
Chloroform	0.125	0.127	102	72.0-123	
Chloromethane	0.125	0.134	107	51.0-138	
2-Chlorotoluene	0.125	0.115	92.0	75.0-124	
4-Chlorotoluene	0.125	0.109	87.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.107	85.6	59.0-130	
1,2-Dibromoethane	0.125	0.116	92.8	74.0-128	
Dibromomethane	0.125	0.128	102	75.0-122	
1,2-Dichlorobenzene	0.125	0.122	97.6	76.0-124	
1,3-Dichlorobenzene	0.125	0.120	96.0	76.0-125	
1,4-Dichlorobenzene	0.125	0.115	92.0	77.0-121	
Dichlorodifluoromethane	0.125	0.188	150	43.0-156	
1,1-Dichloroethane	0.125	0.122	97.6	70.0-127	
1,2-Dichloroethane	0.125	0.124	99.2	65.0-131	
1,1-Dichloroethene	0.125	0.121	96.8	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.124	99.2	71.0-125	
1,2-Dichloropropane	0.125	0.127	102	74.0-125	
1,1-Dichloropropene	0.125	0.124	99.2	73.0-125	
1,3-Dichloropropane	0.125	0.121	96.8	80.0-125	
cis-1,3-Dichloropropene	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.120	96.0	73.0-127	
2,2-Dichloropropane	0.125	0.129	103	59.0-135	
Di-isopropyl ether	0.125	0.136	109	60.0-136	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.140	112	57.0-150	
Isopropylbenzene	0.125	0.131	105	72.0-127	
p-Isopropyltoluene	0.125	0.120	96.0	72.0-133	
2-Butanone (MEK)	0.625	0.865	138	30.0-160	
Methylene Chloride	0.125	0.102	81.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.620	99.2	56.0-143	
Methyl tert-butyl ether	0.125	0.121	96.8	66.0-132	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4114742-1 09/01/24 10:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.107	85.6	59.0-130	
n-Propylbenzene	0.125	0.114	91.2	74.0-126	
Styrene	0.125	0.0987	79.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.117	93.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.104	83.2	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.0878	70.2	61.0-139	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.111	88.8	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.124	99.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.125	100	62.0-137	
1,1,1-Trichloroethane	0.125	0.116	92.8	69.0-126	
1,1,2-Trichloroethane	0.125	0.112	89.6	78.0-123	
Trichloroethene	0.125	0.125	100	76.0-126	
Trichlorofluoromethane	0.125	0.168	134	61.0-142	
1,2,3-Trichloropropane	0.125	0.111	88.8	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.108	86.4	70.0-126	
1,2,3-Trimethylbenzene	0.125	0.109	87.2	74.0-124	
1,3,5-Trimethylbenzene	0.125	0.117	93.6	73.0-127	
Vinyl chloride	0.125	0.146	117	63.0-134	
Xylenes, Total	0.375	0.356	94.9	72.0-127	
(S) Toluene-d8			92.7	75.0-131	
(S) 4-Bromofluorobenzene			100	67.0-138	
(S) 1,2-Dichloroethane-d4			97.8	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4115198-3 09/03/24 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4115198-3 09/03/24 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	97.6			67.0-138
(S) 1,2-Dichloroethane-d4	94.8			70.0-130

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

(LCS) R4115198-1 09/03/24 10:36 • (LCSD) R4115198-2 09/03/24 10:56

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	0.625	0.532	0.872	85.1	140	10.0-160		J3	48.4	31
Acrylonitrile	0.625	0.731	0.794	117	127	45.0-153			8.26	22
Benzene	0.125	0.126	0.129	101	103	70.0-123			2.35	20
Bromobenzene	0.125	0.133	0.136	106	109	73.0-121			2.23	20
Bromodichloromethane	0.125	0.119	0.125	95.2	100	73.0-121			4.92	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4115198-1 09/03/24 10:36 • (LCSD) R4115198-2 09/03/24 10:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.102	0.107	81.6	85.6	64.0-132			4.78	20
Bromomethane	0.125	0.133	0.132	106	106	56.0-147			0.755	20
n-Butylbenzene	0.125	0.134	0.139	107	111	68.0-135			3.66	20
sec-Butylbenzene	0.125	0.129	0.137	103	110	74.0-130			6.02	20
tert-Butylbenzene	0.125	0.139	0.139	111	111	75.0-127			0.000	20
Carbon tetrachloride	0.125	0.127	0.117	102	93.6	66.0-128			8.20	20
Chlorobenzene	0.125	0.121	0.126	96.8	101	76.0-128			4.05	20
Chlorodibromomethane	0.125	0.119	0.123	95.2	98.4	74.0-127			3.31	20
Chloroethane	0.125	0.132	0.118	106	94.4	61.0-134			11.2	20
Chloroform	0.125	0.126	0.128	101	102	72.0-123			1.57	20
Chloromethane	0.125	0.112	0.116	89.6	92.8	51.0-138			3.51	20
2-Chlorotoluene	0.125	0.124	0.142	99.2	114	75.0-124			13.5	20
4-Chlorotoluene	0.125	0.132	0.143	106	114	75.0-124			8.00	20
1,2-Dibromo-3-Chloropropane	0.125	0.109	0.116	87.2	92.8	59.0-130			6.22	20
1,2-Dibromoethane	0.125	0.130	0.133	104	106	74.0-128			2.28	20
Dibromomethane	0.125	0.124	0.130	99.2	104	75.0-122			4.72	20
1,2-Dichlorobenzene	0.125	0.133	0.133	106	106	76.0-124			0.000	20
1,3-Dichlorobenzene	0.125	0.132	0.135	106	108	76.0-125			2.25	20
1,4-Dichlorobenzene	0.125	0.125	0.131	100	105	77.0-121			4.69	20
Dichlorodifluoromethane	0.125	0.149	0.145	119	116	43.0-156			2.72	20
1,1-Dichloroethane	0.125	0.125	0.128	100	102	70.0-127			2.37	20
1,2-Dichloroethane	0.125	0.123	0.125	98.4	100	65.0-131			1.61	20
1,1-Dichloroethene	0.125	0.136	0.129	109	103	65.0-131			5.28	20
cis-1,2-Dichloroethene	0.125	0.123	0.127	98.4	102	73.0-125			3.20	20
trans-1,2-Dichloroethene	0.125	0.128	0.130	102	104	71.0-125			1.55	20
1,2-Dichloropropane	0.125	0.127	0.133	102	106	74.0-125			4.62	20
1,1-Dichloropropene	0.125	0.140	0.139	112	111	73.0-125			0.717	20
1,3-Dichloropropane	0.125	0.132	0.138	106	110	80.0-125			4.44	20
cis-1,3-Dichloropropene	0.125	0.124	0.131	99.2	105	76.0-127			5.49	20
trans-1,3-Dichloropropene	0.125	0.127	0.130	102	104	73.0-127			2.33	20
2,2-Dichloropropane	0.125	0.110	0.106	88.0	84.8	59.0-135			3.70	20
Di-isopropyl ether	0.125	0.127	0.130	102	104	60.0-136			2.33	20
Ethylbenzene	0.125	0.134	0.138	107	110	74.0-126			2.94	20
Hexachloro-1,3-butadiene	0.125	0.124	0.132	99.2	106	57.0-150			6.25	20
Isopropylbenzene	0.125	0.126	0.133	101	106	72.0-127			5.41	20
p-Isopropyltoluene	0.125	0.135	0.137	108	110	72.0-133			1.47	20
2-Butanone (MEK)	0.625	0.793	0.846	127	135	30.0-160			6.47	24
Methylene Chloride	0.125	0.117	0.120	93.6	96.0	68.0-123			2.53	20
4-Methyl-2-pentanone (MIBK)	0.625	0.720	0.737	115	118	56.0-143			2.33	20
Methyl tert-butyl ether	0.125	0.125	0.117	100	93.6	66.0-132			6.61	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4115198-1 09/03/24 10:36 • (LCSD) R4115198-2 09/03/24 10:56

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	0.125	0.118	0.131	94.4	105	59.0-130			10.4	20
n-Propylbenzene	0.125	0.153	0.164	122	131	74.0-126		J4	6.94	20
Styrene	0.125	0.123	0.126	98.4	101	72.0-127			2.41	20
1,1,1,2-Tetrachloroethane	0.125	0.122	0.125	97.6	100	74.0-129			2.43	20
1,1,2,2-Tetrachloroethane	0.125	0.126	0.130	101	104	68.0-128			3.12	20
1,1,2-Trichlorotrifluoroethane	0.125	0.108	0.0861	86.4	68.9	61.0-139		J3	22.6	20
Tetrachloroethene	0.125	0.136	0.133	109	106	70.0-136			2.23	20
Toluene	0.125	0.130	0.132	104	106	75.0-121			1.53	20
1,2,3-Trichlorobenzene	0.125	0.112	0.134	89.6	107	59.0-139			17.9	20
1,2,4-Trichlorobenzene	0.125	0.113	0.129	90.4	103	62.0-137			13.2	20
1,1,1-Trichloroethane	0.125	0.136	0.122	109	97.6	69.0-126			10.9	20
1,1,2-Trichloroethane	0.125	0.129	0.129	103	103	78.0-123			0.000	20
Trichloroethene	0.125	0.142	0.150	114	120	76.0-126			5.48	20
Trichlorofluoromethane	0.125	0.115	0.107	92.0	85.6	61.0-142			7.21	20
1,2,3-Trichloropropane	0.125	0.144	0.147	115	118	67.0-129			2.06	20
1,2,4-Trimethylbenzene	0.125	0.125	0.129	100	103	70.0-126			3.15	20
1,2,3-Trimethylbenzene	0.125	0.128	0.125	102	100	74.0-124			2.37	20
1,3,5-Trimethylbenzene	0.125	0.133	0.132	106	106	73.0-127			0.755	20
Vinyl chloride	0.125	0.127	0.130	102	104	63.0-134			2.33	20
Xylenes, Total	0.375	0.329	0.396	87.7	106	72.0-127			18.5	20
(S) Toluene-d8				103	105	75.0-131				
(S) 4-Bromofluorobenzene				98.7	97.6	67.0-138				
(S) 1,2-Dichloroethane-d4				105	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114363-2 08/31/24 13:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	79.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4114363-1 08/31/24 13:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	32.0	64.0	50.0-150	
(S) o-Terphenyl			67.4	18.0-148	

L1772512-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772512-01 08/31/24 13:24 • (MS) R4114363-3 08/31/24 13:37 • (MSD) R4114363-4 08/31/24 13:51

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 %
Diesel Range Organics (DRO)	58.0	U	31.7	35.8	54.7	61.9	1	50.0-150			12.0	20
(S) o-Terphenyl					52.2	55.0		18.0-148				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4114695-1 09/02/24 20:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	82.9			10.0-135
(S) Tetrachloro-m-xylene	82.4			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4114695-2 09/02/24 20:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.126	75.4	36.0-141	
PCB 1260	0.167	0.133	79.6	37.0-145	
(S) Decachlorobiphenyl			83.2	10.0-135	
(S) Tetrachloro-m-xylene			81.2	10.0-139	

L1770523-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1770523-13 09/02/24 20:25 • (MS) R4114695-3 09/02/24 20:36 • (MSD) R4114695-4 09/02/24 20:46

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 %
PCB 1016	0.169	U	0.102	0.109	60.5	64.8	1	10.0-160			6.90	37
PCB 1260	0.169	U	0.109	0.113	64.8	66.7	1	10.0-160			2.82	38
(S) Decachlorobiphenyl					83.6	74.7		10.0-135				
(S) Tetrachloro-m-xylene					85.6	76.4		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115193-2 08/31/24 13:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	106			23.0-120
(S) Nitrobenzene-d5	91.2			14.0-149
(S) 2-Fluorobiphenyl	83.8			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4115193-1 08/31/24 13:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0716	89.5	50.0-126	
Acenaphthene	0.0800	0.0653	81.6	50.0-120	
Acenaphthylene	0.0800	0.0655	81.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0735	91.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0685	85.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0757	94.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0769	96.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0732	91.5	49.0-125	
Chrysene	0.0800	0.0754	94.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0795	99.4	47.0-125	
Fluoranthene	0.0800	0.0778	97.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4115193-1 08/31/24 13:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0753	94.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0800	100	46.0-125	
Naphthalene	0.0800	0.0667	83.4	50.0-120	
Phenanthrene	0.0800	0.0735	91.9	47.0-120	
Pyrene	0.0800	0.0715	89.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0720	90.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0734	91.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0672	84.0	50.0-120	
(S) p-Terphenyl-d14			102	23.0-120	
(S) Nitrobenzene-d5			116	14.0-149	
(S) 2-Fluorobiphenyl			92.4	34.0-125	

L1772512-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772512-05 08/31/24 20:52 • (MS) R4115193-3 08/31/24 21:12 • (MSD) R4115193-4 08/31/24 21:31

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 %
Anthracene	0.0931	U	0.0591	0.0672	63.5	72.1	1	10.0-145			12.7	30
Acenaphthene	0.0931	U	0.0570	0.0622	61.3	66.8	1	14.0-127			8.59	27
Acenaphthylene	0.0931	U	0.0586	0.0637	62.9	68.4	1	21.0-124			8.38	25
Benzo(a)anthracene	0.0931	U	0.0618	0.0693	66.4	74.4	1	10.0-139			11.4	30
Benzo(a)pyrene	0.0931	U	0.0601	0.0685	64.5	73.5	1	10.0-141			13.0	31
Benzo(b)fluoranthene	0.0931	U	0.0583	0.0683	62.6	73.4	1	10.0-140			15.8	36
Benzo(g,h,i)perylene	0.0931	U	0.0611	0.0702	65.6	75.4	1	10.0-140			13.8	33
Benzo(k)fluoranthene	0.0931	U	0.0568	0.0671	61.0	72.0	1	10.0-137			16.5	31
Chrysene	0.0931	U	0.0612	0.0703	65.8	75.5	1	10.0-145			13.8	30
Dibenz(a,h)anthracene	0.0931	U	0.0624	0.0720	67.0	77.3	1	10.0-132			14.2	31
Fluoranthene	0.0931	U	0.0630	0.0710	67.6	76.3	1	10.0-153			12.0	33
Fluorene	0.0931	U	0.0643	0.0711	69.0	76.4	1	11.0-130			10.1	29
Indeno(1,2,3-cd)pyrene	0.0931	U	0.0631	0.0721	67.8	77.4	1	10.0-137			13.3	32
Naphthalene	0.0931	U	0.0536	0.0594	57.5	63.8	1	10.0-135			10.3	27
Phenanthrene	0.0931	U	0.0588	0.0668	63.1	71.8	1	10.0-144			12.8	31
Pyrene	0.0931	U	0.0573	0.0651	61.5	69.9	1	10.0-148			12.7	35
1-Methylnaphthalene	0.0931	U	0.0601	0.0667	64.5	71.6	1	10.0-142			10.5	28
2-Methylnaphthalene	0.0931	U	0.0574	0.0637	61.6	68.4	1	10.0-137			10.4	28
2-Chloronaphthalene	0.0931	U	0.0573	0.0638	61.5	68.5	1	29.0-120			10.8	24
(S) p-Terphenyl-d14					69.1	76.7		23.0-120				
(S) Nitrobenzene-d5					87.5	96.0		14.0-149				
(S) 2-Fluorobiphenyl					69.5	72.3		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

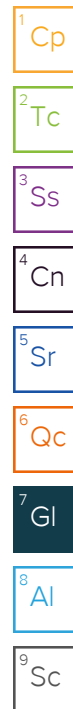
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



ACCREDITATIONS & LOCATIONS

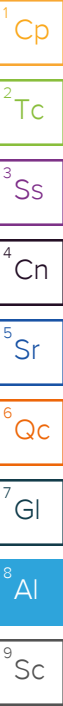
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

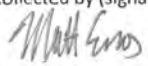
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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: Earth Engineers - Camas, WA 2411 SE 8th Ave Camas, WA 98607				Billing Information: Holly Dresher 2411 SE 8th Ave Camas, WA 98607 Email To: sday@rmacompanies.com <i>channant@rmacompanies.com</i>				Chain of Custody Page <u> </u> of <u> </u>  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							
Report to: Steven Day				Project Description: <i>Waterfront Soils Removal</i>				City/State Collected: Camas, WA				Please Circle: PT MT CT ET			
Phone: 360-567-1806				Client Project # 16-240350-0				Lab Project # EARENCWA-CAMAS				Analysis / Container / Preservative NWTPHDX w/ SGT 8ozClr-NoPres PAHs 8270SIM 8ozClr-NoPres PCBs 8082 8ozClr-NoPres RCRA8 Metals 6010 4ozClr-NoPres (Hg, Pb) VOCs 8260 40mlAmb/MeOH 10ml/Syr			
Collected by (print): • Matt Enos				Site/Facility ID # Building B				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) ☐ Three Day				Quote #							
Immediately Packed on Ice N <u> </u> Y <u>X</u>				Date Results Needed				No. of Cntrs							
Sample ID				Comp/Grab		Matrix *		Depth		Date					
<i>B-W-E-9-9@15</i>				<i>Grab</i>		<i>SS</i>		<i>15'</i>		<i>8/28/24</i>		<i>10:45</i>			
<i>B-W-C-3 @ 14</i>				<i>Grab</i>		<i>SS</i>		<i>14'</i>		<i>8/28/24</i>		<i>11:00</i>			
<i>B-W-A+O-9@B.5</i>				<i>Grab</i>		<i>SS</i>		<i>13.5'</i>		<i>8/28/24</i>		<i>11:30</i>			
<i>B-W-A-40-9@12</i>				<i>Grab</i>		<i>SS</i>		<i>12'</i>		<i>8/28/24</i>		<i>12:00</i>			
<i>B-F-A+O-20-8.5@15</i>				<i>Comp</i>		<i>SS</i>		<i>15'</i>		<i>8/28/24</i>		<i>16:00</i>			
<i>B-F-A-20-40-8.5@15</i>				<i>Comp</i>		<i>SS</i>		<i>15'</i>		<i>8/28/24</i>		<i>16:10</i>			
						<i>SS</i>									
						<i>SS</i>									
						<i>SS</i>									
						<i>SS</i>									
						<i>SS</i>									

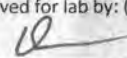
* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier _____

Tracking # **4047 5441 7734**

Relinquished by: (Signature) 		Date: 8/28/24		Time: 16:15		Received by: (Signature)		Trip Blank Received: ☒ Yes / No <i>TCA9</i>		Temp: _____ °C Bottles Received: 18	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: _____ °C Bottles Received:		If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 8/29/24 Time: 0900		Hold: _____ Condition: NCF / OK	

Sample Receipt Checklist

COC Seal Present/Intact: ☒ 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

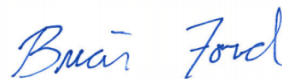
Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Earth Engineers - Camas, WA

Sample Delivery Group: L1772998
Samples Received: 08/30/2024
Project Number: 10-240350-0
Description: Waterfront Soils Removal
Site: BUILDING B
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_A+0-40_8.75@13.5 L1772998-01	5
B_F_A+16-0_8.5@12.5-13 L1772998-02	8
Qc: Quality Control Summary	11
Total Solids by Method 2540 G-2011	11
Mercury by Method 7471B	12
Metals (ICP) by Method 6010D	13
Volatile Organic Compounds (GC/MS) by Method 8260D	14
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	18
Polychlorinated Biphenyls (GC) by Method 8082 A	19
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	20
Gl: Glossary of Terms	22
Al: Accreditations & Locations	23
Sc: Sample Chain of Custody	24



SAMPLE SUMMARY

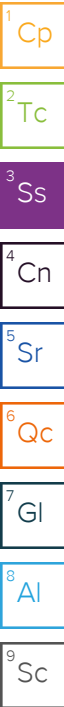
B_F_A+0-40_8.75@13.5 L1772998-01 Solid

Collected by
Matt Enos

Collected date/time
08/29/24 11:15

Received date/time
08/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2354070	1	08/31/24 10:14	08/31/24 10:28	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2354300	1	08/31/24 14:05	09/02/24 17:37	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2354580	1	09/03/24 01:30	09/03/24 10:49	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2354516	1	08/29/24 11:15	09/02/24 04:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2354996	1	09/03/24 17:14	09/04/24 13:13	JSS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2354459	1	09/02/24 16:12	09/03/24 00:02	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2354457	1	09/02/24 09:08	09/03/24 01:11	MKM	Mt. Juliet, TN



B_F_A+16-0_8.5@12.5-13 L1772998-02 Solid

Collected by
Matt Enos

Collected date/time
08/29/24 11:50

Received date/time
08/30/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2354070	1	08/31/24 10:14	08/31/24 10:28	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2354300	1	08/31/24 14:05	09/02/24 16:26	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2354580	1	09/03/24 01:30	09/03/24 10:50	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2354516	1	08/29/24 11:50	09/02/24 04:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2354996	1	09/03/24 17:14	09/04/24 13:52	JSS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2354459	1	09/02/24 16:12	09/03/24 00:11	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2354457	1	09/02/24 09:08	09/03/24 16:30	DSH	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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	82.7		1	08/31/2024 10:28	WG2354070

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0218	0.0483	1	09/02/2024 17:37	WG2354300

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.7		0.251	0.604	1	09/03/2024 10:49	WG2354580

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0527	0.0721	1	09/02/2024 04:13	WG2354516
Acrylonitrile	U		0.00521	0.0180	1	09/02/2024 04:13	WG2354516
Benzene	U		0.000674	0.00144	1	09/02/2024 04:13	WG2354516
Bromobenzene	U		0.00130	0.0180	1	09/02/2024 04:13	WG2354516
Bromodichloromethane	U		0.00105	0.00361	1	09/02/2024 04:13	WG2354516
Bromoform	U		0.00169	0.0361	1	09/02/2024 04:13	WG2354516
Bromomethane	U		0.00284	0.0180	1	09/02/2024 04:13	WG2354516
n-Butylbenzene	U		0.00757	0.0180	1	09/02/2024 04:13	WG2354516
sec-Butylbenzene	U		0.00415	0.0180	1	09/02/2024 04:13	WG2354516
tert-Butylbenzene	U		0.00281	0.00721	1	09/02/2024 04:13	WG2354516
Carbon tetrachloride	U		0.00130	0.00721	1	09/02/2024 04:13	WG2354516
Chlorobenzene	U		0.000303	0.00361	1	09/02/2024 04:13	WG2354516
Chlorodibromomethane	U		0.000883	0.00361	1	09/02/2024 04:13	WG2354516
Chloroethane	U		0.00245	0.00721	1	09/02/2024 04:13	WG2354516
Chloroform	U		0.00149	0.00361	1	09/02/2024 04:13	WG2354516
Chloromethane	U		0.00628	0.0180	1	09/02/2024 04:13	WG2354516
2-Chlorotoluene	U		0.00125	0.00361	1	09/02/2024 04:13	WG2354516
4-Chlorotoluene	U		0.000649	0.00721	1	09/02/2024 04:13	WG2354516
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0361	1	09/02/2024 04:13	WG2354516
1,2-Dibromoethane	U		0.000935	0.00361	1	09/02/2024 04:13	WG2354516
Dibromomethane	U		0.00108	0.00721	1	09/02/2024 04:13	WG2354516
1,2-Dichlorobenzene	U		0.000613	0.00721	1	09/02/2024 04:13	WG2354516
1,3-Dichlorobenzene	U		0.000866	0.00721	1	09/02/2024 04:13	WG2354516
1,4-Dichlorobenzene	U		0.00101	0.00721	1	09/02/2024 04:13	WG2354516
Dichlorodifluoromethane	U		0.00232	0.00721	1	09/02/2024 04:13	WG2354516
1,1-Dichloroethane	U		0.000708	0.00361	1	09/02/2024 04:13	WG2354516
1,2-Dichloroethane	U		0.000936	0.00361	1	09/02/2024 04:13	WG2354516
1,1-Dichloroethene	U		0.000874	0.00361	1	09/02/2024 04:13	WG2354516
cis-1,2-Dichloroethene	U		0.00106	0.00361	1	09/02/2024 04:13	WG2354516
trans-1,2-Dichloroethene	U		0.00150	0.00721	1	09/02/2024 04:13	WG2354516
1,2-Dichloropropane	U		0.00205	0.00721	1	09/02/2024 04:13	WG2354516
1,1-Dichloropropene	U		0.00117	0.00361	1	09/02/2024 04:13	WG2354516
1,3-Dichloropropane	U		0.000723	0.00721	1	09/02/2024 04:13	WG2354516
cis-1,3-Dichloropropene	U		0.00109	0.00361	1	09/02/2024 04:13	WG2354516
trans-1,3-Dichloropropene	U		0.00164	0.00721	1	09/02/2024 04:13	WG2354516
2,2-Dichloropropane	U	J3	0.00199	0.00361	1	09/02/2024 04:13	WG2354516
Di-isopropyl ether	U		0.000591	0.00144	1	09/02/2024 04:13	WG2354516
Ethylbenzene	U		0.00106	0.00361	1	09/02/2024 04:13	WG2354516
Hexachloro-1,3-butadiene	U		0.00866	0.0361	1	09/02/2024 04:13	WG2354516

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000613	0.00361	1	09/02/2024 04:13	WG2354516
p-Isopropyltoluene	U		0.00368	0.00721	1	09/02/2024 04:13	WG2354516
2-Butanone (MEK)	U		0.0916	0.144	1	09/02/2024 04:13	WG2354516
Methylene Chloride	U		0.00958	0.0361	1	09/02/2024 04:13	WG2354516
4-Methyl-2-pentanone (MIBK)	U		0.00329	0.0361	1	09/02/2024 04:13	WG2354516
Methyl tert-butyl ether	U		0.000505	0.00144	1	09/02/2024 04:13	WG2354516
Naphthalene	U		0.00704	0.0180	1	09/02/2024 04:13	WG2354516
n-Propylbenzene	U	J4	0.00137	0.00721	1	09/02/2024 04:13	WG2354516
Styrene	U		0.000330	0.0180	1	09/02/2024 04:13	WG2354516
1,1,1,2-Tetrachloroethane	U		0.00137	0.00361	1	09/02/2024 04:13	WG2354516
1,1,2,2-Tetrachloroethane	U	J3	0.00100	0.00361	1	09/02/2024 04:13	WG2354516
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00361	1	09/02/2024 04:13	WG2354516
Tetrachloroethene	U		0.00129	0.00361	1	09/02/2024 04:13	WG2354516
Toluene	U		0.00188	0.00721	1	09/02/2024 04:13	WG2354516
1,2,3-Trichlorobenzene	U		0.0106	0.0180	1	09/02/2024 04:13	WG2354516
1,2,4-Trichlorobenzene	U		0.00635	0.0180	1	09/02/2024 04:13	WG2354516
1,1,1-Trichloroethane	U		0.00133	0.00361	1	09/02/2024 04:13	WG2354516
1,1,2-Trichloroethane	U		0.000861	0.00361	1	09/02/2024 04:13	WG2354516
Trichloroethene	U		0.000842	0.00144	1	09/02/2024 04:13	WG2354516
Trichlorofluoromethane	U		0.00119	0.00361	1	09/02/2024 04:13	WG2354516
1,2,3-Trichloropropane	U		0.00234	0.0180	1	09/02/2024 04:13	WG2354516
1,2,4-Trimethylbenzene	U		0.00228	0.00721	1	09/02/2024 04:13	WG2354516
1,2,3-Trimethylbenzene	U		0.00228	0.00721	1	09/02/2024 04:13	WG2354516
1,3,5-Trimethylbenzene	U		0.00289	0.00721	1	09/02/2024 04:13	WG2354516
Vinyl chloride	U		0.00167	0.00361	1	09/02/2024 04:13	WG2354516
Xylenes, Total	U		0.00127	0.00938	1	09/02/2024 04:13	WG2354516
(S) Toluene-d8	108			75.0-131		09/02/2024 04:13	WG2354516
(S) 4-Bromofluorobenzene	96.7			67.0-138		09/02/2024 04:13	WG2354516
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		09/02/2024 04:13	WG2354516

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4.46	J	1.61	4.83	1	09/04/2024 13:13	WG2354996
Residual Range Organics (RRO)	4.93	J	4.03	12.1	1	09/04/2024 13:13	WG2354996
(S) o-Terphenyl	64.0			18.0-148		09/04/2024 13:13	WG2354996

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		0.0143	0.0411	1	09/03/2024 00:02	WG2354459
PCB 1221	U		0.0143	0.0411	1	09/03/2024 00:02	WG2354459
PCB 1232	U		0.0143	0.0411	1	09/03/2024 00:02	WG2354459
PCB 1242	U		0.0143	0.0411	1	09/03/2024 00:02	WG2354459
PCB 1248	U		0.00892	0.0205	1	09/03/2024 00:02	WG2354459
PCB 1254	U		0.00892	0.0205	1	09/03/2024 00:02	WG2354459
PCB 1260	U		0.00892	0.0205	1	09/03/2024 00:02	WG2354459
(S) Decachlorobiphenyl	76.3			10.0-135		09/03/2024 00:02	WG2354459
(S) Tetrachloro-m-xylene	72.3			10.0-139		09/03/2024 00:02	WG2354459

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00278	0.00725	1	09/03/2024 01:11	WG2354457
Acenaphthene	U		0.00253	0.00725	1	09/03/2024 01:11	WG2354457
Acenaphthylene	U		0.00261	0.00725	1	09/03/2024 01:11	WG2354457
Benzo(a)anthracene	U		0.00209	0.00725	1	09/03/2024 01:11	WG2354457
Benzo(a)pyrene	U		0.00216	0.00725	1	09/03/2024 01:11	WG2354457
Benzo(b)fluoranthene	U		0.00185	0.00725	1	09/03/2024 01:11	WG2354457
Benzo(g,h,i)perylene	U		0.00214	0.00725	1	09/03/2024 01:11	WG2354457
Benzo(k)fluoranthene	U		0.00260	0.00725	1	09/03/2024 01:11	WG2354457
Chrysene	U		0.00280	0.00725	1	09/03/2024 01:11	WG2354457
Dibenz(a,h)anthracene	U		0.00208	0.00725	1	09/03/2024 01:11	WG2354457
Fluoranthene	U		0.00274	0.00725	1	09/03/2024 01:11	WG2354457
Fluorene	U		0.00248	0.00725	1	09/03/2024 01:11	WG2354457
Indeno(1,2,3-cd)pyrene	U		0.00219	0.00725	1	09/03/2024 01:11	WG2354457
Naphthalene	U		0.00493	0.0242	1	09/03/2024 01:11	WG2354457
Phenanthrene	U		0.00279	0.00725	1	09/03/2024 01:11	WG2354457
Pyrene	U		0.00242	0.00725	1	09/03/2024 01:11	WG2354457
1-Methylnaphthalene	U		0.00543	0.0242	1	09/03/2024 01:11	WG2354457
2-Methylnaphthalene	U		0.00516	0.0242	1	09/03/2024 01:11	WG2354457
2-Chloronaphthalene	U		0.00563	0.0242	1	09/03/2024 01:11	WG2354457
(S) p-Terphenyl-d14	71.4			23.0-120		09/03/2024 01:11	WG2354457
(S) Nitrobenzene-d5	83.0			14.0-149		09/03/2024 01:11	WG2354457
(S) 2-Fluorobiphenyl	72.9			34.0-125		09/03/2024 01:11	WG2354457

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	82.3		1	08/31/2024 10:28	WG2354070

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0219	0.0486	1	09/02/2024 16:26	WG2354300

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.5		0.253	0.607	1	09/03/2024 10:50	WG2354580

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0583	J J4	0.0528	0.0723	1	09/02/2024 04:33	WG2354516
Acrylonitrile	U		0.00522	0.0181	1	09/02/2024 04:33	WG2354516
Benzene	U		0.000675	0.00145	1	09/02/2024 04:33	WG2354516
Bromobenzene	U		0.00130	0.0181	1	09/02/2024 04:33	WG2354516
Bromodichloromethane	U		0.00105	0.00362	1	09/02/2024 04:33	WG2354516
Bromoform	U		0.00169	0.0362	1	09/02/2024 04:33	WG2354516
Bromomethane	U		0.00285	0.0181	1	09/02/2024 04:33	WG2354516
n-Butylbenzene	U		0.00759	0.0181	1	09/02/2024 04:33	WG2354516
sec-Butylbenzene	U		0.00416	0.0181	1	09/02/2024 04:33	WG2354516
tert-Butylbenzene	U		0.00282	0.00723	1	09/02/2024 04:33	WG2354516
Carbon tetrachloride	U		0.00130	0.00723	1	09/02/2024 04:33	WG2354516
Chlorobenzene	U		0.000304	0.00362	1	09/02/2024 04:33	WG2354516
Chlorodibromomethane	U		0.000885	0.00362	1	09/02/2024 04:33	WG2354516
Chloroethane	U		0.00246	0.00723	1	09/02/2024 04:33	WG2354516
Chloroform	U		0.00149	0.00362	1	09/02/2024 04:33	WG2354516
Chloromethane	U		0.00629	0.0181	1	09/02/2024 04:33	WG2354516
2-Chlorotoluene	U		0.00125	0.00362	1	09/02/2024 04:33	WG2354516
4-Chlorotoluene	U		0.000651	0.00723	1	09/02/2024 04:33	WG2354516
1,2-Dibromo-3-Chloropropane	U		0.00564	0.0362	1	09/02/2024 04:33	WG2354516
1,2-Dibromoethane	U		0.000937	0.00362	1	09/02/2024 04:33	WG2354516
Dibromomethane	U		0.00108	0.00723	1	09/02/2024 04:33	WG2354516
1,2-Dichlorobenzene	U		0.000615	0.00723	1	09/02/2024 04:33	WG2354516
1,3-Dichlorobenzene	U		0.000868	0.00723	1	09/02/2024 04:33	WG2354516
1,4-Dichlorobenzene	U		0.00101	0.00723	1	09/02/2024 04:33	WG2354516
Dichlorodifluoromethane	U		0.00233	0.00723	1	09/02/2024 04:33	WG2354516
1,1-Dichloroethane	U		0.000710	0.00362	1	09/02/2024 04:33	WG2354516
1,2-Dichloroethane	U		0.000938	0.00362	1	09/02/2024 04:33	WG2354516
1,1-Dichloroethene	U		0.000876	0.00362	1	09/02/2024 04:33	WG2354516
cis-1,2-Dichloroethene	U		0.00106	0.00362	1	09/02/2024 04:33	WG2354516
trans-1,2-Dichloroethene	U		0.00150	0.00723	1	09/02/2024 04:33	WG2354516
1,2-Dichloropropane	U		0.00205	0.00723	1	09/02/2024 04:33	WG2354516
1,1-Dichloropropene	U		0.00117	0.00362	1	09/02/2024 04:33	WG2354516
1,3-Dichloropropane	U		0.000724	0.00723	1	09/02/2024 04:33	WG2354516
cis-1,3-Dichloropropene	U		0.00109	0.00362	1	09/02/2024 04:33	WG2354516
trans-1,3-Dichloropropene	U		0.00165	0.00723	1	09/02/2024 04:33	WG2354516
2,2-Dichloropropane	U	J3	0.00200	0.00362	1	09/02/2024 04:33	WG2354516
Di-isopropyl ether	U		0.000593	0.00145	1	09/02/2024 04:33	WG2354516
Ethylbenzene	U		0.00107	0.00362	1	09/02/2024 04:33	WG2354516
Hexachloro-1,3-butadiene	U		0.00868	0.0362	1	09/02/2024 04:33	WG2354516

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000615	0.00362	1	09/02/2024 04:33	WG2354516
p-Isopropyltoluene	0.0155		0.00369	0.00723	1	09/02/2024 04:33	WG2354516
2-Butanone (MEK)	U		0.0918	0.145	1	09/02/2024 04:33	WG2354516
Methylene Chloride	U		0.00960	0.0362	1	09/02/2024 04:33	WG2354516
4-Methyl-2-pentanone (MIBK)	U		0.00330	0.0362	1	09/02/2024 04:33	WG2354516
Methyl tert-butyl ether	U		0.000506	0.00145	1	09/02/2024 04:33	WG2354516
Naphthalene	U		0.00706	0.0181	1	09/02/2024 04:33	WG2354516
n-Propylbenzene	U	J4	0.00137	0.00723	1	09/02/2024 04:33	WG2354516
Styrene	U		0.000331	0.0181	1	09/02/2024 04:33	WG2354516
1,1,1,2-Tetrachloroethane	U		0.00137	0.00362	1	09/02/2024 04:33	WG2354516
1,1,2,2-Tetrachloroethane	U	J3	0.00101	0.00362	1	09/02/2024 04:33	WG2354516
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00362	1	09/02/2024 04:33	WG2354516
Tetrachloroethene	U		0.00130	0.00362	1	09/02/2024 04:33	WG2354516
Toluene	0.00259	J	0.00188	0.00723	1	09/02/2024 04:33	WG2354516
1,2,3-Trichlorobenzene	U		0.0106	0.0181	1	09/02/2024 04:33	WG2354516
1,2,4-Trichlorobenzene	U		0.00636	0.0181	1	09/02/2024 04:33	WG2354516
1,1,1-Trichloroethane	U		0.00133	0.00362	1	09/02/2024 04:33	WG2354516
1,1,2-Trichloroethane	U		0.000863	0.00362	1	09/02/2024 04:33	WG2354516
Trichloroethene	U		0.000844	0.00145	1	09/02/2024 04:33	WG2354516
Trichlorofluoromethane	U		0.00120	0.00362	1	09/02/2024 04:33	WG2354516
1,2,3-Trichloropropane	U		0.00234	0.0181	1	09/02/2024 04:33	WG2354516
1,2,4-Trimethylbenzene	0.00282	J	0.00228	0.00723	1	09/02/2024 04:33	WG2354516
1,2,3-Trimethylbenzene	U		0.00228	0.00723	1	09/02/2024 04:33	WG2354516
1,3,5-Trimethylbenzene	U		0.00289	0.00723	1	09/02/2024 04:33	WG2354516
Vinyl chloride	U		0.00168	0.00362	1	09/02/2024 04:33	WG2354516
Xylenes, Total	U		0.00127	0.00940	1	09/02/2024 04:33	WG2354516
(S) Toluene-d8	107			75.0-131		09/02/2024 04:33	WG2354516
(S) 4-Bromofluorobenzene	97.2			67.0-138		09/02/2024 04:33	WG2354516
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		09/02/2024 04:33	WG2354516

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	45.2		1.62	4.86	1	09/04/2024 13:52	WG2354996
Residual Range Organics (RRO)	58.5		4.04	12.1	1	09/04/2024 13:52	WG2354996
(S) o-Terphenyl	48.9			18.0-148		09/04/2024 13:52	WG2354996

Sample Narrative:

L1772998-02 WG2354996: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0143	0.0413	1	09/03/2024 00:11	WG2354459
PCB 1221	U		0.0143	0.0413	1	09/03/2024 00:11	WG2354459
PCB 1232	U		0.0143	0.0413	1	09/03/2024 00:11	WG2354459
PCB 1242	U		0.0143	0.0413	1	09/03/2024 00:11	WG2354459
PCB 1248	U		0.00896	0.0206	1	09/03/2024 00:11	WG2354459
PCB 1254	U		0.00896	0.0206	1	09/03/2024 00:11	WG2354459
PCB 1260	U		0.00896	0.0206	1	09/03/2024 00:11	WG2354459
(S) Decachlorobiphenyl	66.1			10.0-135		09/03/2024 00:11	WG2354459
(S) Tetrachloro-m-xylene	69.8			10.0-139		09/03/2024 00:11	WG2354459

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00279	0.00729	1	09/03/2024 16:30	WG2354457
Acenaphthene	U		0.00254	0.00729	1	09/03/2024 16:30	WG2354457
Acenaphthylene	U		0.00262	0.00729	1	09/03/2024 16:30	WG2354457
Benzo(a)anthracene	U		0.00210	0.00729	1	09/03/2024 16:30	WG2354457
Benzo(a)pyrene	U		0.00217	0.00729	1	09/03/2024 16:30	WG2354457
Benzo(b)fluoranthene	U		0.00186	0.00729	1	09/03/2024 16:30	WG2354457
Benzo(g,h,i)perylene	U		0.00215	0.00729	1	09/03/2024 16:30	WG2354457
Benzo(k)fluoranthene	U		0.00261	0.00729	1	09/03/2024 16:30	WG2354457
Chrysene	U		0.00282	0.00729	1	09/03/2024 16:30	WG2354457
Dibenz(a,h)anthracene	U		0.00209	0.00729	1	09/03/2024 16:30	WG2354457
Fluoranthene	0.00304	U	0.00276	0.00729	1	09/03/2024 16:30	WG2354457
Fluorene	U		0.00249	0.00729	1	09/03/2024 16:30	WG2354457
Indeno(1,2,3-cd)pyrene	U		0.00220	0.00729	1	09/03/2024 16:30	WG2354457
Naphthalene	U		0.00495	0.0243	1	09/03/2024 16:30	WG2354457
Phenanthrene	0.00413	U	0.00281	0.00729	1	09/03/2024 16:30	WG2354457
Pyrene	U		0.00243	0.00729	1	09/03/2024 16:30	WG2354457
1-Methylnaphthalene	U		0.00545	0.0243	1	09/03/2024 16:30	WG2354457
2-Methylnaphthalene	U		0.00519	0.0243	1	09/03/2024 16:30	WG2354457
2-Chloronaphthalene	U		0.00566	0.0243	1	09/03/2024 16:30	WG2354457
(S) p-Terphenyl-d14	54.7			23.0-120		09/03/2024 16:30	WG2354457
(S) Nitrobenzene-d5	55.4			14.0-149		09/03/2024 16:30	WG2354457
(S) 2-Fluorobiphenyl	64.6			34.0-125		09/03/2024 16:30	WG2354457

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114438-1 08/31/24 10:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1772930-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1772930-01 08/31/24 10:28 • (DUP) R4114438-3 08/31/24 10:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	90.6	86.6	1	4.50		10

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4114438-2 08/31/24 10:28

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

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4114643-1 09/02/24 16:21

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4114643-2 09/02/24 16:24

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.480	95.9	80.0-120	

L1772998-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772998-02 09/02/24 16:26 • (MS) R4114643-4 09/02/24 16:37 • (MSD) R4114643-5 09/02/24 16:39

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.607	U	0.610	0.636	100	105	1	75.0-125			4.15	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114811-1 09/03/24 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4114811-2 09/03/24 10:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	99.6	99.6	80.0-120	

L1773100-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773100-26 09/03/24 10:29 • (MS) R4114811-5 09/03/24 10:34 • (MSD) R4114811-6 09/03/24 10:35

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 %
Lead	107	2.38	102	103	93.6	94.8	1	75.0-125			1.20	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115217-3 09/01/24 20:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4115217-3 09/01/24 20:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	107			75.0-131
(S) 4-Bromofluorobenzene	95.8			67.0-138
(S) 1,2-Dichloroethane-d4	99.7			70.0-130

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

(LCS) R4115217-1 09/01/24 18:47 • (LCSD) R4115217-2 09/01/24 19:06

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	0.625	1.10	0.987	176	158	10.0-160	J4		10.8	31
Acrylonitrile	0.625	0.734	0.660	117	106	45.0-153			10.6	22
Benzene	0.125	0.127	0.115	102	92.0	70.0-123			9.92	20
Bromobenzene	0.125	0.136	0.127	109	102	73.0-121			6.84	20
Bromodichloromethane	0.125	0.122	0.113	97.6	90.4	73.0-121			7.66	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4115217-1 09/01/24 18:47 • (LCSD) R4115217-2 09/01/24 19:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.0997	0.0989	79.8	79.1	64.0-132			0.806	20
Bromomethane	0.125	0.132	0.119	106	95.2	56.0-147			10.4	20
n-Butylbenzene	0.125	0.143	0.141	114	113	68.0-135			1.41	20
sec-Butylbenzene	0.125	0.145	0.134	116	107	74.0-130			7.89	20
tert-Butylbenzene	0.125	0.147	0.142	118	114	75.0-127			3.46	20
Carbon tetrachloride	0.125	0.133	0.115	106	92.0	66.0-128			14.5	20
Chlorobenzene	0.125	0.125	0.120	100	96.0	76.0-128			4.08	20
Chlorodibromomethane	0.125	0.119	0.118	95.2	94.4	74.0-127			0.844	20
Chloroethane	0.125	0.135	0.128	108	102	61.0-134			5.32	20
Chloroform	0.125	0.124	0.120	99.2	96.0	72.0-123			3.28	20
Chloromethane	0.125	0.123	0.109	98.4	87.2	51.0-138			12.1	20
2-Chlorotoluene	0.125	0.137	0.123	110	98.4	75.0-124			10.8	20
4-Chlorotoluene	0.125	0.141	0.141	113	113	75.0-124			0.000	20
1,2-Dibromo-3-Chloropropane	0.125	0.115	0.107	92.0	85.6	59.0-130			7.21	20
1,2-Dibromoethane	0.125	0.127	0.124	102	99.2	74.0-128			2.39	20
Dibromomethane	0.125	0.127	0.112	102	89.6	75.0-122			12.6	20
1,2-Dichlorobenzene	0.125	0.138	0.128	110	102	76.0-124			7.52	20
1,3-Dichlorobenzene	0.125	0.136	0.129	109	103	76.0-125			5.28	20
1,4-Dichlorobenzene	0.125	0.132	0.127	106	102	77.0-121			3.86	20
Dichlorodifluoromethane	0.125	0.153	0.135	122	108	43.0-156			12.5	20
1,1-Dichloroethane	0.125	0.130	0.120	104	96.0	70.0-127			8.00	20
1,2-Dichloroethane	0.125	0.123	0.117	98.4	93.6	65.0-131			5.00	20
1,1-Dichloroethene	0.125	0.135	0.126	108	101	65.0-131			6.90	20
cis-1,2-Dichloroethene	0.125	0.114	0.112	91.2	89.6	73.0-125			1.77	20
trans-1,2-Dichloroethene	0.125	0.125	0.110	100	88.0	71.0-125			12.8	20
1,2-Dichloropropane	0.125	0.122	0.120	97.6	96.0	74.0-125			1.65	20
1,1-Dichloropropene	0.125	0.144	0.131	115	105	73.0-125			9.45	20
1,3-Dichloropropane	0.125	0.132	0.123	106	98.4	80.0-125			7.06	20
cis-1,3-Dichloropropene	0.125	0.121	0.109	96.8	87.2	76.0-127			10.4	20
trans-1,3-Dichloropropene	0.125	0.126	0.118	101	94.4	73.0-127			6.56	20
2,2-Dichloropropane	0.125	0.127	0.0813	102	65.0	59.0-135		J3	43.9	20
Di-isopropyl ether	0.125	0.118	0.116	94.4	92.8	60.0-136			1.71	20
Ethylbenzene	0.125	0.136	0.133	109	106	74.0-126			2.23	20
Hexachloro-1,3-butadiene	0.125	0.119	0.116	95.2	92.8	57.0-150			2.55	20
Isopropylbenzene	0.125	0.136	0.130	109	104	72.0-127			4.51	20
p-Isopropyltoluene	0.125	0.144	0.129	115	103	72.0-133			11.0	20
2-Butanone (MEK)	0.625	0.518	0.603	82.9	96.5	30.0-160			15.2	24
Methylene Chloride	0.125	0.114	0.105	91.2	84.0	68.0-123			8.22	20
4-Methyl-2-pentanone (MIBK)	0.625	0.709	0.718	113	115	56.0-143			1.26	20
Methyl tert-butyl ether	0.125	0.115	0.111	92.0	88.8	66.0-132			3.54	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4115217-1 09/01/24 18:47 • (LCSD) R4115217-2 09/01/24 19:06

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	0.125	0.115	0.117	92.0	93.6	59.0-130			1.72	20
n-Propylbenzene	0.125	0.164	0.156	131	125	74.0-126	J4		5.00	20
Styrene	0.125	0.124	0.118	99.2	94.4	72.0-127			4.96	20
1,1,1,2-Tetrachloroethane	0.125	0.123	0.118	98.4	94.4	74.0-129			4.15	20
1,1,2,2-Tetrachloroethane	0.125	0.128	0.0993	102	79.4	68.0-128		J3	25.3	20
1,1,2-Trichlorotrifluoroethane	0.125	0.129	0.117	103	93.6	61.0-139			9.76	20
Tetrachloroethene	0.125	0.139	0.126	111	101	70.0-136			9.81	20
Toluene	0.125	0.130	0.125	104	100	75.0-121			3.92	20
1,2,3-Trichlorobenzene	0.125	0.119	0.121	95.2	96.8	59.0-139			1.67	20
1,2,4-Trichlorobenzene	0.125	0.112	0.116	89.6	92.8	62.0-137			3.51	20
1,1,1-Trichloroethane	0.125	0.139	0.130	111	104	69.0-126			6.69	20
1,1,2-Trichloroethane	0.125	0.120	0.117	96.0	93.6	78.0-123			2.53	20
Trichloroethene	0.125	0.146	0.146	117	117	76.0-126			0.000	20
Trichlorofluoromethane	0.125	0.120	0.109	96.0	87.2	61.0-142			9.61	20
1,2,3-Trichloropropane	0.125	0.139	0.135	111	108	67.0-129			2.92	20
1,2,4-Trimethylbenzene	0.125	0.133	0.126	106	101	70.0-126			5.41	20
1,2,3-Trimethylbenzene	0.125	0.131	0.127	105	102	74.0-124			3.10	20
1,3,5-Trimethylbenzene	0.125	0.138	0.131	110	105	73.0-127			5.20	20
Vinyl chloride	0.125	0.136	0.125	109	100	63.0-134			8.43	20
Xylenes, Total	0.375	0.329	0.366	87.7	97.6	72.0-127			10.6	20
(S) Toluene-d8				104	103	75.0-131				
(S) 4-Bromofluorobenzene				98.4	96.1	67.0-138				
(S) 1,2-Dichloroethane-d4				108	104	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115455-1 09/04/24 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	76.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4115455-2 09/04/24 13:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	35.9	71.8	50.0-150	
(S) o-Terphenyl			79.1	18.0-148	

L1772998-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772998-01 09/04/24 13:13 • (MS) R4115455-3 09/04/24 13:26 • (MSD) R4115455-4 09/04/24 13:39

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 %
Diesel Range Organics (DRO)	59.1	4.46	38.7	37.6	57.9	55.7	1	50.0-150			2.85	20
(S) o-Terphenyl					60.4	60.2		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4115011-1 09/02/24 21:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	53.5			10.0-135
(S) Tetrachloro-m-xylene	53.9			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4115011-5 09/02/24 22:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.122	73.1	36.0-141	
PCB 1260	0.167	0.125	74.9	37.0-145	
(S) Decachlorobiphenyl			97.0	10.0-135	
(S) Tetrachloro-m-xylene			95.0	10.0-139	

L1772716-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772716-02 09/02/24 23:06 • (MS) R4115011-6 09/02/24 22:38 • (MSD) R4115011-7 09/02/24 22:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.338	U	0.332	0.345	98.2	102	1	10.0-160			3.59	37
PCB 1260	0.338	U	0.338	0.357	100	105	1	10.0-160			5.25	38
(S) Decachlorobiphenyl					107	112		10.0-135				
(S) Tetrachloro-m-xylene					112	114		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114976-2 09/02/24 16:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	84.2			23.0-120
(S) Nitrobenzene-d5	93.5			14.0-149
(S) 2-Fluorobiphenyl	85.5			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4114976-1 09/02/24 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0700	87.5	50.0-126	
Acenaphthene	0.0800	0.0642	80.3	50.0-120	
Acenaphthylene	0.0800	0.0658	82.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0703	87.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0657	82.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0692	86.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0733	91.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0694	86.8	49.0-125	
Chrysene	0.0800	0.0734	91.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0759	94.9	47.0-125	
Fluoranthene	0.0800	0.0765	95.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4114976-1 09/02/24 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0733	91.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0717	89.6	46.0-125	
Naphthalene	0.0800	0.0652	81.5	50.0-120	
Phenanthrene	0.0800	0.0710	88.8	47.0-120	
Pyrene	0.0800	0.0673	84.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0710	88.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0683	85.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0666	83.3	50.0-120	
(S) p-Terphenyl-d14			93.5	23.0-120	
(S) Nitrobenzene-d5			105	14.0-149	
(S) 2-Fluorobiphenyl			95.1	34.0-125	

L1772924-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1772924-03 09/02/24 23:45 • (MS) R4114976-3 09/03/24 00:02 • (MSD) R4114976-4 09/03/24 00:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0776	U	0.0610	0.0494	78.6	63.3	1	10.0-145			21.0	30
Acenaphthene	0.0776	U	0.0549	0.0465	70.7	59.6	1	14.0-127			16.6	27
Acenaphthylene	0.0776	U	0.0577	0.0484	74.4	62.1	1	21.0-124			17.5	25
Benzo(a)anthracene	0.0776	U	0.0616	0.0510	79.4	65.4	1	10.0-139			18.8	30
Benzo(a)pyrene	0.0776	U	0.0588	0.0497	75.8	63.7	1	10.0-141			16.8	31
Benzo(b)fluoranthene	0.0776	U	0.0586	0.0498	75.5	63.8	1	10.0-140			16.2	36
Benzo(g,h,i)perylene	0.0776	U	0.0608	0.0518	78.4	66.4	1	10.0-140			16.0	33
Benzo(k)fluoranthene	0.0776	U	0.0578	0.0489	74.5	62.7	1	10.0-137			16.7	31
Chrysene	0.0776	U	0.0628	0.0522	80.9	66.9	1	10.0-145			18.4	30
Dibenz(a,h)anthracene	0.0776	U	0.0628	0.0529	80.9	67.8	1	10.0-132			17.1	31
Fluoranthene	0.0776	U	0.0670	0.0553	86.3	70.9	1	10.0-153			19.1	33
Fluorene	0.0776	U	0.0649	0.0534	83.6	68.5	1	11.0-130			19.4	29
Indeno(1,2,3-cd)pyrene	0.0776	U	0.0610	0.0510	78.6	65.4	1	10.0-137			17.9	32
Naphthalene	0.0776	U	0.0553	0.0464	71.3	59.5	1	10.0-135			17.5	27
Phenanthrene	0.0776	U	0.0608	0.0511	78.4	65.5	1	10.0-144			17.3	31
Pyrene	0.0776	U	0.0581	0.0476	74.9	61.0	1	10.0-148			19.9	35
1-Methylnaphthalene	0.0776	U	0.0605	0.0528	78.0	67.7	1	10.0-142			13.6	28
2-Methylnaphthalene	0.0776	U	0.0604	0.0500	77.8	64.1	1	10.0-137			18.8	28
2-Chloronaphthalene	0.0776	U	0.0559	0.0468	72.0	60.0	1	29.0-120			17.7	24
(S) p-Terphenyl-d14					80.1	63.8		23.0-120				
(S) Nitrobenzene-d5					94.8	78.0		14.0-149				
(S) 2-Fluorobiphenyl					83.3	68.1		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

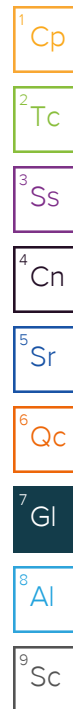
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

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.



ACCREDITATIONS & LOCATIONS

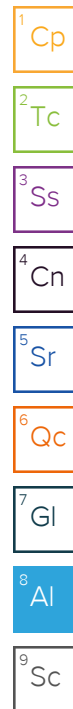
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

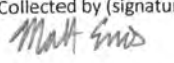
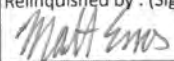
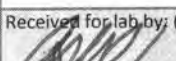
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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.



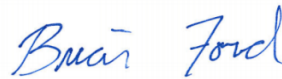
Company Name/Address: Earth Engineers - Camas, WA 2411 SE 8th Ave Camas, WA 98607		Billing Information: Holly Dresher 2411 SE 8th Ave Camas, WA 98607		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 1				
Report to: Steven Day		Email To: sday@rmacompanies.com dhannant@rmacompanies.com														 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				
Project Description: Waterfront Soils Removal		City/State Collected: Camas, WA		Please Circle: ☒ PT ☐ MT ☐ CT ☐ ET																
Phone: 360-567-1806		Client Project # 10-240350-0		Lab Project # EARENGCWA-CAMAS												SDG # G029				
Collected by (print): Matt Enos		Site/Facility ID # Building B		P.O. #												Table				
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☒ Next Day ☐ 5 Day (Rad Only) ☒ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #												Acctnum: EARENGCWA				
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed												Template: T257763				
																Prelogin: P1094692				
																PM: 110 - Brian Ford				
																PB:				
																Shipped Via:				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											Remarks		Sample # (lab only)
B-F-A+D-40-8.75@13.5	Comp	SS	13.5	8/29/24	11:15	3	X	X	X	X	X						201			
B-F-A+16-0-8.5@12.5-13	Comp	SS	12.5	8/29/24	11:50	3	X	X	X	X	X						202			
		SS																		
		SS																		
		SS																		
		SS																		
		SS																		
		SS																		
		SS																		
		SS																		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: * RUSH 2 DAY TAT *		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☒ 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				
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking # 4647 5441 7723																		
Relinquished by: (Signature) 		Date: 8/29/24	Time: 13:00	Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR														
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C 17.5 Bottles Received: 5.4 ☒												If preservation required by Login: Date/Time		
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: 08/30/2024 Time: 0900												Hold: Condition: NCF / OK		

Earth Engineers - Camas, WA

Sample Delivery Group: L1775350
Samples Received: 09/07/2024
Project Number: 10-240350
Description: Waterfront Soils Removal

Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_A-20-0@13 L1775350-01	5
A_F_Q+20-30@13 L1775350-02	8
Qc: Quality Control Summary	11
Total Solids by Method 2540 G-2011	11
Mercury by Method 7471B	13
Metals (ICP) by Method 6010D	14
Volatile Organic Compounds (GC/MS) by Method 8260D	15
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	19
Polychlorinated Biphenyls (GC) by Method 8082 A	20
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	21
Gl: Glossary of Terms	23
Al: Accreditations & Locations	24
Sc: Sample Chain of Custody	25



SAMPLE SUMMARY

B_F_A-20-0@13 L1775350-01 Solid

Collected by
Matt Enos

Collected date/time
09/06/24 12:15

Received date/time
09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2358556	1	09/09/24 12:42	09/09/24 12:47	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2358195	1	09/08/24 12:42	09/09/24 11:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2358340	1	09/09/24 16:41	09/09/24 22:17	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2358479	1.05	09/06/24 12:15	09/08/24 22:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2359178	1	09/10/24 08:17	09/11/24 00:45	NH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2359656	1	09/10/24 17:15	09/11/24 05:16	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2359321	1	09/10/24 13:37	09/11/24 02:31	ALM	Mt. Juliet, TN

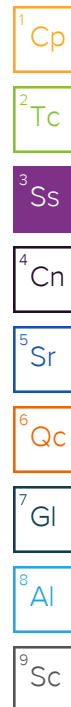
A_F_Q+20-30@13 L1775350-02 Solid

Collected by
Matt Enos

Collected date/time
09/06/24 12:45

Received date/time
09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2358557	1	09/09/24 12:48	09/09/24 12:53	JAV	Mt. Juliet, TN
Mercury by Method 7471B	WG2358195	1	09/08/24 12:42	09/09/24 11:07	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2358340	1	09/09/24 16:41	09/09/24 22:22	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2358479	1	09/06/24 12:45	09/08/24 22:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2359178	1	09/10/24 08:17	09/11/24 00:58	NH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2359656	1	09/10/24 17:15	09/11/24 05:26	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2359321	1	09/10/24 13:37	09/11/24 02:49	ALM	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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.1		1	09/09/2024 12:47	WG2358556

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0449	J	0.0204	0.0454	1	09/09/2024 11:04	WG2358195

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.1		0.236	0.568	1	09/09/2024 22:17	WG2358340

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0848	J3 J4	0.0484	0.0664	1.05	09/08/2024 22:14	WG2358479
Acrylonitrile	U		0.00479	0.0166	1.05	09/08/2024 22:14	WG2358479
Benzene	0.00139		0.000620	0.00133	1.05	09/08/2024 22:14	WG2358479
Bromobenzene	U		0.00119	0.0166	1.05	09/08/2024 22:14	WG2358479
Bromodichloromethane	U		0.000962	0.00333	1.05	09/08/2024 22:14	WG2358479
Bromoform	U		0.00156	0.0333	1.05	09/08/2024 22:14	WG2358479
Bromomethane	U		0.00262	0.0166	1.05	09/08/2024 22:14	WG2358479
n-Butylbenzene	U		0.00697	0.0166	1.05	09/08/2024 22:14	WG2358479
sec-Butylbenzene	U		0.00382	0.0166	1.05	09/08/2024 22:14	WG2358479
tert-Butylbenzene	U		0.00259	0.00664	1.05	09/08/2024 22:14	WG2358479
Carbon tetrachloride	U		0.00119	0.00664	1.05	09/08/2024 22:14	WG2358479
Chlorobenzene	U		0.000279	0.00333	1.05	09/08/2024 22:14	WG2358479
Chlorodibromomethane	U		0.000813	0.00333	1.05	09/08/2024 22:14	WG2358479
Chloroethane	U		0.00226	0.00664	1.05	09/08/2024 22:14	WG2358479
Chloroform	U		0.00137	0.00333	1.05	09/08/2024 22:14	WG2358479
Chloromethane	U		0.00578	0.0166	1.05	09/08/2024 22:14	WG2358479
2-Chlorotoluene	U		0.00115	0.00333	1.05	09/08/2024 22:14	WG2358479
4-Chlorotoluene	U		0.000598	0.00664	1.05	09/08/2024 22:14	WG2358479
1,2-Dibromo-3-Chloropropane	U		0.00517	0.0333	1.05	09/08/2024 22:14	WG2358479
1,2-Dibromoethane	U		0.000860	0.00333	1.05	09/08/2024 22:14	WG2358479
Dibromomethane	U		0.000996	0.00664	1.05	09/08/2024 22:14	WG2358479
1,2-Dichlorobenzene	U		0.000564	0.00664	1.05	09/08/2024 22:14	WG2358479
1,3-Dichlorobenzene	U		0.000797	0.00664	1.05	09/08/2024 22:14	WG2358479
1,4-Dichlorobenzene	U		0.000929	0.00664	1.05	09/08/2024 22:14	WG2358479
Dichlorodifluoromethane	U		0.00214	0.00664	1.05	09/08/2024 22:14	WG2358479
1,1-Dichloroethane	U		0.000652	0.00333	1.05	09/08/2024 22:14	WG2358479
1,2-Dichloroethane	U		0.000861	0.00333	1.05	09/08/2024 22:14	WG2358479
1,1-Dichloroethene	U		0.000804	0.00333	1.05	09/08/2024 22:14	WG2358479
cis-1,2-Dichloroethene	U		0.000975	0.00333	1.05	09/08/2024 22:14	WG2358479
trans-1,2-Dichloroethene	U		0.00138	0.00664	1.05	09/08/2024 22:14	WG2358479
1,2-Dichloropropane	U		0.00188	0.00664	1.05	09/08/2024 22:14	WG2358479
1,1-Dichloropropene	U		0.00107	0.00333	1.05	09/08/2024 22:14	WG2358479
1,3-Dichloropropane	U		0.000665	0.00664	1.05	09/08/2024 22:14	WG2358479
cis-1,3-Dichloropropene	U		0.00101	0.00333	1.05	09/08/2024 22:14	WG2358479
trans-1,3-Dichloropropene	U		0.00152	0.00664	1.05	09/08/2024 22:14	WG2358479
2,2-Dichloropropane	U		0.00183	0.00333	1.05	09/08/2024 22:14	WG2358479
Di-isopropyl ether	U		0.000545	0.00133	1.05	09/08/2024 22:14	WG2358479
Ethylbenzene	U		0.000979	0.00333	1.05	09/08/2024 22:14	WG2358479
Hexachloro-1,3-butadiene	U		0.00797	0.0333	1.05	09/08/2024 22:14	WG2358479

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000564	0.00333	1.05	09/08/2024 22:14	WG2358479
p-Isopropyltoluene	U		0.00339	0.00664	1.05	09/08/2024 22:14	WG2358479
2-Butanone (MEK)	U		0.0843	0.133	1.05	09/08/2024 22:14	WG2358479
Methylene Chloride	U		0.00881	0.0333	1.05	09/08/2024 22:14	WG2358479
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.00302	0.0333	1.05	09/08/2024 22:14	WG2358479
Methyl tert-butyl ether	U		0.000465	0.00133	1.05	09/08/2024 22:14	WG2358479
Naphthalene	U		0.00647	0.0166	1.05	09/08/2024 22:14	WG2358479
n-Propylbenzene	U		0.00126	0.00664	1.05	09/08/2024 22:14	WG2358479
Styrene	U		0.000303	0.0166	1.05	09/08/2024 22:14	WG2358479
1,1,1,2-Tetrachloroethane	U		0.00126	0.00333	1.05	09/08/2024 22:14	WG2358479
1,1,2,2-Tetrachloroethane	U	C3	0.000923	0.00333	1.05	09/08/2024 22:14	WG2358479
1,1,2-Trichlorotrifluoroethane	U	C3 J4	0.00100	0.00333	1.05	09/08/2024 22:14	WG2358479
Tetrachloroethene	U		0.00119	0.00333	1.05	09/08/2024 22:14	WG2358479
Toluene	U		0.00172	0.00664	1.05	09/08/2024 22:14	WG2358479
1,2,3-Trichlorobenzene	U		0.00974	0.0166	1.05	09/08/2024 22:14	WG2358479
1,2,4-Trichlorobenzene	U		0.00584	0.0166	1.05	09/08/2024 22:14	WG2358479
1,1,1-Trichloroethane	U		0.00123	0.00333	1.05	09/08/2024 22:14	WG2358479
1,1,2-Trichloroethane	U		0.000793	0.00333	1.05	09/08/2024 22:14	WG2358479
Trichloroethene	U		0.000775	0.00133	1.05	09/08/2024 22:14	WG2358479
Trichlorofluoromethane	U		0.00110	0.00333	1.05	09/08/2024 22:14	WG2358479
1,2,3-Trichloropropane	U		0.00215	0.0166	1.05	09/08/2024 22:14	WG2358479
1,2,4-Trimethylbenzene	U		0.00210	0.00664	1.05	09/08/2024 22:14	WG2358479
1,2,3-Trimethylbenzene	U		0.00210	0.00664	1.05	09/08/2024 22:14	WG2358479
1,3,5-Trimethylbenzene	U		0.00266	0.00664	1.05	09/08/2024 22:14	WG2358479
Vinyl chloride	U		0.00154	0.00333	1.05	09/08/2024 22:14	WG2358479
Xylenes, Total	0.00172	J	0.00117	0.00864	1.05	09/08/2024 22:14	WG2358479
(S) Toluene-d8	82.6			75.0-131		09/08/2024 22:14	WG2358479
(S) 4-Bromofluorobenzene	100			67.0-138		09/08/2024 22:14	WG2358479
(S) 1,2-Dichloroethane-d4	95.2			70.0-130		09/08/2024 22:14	WG2358479

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.51	4.54	1	09/11/2024 00:45	WG2359178
Residual Range Organics (RRO)	U		3.78	11.4	1	09/11/2024 00:45	WG2359178
(S) o-Terphenyl	60.6			18.0-148		09/11/2024 00:45	WG2359178

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		0.0134	0.0386	1	09/11/2024 05:16	WG2359656
PCB 1221	U		0.0134	0.0386	1	09/11/2024 05:16	WG2359656
PCB 1232	U		0.0134	0.0386	1	09/11/2024 05:16	WG2359656
PCB 1242	U		0.0134	0.0386	1	09/11/2024 05:16	WG2359656
PCB 1248	U		0.00838	0.0193	1	09/11/2024 05:16	WG2359656
PCB 1254	U		0.00838	0.0193	1	09/11/2024 05:16	WG2359656
PCB 1260	U		0.00838	0.0193	1	09/11/2024 05:16	WG2359656
(S) Decachlorobiphenyl	64.1			10.0-135		09/11/2024 05:16	WG2359656
(S) Tetrachloro-m-xylene	62.5			10.0-139		09/11/2024 05:16	WG2359656

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00261	0.00681	1	09/11/2024 02:31	WG2359321
Acenaphthene	U		0.00237	0.00681	1	09/11/2024 02:31	WG2359321
Acenaphthylene	U		0.00245	0.00681	1	09/11/2024 02:31	WG2359321
Benzo(a)anthracene	U		0.00196	0.00681	1	09/11/2024 02:31	WG2359321
Benzo(a)pyrene	U		0.00203	0.00681	1	09/11/2024 02:31	WG2359321
Benzo(b)fluoranthene	U		0.00174	0.00681	1	09/11/2024 02:31	WG2359321
Benzo(g,h,i)perylene	U		0.00201	0.00681	1	09/11/2024 02:31	WG2359321
Benzo(k)fluoranthene	U		0.00244	0.00681	1	09/11/2024 02:31	WG2359321
Chrysene	U		0.00263	0.00681	1	09/11/2024 02:31	WG2359321
Dibenz(a,h)anthracene	U		0.00195	0.00681	1	09/11/2024 02:31	WG2359321
Fluoranthene	U		0.00258	0.00681	1	09/11/2024 02:31	WG2359321
Fluorene	U		0.00233	0.00681	1	09/11/2024 02:31	WG2359321
Indeno(1,2,3-cd)pyrene	U		0.00206	0.00681	1	09/11/2024 02:31	WG2359321
Naphthalene	U		0.00463	0.0227	1	09/11/2024 02:31	WG2359321
Phenanthrene	U		0.00262	0.00681	1	09/11/2024 02:31	WG2359321
Pyrene	U		0.00227	0.00681	1	09/11/2024 02:31	WG2359321
1-Methylnaphthalene	U		0.00510	0.0227	1	09/11/2024 02:31	WG2359321
2-Methylnaphthalene	0.00494	U	0.00485	0.0227	1	09/11/2024 02:31	WG2359321
2-Chloronaphthalene	U		0.00529	0.0227	1	09/11/2024 02:31	WG2359321
(S) p-Terphenyl-d14	74.4			23.0-120		09/11/2024 02:31	WG2359321
(S) Nitrobenzene-d5	80.5			14.0-149		09/11/2024 02:31	WG2359321
(S) 2-Fluorobiphenyl	69.5			34.0-125		09/11/2024 02:31	WG2359321

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	75.9		1	09/09/2024 12:53	WG2358557

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0610		0.0237	0.0527	1	09/09/2024 11:07	WG2358195

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	8.18		0.274	0.658	1	09/09/2024 22:22	WG2358340

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J3 J4	0.0603	0.0826	1	09/08/2024 22:33	WG2358479
Acrylonitrile	U		0.00596	0.0207	1	09/08/2024 22:33	WG2358479
Benzene	U		0.000772	0.00165	1	09/08/2024 22:33	WG2358479
Bromobenzene	U		0.00149	0.0207	1	09/08/2024 22:33	WG2358479
Bromodichloromethane	U		0.00120	0.00413	1	09/08/2024 22:33	WG2358479
Bromoform	U		0.00193	0.0413	1	09/08/2024 22:33	WG2358479
Bromomethane	U		0.00325	0.0207	1	09/08/2024 22:33	WG2358479
n-Butylbenzene	U		0.00867	0.0207	1	09/08/2024 22:33	WG2358479
sec-Butylbenzene	U		0.00476	0.0207	1	09/08/2024 22:33	WG2358479
tert-Butylbenzene	U		0.00322	0.00826	1	09/08/2024 22:33	WG2358479
Carbon tetrachloride	U		0.00148	0.00826	1	09/08/2024 22:33	WG2358479
Chlorobenzene	U		0.000347	0.00413	1	09/08/2024 22:33	WG2358479
Chlorodibromomethane	U		0.00101	0.00413	1	09/08/2024 22:33	WG2358479
Chloroethane	U		0.00281	0.00826	1	09/08/2024 22:33	WG2358479
Chloroform	U		0.00170	0.00413	1	09/08/2024 22:33	WG2358479
Chloromethane	U		0.00719	0.0207	1	09/08/2024 22:33	WG2358479
2-Chlorotoluene	U		0.00143	0.00413	1	09/08/2024 22:33	WG2358479
4-Chlorotoluene	U		0.000744	0.00826	1	09/08/2024 22:33	WG2358479
1,2-Dibromo-3-Chloropropane	U		0.00644	0.0413	1	09/08/2024 22:33	WG2358479
1,2-Dibromoethane	U		0.00107	0.00413	1	09/08/2024 22:33	WG2358479
Dibromomethane	U		0.00124	0.00826	1	09/08/2024 22:33	WG2358479
1,2-Dichlorobenzene	U		0.000702	0.00826	1	09/08/2024 22:33	WG2358479
1,3-Dichlorobenzene	U		0.000991	0.00826	1	09/08/2024 22:33	WG2358479
1,4-Dichlorobenzene	U		0.00116	0.00826	1	09/08/2024 22:33	WG2358479
Dichlorodifluoromethane	U		0.00266	0.00826	1	09/08/2024 22:33	WG2358479
1,1-Dichloroethane	U		0.000811	0.00413	1	09/08/2024 22:33	WG2358479
1,2-Dichloroethane	U		0.00107	0.00413	1	09/08/2024 22:33	WG2358479
1,1-Dichloroethene	U		0.00100	0.00413	1	09/08/2024 22:33	WG2358479
cis-1,2-Dichloroethene	U		0.00121	0.00413	1	09/08/2024 22:33	WG2358479
trans-1,2-Dichloroethene	U		0.00172	0.00826	1	09/08/2024 22:33	WG2358479
1,2-Dichloropropane	U		0.00235	0.00826	1	09/08/2024 22:33	WG2358479
1,1-Dichloropropene	U		0.00134	0.00413	1	09/08/2024 22:33	WG2358479
1,3-Dichloropropane	U		0.000828	0.00826	1	09/08/2024 22:33	WG2358479
cis-1,3-Dichloropropene	U		0.00125	0.00413	1	09/08/2024 22:33	WG2358479
trans-1,3-Dichloropropene	U		0.00188	0.00826	1	09/08/2024 22:33	WG2358479
2,2-Dichloropropane	U		0.00228	0.00413	1	09/08/2024 22:33	WG2358479
Di-isopropyl ether	U		0.000677	0.00165	1	09/08/2024 22:33	WG2358479
Ethylbenzene	U		0.00122	0.00413	1	09/08/2024 22:33	WG2358479
Hexachloro-1,3-butadiene	U		0.00991	0.0413	1	09/08/2024 22:33	WG2358479

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000702	0.00413	1	09/08/2024 22:33	WG2358479
p-Isopropyltoluene	U		0.00421	0.00826	1	09/08/2024 22:33	WG2358479
2-Butanone (MEK)	U		0.105	0.165	1	09/08/2024 22:33	WG2358479
Methylene Chloride	U		0.0110	0.0413	1	09/08/2024 22:33	WG2358479
4-Methyl-2-pentanone (MIBK)	U	J3 J4	0.00377	0.0413	1	09/08/2024 22:33	WG2358479
Methyl tert-butyl ether	U		0.000578	0.00165	1	09/08/2024 22:33	WG2358479
Naphthalene	U		0.00806	0.0207	1	09/08/2024 22:33	WG2358479
n-Propylbenzene	U		0.00157	0.00826	1	09/08/2024 22:33	WG2358479
Styrene	U		0.000378	0.0207	1	09/08/2024 22:33	WG2358479
1,1,1,2-Tetrachloroethane	U		0.00157	0.00413	1	09/08/2024 22:33	WG2358479
1,1,2,2-Tetrachloroethane	U	C3	0.00115	0.00413	1	09/08/2024 22:33	WG2358479
1,1,2-Trichlorotrifluoroethane	U	C3 J4	0.00125	0.00413	1	09/08/2024 22:33	WG2358479
Tetrachloroethene	U		0.00148	0.00413	1	09/08/2024 22:33	WG2358479
Toluene	U		0.00215	0.00826	1	09/08/2024 22:33	WG2358479
1,2,3-Trichlorobenzene	U		0.0121	0.0207	1	09/08/2024 22:33	WG2358479
1,2,4-Trichlorobenzene	U		0.00727	0.0207	1	09/08/2024 22:33	WG2358479
1,1,1-Trichloroethane	U		0.00153	0.00413	1	09/08/2024 22:33	WG2358479
1,1,2-Trichloroethane	U		0.000986	0.00413	1	09/08/2024 22:33	WG2358479
Trichloroethene	U		0.000965	0.00165	1	09/08/2024 22:33	WG2358479
Trichlorofluoromethane	U		0.00137	0.00413	1	09/08/2024 22:33	WG2358479
1,2,3-Trichloropropane	U		0.00268	0.0207	1	09/08/2024 22:33	WG2358479
1,2,4-Trimethylbenzene	U		0.00261	0.00826	1	09/08/2024 22:33	WG2358479
1,2,3-Trimethylbenzene	U		0.00261	0.00826	1	09/08/2024 22:33	WG2358479
1,3,5-Trimethylbenzene	U		0.00330	0.00826	1	09/08/2024 22:33	WG2358479
Vinyl chloride	U		0.00192	0.00413	1	09/08/2024 22:33	WG2358479
Xylenes, Total	U		0.00145	0.0107	1	09/08/2024 22:33	WG2358479
(S) Toluene-d8	108			75.0-131		09/08/2024 22:33	WG2358479
(S) 4-Bromofluorobenzene	108			67.0-138		09/08/2024 22:33	WG2358479
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		09/08/2024 22:33	WG2358479

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.75	5.27	1	09/11/2024 00:58	WG2359178
Residual Range Organics (RRO)	U		4.39	13.2	1	09/11/2024 00:58	WG2359178
(S) o-Terphenyl	68.5			18.0-148		09/11/2024 00:58	WG2359178

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		0.0155	0.0448	1	09/11/2024 05:26	WG2359656
PCB 1221	U		0.0155	0.0448	1	09/11/2024 05:26	WG2359656
PCB 1232	U		0.0155	0.0448	1	09/11/2024 05:26	WG2359656
PCB 1242	U		0.0155	0.0448	1	09/11/2024 05:26	WG2359656
PCB 1248	U		0.00972	0.0224	1	09/11/2024 05:26	WG2359656
PCB 1254	U		0.00972	0.0224	1	09/11/2024 05:26	WG2359656
PCB 1260	U		0.00972	0.0224	1	09/11/2024 05:26	WG2359656
(S) Decachlorobiphenyl	96.1			10.0-135		09/11/2024 05:26	WG2359656
(S) Tetrachloro-m-xylene	94.7			10.0-139		09/11/2024 05:26	WG2359656

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00303	0.00790	1	09/11/2024 02:49	WG2359321
Acenaphthene	U		0.00275	0.00790	1	09/11/2024 02:49	WG2359321
Acenaphthylene	U		0.00284	0.00790	1	09/11/2024 02:49	WG2359321
Benzo(a)anthracene	U		0.00228	0.00790	1	09/11/2024 02:49	WG2359321
Benzo(a)pyrene	U		0.00236	0.00790	1	09/11/2024 02:49	WG2359321
Benzo(b)fluoranthene	U		0.00201	0.00790	1	09/11/2024 02:49	WG2359321
Benzo(g,h,i)perylene	U		0.00233	0.00790	1	09/11/2024 02:49	WG2359321
Benzo(k)fluoranthene	U		0.00283	0.00790	1	09/11/2024 02:49	WG2359321
Chrysene	U		0.00306	0.00790	1	09/11/2024 02:49	WG2359321
Dibenz(a,h)anthracene	U		0.00227	0.00790	1	09/11/2024 02:49	WG2359321
Fluoranthene	U		0.00299	0.00790	1	09/11/2024 02:49	WG2359321
Fluorene	U		0.00270	0.00790	1	09/11/2024 02:49	WG2359321
Indeno(1,2,3-cd)pyrene	U		0.00238	0.00790	1	09/11/2024 02:49	WG2359321
Naphthalene	U		0.00537	0.0263	1	09/11/2024 02:49	WG2359321
Phenanthrene	U		0.00304	0.00790	1	09/11/2024 02:49	WG2359321
Pyrene	U		0.00263	0.00790	1	09/11/2024 02:49	WG2359321
1-Methylnaphthalene	U		0.00591	0.0263	1	09/11/2024 02:49	WG2359321
2-Methylnaphthalene	U		0.00562	0.0263	1	09/11/2024 02:49	WG2359321
2-Chloronaphthalene	U		0.00614	0.0263	1	09/11/2024 02:49	WG2359321
(S) p-Terphenyl-d14	47.5			23.0-120		09/11/2024 02:49	WG2359321
(S) Nitrobenzene-d5	52.3			14.0-149		09/11/2024 02:49	WG2359321
(S) 2-Fluorobiphenyl	49.1			34.0-125		09/11/2024 02:49	WG2359321

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Method Blank (MB)

(MB) R4117503-1 09/09/24 12:47

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1775106-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1775106-04 09/09/24 12:47 • (DUP) R4117503-3 09/09/24 12:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	84.2	84.1	1	0.0818		10

Laboratory Control Sample (LCS)

(LCS) R4117503-2 09/09/24 12:47

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4117504-1 09/09/24 12:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1775498-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1775498-08 09/09/24 12:53 • (DUP) R4117504-3 09/09/24 12:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	81.7	82.3	1	0.781		10

Laboratory Control Sample (LCS)

(LCS) R4117504-2 09/09/24 12:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.4	101	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4117186-1 09/09/24 09:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4117186-2 09/09/24 10:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.572	114	80.0-120	

L1775216-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775216-07 09/09/24 10:04 • (MS) R4117186-4 09/09/24 10:09 • (MSD) R4117186-5 09/09/24 10:12

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.500	0.0368	0.505	0.500	93.6	92.7	1	75.0-125			0.944	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4117464-1 09/09/24 21:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4117464-2 09/09/24 21:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	90.2	90.2	80.0-120	

L1774829-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774829-05 09/09/24 21:45 • (MS) R4117464-5 09/09/24 21:50 • (MSD) R4117464-6 09/09/24 21:52

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 %
Lead	104	70.7	120	167	47.7	92.0	1	75.0-125	J6	J3	32.3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118158-2 09/08/24 15:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4118158-2 09/08/24 15:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	99.2			67.0-138
(S) 1,2-Dichloroethane-d4	90.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4118158-1 09/08/24 14:17 • (LCSD) R4118158-3 09/08/24 16:12

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	0.625	0.673	1.05	108	168	10.0-160		J3 J4	43.8	31
Acrylonitrile	0.625	0.804	0.835	129	134	45.0-153			3.78	22
Benzene	0.125	0.119	0.109	95.2	87.2	70.0-123			8.77	20
Bromobenzene	0.125	0.104	0.108	83.2	86.4	73.0-121			3.77	20
Bromodichloromethane	0.125	0.111	0.102	88.8	81.6	73.0-121			8.45	20

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

(LCS) R4118158-1 09/08/24 14:17 • (LCSD) R4118158-3 09/08/24 16:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.123	0.128	98.4	102	64.0-132			3.98	20
Bromomethane	0.125	0.126	0.126	101	101	56.0-147			0.000	20
n-Butylbenzene	0.125	0.127	0.120	102	96.0	68.0-135			5.67	20
sec-Butylbenzene	0.125	0.112	0.113	89.6	90.4	74.0-130			0.889	20
tert-Butylbenzene	0.125	0.110	0.108	88.0	86.4	75.0-127			1.83	20
Carbon tetrachloride	0.125	0.109	0.0981	87.2	78.5	66.0-128			10.5	20
Chlorobenzene	0.125	0.131	0.116	105	92.8	76.0-128			12.1	20
Chlorodibromomethane	0.125	0.123	0.127	98.4	102	74.0-127			3.20	20
Chloroethane	0.125	0.143	0.123	114	98.4	61.0-134			15.0	20
Chloroform	0.125	0.113	0.106	90.4	84.8	72.0-123			6.39	20
Chloromethane	0.125	0.138	0.136	110	109	51.0-138			1.46	20
2-Chlorotoluene	0.125	0.106	0.108	84.8	86.4	75.0-124			1.87	20
4-Chlorotoluene	0.125	0.104	0.112	83.2	89.6	75.0-124			7.41	20
1,2-Dibromo-3-Chloropropane	0.125	0.117	0.114	93.6	91.2	59.0-130			2.60	20
1,2-Dibromoethane	0.125	0.124	0.123	99.2	98.4	74.0-128			0.810	20
Dibromomethane	0.125	0.114	0.111	91.2	88.8	75.0-122			2.67	20
1,2-Dichlorobenzene	0.125	0.124	0.115	99.2	92.0	76.0-124			7.53	20
1,3-Dichlorobenzene	0.125	0.122	0.112	97.6	89.6	76.0-125			8.55	20
1,4-Dichlorobenzene	0.125	0.121	0.109	96.8	87.2	77.0-121			10.4	20
Dichlorodifluoromethane	0.125	0.124	0.131	99.2	105	43.0-156			5.49	20
1,1-Dichloroethane	0.125	0.125	0.119	100	95.2	70.0-127			4.92	20
1,2-Dichloroethane	0.125	0.108	0.105	86.4	84.0	65.0-131			2.82	20
1,1-Dichloroethene	0.125	0.122	0.113	97.6	90.4	65.0-131			7.66	20
cis-1,2-Dichloroethene	0.125	0.109	0.104	87.2	83.2	73.0-125			4.69	20
trans-1,2-Dichloroethene	0.125	0.115	0.105	92.0	84.0	71.0-125			9.09	20
1,2-Dichloropropane	0.125	0.136	0.125	109	100	74.0-125			8.43	20
1,1-Dichloropropene	0.125	0.117	0.105	93.6	84.0	73.0-125			10.8	20
1,3-Dichloropropane	0.125	0.120	0.142	96.0	114	80.0-125			16.8	20
cis-1,3-Dichloropropene	0.125	0.109	0.114	87.2	91.2	76.0-127			4.48	20
trans-1,3-Dichloropropene	0.125	0.122	0.141	97.6	113	73.0-127			14.4	20
2,2-Dichloropropane	0.125	0.105	0.106	84.0	84.8	59.0-135			0.948	20
Di-isopropyl ether	0.125	0.161	0.155	129	124	60.0-136			3.80	20
Ethylbenzene	0.125	0.125	0.112	100	89.6	74.0-126			11.0	20
Hexachloro-1,3-butadiene	0.125	0.138	0.141	110	113	57.0-150			2.15	20
Isopropylbenzene	0.125	0.139	0.143	111	114	72.0-127			2.84	20
p-Isopropyltoluene	0.125	0.121	0.118	96.8	94.4	72.0-133			2.51	20
2-Butanone (MEK)	0.625	0.922	0.909	148	145	30.0-160			1.42	24
Methylene Chloride	0.125	0.102	0.0914	81.6	73.1	68.0-123			11.0	20
4-Methyl-2-pentanone (MIBK)	0.625	0.670	0.915	107	146	56.0-143		J3 J4	30.9	20
Methyl tert-butyl ether	0.125	0.117	0.0965	93.6	77.2	66.0-132			19.2	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4118158-1 09/08/24 14:17 • (LCSD) R4118158-3 09/08/24 16:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.118	0.111	94.4	88.8	59.0-130			6.11	20
n-Propylbenzene	0.125	0.103	0.109	82.4	87.2	74.0-126			5.66	20
Styrene	0.125	0.116	0.122	92.8	97.6	72.0-127			5.04	20
1,1,1,2-Tetrachloroethane	0.125	0.130	0.114	104	91.2	74.0-129			13.1	20
1,1,2,2-Tetrachloroethane	0.125	0.0944	0.114	75.5	91.2	68.0-128			18.8	20
1,1,2-Trichlorotrifluoroethane	0.125	0.0728	0.0713	58.2	57.0	61.0-139	J4	J4	2.08	20
Tetrachloroethene	0.125	0.128	0.131	102	105	70.0-136			2.32	20
Toluene	0.125	0.117	0.132	93.6	106	75.0-121			12.0	20
1,2,3-Trichlorobenzene	0.125	0.124	0.121	99.2	96.8	59.0-139			2.45	20
1,2,4-Trichlorobenzene	0.125	0.120	0.117	96.0	93.6	62.0-137			2.53	20
1,1,1-Trichloroethane	0.125	0.110	0.102	88.0	81.6	69.0-126			7.55	20
1,1,2-Trichloroethane	0.125	0.119	0.137	95.2	110	78.0-123			14.1	20
Trichloroethene	0.125	0.123	0.108	98.4	86.4	76.0-126			13.0	20
Trichlorofluoromethane	0.125	0.129	0.121	103	96.8	61.0-142			6.40	20
1,2,3-Trichloropropane	0.125	0.104	0.113	83.2	90.4	67.0-129			8.29	20
1,2,4-Trimethylbenzene	0.125	0.114	0.114	91.2	91.2	70.0-126			0.000	20
1,2,3-Trimethylbenzene	0.125	0.123	0.109	98.4	87.2	74.0-124			12.1	20
1,3,5-Trimethylbenzene	0.125	0.108	0.112	86.4	89.6	73.0-127			3.64	20
Vinyl chloride	0.125	0.140	0.135	112	108	63.0-134			3.64	20
Xylenes, Total	0.375	0.379	0.361	101	96.3	72.0-127			4.86	20
(S) Toluene-d8				97.5	119	75.0-131				
(S) 4-Bromofluorobenzene				98.1	116	67.0-138				
(S) 1,2-Dichloroethane-d4				92.4	97.9	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118254-1 09/11/24 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	89.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4118254-2 09/11/24 00:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	37.0	74.0	50.0-150	
(S) o-Terphenyl			88.4	18.0-148	

L1774065-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774065-12 09/11/24 01:37 • (MS) R4118254-3 09/11/24 01:51 • (MSD) R4118254-4 09/11/24 02:04

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 %
Diesel Range Organics (DRO)	50.3	U	30.2	34.5	60.1	68.7	1	50.0-150			13.3	20
(S) o-Terphenyl					66.7	74.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118183-1 09/11/24 01:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	85.4			10.0-135
(S) Tetrachloro-m-xylene	85.3			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4118183-2 09/11/24 01:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.0877	52.5	36.0-141	
PCB 1260	0.167	0.0885	53.0	37.0-145	
(S) Decachlorobiphenyl			54.1	10.0-135	
(S) Tetrachloro-m-xylene			55.1	10.0-139	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4118446-2 09/10/24 22:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	86.9			23.0-120
(S) Nitrobenzene-d5	90.5			14.0-149
(S) 2-Fluorobiphenyl	81.5			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4118446-1 09/10/24 22:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0768	96.0	50.0-126	
Acenaphthene	0.0800	0.0703	87.9	50.0-120	
Acenaphthylene	0.0800	0.0705	88.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0799	99.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0793	99.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0863	108	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0840	105	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0795	99.4	49.0-125	
Chrysene	0.0800	0.0845	106	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0841	105	47.0-125	
Fluoranthene	0.0800	0.0775	96.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4118446-1 09/10/24 22:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0753	94.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0813	102	46.0-125	
Naphthalene	0.0800	0.0627	78.4	50.0-120	
Phenanthrene	0.0800	0.0807	101	47.0-120	
Pyrene	0.0800	0.0906	113	43.0-123	
1-Methylnaphthalene	0.0800	0.0661	82.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0636	79.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0658	82.3	50.0-120	
(S) p-Terphenyl-d14			83.2	23.0-120	
(S) Nitrobenzene-d5			93.0	14.0-149	
(S) 2-Fluorobiphenyl			81.8	34.0-125	

L1773273-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773273-01 09/11/24 03:06 • (MS) R4118446-3 09/11/24 03:23 • (MSD) R4118446-4 09/11/24 03:40

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0796	0.0173	0.107	0.0997	113	104	1	10.0-145			7.06	30
Acenaphthene	0.0796	0.0180	0.101	0.0918	104	93.2	1	14.0-127			9.54	27
Acenaphthylene	0.0796	U	0.0830	0.0776	104	98.0	1	21.0-124			6.72	25
Benzo(a)anthracene	0.0796	0.00580	0.0869	0.0839	102	98.6	1	10.0-139			3.51	30
Benzo(a)pyrene	0.0796	0.00340	0.0856	0.0835	103	101	1	10.0-141			2.48	31
Benzo(b)fluoranthene	0.0796	U	0.0895	0.0872	112	110	1	10.0-140			2.60	36
Benzo(g,h,i)perylene	0.0796	0.00247	0.0889	0.0871	109	107	1	10.0-140			2.05	33
Benzo(k)fluoranthene	0.0796	U	0.0860	0.0839	108	106	1	10.0-137			2.47	31
Chrysene	0.0796	0.00307	0.0865	0.0881	105	107	1	10.0-145			1.83	30
Dibenz(a,h)anthracene	0.0796	U	0.0844	0.0830	106	105	1	10.0-132			1.67	31
Fluoranthene	0.0796	0.00738	0.0874	0.0873	101	101	1	10.0-153			0.114	33
Fluorene	0.0796	0.0234	0.111	0.0983	110	94.6	1	11.0-130			12.1	29
Indeno(1,2,3-cd)pyrene	0.0796	U	0.0827	0.0830	104	105	1	10.0-137			0.362	32
Naphthalene	0.0796	2.06	5.31	3.93	4080	2360	1	10.0-135	E V	J3 V	29.9	27
Phenanthrene	0.0796	0.0422	0.141	0.127	124	107	1	10.0-144			10.4	31
Pyrene	0.0796	0.0123	0.112	0.106	125	118	1	10.0-148			5.50	35
1-Methylnaphthalene	0.0796	1.55	3.25	2.42	2140	1100	1	10.0-142	V	J3 V	29.3	28
2-Methylnaphthalene	0.0796	2.94	6.16	4.56	4050	2050	1	10.0-137	E V	E J3 V	29.9	28
2-Chloronaphthalene	0.0796	U	0.0642	0.0646	80.7	81.6	1	29.0-120			0.621	24
(S) p-Terphenyl-d14					82.3	78.1		23.0-120				
(S) Nitrobenzene-d5					186	155		14.0-149	J1	J1		
(S) 2-Fluorobiphenyl					73.7	71.3		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

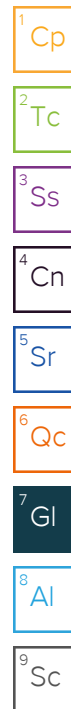
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

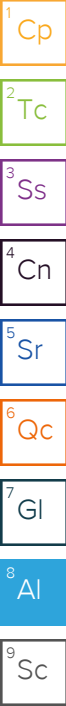
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.

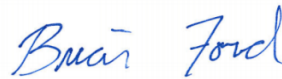


Earth Engineers - Camas, WA

Sample Delivery Group: L1774787
Samples Received: 09/06/2024
Project Number: 10-240350
Description: Waterfront Soils Removal

Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
A_F_Q+0-17_4D+35-70@13' L1774787-01	5
A_F_Q+17-35_4D+40-70@13' L1774787-02	8
A_F_Q+20-36_4D+10-40@12.5' L1774787-03	11
Qc: Quality Control Summary	14
Total Solids by Method 2540 G-2011	14
Mercury by Method 7471B	15
Metals (ICP) by Method 6010D	16
Volatile Organic Compounds (GC/MS) by Method 8260D	17
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	21
Polychlorinated Biphenyls (GC) by Method 8082 A	22
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	23
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27

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

SAMPLE SUMMARY

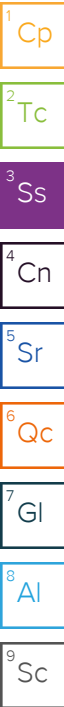
A_F_Q+0-17_4D+35-70@13' L1774787-01 Solid

Collected by
David Hannant

Collected date/time
09/05/24 10:54

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2357880	1	09/07/24 09:32	09/07/24 09:45	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2357768	1	09/07/24 13:31	09/07/24 18:12	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2358339	1	09/11/24 11:09	09/11/24 15:39	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2357841	1.05	09/05/24 10:54	09/07/24 02:13	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2359178	1	09/10/24 08:17	09/11/24 17:54	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2359164	1	09/10/24 08:31	09/11/24 15:14	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2359159	1	09/10/24 07:07	09/10/24 17:15	MBE	Mt. Juliet, TN



A_F_Q+17-35_4D+40-70@13' L1774787-02 Solid

Collected by
David Hannant

Collected date/time
09/05/24 11:10

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2357880	1	09/07/24 09:32	09/07/24 09:45	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2357768	1	09/07/24 13:31	09/07/24 18:15	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2358339	1	09/11/24 11:09	09/11/24 15:41	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2357841	1.01	09/05/24 11:10	09/07/24 02:32	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2359178	1	09/10/24 08:17	09/11/24 18:07	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2359164	1	09/10/24 08:31	09/11/24 15:24	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2359159	1	09/10/24 07:07	09/10/24 13:26	MBE	Mt. Juliet, TN

A_F_Q+20-36_4D+10-40@12.5' L1774787-03 Solid

Collected by
David Hannant

Collected date/time
09/05/24 11:45

Received date/time
09/06/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2357880	1	09/07/24 09:32	09/07/24 09:45	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2357768	1	09/07/24 13:31	09/07/24 18:17	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2358339	1	09/11/24 11:09	09/11/24 15:43	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2357841	1	09/05/24 11:45	09/07/24 02:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2359178	1	09/10/24 08:17	09/11/24 01:11	NH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2359164	1	09/10/24 08:31	09/11/24 14:53	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2359159	1	09/10/24 07:07	09/10/24 13:43	MBE	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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.1		1	09/07/2024 09:45	WG2357880

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0200	0.0444	1	09/07/2024 18:12	WG2357768

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	6.60		0.231	0.555	1	09/11/2024 15:39	WG2358339

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0465	0.0638	1.05	09/07/2024 02:13	WG2357841
Acrylonitrile	U		0.00460	0.0159	1.05	09/07/2024 02:13	WG2357841
Benzene	U		0.000595	0.00128	1.05	09/07/2024 02:13	WG2357841
Bromobenzene	U		0.00115	0.0159	1.05	09/07/2024 02:13	WG2357841
Bromodichloromethane	U		0.000925	0.00320	1.05	09/07/2024 02:13	WG2357841
Bromoform	U		0.00149	0.0320	1.05	09/07/2024 02:13	WG2357841
Bromomethane	U		0.00252	0.0159	1.05	09/07/2024 02:13	WG2357841
n-Butylbenzene	U		0.00669	0.0159	1.05	09/07/2024 02:13	WG2357841
sec-Butylbenzene	U		0.00367	0.0159	1.05	09/07/2024 02:13	WG2357841
tert-Butylbenzene	U		0.00249	0.00638	1.05	09/07/2024 02:13	WG2357841
Carbon tetrachloride	U		0.00115	0.00638	1.05	09/07/2024 02:13	WG2357841
Chlorobenzene	U		0.000269	0.00320	1.05	09/07/2024 02:13	WG2357841
Chlorodibromomethane	U		0.000781	0.00320	1.05	09/07/2024 02:13	WG2357841
Chloroethane	U		0.00217	0.00638	1.05	09/07/2024 02:13	WG2357841
Chloroform	U		0.00131	0.00320	1.05	09/07/2024 02:13	WG2357841
Chloromethane	U		0.00555	0.0159	1.05	09/07/2024 02:13	WG2357841
2-Chlorotoluene	U		0.00110	0.00320	1.05	09/07/2024 02:13	WG2357841
4-Chlorotoluene	U		0.000575	0.00638	1.05	09/07/2024 02:13	WG2357841
1,2-Dibromo-3-Chloropropane	U		0.00497	0.0320	1.05	09/07/2024 02:13	WG2357841
1,2-Dibromoethane	U		0.000826	0.00320	1.05	09/07/2024 02:13	WG2357841
Dibromomethane	U		0.000957	0.00638	1.05	09/07/2024 02:13	WG2357841
1,2-Dichlorobenzene	U		0.000542	0.00638	1.05	09/07/2024 02:13	WG2357841
1,3-Dichlorobenzene	U		0.000765	0.00638	1.05	09/07/2024 02:13	WG2357841
1,4-Dichlorobenzene	U		0.000893	0.00638	1.05	09/07/2024 02:13	WG2357841
Dichlorodifluoromethane	U		0.00205	0.00638	1.05	09/07/2024 02:13	WG2357841
1,1-Dichloroethane	U		0.000627	0.00320	1.05	09/07/2024 02:13	WG2357841
1,2-Dichloroethane	U		0.000827	0.00320	1.05	09/07/2024 02:13	WG2357841
1,1-Dichloroethene	U		0.000773	0.00320	1.05	09/07/2024 02:13	WG2357841
cis-1,2-Dichloroethene	U		0.000937	0.00320	1.05	09/07/2024 02:13	WG2357841
trans-1,2-Dichloroethene	U		0.00132	0.00638	1.05	09/07/2024 02:13	WG2357841
1,2-Dichloropropane	U		0.00181	0.00638	1.05	09/07/2024 02:13	WG2357841
1,1-Dichloropropene	U		0.00103	0.00320	1.05	09/07/2024 02:13	WG2357841
1,3-Dichloropropane	U		0.000639	0.00638	1.05	09/07/2024 02:13	WG2357841
cis-1,3-Dichloropropene	U		0.000966	0.00320	1.05	09/07/2024 02:13	WG2357841
trans-1,3-Dichloropropene	U		0.00146	0.00638	1.05	09/07/2024 02:13	WG2357841
2,2-Dichloropropane	U		0.00176	0.00320	1.05	09/07/2024 02:13	WG2357841
Di-isopropyl ether	U		0.000524	0.00128	1.05	09/07/2024 02:13	WG2357841
Ethylbenzene	U		0.000940	0.00320	1.05	09/07/2024 02:13	WG2357841
Hexachloro-1,3-butadiene	U		0.00765	0.0320	1.05	09/07/2024 02:13	WG2357841

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000542	0.00320	1.05	09/07/2024 02:13	WG2357841
p-Isopropyltoluene	U		0.00326	0.00638	1.05	09/07/2024 02:13	WG2357841
2-Butanone (MEK)	U		0.0810	0.128	1.05	09/07/2024 02:13	WG2357841
Methylene Chloride	U		0.00847	0.0320	1.05	09/07/2024 02:13	WG2357841
4-Methyl-2-pentanone (MIBK)	U		0.00290	0.0320	1.05	09/07/2024 02:13	WG2357841
Methyl tert-butyl ether	U		0.000447	0.00128	1.05	09/07/2024 02:13	WG2357841
Naphthalene	U		0.00622	0.0159	1.05	09/07/2024 02:13	WG2357841
n-Propylbenzene	U		0.00121	0.00638	1.05	09/07/2024 02:13	WG2357841
Styrene	U		0.000292	0.0159	1.05	09/07/2024 02:13	WG2357841
1,1,1,2-Tetrachloroethane	U		0.00121	0.00320	1.05	09/07/2024 02:13	WG2357841
1,1,2,2-Tetrachloroethane	U		0.000887	0.00320	1.05	09/07/2024 02:13	WG2357841
1,1,2-Trichlorotrifluoroethane	U		0.000962	0.00320	1.05	09/07/2024 02:13	WG2357841
Tetrachloroethene	U		0.00114	0.00320	1.05	09/07/2024 02:13	WG2357841
Toluene	U		0.00165	0.00638	1.05	09/07/2024 02:13	WG2357841
1,2,3-Trichlorobenzene	U		0.00936	0.0159	1.05	09/07/2024 02:13	WG2357841
1,2,4-Trichlorobenzene	U		0.00561	0.0159	1.05	09/07/2024 02:13	WG2357841
1,1,1-Trichloroethane	U		0.00118	0.00320	1.05	09/07/2024 02:13	WG2357841
1,1,2-Trichloroethane	U		0.000762	0.00320	1.05	09/07/2024 02:13	WG2357841
Trichloroethene	U		0.000745	0.00128	1.05	09/07/2024 02:13	WG2357841
Trichlorofluoromethane	U	J3	0.00105	0.00320	1.05	09/07/2024 02:13	WG2357841
1,2,3-Trichloropropane	U		0.00207	0.0159	1.05	09/07/2024 02:13	WG2357841
1,2,4-Trimethylbenzene	U		0.00202	0.00638	1.05	09/07/2024 02:13	WG2357841
1,2,3-Trimethylbenzene	U		0.00202	0.00638	1.05	09/07/2024 02:13	WG2357841
1,3,5-Trimethylbenzene	U		0.00255	0.00638	1.05	09/07/2024 02:13	WG2357841
Vinyl chloride	U		0.00148	0.00320	1.05	09/07/2024 02:13	WG2357841
Xylenes, Total	0.00200	J	0.00112	0.00830	1.05	09/07/2024 02:13	WG2357841
(S) Toluene-d8	104			75.0-131		09/07/2024 02:13	WG2357841
(S) 4-Bromofluorobenzene	101			67.0-138		09/07/2024 02:13	WG2357841
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		09/07/2024 02:13	WG2357841

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	19.6		1.48	4.44	1	09/11/2024 17:54	WG2359178
Residual Range Organics (RRO)	33.2		3.70	11.1	1	09/11/2024 17:54	WG2359178
(S) o-Terphenyl	40.5			18.0-148		09/11/2024 17:54	WG2359178

Sample Narrative:

L1774787-01 WG2359178: Sample resembles laboratory standard for Motor Oil.

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		0.0131	0.0377	1	09/11/2024 15:14	WG2359164
PCB 1221	U		0.0131	0.0377	1	09/11/2024 15:14	WG2359164
PCB 1232	U		0.0131	0.0377	1	09/11/2024 15:14	WG2359164
PCB 1242	U		0.0131	0.0377	1	09/11/2024 15:14	WG2359164
PCB 1248	U		0.00819	0.0189	1	09/11/2024 15:14	WG2359164
PCB 1254	U		0.00819	0.0189	1	09/11/2024 15:14	WG2359164
PCB 1260	U		0.00819	0.0189	1	09/11/2024 15:14	WG2359164
(S) Decachlorobiphenyl	93.1			10.0-135		09/11/2024 15:14	WG2359164
(S) Tetrachloro-m-xylene	97.9			10.0-139		09/11/2024 15:14	WG2359164

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00255	0.00666	1	09/10/2024 17:15	WG2359159
Acenaphthene	U		0.00232	0.00666	1	09/10/2024 17:15	WG2359159
Acenaphthylene	U		0.00240	0.00666	1	09/10/2024 17:15	WG2359159
Benzo(a)anthracene	U		0.00192	0.00666	1	09/10/2024 17:15	WG2359159
Benzo(a)pyrene	U		0.00199	0.00666	1	09/10/2024 17:15	WG2359159
Benzo(b)fluoranthene	U		0.00170	0.00666	1	09/10/2024 17:15	WG2359159
Benzo(g,h,i)perylene	U		0.00196	0.00666	1	09/10/2024 17:15	WG2359159
Benzo(k)fluoranthene	U		0.00239	0.00666	1	09/10/2024 17:15	WG2359159
Chrysene	U		0.00258	0.00666	1	09/10/2024 17:15	WG2359159
Dibenz(a,h)anthracene	U		0.00191	0.00666	1	09/10/2024 17:15	WG2359159
Fluoranthene	U		0.00252	0.00666	1	09/10/2024 17:15	WG2359159
Fluorene	U		0.00228	0.00666	1	09/10/2024 17:15	WG2359159
Indeno(1,2,3-cd)pyrene	U		0.00201	0.00666	1	09/10/2024 17:15	WG2359159
Naphthalene	U		0.00453	0.0222	1	09/10/2024 17:15	WG2359159
Phenanthrene	U		0.00256	0.00666	1	09/10/2024 17:15	WG2359159
Pyrene	U		0.00222	0.00666	1	09/10/2024 17:15	WG2359159
1-Methylnaphthalene	U		0.00498	0.0222	1	09/10/2024 17:15	WG2359159
2-Methylnaphthalene	U		0.00474	0.0222	1	09/10/2024 17:15	WG2359159
2-Chloronaphthalene	U		0.00517	0.0222	1	09/10/2024 17:15	WG2359159
(S) p-Terphenyl-d14	82.6			23.0-120		09/10/2024 17:15	WG2359159
(S) Nitrobenzene-d5	99.1			14.0-149		09/10/2024 17:15	WG2359159
(S) 2-Fluorobiphenyl	81.0			34.0-125		09/10/2024 17:15	WG2359159

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.6		1	09/07/2024 09:45	WG2357880

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0201	0.0446	1	09/07/2024 18:15	WG2357768

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	26.4		0.232	0.558	1	09/11/2024 15:41	WG2358339

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0454	0.0622	1.01	09/07/2024 02:32	WG2357841
Acrylonitrile	U		0.00449	0.0155	1.01	09/07/2024 02:32	WG2357841
Benzene	U		0.000581	0.00124	1.01	09/07/2024 02:32	WG2357841
Bromobenzene	U		0.00112	0.0155	1.01	09/07/2024 02:32	WG2357841
Bromodichloromethane	U		0.000901	0.00311	1.01	09/07/2024 02:32	WG2357841
Bromoform	U		0.00145	0.0311	1.01	09/07/2024 02:32	WG2357841
Bromomethane	U		0.00245	0.0155	1.01	09/07/2024 02:32	WG2357841
n-Butylbenzene	U		0.00652	0.0155	1.01	09/07/2024 02:32	WG2357841
sec-Butylbenzene	U		0.00358	0.0155	1.01	09/07/2024 02:32	WG2357841
tert-Butylbenzene	U		0.00242	0.00622	1.01	09/07/2024 02:32	WG2357841
Carbon tetrachloride	U		0.00112	0.00622	1.01	09/07/2024 02:32	WG2357841
Chlorobenzene	U		0.000261	0.00311	1.01	09/07/2024 02:32	WG2357841
Chlorodibromomethane	U		0.000761	0.00311	1.01	09/07/2024 02:32	WG2357841
Chloroethane	U		0.00212	0.00622	1.01	09/07/2024 02:32	WG2357841
Chloroform	U		0.00128	0.00311	1.01	09/07/2024 02:32	WG2357841
Chloromethane	U		0.00540	0.0155	1.01	09/07/2024 02:32	WG2357841
2-Chlorotoluene	U		0.00108	0.00311	1.01	09/07/2024 02:32	WG2357841
4-Chlorotoluene	U		0.000560	0.00622	1.01	09/07/2024 02:32	WG2357841
1,2-Dibromo-3-Chloropropane	U		0.00485	0.0311	1.01	09/07/2024 02:32	WG2357841
1,2-Dibromoethane	U		0.000805	0.00311	1.01	09/07/2024 02:32	WG2357841
Dibromomethane	U		0.000932	0.00622	1.01	09/07/2024 02:32	WG2357841
1,2-Dichlorobenzene	U		0.000528	0.00622	1.01	09/07/2024 02:32	WG2357841
1,3-Dichlorobenzene	U		0.000746	0.00622	1.01	09/07/2024 02:32	WG2357841
1,4-Dichlorobenzene	U		0.000870	0.00622	1.01	09/07/2024 02:32	WG2357841
Dichlorodifluoromethane	U		0.00201	0.00622	1.01	09/07/2024 02:32	WG2357841
1,1-Dichloroethane	U		0.000610	0.00311	1.01	09/07/2024 02:32	WG2357841
1,2-Dichloroethane	U		0.000806	0.00311	1.01	09/07/2024 02:32	WG2357841
1,1-Dichloroethene	U		0.000753	0.00311	1.01	09/07/2024 02:32	WG2357841
cis-1,2-Dichloroethene	U		0.000912	0.00311	1.01	09/07/2024 02:32	WG2357841
trans-1,2-Dichloroethene	U		0.00129	0.00622	1.01	09/07/2024 02:32	WG2357841
1,2-Dichloropropane	U		0.00176	0.00622	1.01	09/07/2024 02:32	WG2357841
1,1-Dichloropropene	U		0.00101	0.00311	1.01	09/07/2024 02:32	WG2357841
1,3-Dichloropropane	U		0.000623	0.00622	1.01	09/07/2024 02:32	WG2357841
cis-1,3-Dichloropropene	U		0.000942	0.00311	1.01	09/07/2024 02:32	WG2357841
trans-1,3-Dichloropropene	U		0.00142	0.00622	1.01	09/07/2024 02:32	WG2357841
2,2-Dichloropropane	U		0.00171	0.00311	1.01	09/07/2024 02:32	WG2357841
Di-isopropyl ether	U		0.000510	0.00124	1.01	09/07/2024 02:32	WG2357841
Ethylbenzene	U		0.000916	0.00311	1.01	09/07/2024 02:32	WG2357841
Hexachloro-1,3-butadiene	U		0.00746	0.0311	1.01	09/07/2024 02:32	WG2357841

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000528	0.00311	1.01	09/07/2024 02:32	WG2357841
p-Isopropyltoluene	U		0.00318	0.00622	1.01	09/07/2024 02:32	WG2357841
2-Butanone (MEK)	U		0.0789	0.124	1.01	09/07/2024 02:32	WG2357841
Methylene Chloride	U		0.00826	0.0311	1.01	09/07/2024 02:32	WG2357841
4-Methyl-2-pentanone (MIBK)	U		0.00283	0.0311	1.01	09/07/2024 02:32	WG2357841
Methyl tert-butyl ether	U		0.000434	0.00124	1.01	09/07/2024 02:32	WG2357841
Naphthalene	U		0.00607	0.0155	1.01	09/07/2024 02:32	WG2357841
n-Propylbenzene	U		0.00118	0.00622	1.01	09/07/2024 02:32	WG2357841
Styrene	U		0.000284	0.0155	1.01	09/07/2024 02:32	WG2357841
1,1,1,2-Tetrachloroethane	U		0.00118	0.00311	1.01	09/07/2024 02:32	WG2357841
1,1,2,2-Tetrachloroethane	U		0.000864	0.00311	1.01	09/07/2024 02:32	WG2357841
1,1,2-Trichlorotrifluoroethane	U		0.000938	0.00311	1.01	09/07/2024 02:32	WG2357841
Tetrachloroethene	U		0.00111	0.00311	1.01	09/07/2024 02:32	WG2357841
Toluene	0.00314	1J	0.00161	0.00622	1.01	09/07/2024 02:32	WG2357841
1,2,3-Trichlorobenzene	U		0.00911	0.0155	1.01	09/07/2024 02:32	WG2357841
1,2,4-Trichlorobenzene	U		0.00546	0.0155	1.01	09/07/2024 02:32	WG2357841
1,1,1-Trichloroethane	U		0.00115	0.00311	1.01	09/07/2024 02:32	WG2357841
1,1,2-Trichloroethane	U		0.000742	0.00311	1.01	09/07/2024 02:32	WG2357841
Trichloroethene	U		0.000726	0.00124	1.01	09/07/2024 02:32	WG2357841
Trichlorofluoromethane	U	J3	0.00103	0.00311	1.01	09/07/2024 02:32	WG2357841
1,2,3-Trichloropropane	U		0.00202	0.0155	1.01	09/07/2024 02:32	WG2357841
1,2,4-Trimethylbenzene	0.00220	1J	0.00197	0.00622	1.01	09/07/2024 02:32	WG2357841
1,2,3-Trimethylbenzene	U		0.00197	0.00622	1.01	09/07/2024 02:32	WG2357841
1,3,5-Trimethylbenzene	U		0.00249	0.00622	1.01	09/07/2024 02:32	WG2357841
Vinyl chloride	U		0.00144	0.00311	1.01	09/07/2024 02:32	WG2357841
Xylenes, Total	0.00153	1J	0.00109	0.00807	1.01	09/07/2024 02:32	WG2357841
(S) Toluene-d8	104			75.0-131		09/07/2024 02:32	WG2357841
(S) 4-Bromofluorobenzene	99.2			67.0-138		09/07/2024 02:32	WG2357841
(S) 1,2-Dichloroethane-d4	92.5			70.0-130		09/07/2024 02:32	WG2357841

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	29.2		1.48	4.46	1	09/11/2024 18:07	WG2359178
Residual Range Organics (RRO)	45.8		3.72	11.2	1	09/11/2024 18:07	WG2359178
(S) o-Terphenyl	66.8			18.0-148		09/11/2024 18:07	WG2359178

Sample Narrative:

L1774787-02 WG2359178: Sample resembles laboratory standard for Motor Oil.

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		0.0132	0.0379	1	09/11/2024 15:24	WG2359164
PCB 1221	U		0.0132	0.0379	1	09/11/2024 15:24	WG2359164
PCB 1232	U		0.0132	0.0379	1	09/11/2024 15:24	WG2359164
PCB 1242	U		0.0132	0.0379	1	09/11/2024 15:24	WG2359164
PCB 1248	U		0.00824	0.0190	1	09/11/2024 15:24	WG2359164
PCB 1254	U		0.00824	0.0190	1	09/11/2024 15:24	WG2359164
PCB 1260	U		0.00824	0.0190	1	09/11/2024 15:24	WG2359164
(S) Decachlorobiphenyl	88.3			10.0-135		09/11/2024 15:24	WG2359164
(S) Tetrachloro-m-xylene	94.5			10.0-139		09/11/2024 15:24	WG2359164

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00257	0.00670	1	09/10/2024 13:26	WG2359159
Acenaphthene	U		0.00233	0.00670	1	09/10/2024 13:26	WG2359159
Acenaphthylene	U		0.00241	0.00670	1	09/10/2024 13:26	WG2359159
Benzo(a)anthracene	U		0.00193	0.00670	1	09/10/2024 13:26	WG2359159
Benzo(a)pyrene	U		0.00200	0.00670	1	09/10/2024 13:26	WG2359159
Benzo(b)fluoranthene	U		0.00171	0.00670	1	09/10/2024 13:26	WG2359159
Benzo(g,h,i)perylene	U		0.00198	0.00670	1	09/10/2024 13:26	WG2359159
Benzo(k)fluoranthene	U		0.00240	0.00670	1	09/10/2024 13:26	WG2359159
Chrysene	U		0.00259	0.00670	1	09/10/2024 13:26	WG2359159
Dibenz(a,h)anthracene	U		0.00192	0.00670	1	09/10/2024 13:26	WG2359159
Fluoranthene	U		0.00253	0.00670	1	09/10/2024 13:26	WG2359159
Fluorene	U		0.00229	0.00670	1	09/10/2024 13:26	WG2359159
Indeno(1,2,3-cd)pyrene	U		0.00202	0.00670	1	09/10/2024 13:26	WG2359159
Naphthalene	U		0.00455	0.0223	1	09/10/2024 13:26	WG2359159
Phenanthrene	0.00281	U	0.00258	0.00670	1	09/10/2024 13:26	WG2359159
Pyrene	U		0.00223	0.00670	1	09/10/2024 13:26	WG2359159
1-Methylnaphthalene	U		0.00501	0.0223	1	09/10/2024 13:26	WG2359159
2-Methylnaphthalene	U		0.00477	0.0223	1	09/10/2024 13:26	WG2359159
2-Chloronaphthalene	U		0.00520	0.0223	1	09/10/2024 13:26	WG2359159
(S) p-Terphenyl-d14	88.2			23.0-120		09/10/2024 13:26	WG2359159
(S) Nitrobenzene-d5	100			14.0-149		09/10/2024 13:26	WG2359159
(S) 2-Fluorobiphenyl	84.6			34.0-125		09/10/2024 13:26	WG2359159

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	78.0		1	09/07/2024 09:45	WG2357880

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0231	0.0513	1	09/07/2024 18:17	WG2357768

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.7		0.267	0.641	1	09/11/2024 15:43	WG2358339

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.0582	0.0797	1	09/07/2024 02:51	WG2357841
Acrylonitrile	U		0.00575	0.0199	1	09/07/2024 02:51	WG2357841
Benzene	U		0.000744	0.00159	1	09/07/2024 02:51	WG2357841
Bromobenzene	U		0.00143	0.0199	1	09/07/2024 02:51	WG2357841
Bromodichloromethane	U		0.00116	0.00398	1	09/07/2024 02:51	WG2357841
Bromoform	U		0.00186	0.0398	1	09/07/2024 02:51	WG2357841
Bromomethane	U		0.00314	0.0199	1	09/07/2024 02:51	WG2357841
n-Butylbenzene	U		0.00837	0.0199	1	09/07/2024 02:51	WG2357841
sec-Butylbenzene	U		0.00459	0.0199	1	09/07/2024 02:51	WG2357841
tert-Butylbenzene	U		0.00311	0.00797	1	09/07/2024 02:51	WG2357841
Carbon tetrachloride	U		0.00143	0.00797	1	09/07/2024 02:51	WG2357841
Chlorobenzene	U		0.000335	0.00398	1	09/07/2024 02:51	WG2357841
Chlorodibromomethane	U		0.000975	0.00398	1	09/07/2024 02:51	WG2357841
Chloroethane	U		0.00271	0.00797	1	09/07/2024 02:51	WG2357841
Chloroform	U		0.00164	0.00398	1	09/07/2024 02:51	WG2357841
Chloromethane	U		0.00693	0.0199	1	09/07/2024 02:51	WG2357841
2-Chlorotoluene	U		0.00138	0.00398	1	09/07/2024 02:51	WG2357841
4-Chlorotoluene	U		0.000717	0.00797	1	09/07/2024 02:51	WG2357841
1,2-Dibromo-3-Chloropropane	U		0.00622	0.0398	1	09/07/2024 02:51	WG2357841
1,2-Dibromoethane	U		0.00103	0.00398	1	09/07/2024 02:51	WG2357841
Dibromomethane	U		0.00120	0.00797	1	09/07/2024 02:51	WG2357841
1,2-Dichlorobenzene	U		0.000677	0.00797	1	09/07/2024 02:51	WG2357841
1,3-Dichlorobenzene	U		0.000956	0.00797	1	09/07/2024 02:51	WG2357841
1,4-Dichlorobenzene	U		0.00112	0.00797	1	09/07/2024 02:51	WG2357841
Dichlorodifluoromethane	U		0.00257	0.00797	1	09/07/2024 02:51	WG2357841
1,1-Dichloroethane	U		0.000783	0.00398	1	09/07/2024 02:51	WG2357841
1,2-Dichloroethane	U		0.00103	0.00398	1	09/07/2024 02:51	WG2357841
1,1-Dichloroethene	U		0.000966	0.00398	1	09/07/2024 02:51	WG2357841
cis-1,2-Dichloroethene	U		0.00117	0.00398	1	09/07/2024 02:51	WG2357841
trans-1,2-Dichloroethene	U		0.00166	0.00797	1	09/07/2024 02:51	WG2357841
1,2-Dichloropropane	U		0.00226	0.00797	1	09/07/2024 02:51	WG2357841
1,1-Dichloropropene	U		0.00129	0.00398	1	09/07/2024 02:51	WG2357841
1,3-Dichloropropane	U		0.000799	0.00797	1	09/07/2024 02:51	WG2357841
cis-1,3-Dichloropropene	U		0.00121	0.00398	1	09/07/2024 02:51	WG2357841
trans-1,3-Dichloropropene	U		0.00182	0.00797	1	09/07/2024 02:51	WG2357841
2,2-Dichloropropane	U		0.00220	0.00398	1	09/07/2024 02:51	WG2357841
Di-isopropyl ether	U		0.000653	0.00159	1	09/07/2024 02:51	WG2357841
Ethylbenzene	U		0.00117	0.00398	1	09/07/2024 02:51	WG2357841
Hexachloro-1,3-butadiene	U		0.00956	0.0398	1	09/07/2024 02:51	WG2357841

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000677	0.00398	1	09/07/2024 02:51	WG2357841
p-Isopropyltoluene	U		0.00406	0.00797	1	09/07/2024 02:51	WG2357841
2-Butanone (MEK)	U		0.101	0.159	1	09/07/2024 02:51	WG2357841
Methylene Chloride	U		0.0106	0.0398	1	09/07/2024 02:51	WG2357841
4-Methyl-2-pentanone (MIBK)	U		0.00363	0.0398	1	09/07/2024 02:51	WG2357841
Methyl tert-butyl ether	U		0.000558	0.00159	1	09/07/2024 02:51	WG2357841
Naphthalene	U		0.00778	0.0199	1	09/07/2024 02:51	WG2357841
n-Propylbenzene	U		0.00151	0.00797	1	09/07/2024 02:51	WG2357841
Styrene	U		0.000365	0.0199	1	09/07/2024 02:51	WG2357841
1,1,1,2-Tetrachloroethane	U		0.00151	0.00398	1	09/07/2024 02:51	WG2357841
1,1,2,2-Tetrachloroethane	U		0.00111	0.00398	1	09/07/2024 02:51	WG2357841
1,1,2-Trichlorotrifluoroethane	U		0.00120	0.00398	1	09/07/2024 02:51	WG2357841
Tetrachloroethene	U		0.00143	0.00398	1	09/07/2024 02:51	WG2357841
Toluene	U		0.00207	0.00797	1	09/07/2024 02:51	WG2357841
1,2,3-Trichlorobenzene	U		0.0117	0.0199	1	09/07/2024 02:51	WG2357841
1,2,4-Trichlorobenzene	U		0.00701	0.0199	1	09/07/2024 02:51	WG2357841
1,1,1-Trichloroethane	U		0.00147	0.00398	1	09/07/2024 02:51	WG2357841
1,1,2-Trichloroethane	U		0.000952	0.00398	1	09/07/2024 02:51	WG2357841
Trichloroethene	U		0.000931	0.00159	1	09/07/2024 02:51	WG2357841
Trichlorofluoromethane	U	J3	0.00132	0.00398	1	09/07/2024 02:51	WG2357841
1,2,3-Trichloropropane	U		0.00258	0.0199	1	09/07/2024 02:51	WG2357841
1,2,4-Trimethylbenzene	U		0.00252	0.00797	1	09/07/2024 02:51	WG2357841
1,2,3-Trimethylbenzene	U		0.00252	0.00797	1	09/07/2024 02:51	WG2357841
1,3,5-Trimethylbenzene	U		0.00319	0.00797	1	09/07/2024 02:51	WG2357841
Vinyl chloride	U		0.00185	0.00398	1	09/07/2024 02:51	WG2357841
Xylenes, Total	0.00212	J	0.00140	0.0104	1	09/07/2024 02:51	WG2357841
(S) Toluene-d8	103			75.0-131		09/07/2024 02:51	WG2357841
(S) 4-Bromofluorobenzene	102			67.0-138		09/07/2024 02:51	WG2357841
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		09/07/2024 02:51	WG2357841

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	9.64		1.70	5.13	1	09/11/2024 01:11	WG2359178
Residual Range Organics (RRO)	6.63	J	4.27	12.8	1	09/11/2024 01:11	WG2359178
(S) o-Terphenyl	75.3			18.0-148		09/11/2024 01:11	WG2359178

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		0.0151	0.0436	1	09/11/2024 14:53	WG2359164
PCB 1221	U		0.0151	0.0436	1	09/11/2024 14:53	WG2359164
PCB 1232	U		0.0151	0.0436	1	09/11/2024 14:53	WG2359164
PCB 1242	U		0.0151	0.0436	1	09/11/2024 14:53	WG2359164
PCB 1248	U		0.00946	0.0218	1	09/11/2024 14:53	WG2359164
PCB 1254	U		0.00946	0.0218	1	09/11/2024 14:53	WG2359164
PCB 1260	U		0.00946	0.0218	1	09/11/2024 14:53	WG2359164
(S) Decachlorobiphenyl	95.0			10.0-135		09/11/2024 14:53	WG2359164
(S) Tetrachloro-m-xylene	94.6			10.0-139		09/11/2024 14:53	WG2359164

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00295	0.00769	1	09/10/2024 13:43	WG2359159
Acenaphthene	U		0.00268	0.00769	1	09/10/2024 13:43	WG2359159
Acenaphthylene	U		0.00277	0.00769	1	09/10/2024 13:43	WG2359159
Benzo(a)anthracene	U		0.00222	0.00769	1	09/10/2024 13:43	WG2359159
Benzo(a)pyrene	U		0.00229	0.00769	1	09/10/2024 13:43	WG2359159
Benzo(b)fluoranthene	U		0.00196	0.00769	1	09/10/2024 13:43	WG2359159
Benzo(g,h,i)perylene	U		0.00227	0.00769	1	09/10/2024 13:43	WG2359159
Benzo(k)fluoranthene	U		0.00276	0.00769	1	09/10/2024 13:43	WG2359159
Chrysene	U		0.00297	0.00769	1	09/10/2024 13:43	WG2359159
Dibenz(a,h)anthracene	U		0.00220	0.00769	1	09/10/2024 13:43	WG2359159
Fluoranthene	U		0.00291	0.00769	1	09/10/2024 13:43	WG2359159
Fluorene	U		0.00263	0.00769	1	09/10/2024 13:43	WG2359159
Indeno(1,2,3-cd)pyrene	U		0.00232	0.00769	1	09/10/2024 13:43	WG2359159
Naphthalene	U		0.00523	0.0256	1	09/10/2024 13:43	WG2359159
Phenanthrene	U		0.00296	0.00769	1	09/10/2024 13:43	WG2359159
Pyrene	U		0.00256	0.00769	1	09/10/2024 13:43	WG2359159
1-Methylnaphthalene	0.00983	LC	0.00575	0.0256	1	09/10/2024 13:43	WG2359159
2-Methylnaphthalene	0.0218	LC	0.00547	0.0256	1	09/10/2024 13:43	WG2359159
2-Chloronaphthalene	U		0.00597	0.0256	1	09/10/2024 13:43	WG2359159
(S) p-Terphenyl-d14	77.7			23.0-120		09/10/2024 13:43	WG2359159
(S) Nitrobenzene-d5	89.4			14.0-149		09/10/2024 13:43	WG2359159
(S) 2-Fluorobiphenyl	79.3			34.0-125		09/10/2024 13:43	WG2359159

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4117069-1 09/07/24 09:45

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00400			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1774250-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1774250-02 09/07/24 09:45 • (DUP) R4117069-3 09/07/24 09:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.3	92.1	1	0.211		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4117069-2 09/07/24 09:45

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

⁹Sc

Method Blank (MB)

(MB) R4116885-1 09/07/24 17:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4116885-2 09/07/24 17:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.467	93.4	80.0-120	

L1774610-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774610-02 09/07/24 17:12 • (MS) R4116885-4 09/07/24 17:17 • (MSD) R4116885-5 09/07/24 17:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.500	0.297	0.725	0.664	85.5	73.3	1	75.0-125		J6	8.82	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118602-1 09/11/24 15:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4118602-2 09/11/24 15:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	109	109	80.0-120	

L1774809-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774809-09 09/11/24 15:31 • (MS) R4118602-5 09/11/24 15:36 • (MSD) R4118602-6 09/11/24 15:38

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 %
Lead	104	9.74	109	165	94.9	149	1	75.0-125		J3 J5	40.9	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4117586-3 09/07/24 01:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4117586-3 09/07/24 01:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	93.2			70.0-130

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

(LCS) R4117586-1 09/06/24 23:59 • (LCSD) R4117586-2 09/07/24 00:18

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	0.625	0.783	1.07	125	171	10.0-160		J4	31.0	31
Acrylonitrile	0.625	0.770	0.881	123	141	45.0-153			13.4	22
Benzene	0.125	0.126	0.132	101	106	70.0-123			4.65	20
Bromobenzene	0.125	0.122	0.133	97.6	106	73.0-121			8.63	20
Bromodichloromethane	0.125	0.120	0.131	96.0	105	73.0-121			8.76	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4117586-1 09/06/24 23:59 • (LCSD) R4117586-2 09/07/24 00:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.128	0.139	102	111	64.0-132			8.24	20
Bromomethane	0.125	0.107	0.128	85.6	102	56.0-147			17.9	20
n-Butylbenzene	0.125	0.126	0.147	101	118	68.0-135			15.4	20
sec-Butylbenzene	0.125	0.123	0.141	98.4	113	74.0-130			13.6	20
tert-Butylbenzene	0.125	0.126	0.143	101	114	75.0-127			12.6	20
Carbon tetrachloride	0.125	0.137	0.155	110	124	66.0-128			12.3	20
Chlorobenzene	0.125	0.125	0.130	100	104	76.0-128			3.92	20
Chlorodibromomethane	0.125	0.126	0.129	101	103	74.0-127			2.35	20
Chloroethane	0.125	0.112	0.125	89.6	100	61.0-134			11.0	20
Chloroform	0.125	0.123	0.131	98.4	105	72.0-123			6.30	20
Chloromethane	0.125	0.113	0.118	90.4	94.4	51.0-138			4.33	20
2-Chlorotoluene	0.125	0.126	0.137	101	110	75.0-124			8.37	20
4-Chlorotoluene	0.125	0.117	0.129	93.6	103	75.0-124			9.76	20
1,2-Dibromo-3-Chloropropane	0.125	0.130	0.150	104	120	59.0-130			14.3	20
1,2-Dibromoethane	0.125	0.126	0.133	101	106	74.0-128			5.41	20
Dibromomethane	0.125	0.124	0.139	99.2	111	75.0-122			11.4	20
1,2-Dichlorobenzene	0.125	0.124	0.138	99.2	110	76.0-124			10.7	20
1,3-Dichlorobenzene	0.125	0.122	0.135	97.6	108	76.0-125			10.1	20
1,4-Dichlorobenzene	0.125	0.120	0.133	96.0	106	77.0-121			10.3	20
Dichlorodifluoromethane	0.125	0.135	0.140	108	112	43.0-156			3.64	20
1,1-Dichloroethane	0.125	0.127	0.134	102	107	70.0-127			5.36	20
1,2-Dichloroethane	0.125	0.120	0.130	96.0	104	65.0-131			8.00	20
1,1-Dichloroethene	0.125	0.128	0.138	102	110	65.0-131			7.52	20
cis-1,2-Dichloroethene	0.125	0.126	0.137	101	110	73.0-125			8.37	20
trans-1,2-Dichloroethene	0.125	0.122	0.134	97.6	107	71.0-125			9.38	20
1,2-Dichloropropane	0.125	0.124	0.129	99.2	103	74.0-125			3.95	20
1,1-Dichloropropene	0.125	0.130	0.144	104	115	73.0-125			10.2	20
1,3-Dichloropropane	0.125	0.124	0.129	99.2	103	80.0-125			3.95	20
cis-1,3-Dichloropropene	0.125	0.126	0.137	101	110	76.0-127			8.37	20
trans-1,3-Dichloropropene	0.125	0.124	0.134	99.2	107	73.0-127			7.75	20
2,2-Dichloropropane	0.125	0.131	0.159	105	127	59.0-135			19.3	20
Di-isopropyl ether	0.125	0.126	0.132	101	106	60.0-136			4.65	20
Ethylbenzene	0.125	0.132	0.141	106	113	74.0-126			6.59	20
Hexachloro-1,3-butadiene	0.125	0.122	0.147	97.6	118	57.0-150			18.6	20
Isopropylbenzene	0.125	0.127	0.142	102	114	72.0-127			11.2	20
p-Isopropyltoluene	0.125	0.125	0.146	100	117	72.0-133			15.5	20
2-Butanone (MEK)	0.625	0.645	0.755	103	121	30.0-160			15.7	24
Methylene Chloride	0.125	0.125	0.131	100	105	68.0-123			4.69	20
4-Methyl-2-pentanone (MIBK)	0.625	0.677	0.739	108	118	56.0-143			8.76	20
Methyl tert-butyl ether	0.125	0.125	0.137	100	110	66.0-132			9.16	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4117586-1 09/06/24 23:59 • (LCSD) R4117586-2 09/07/24 00:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.128	0.135	102	108	59.0-130			5.32	20
n-Propylbenzene	0.125	0.132	0.146	106	117	74.0-126			10.1	20
Styrene	0.125	0.129	0.136	103	109	72.0-127			5.28	20
1,1,1,2-Tetrachloroethane	0.125	0.137	0.144	110	115	74.0-129			4.98	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.138	98.4	110	68.0-128			11.5	20
1,1,2-Trichlorotrifluoroethane	0.125	0.126	0.132	101	106	61.0-139			4.65	20
Tetrachloroethene	0.125	0.133	0.144	106	115	70.0-136			7.94	20
Toluene	0.125	0.127	0.134	102	107	75.0-121			5.36	20
1,2,3-Trichlorobenzene	0.125	0.131	0.134	105	107	59.0-139			2.26	20
1,2,4-Trichlorobenzene	0.125	0.135	0.141	108	113	62.0-137			4.35	20
1,1,1-Trichloroethane	0.125	0.133	0.146	106	117	69.0-126			9.32	20
1,1,2-Trichloroethane	0.125	0.126	0.131	101	105	78.0-123			3.89	20
Trichloroethene	0.125	0.136	0.147	109	118	76.0-126			7.77	20
Trichlorofluoromethane	0.125	0.106	0.130	84.8	104	61.0-142		J3	20.3	20
1,2,3-Trichloropropane	0.125	0.123	0.137	98.4	110	67.0-129			10.8	20
1,2,4-Trimethylbenzene	0.125	0.131	0.137	105	110	70.0-126			4.48	20
1,2,3-Trimethylbenzene	0.125	0.121	0.130	96.8	104	74.0-124			7.17	20
1,3,5-Trimethylbenzene	0.125	0.126	0.139	101	111	73.0-127			9.81	20
Vinyl chloride	0.125	0.127	0.141	102	113	63.0-134			10.4	20
Xylenes, Total	0.375	0.401	0.419	107	112	72.0-127			4.39	20
(S) Toluene-d8				103	102	75.0-131				
(S) 4-Bromofluorobenzene				103	102	67.0-138				
(S) 1,2-Dichloroethane-d4				98.3	101	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4118254-1 09/11/24 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	89.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4118254-2 09/11/24 00:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	37.0	74.0	50.0-150	
(S) o-Terphenyl			88.4	18.0-148	

L1774065-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774065-12 09/11/24 01:37 • (MS) R4118254-3 09/11/24 01:51 • (MSD) R4118254-4 09/11/24 02:04

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 %
Diesel Range Organics (DRO)	50.3	U	30.2	34.5	60.1	68.7	1	50.0-150			13.3	20
(S) o-Terphenyl					66.7	74.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119079-1 09/11/24 14:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	94.4			10.0-135
(S) Tetrachloro-m-xylene	96.1			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4119079-5 09/11/24 14:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.156	93.4	36.0-141	
PCB 1260	0.167	0.162	97.0	37.0-145	
(S) Decachlorobiphenyl			99.4	10.0-135	
(S) Tetrachloro-m-xylene			100	10.0-139	

L1773532-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773532-14 09/11/24 15:44 • (MS) R4119079-6 09/11/24 15:55 • (MSD) R4119079-7 09/11/24 16:05

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 %
PCB 1016	0.182	U	0.157	0.160	85.8	88.8	1	10.0-160			2.14	37
PCB 1260	0.182	0.221	0.356	0.414	74.1	108	1	10.0-160			15.2	38
(S) Decachlorobiphenyl					81.6	84.0		10.0-135				
(S) Tetrachloro-m-xylene					86.7	91.5		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118105-2 09/10/24 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	89.2			23.0-120
(S) Nitrobenzene-d5	97.8			14.0-149
(S) 2-Fluorobiphenyl	85.0			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4118105-1 09/10/24 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0609	76.1	50.0-126	
Acenaphthene	0.0800	0.0575	71.9	50.0-120	
Acenaphthylene	0.0800	0.0660	82.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0615	76.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0537	67.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0517	64.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0541	67.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0535	66.9	49.0-125	
Chrysene	0.0800	0.0605	75.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0600	75.0	47.0-125	
Fluoranthene	0.0800	0.0661	82.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4118105-1 09/10/24 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0641	80.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0600	75.0	46.0-125	
Naphthalene	0.0800	0.0638	79.8	50.0-120	
Phenanthrene	0.0800	0.0596	74.5	47.0-120	
Pyrene	0.0800	0.0572	71.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0712	89.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0665	83.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0549	68.6	50.0-120	
(S) p-Terphenyl-d14			87.5	23.0-120	
(S) Nitrobenzene-d5			98.6	14.0-149	
(S) 2-Fluorobiphenyl			88.1	34.0-125	

L1774250-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774250-01 09/10/24 12:33 • (MS) R4118105-3 09/10/24 12:50 • (MSD) R4118105-4 09/10/24 13:08

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0844	U	0.0583	0.0615	69.1	72.5	1	10.0-145			5.31	30
Acenaphthene	0.0844	0.0287	0.0830	0.0791	64.3	59.4	1	14.0-127			4.84	27
Acenaphthylene	0.0844	U	0.0665	0.0678	78.8	79.9	1	21.0-124			1.90	25
Benzo(a)anthracene	0.0844	0.0190	0.0810	0.0883	73.5	81.8	1	10.0-139			8.64	30
Benzo(a)pyrene	0.0844	0.0190	0.0756	0.0795	67.1	71.4	1	10.0-141			5.06	31
Benzo(b)fluoranthene	0.0844	0.0287	0.0810	0.0833	61.9	64.3	1	10.0-140			2.71	36
Benzo(g,h,i)perylene	0.0844	0.0207	0.0703	0.0723	58.8	60.9	1	10.0-140			2.83	33
Benzo(k)fluoranthene	0.0844	0.00965	0.0617	0.0660	61.7	66.4	1	10.0-137			6.64	31
Chrysene	0.0844	0.0186	0.0848	0.0905	78.5	84.8	1	10.0-145			6.41	30
Dibenz(a,h)anthracene	0.0844	0.00432	0.0616	0.0617	67.9	67.7	1	10.0-132			0.172	31
Fluoranthene	0.0844	0.0407	0.101	0.108	71.1	79.5	1	10.0-153			7.11	33
Fluorene	0.0844	0.0222	0.0865	0.0861	76.3	75.4	1	11.0-130			0.491	29
Indeno(1,2,3-cd)pyrene	0.0844	0.0176	0.0766	0.0783	69.8	71.5	1	10.0-137			2.19	32
Naphthalene	0.0844	0.0338	0.105	0.109	84.3	88.9	1	10.0-135			3.96	27
Phenanthrene	0.0844	0.0969	0.160	0.156	74.9	69.5	1	10.0-144			2.68	31
Pyrene	0.0844	0.0542	0.112	0.117	69.0	73.6	1	10.0-148			3.70	35
1-Methylnaphthalene	0.0844	0.0706	0.129	0.139	69.6	80.5	1	10.0-142			7.11	28
2-Methylnaphthalene	0.0844	0.0945	0.127	0.152	38.8	67.4	1	10.0-137			17.5	28
2-Chloronaphthalene	0.0844	U	0.0508	0.0554	60.2	65.3	1	29.0-120			8.59	24
(S) p-Terphenyl-d14					79.4	80.3		23.0-120				
(S) Nitrobenzene-d5					81.2	95.1		14.0-149				
(S) 2-Fluorobiphenyl					68.7	68.2		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

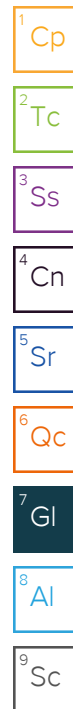
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



ACCREDITATIONS & LOCATIONS

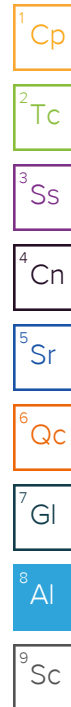
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.

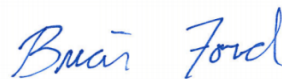


Earth Engineers - Camas, WA

Sample Delivery Group: L1776163
Samples Received: 09/11/2024
Project Number: 10-240350
Description: Waterfront soils Removal

Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



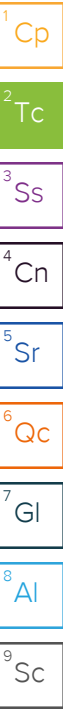
Brian Ford
Project Manager

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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_D-E_8-9 @ 13 L1776163-01	5
B_F_C-D_8-9 @ 13 L1776163-02	8
B_F_A-B_5.5-6.5 @ 13 L1776163-03	11
Qc: Quality Control Summary	14
Total Solids by Method 2540 G-2011	14
Mercury by Method 7471B	15
Metals (ICP) by Method 6010D	16
Volatile Organic Compounds (GC/MS) by Method 8260D	17
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	21
Polychlorinated Biphenyls (GC) by Method 8082 A	22
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	23
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27



SAMPLE SUMMARY

B_F_D-E_8-9 @ 13 L1776163-01 Solid

Collected by
Matt Enos

Collected date/time
09/10/24 11:30

Received date/time
09/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2360568	1	09/12/24 07:25	09/12/24 07:34	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2360437	1	09/11/24 12:36	09/11/24 21:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2360234	1	09/11/24 16:39	09/11/24 20:48	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360780	1	09/10/24 11:30	09/11/24 22:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2361139	1	09/13/24 05:46	09/13/24 13:53	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2360659	1	09/11/24 17:03	09/13/24 00:42	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2361113	1	09/12/24 17:06	09/13/24 01:08	JRM	Mt. Juliet, TN

B_F_C-D_8-9 @ 13 L1776163-02 Solid

Collected by
Matt Enos

Collected date/time
09/10/24 11:50

Received date/time
09/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2360568	1	09/12/24 07:25	09/12/24 07:34	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2360437	1	09/11/24 12:36	09/11/24 21:59	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2360234	1	09/11/24 16:39	09/11/24 20:50	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360780	1	09/10/24 11:50	09/11/24 22:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2361139	1	09/13/24 05:46	09/13/24 13:39	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2360659	1	09/11/24 17:03	09/13/24 00:51	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2361113	1	09/12/24 17:06	09/13/24 01:26	JCH	Mt. Juliet, TN

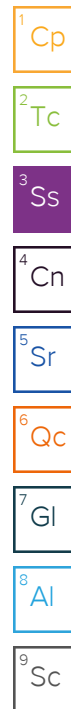
B_F_A-B_5.5-6.5 @ 13 L1776163-03 Solid

Collected by
Matt Enos

Collected date/time
09/10/24 12:15

Received date/time
09/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2360568	1	09/12/24 07:25	09/12/24 07:34	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2360437	1	09/11/24 12:36	09/11/24 22:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2360234	1	09/11/24 16:39	09/11/24 20:51	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2360780	1	09/10/24 12:15	09/11/24 23:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2361139	1	09/13/24 05:46	09/13/24 13:12	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2360659	1	09/11/24 17:03	09/13/24 01:01	AMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2361113	1	09/12/24 17:06	09/13/24 01:44	JCH	Mt. Juliet, TN

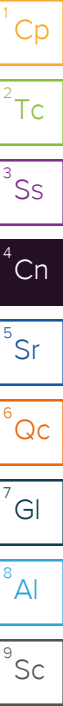


CASE NARRATIVE

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.



Brian Ford
Project Manager



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.3		1	09/12/2024 07:34	WG2360568

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0221	0.0492	1	09/11/2024 21:57	WG2360437

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.51		0.256	0.615	1	09/11/2024 20:48	WG2360234

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0546	0.0747	1	09/11/2024 22:28	WG2360780
Acrylonitrile	U		0.00540	0.0187	1	09/11/2024 22:28	WG2360780
Benzene	U		0.000698	0.00149	1	09/11/2024 22:28	WG2360780
Bromobenzene	U		0.00135	0.0187	1	09/11/2024 22:28	WG2360780
Bromodichloromethane	U		0.00108	0.00374	1	09/11/2024 22:28	WG2360780
Bromoform	U		0.00175	0.0374	1	09/11/2024 22:28	WG2360780
Bromomethane	U		0.00294	0.0187	1	09/11/2024 22:28	WG2360780
n-Butylbenzene	U		0.00785	0.0187	1	09/11/2024 22:28	WG2360780
sec-Butylbenzene	U		0.00430	0.0187	1	09/11/2024 22:28	WG2360780
tert-Butylbenzene	U		0.00291	0.00747	1	09/11/2024 22:28	WG2360780
Carbon tetrachloride	U		0.00134	0.00747	1	09/11/2024 22:28	WG2360780
Chlorobenzene	U		0.000314	0.00374	1	09/11/2024 22:28	WG2360780
Chlorodibromomethane	U		0.000915	0.00374	1	09/11/2024 22:28	WG2360780
Chloroethane	U		0.00254	0.00747	1	09/11/2024 22:28	WG2360780
Chloroform	U		0.00154	0.00374	1	09/11/2024 22:28	WG2360780
Chloromethane	U		0.00650	0.0187	1	09/11/2024 22:28	WG2360780
2-Chlorotoluene	U		0.00129	0.00374	1	09/11/2024 22:28	WG2360780
4-Chlorotoluene	U		0.000673	0.00747	1	09/11/2024 22:28	WG2360780
1,2-Dibromo-3-Chloropropane	U	C3	0.00583	0.0374	1	09/11/2024 22:28	WG2360780
1,2-Dibromoethane	U		0.000968	0.00374	1	09/11/2024 22:28	WG2360780
Dibromomethane	U		0.00112	0.00747	1	09/11/2024 22:28	WG2360780
1,2-Dichlorobenzene	U		0.000635	0.00747	1	09/11/2024 22:28	WG2360780
1,3-Dichlorobenzene	U		0.000897	0.00747	1	09/11/2024 22:28	WG2360780
1,4-Dichlorobenzene	U		0.00105	0.00747	1	09/11/2024 22:28	WG2360780
Dichlorodifluoromethane	U		0.00241	0.00747	1	09/11/2024 22:28	WG2360780
1,1-Dichloroethane	U		0.000734	0.00374	1	09/11/2024 22:28	WG2360780
1,2-Dichloroethane	U		0.000970	0.00374	1	09/11/2024 22:28	WG2360780
1,1-Dichloroethene	U		0.000906	0.00374	1	09/11/2024 22:28	WG2360780
cis-1,2-Dichloroethene	U		0.00110	0.00374	1	09/11/2024 22:28	WG2360780
trans-1,2-Dichloroethene	U		0.00155	0.00747	1	09/11/2024 22:28	WG2360780
1,2-Dichloropropane	U		0.00212	0.00747	1	09/11/2024 22:28	WG2360780
1,1-Dichloropropene	U		0.00121	0.00374	1	09/11/2024 22:28	WG2360780
1,3-Dichloropropane	U		0.000749	0.00747	1	09/11/2024 22:28	WG2360780
cis-1,3-Dichloropropene	U		0.00113	0.00374	1	09/11/2024 22:28	WG2360780
trans-1,3-Dichloropropene	U		0.00170	0.00747	1	09/11/2024 22:28	WG2360780
2,2-Dichloropropane	U		0.00206	0.00374	1	09/11/2024 22:28	WG2360780
Di-isopropyl ether	U		0.000613	0.00149	1	09/11/2024 22:28	WG2360780
Ethylbenzene	U		0.00110	0.00374	1	09/11/2024 22:28	WG2360780
Hexachloro-1,3-butadiene	U		0.00897	0.0374	1	09/11/2024 22:28	WG2360780

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000635	0.00374	1	09/11/2024 22:28	WG2360780
p-Isopropyltoluene	U		0.00381	0.00747	1	09/11/2024 22:28	WG2360780
2-Butanone (MEK)	U		0.0949	0.149	1	09/11/2024 22:28	WG2360780
Methylene Chloride	U		0.00992	0.0374	1	09/11/2024 22:28	WG2360780
4-Methyl-2-pentanone (MIBK)	U		0.00341	0.0374	1	09/11/2024 22:28	WG2360780
Methyl tert-butyl ether	U		0.000523	0.00149	1	09/11/2024 22:28	WG2360780
Naphthalene	U	C3	0.00729	0.0187	1	09/11/2024 22:28	WG2360780
n-Propylbenzene	U		0.00142	0.00747	1	09/11/2024 22:28	WG2360780
Styrene	U		0.000342	0.0187	1	09/11/2024 22:28	WG2360780
1,1,1,2-Tetrachloroethane	U		0.00142	0.00374	1	09/11/2024 22:28	WG2360780
1,1,2,2-Tetrachloroethane	U		0.00104	0.00374	1	09/11/2024 22:28	WG2360780
1,1,2-Trichlorotrifluoroethane	U		0.00113	0.00374	1	09/11/2024 22:28	WG2360780
Tetrachloroethene	U		0.00134	0.00374	1	09/11/2024 22:28	WG2360780
Toluene	0.00257	J	0.00194	0.00747	1	09/11/2024 22:28	WG2360780
1,2,3-Trichlorobenzene	U		0.0110	0.0187	1	09/11/2024 22:28	WG2360780
1,2,4-Trichlorobenzene	U		0.00658	0.0187	1	09/11/2024 22:28	WG2360780
1,1,1-Trichloroethane	U	J4	0.00138	0.00374	1	09/11/2024 22:28	WG2360780
1,1,2-Trichloroethane	U		0.000892	0.00374	1	09/11/2024 22:28	WG2360780
Trichloroethene	U		0.000873	0.00149	1	09/11/2024 22:28	WG2360780
Trichlorofluoromethane	U		0.00124	0.00374	1	09/11/2024 22:28	WG2360780
1,2,3-Trichloropropane	U		0.00242	0.0187	1	09/11/2024 22:28	WG2360780
1,2,4-Trimethylbenzene	U		0.00236	0.00747	1	09/11/2024 22:28	WG2360780
1,2,3-Trimethylbenzene	U		0.00236	0.00747	1	09/11/2024 22:28	WG2360780
1,3,5-Trimethylbenzene	U		0.00299	0.00747	1	09/11/2024 22:28	WG2360780
Vinyl chloride	U		0.00173	0.00374	1	09/11/2024 22:28	WG2360780
Xylenes, Total	U		0.00132	0.00971	1	09/11/2024 22:28	WG2360780
(S) Toluene-d8	98.1			75.0-131		09/11/2024 22:28	WG2360780
(S) 4-Bromofluorobenzene	99.7			67.0-138		09/11/2024 22:28	WG2360780
(S) 1,2-Dichloroethane-d4	101			70.0-130		09/11/2024 22:28	WG2360780

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	32.8		1.64	4.92	1	09/13/2024 13:53	WG2361139
Residual Range Organics (RRO)	96.8		4.10	12.3	1	09/13/2024 13:53	WG2361139
(S) o-Terphenyl	79.4			18.0-148		09/13/2024 13:53	WG2361139

Sample Narrative:

L1776163-01 WG2361139: Sample resembles laboratory standard for Motor Oil.

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		0.0145	0.0418	1	09/13/2024 00:42	WG2360659
PCB 1221	U		0.0145	0.0418	1	09/13/2024 00:42	WG2360659
PCB 1232	U		0.0145	0.0418	1	09/13/2024 00:42	WG2360659
PCB 1242	U		0.0145	0.0418	1	09/13/2024 00:42	WG2360659
PCB 1248	U		0.00908	0.0209	1	09/13/2024 00:42	WG2360659
PCB 1254	U		0.00908	0.0209	1	09/13/2024 00:42	WG2360659
PCB 1260	U		0.00908	0.0209	1	09/13/2024 00:42	WG2360659
(S) Decachlorobiphenyl	89.0			10.0-135		09/13/2024 00:42	WG2360659
(S) Tetrachloro-m-xylene	88.7			10.0-139		09/13/2024 00:42	WG2360659

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00283	0.00738	1	09/13/2024 01:08	WG2361113
Acenaphthene	U		0.00257	0.00738	1	09/13/2024 01:08	WG2361113
Acenaphthylene	U		0.00266	0.00738	1	09/13/2024 01:08	WG2361113
Benzo(a)anthracene	U		0.00213	0.00738	1	09/13/2024 01:08	WG2361113
Benzo(a)pyrene	U		0.00220	0.00738	1	09/13/2024 01:08	WG2361113
Benzo(b)fluoranthene	U		0.00188	0.00738	1	09/13/2024 01:08	WG2361113
Benzo(g,h,i)perylene	U		0.00218	0.00738	1	09/13/2024 01:08	WG2361113
Benzo(k)fluoranthene	U		0.00264	0.00738	1	09/13/2024 01:08	WG2361113
Chrysene	U		0.00285	0.00738	1	09/13/2024 01:08	WG2361113
Dibenz(a,h)anthracene	U		0.00212	0.00738	1	09/13/2024 01:08	WG2361113
Fluoranthene	U		0.00279	0.00738	1	09/13/2024 01:08	WG2361113
Fluorene	U		0.00252	0.00738	1	09/13/2024 01:08	WG2361113
Indeno(1,2,3-cd)pyrene	U		0.00223	0.00738	1	09/13/2024 01:08	WG2361113
Naphthalene	U		0.00502	0.0246	1	09/13/2024 01:08	WG2361113
Phenanthrene	0.00338	J	0.00284	0.00738	1	09/13/2024 01:08	WG2361113
Pyrene	U		0.00246	0.00738	1	09/13/2024 01:08	WG2361113
1-Methylnaphthalene	U		0.00552	0.0246	1	09/13/2024 01:08	WG2361113
2-Methylnaphthalene	U		0.00525	0.0246	1	09/13/2024 01:08	WG2361113
2-Chloronaphthalene	U		0.00573	0.0246	1	09/13/2024 01:08	WG2361113
(S) p-Terphenyl-d14	87.2			23.0-120		09/13/2024 01:08	WG2361113
(S) Nitrobenzene-d5	71.0			14.0-149		09/13/2024 01:08	WG2361113
(S) 2-Fluorobiphenyl	76.0			34.0-125		09/13/2024 01:08	WG2361113

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.1		1	09/12/2024 07:34	WG2360568

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0225	0.0499	1	09/11/2024 21:59	WG2360437

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.1		0.260	0.624	1	09/11/2024 20:50	WG2360234

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0566	0.0776	1	09/11/2024 22:47	WG2360780
Acrylonitrile	U		0.00560	0.0194	1	09/11/2024 22:47	WG2360780
Benzene	U		0.000724	0.00155	1	09/11/2024 22:47	WG2360780
Bromobenzene	U		0.00140	0.0194	1	09/11/2024 22:47	WG2360780
Bromodichloromethane	U		0.00112	0.00388	1	09/11/2024 22:47	WG2360780
Bromoform	U		0.00182	0.0388	1	09/11/2024 22:47	WG2360780
Bromomethane	U		0.00306	0.0194	1	09/11/2024 22:47	WG2360780
n-Butylbenzene	U		0.00814	0.0194	1	09/11/2024 22:47	WG2360780
sec-Butylbenzene	U		0.00447	0.0194	1	09/11/2024 22:47	WG2360780
tert-Butylbenzene	U		0.00303	0.00776	1	09/11/2024 22:47	WG2360780
Carbon tetrachloride	U		0.00139	0.00776	1	09/11/2024 22:47	WG2360780
Chlorobenzene	U		0.000326	0.00388	1	09/11/2024 22:47	WG2360780
Chlorodibromomethane	U		0.000949	0.00388	1	09/11/2024 22:47	WG2360780
Chloroethane	U		0.00264	0.00776	1	09/11/2024 22:47	WG2360780
Chloroform	U		0.00160	0.00388	1	09/11/2024 22:47	WG2360780
Chloromethane	U		0.00675	0.0194	1	09/11/2024 22:47	WG2360780
2-Chlorotoluene	U		0.00134	0.00388	1	09/11/2024 22:47	WG2360780
4-Chlorotoluene	U		0.000698	0.00776	1	09/11/2024 22:47	WG2360780
1,2-Dibromo-3-Chloropropane	U	C3	0.00605	0.0388	1	09/11/2024 22:47	WG2360780
1,2-Dibromoethane	U		0.00101	0.00388	1	09/11/2024 22:47	WG2360780
Dibromomethane	U		0.00116	0.00776	1	09/11/2024 22:47	WG2360780
1,2-Dichlorobenzene	U		0.000659	0.00776	1	09/11/2024 22:47	WG2360780
1,3-Dichlorobenzene	U		0.000931	0.00776	1	09/11/2024 22:47	WG2360780
1,4-Dichlorobenzene	U		0.00109	0.00776	1	09/11/2024 22:47	WG2360780
Dichlorodifluoromethane	U		0.00250	0.00776	1	09/11/2024 22:47	WG2360780
1,1-Dichloroethane	U		0.000762	0.00388	1	09/11/2024 22:47	WG2360780
1,2-Dichloroethane	U		0.00101	0.00388	1	09/11/2024 22:47	WG2360780
1,1-Dichloroethene	U		0.000940	0.00388	1	09/11/2024 22:47	WG2360780
cis-1,2-Dichloroethene	U		0.00114	0.00388	1	09/11/2024 22:47	WG2360780
trans-1,2-Dichloroethene	U		0.00161	0.00776	1	09/11/2024 22:47	WG2360780
1,2-Dichloropropane	U		0.00220	0.00776	1	09/11/2024 22:47	WG2360780
1,1-Dichloropropene	U		0.00126	0.00388	1	09/11/2024 22:47	WG2360780
1,3-Dichloropropane	U		0.000777	0.00776	1	09/11/2024 22:47	WG2360780
cis-1,3-Dichloropropene	U		0.00117	0.00388	1	09/11/2024 22:47	WG2360780
trans-1,3-Dichloropropene	U		0.00177	0.00776	1	09/11/2024 22:47	WG2360780
2,2-Dichloropropane	U		0.00214	0.00388	1	09/11/2024 22:47	WG2360780
Di-isopropyl ether	U		0.000636	0.00155	1	09/11/2024 22:47	WG2360780
Ethylbenzene	U		0.00114	0.00388	1	09/11/2024 22:47	WG2360780
Hexachloro-1,3-butadiene	U		0.00931	0.0388	1	09/11/2024 22:47	WG2360780

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000659	0.00388	1	09/11/2024 22:47	WG2360780
p-Isopropyltoluene	U		0.00396	0.00776	1	09/11/2024 22:47	WG2360780
2-Butanone (MEK)	U		0.0985	0.155	1	09/11/2024 22:47	WG2360780
Methylene Chloride	U		0.0103	0.0388	1	09/11/2024 22:47	WG2360780
4-Methyl-2-pentanone (MIBK)	U		0.00354	0.0388	1	09/11/2024 22:47	WG2360780
Methyl tert-butyl ether	U		0.000543	0.00155	1	09/11/2024 22:47	WG2360780
Naphthalene	U	C3	0.00757	0.0194	1	09/11/2024 22:47	WG2360780
n-Propylbenzene	U		0.00147	0.00776	1	09/11/2024 22:47	WG2360780
Styrene	U		0.000355	0.0194	1	09/11/2024 22:47	WG2360780
1,1,1,2-Tetrachloroethane	U		0.00147	0.00388	1	09/11/2024 22:47	WG2360780
1,1,2,2-Tetrachloroethane	U		0.00108	0.00388	1	09/11/2024 22:47	WG2360780
1,1,2-Trichlorotrifluoroethane	U		0.00117	0.00388	1	09/11/2024 22:47	WG2360780
Tetrachloroethene	U		0.00139	0.00388	1	09/11/2024 22:47	WG2360780
Toluene	U		0.00202	0.00776	1	09/11/2024 22:47	WG2360780
1,2,3-Trichlorobenzene	U		0.0114	0.0194	1	09/11/2024 22:47	WG2360780
1,2,4-Trichlorobenzene	U		0.00683	0.0194	1	09/11/2024 22:47	WG2360780
1,1,1-Trichloroethane	U	J4	0.00143	0.00388	1	09/11/2024 22:47	WG2360780
1,1,2-Trichloroethane	U		0.000926	0.00388	1	09/11/2024 22:47	WG2360780
Trichloroethene	U		0.000906	0.00155	1	09/11/2024 22:47	WG2360780
Trichlorofluoromethane	U		0.00128	0.00388	1	09/11/2024 22:47	WG2360780
1,2,3-Trichloropropane	U		0.00251	0.0194	1	09/11/2024 22:47	WG2360780
1,2,4-Trimethylbenzene	U		0.00245	0.00776	1	09/11/2024 22:47	WG2360780
1,2,3-Trimethylbenzene	U		0.00245	0.00776	1	09/11/2024 22:47	WG2360780
1,3,5-Trimethylbenzene	U		0.00310	0.00776	1	09/11/2024 22:47	WG2360780
Vinyl chloride	U		0.00180	0.00388	1	09/11/2024 22:47	WG2360780
Xylenes, Total	U		0.00137	0.0101	1	09/11/2024 22:47	WG2360780
(S) Toluene-d8	101			75.0-131		09/11/2024 22:47	WG2360780
(S) 4-Bromofluorobenzene	103			67.0-138		09/11/2024 22:47	WG2360780
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		09/11/2024 22:47	WG2360780

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	9.25		1.66	4.99	1	09/13/2024 13:39	WG2361139
Residual Range Organics (RRO)	32.2		4.16	12.5	1	09/13/2024 13:39	WG2361139
(S) o-Terphenyl	44.9			18.0-148		09/13/2024 13:39	WG2361139

Sample Narrative:

L1776163-02 WG2361139: Sample resembles laboratory standard for Motor Oil.

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		0.0147	0.0424	1	09/13/2024 00:51	WG2360659
PCB 1221	U		0.0147	0.0424	1	09/13/2024 00:51	WG2360659
PCB 1232	U		0.0147	0.0424	1	09/13/2024 00:51	WG2360659
PCB 1242	U		0.0147	0.0424	1	09/13/2024 00:51	WG2360659
PCB 1248	U		0.00921	0.0212	1	09/13/2024 00:51	WG2360659
PCB 1254	U		0.00921	0.0212	1	09/13/2024 00:51	WG2360659
PCB 1260	U		0.00921	0.0212	1	09/13/2024 00:51	WG2360659
(S) Decachlorobiphenyl	80.9			10.0-135		09/13/2024 00:51	WG2360659
(S) Tetrachloro-m-xylene	83.2			10.0-139		09/13/2024 00:51	WG2360659

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00287	0.00749	1	09/13/2024 01:26	WG2361113
Acenaphthene	U		0.00261	0.00749	1	09/13/2024 01:26	WG2361113
Acenaphthylene	U		0.00270	0.00749	1	09/13/2024 01:26	WG2361113
Benzo(a)anthracene	U		0.00216	0.00749	1	09/13/2024 01:26	WG2361113
Benzo(a)pyrene	U		0.00223	0.00749	1	09/13/2024 01:26	WG2361113
Benzo(b)fluoranthene	U		0.00191	0.00749	1	09/13/2024 01:26	WG2361113
Benzo(g,h,i)perylene	U		0.00221	0.00749	1	09/13/2024 01:26	WG2361113
Benzo(k)fluoranthene	U		0.00268	0.00749	1	09/13/2024 01:26	WG2361113
Chrysene	U		0.00289	0.00749	1	09/13/2024 01:26	WG2361113
Dibenz(a,h)anthracene	U		0.00215	0.00749	1	09/13/2024 01:26	WG2361113
Fluoranthene	U		0.00283	0.00749	1	09/13/2024 01:26	WG2361113
Fluorene	U		0.00256	0.00749	1	09/13/2024 01:26	WG2361113
Indeno(1,2,3-cd)pyrene	U		0.00226	0.00749	1	09/13/2024 01:26	WG2361113
Naphthalene	U		0.00509	0.0250	1	09/13/2024 01:26	WG2361113
Phenanthrene	U		0.00288	0.00749	1	09/13/2024 01:26	WG2361113
Pyrene	U		0.00250	0.00749	1	09/13/2024 01:26	WG2361113
1-Methylnaphthalene	U		0.00560	0.0250	1	09/13/2024 01:26	WG2361113
2-Methylnaphthalene	U		0.00533	0.0250	1	09/13/2024 01:26	WG2361113
2-Chloronaphthalene	U		0.00581	0.0250	1	09/13/2024 01:26	WG2361113
(S) p-Terphenyl-d14	94.0			23.0-120		09/13/2024 01:26	WG2361113
(S) Nitrobenzene-d5	71.7			14.0-149		09/13/2024 01:26	WG2361113
(S) 2-Fluorobiphenyl	65.9			34.0-125		09/13/2024 01:26	WG2361113

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.7		1	09/12/2024 07:34	WG2360568

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		0.0226	0.0502	1	09/11/2024 22:02	WG2360437

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.7		0.261	0.627	1	09/11/2024 20:51	WG2360234

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	0.0628	J	0.0560	0.0767	1	09/11/2024 23:05	WG2360780
Acrylonitrile	U		0.00554	0.0192	1	09/11/2024 23:05	WG2360780
Benzene	U		0.000717	0.00153	1	09/11/2024 23:05	WG2360780
Bromobenzene	U		0.00138	0.0192	1	09/11/2024 23:05	WG2360780
Bromodichloromethane	U		0.00111	0.00384	1	09/11/2024 23:05	WG2360780
Bromoform	U		0.00180	0.0384	1	09/11/2024 23:05	WG2360780
Bromomethane	U		0.00302	0.0192	1	09/11/2024 23:05	WG2360780
n-Butylbenzene	U		0.00806	0.0192	1	09/11/2024 23:05	WG2360780
sec-Butylbenzene	U		0.00442	0.0192	1	09/11/2024 23:05	WG2360780
tert-Butylbenzene	U		0.00299	0.00767	1	09/11/2024 23:05	WG2360780
Carbon tetrachloride	U		0.00138	0.00767	1	09/11/2024 23:05	WG2360780
Chlorobenzene	U		0.000322	0.00384	1	09/11/2024 23:05	WG2360780
Chlorodibromomethane	U		0.000939	0.00384	1	09/11/2024 23:05	WG2360780
Chloroethane	U		0.00261	0.00767	1	09/11/2024 23:05	WG2360780
Chloroform	U		0.00158	0.00384	1	09/11/2024 23:05	WG2360780
Chloromethane	U		0.00668	0.0192	1	09/11/2024 23:05	WG2360780
2-Chlorotoluene	U		0.00133	0.00384	1	09/11/2024 23:05	WG2360780
4-Chlorotoluene	U		0.000691	0.00767	1	09/11/2024 23:05	WG2360780
1,2-Dibromo-3-Chloropropane	U	C3	0.00599	0.0384	1	09/11/2024 23:05	WG2360780
1,2-Dibromoethane	U		0.000994	0.00384	1	09/11/2024 23:05	WG2360780
Dibromomethane	U		0.00115	0.00767	1	09/11/2024 23:05	WG2360780
1,2-Dichlorobenzene	U		0.000652	0.00767	1	09/11/2024 23:05	WG2360780
1,3-Dichlorobenzene	U		0.000921	0.00767	1	09/11/2024 23:05	WG2360780
1,4-Dichlorobenzene	U		0.00107	0.00767	1	09/11/2024 23:05	WG2360780
Dichlorodifluoromethane	U		0.00247	0.00767	1	09/11/2024 23:05	WG2360780
1,1-Dichloroethane	U		0.000754	0.00384	1	09/11/2024 23:05	WG2360780
1,2-Dichloroethane	U		0.000996	0.00384	1	09/11/2024 23:05	WG2360780
1,1-Dichloroethene	U		0.000930	0.00384	1	09/11/2024 23:05	WG2360780
cis-1,2-Dichloroethene	U		0.00113	0.00384	1	09/11/2024 23:05	WG2360780
trans-1,2-Dichloroethene	U		0.00160	0.00767	1	09/11/2024 23:05	WG2360780
1,2-Dichloropropane	U		0.00218	0.00767	1	09/11/2024 23:05	WG2360780
1,1-Dichloropropene	U		0.00124	0.00384	1	09/11/2024 23:05	WG2360780
1,3-Dichloropropane	U		0.000769	0.00767	1	09/11/2024 23:05	WG2360780
cis-1,3-Dichloropropene	U		0.00116	0.00384	1	09/11/2024 23:05	WG2360780
trans-1,3-Dichloropropene	U		0.00175	0.00767	1	09/11/2024 23:05	WG2360780
2,2-Dichloropropane	U		0.00212	0.00384	1	09/11/2024 23:05	WG2360780
Di-isopropyl ether	U		0.000629	0.00153	1	09/11/2024 23:05	WG2360780
Ethylbenzene	U		0.00113	0.00384	1	09/11/2024 23:05	WG2360780
Hexachloro-1,3-butadiene	U		0.00921	0.0384	1	09/11/2024 23:05	WG2360780

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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
Isopropylbenzene	U		0.000652	0.00384	1	09/11/2024 23:05	WG2360780
p-Isopropyltoluene	U		0.00391	0.00767	1	09/11/2024 23:05	WG2360780
2-Butanone (MEK)	U		0.0975	0.153	1	09/11/2024 23:05	WG2360780
Methylene Chloride	U		0.0102	0.0384	1	09/11/2024 23:05	WG2360780
4-Methyl-2-pentanone (MIBK)	U		0.00350	0.0384	1	09/11/2024 23:05	WG2360780
Methyl tert-butyl ether	U		0.000537	0.00153	1	09/11/2024 23:05	WG2360780
Naphthalene	U	C3	0.00749	0.0192	1	09/11/2024 23:05	WG2360780
n-Propylbenzene	U		0.00146	0.00767	1	09/11/2024 23:05	WG2360780
Styrene	U		0.000351	0.0192	1	09/11/2024 23:05	WG2360780
1,1,1,2-Tetrachloroethane	U		0.00145	0.00384	1	09/11/2024 23:05	WG2360780
1,1,2,2-Tetrachloroethane	U		0.00107	0.00384	1	09/11/2024 23:05	WG2360780
1,1,2-Trichlorotrifluoroethane	U		0.00116	0.00384	1	09/11/2024 23:05	WG2360780
Tetrachloroethene	U		0.00138	0.00384	1	09/11/2024 23:05	WG2360780
Toluene	U		0.00200	0.00767	1	09/11/2024 23:05	WG2360780
1,2,3-Trichlorobenzene	U		0.0112	0.0192	1	09/11/2024 23:05	WG2360780
1,2,4-Trichlorobenzene	U		0.00675	0.0192	1	09/11/2024 23:05	WG2360780
1,1,1-Trichloroethane	U	J4	0.00142	0.00384	1	09/11/2024 23:05	WG2360780
1,1,2-Trichloroethane	U		0.000916	0.00384	1	09/11/2024 23:05	WG2360780
Trichloroethene	U		0.000896	0.00153	1	09/11/2024 23:05	WG2360780
Trichlorofluoromethane	U		0.00127	0.00384	1	09/11/2024 23:05	WG2360780
1,2,3-Trichloropropane	U		0.00249	0.0192	1	09/11/2024 23:05	WG2360780
1,2,4-Trimethylbenzene	U		0.00242	0.00767	1	09/11/2024 23:05	WG2360780
1,2,3-Trimethylbenzene	U		0.00242	0.00767	1	09/11/2024 23:05	WG2360780
1,3,5-Trimethylbenzene	U		0.00307	0.00767	1	09/11/2024 23:05	WG2360780
Vinyl chloride	U		0.00178	0.00384	1	09/11/2024 23:05	WG2360780
Xylenes, Total	U		0.00135	0.00998	1	09/11/2024 23:05	WG2360780
(S) Toluene-d8	99.3			75.0-131		09/11/2024 23:05	WG2360780
(S) 4-Bromofluorobenzene	98.4			67.0-138		09/11/2024 23:05	WG2360780
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		09/11/2024 23:05	WG2360780

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.67	5.02	1	09/13/2024 13:12	WG2361139
Residual Range Organics (RRO)	U		4.18	12.5	1	09/13/2024 13:12	WG2361139
(S) o-Terphenyl	58.2			18.0-148		09/13/2024 13:12	WG2361139

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		0.0148	0.0427	1	09/13/2024 01:01	WG2360659
PCB 1221	U		0.0148	0.0427	1	09/13/2024 01:01	WG2360659
PCB 1232	U		0.0148	0.0427	1	09/13/2024 01:01	WG2360659
PCB 1242	U		0.0148	0.0427	1	09/13/2024 01:01	WG2360659
PCB 1248	U		0.00926	0.0213	1	09/13/2024 01:01	WG2360659
PCB 1254	U		0.00926	0.0213	1	09/13/2024 01:01	WG2360659
PCB 1260	U		0.00926	0.0213	1	09/13/2024 01:01	WG2360659
(S) Decachlorobiphenyl	92.2			10.0-135		09/13/2024 01:01	WG2360659
(S) Tetrachloro-m-xylene	88.1			10.0-139		09/13/2024 01:01	WG2360659

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00289	0.00753	1	09/13/2024 01:44	WG2361113
Acenaphthene	U		0.00262	0.00753	1	09/13/2024 01:44	WG2361113
Acenaphthylene	U		0.00271	0.00753	1	09/13/2024 01:44	WG2361113
Benzo(a)anthracene	U		0.00217	0.00753	1	09/13/2024 01:44	WG2361113
Benzo(a)pyrene	U		0.00225	0.00753	1	09/13/2024 01:44	WG2361113
Benzo(b)fluoranthene	U		0.00192	0.00753	1	09/13/2024 01:44	WG2361113
Benzo(g,h,i)perylene	U		0.00222	0.00753	1	09/13/2024 01:44	WG2361113
Benzo(k)fluoranthene	U		0.00270	0.00753	1	09/13/2024 01:44	WG2361113
Chrysene	U		0.00291	0.00753	1	09/13/2024 01:44	WG2361113
Dibenz(a,h)anthracene	U		0.00216	0.00753	1	09/13/2024 01:44	WG2361113
Fluoranthene	U		0.00285	0.00753	1	09/13/2024 01:44	WG2361113
Fluorene	U		0.00257	0.00753	1	09/13/2024 01:44	WG2361113
Indeno(1,2,3-cd)pyrene	U		0.00227	0.00753	1	09/13/2024 01:44	WG2361113
Naphthalene	U		0.00512	0.0251	1	09/13/2024 01:44	WG2361113
Phenanthrene	U		0.00290	0.00753	1	09/13/2024 01:44	WG2361113
Pyrene	U		0.00251	0.00753	1	09/13/2024 01:44	WG2361113
1-Methylnaphthalene	U		0.00563	0.0251	1	09/13/2024 01:44	WG2361113
2-Methylnaphthalene	U		0.00536	0.0251	1	09/13/2024 01:44	WG2361113
2-Chloronaphthalene	U		0.00585	0.0251	1	09/13/2024 01:44	WG2361113
(S) p-Terphenyl-d14	82.5			23.0-120		09/13/2024 01:44	WG2361113
(S) Nitrobenzene-d5	74.4			14.0-149		09/13/2024 01:44	WG2361113
(S) 2-Fluorobiphenyl	72.2			34.0-125		09/13/2024 01:44	WG2361113

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119077-1 09/12/24 07:34

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1776132-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1776132-02 09/12/24 07:34 • (DUP) R4119077-3 09/12/24 07:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Total Solids	68.6	68.7	1	0.152		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4119077-2 09/12/24 07:34

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

⁹Sc

Method Blank (MB)

(MB) R4118729-1 09/11/24 20:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4118729-2 09/11/24 20:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.462	92.3	80.0-120	

L1776009-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776009-11 09/11/24 21:01 • (MS) R4118729-4 09/11/24 21:07 • (MSD) R4118729-7 09/11/24 21:09

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.618	0.207	0.785	1.25	93.6	168	1	75.0-125		J3 J5	45.3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118719-1 09/11/24 20:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4118719-2 09/11/24 20:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	95.5	95.5	80.0-120	

L1775742-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775742-06 09/11/24 20:09 • (MS) R4118719-5 09/11/24 20:14 • (MSD) R4118719-6 09/11/24 20:16

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 %
Lead	126	8.13	126	127	94.0	94.3	1	75.0-125			0.224	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4118782-3 09/11/24 17:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4118782-3 09/11/24 17:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.8			75.0-131
(S) 4-Bromofluorobenzene	99.6			67.0-138
(S) 1,2-Dichloroethane-d4	98.8			70.0-130

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

(LCS) R4118782-1 09/11/24 16:04 • (LCSD) R4118782-2 09/11/24 16:23

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	0.625	0.567	0.542	90.7	86.7	10.0-160			4.51	31
Acrylonitrile	0.625	0.552	0.513	88.3	82.1	45.0-153			7.32	22
Benzene	0.125	0.125	0.122	100	97.6	70.0-123			2.43	20
Bromobenzene	0.125	0.128	0.133	102	106	73.0-121			3.83	20
Bromodichloromethane	0.125	0.132	0.129	106	103	73.0-121			2.30	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4118782-1 09/11/24 16:04 • (LCSD) R4118782-2 09/11/24 16:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.126	0.130	101	104	64.0-132			3.12	20
Bromomethane	0.125	0.112	0.109	89.6	87.2	56.0-147			2.71	20
n-Butylbenzene	0.125	0.117	0.122	93.6	97.6	68.0-135			4.18	20
sec-Butylbenzene	0.125	0.126	0.124	101	99.2	74.0-130			1.60	20
tert-Butylbenzene	0.125	0.126	0.131	101	105	75.0-127			3.89	20
Carbon tetrachloride	0.125	0.155	0.159	124	127	66.0-128			2.55	20
Chlorobenzene	0.125	0.119	0.123	95.2	98.4	76.0-128			3.31	20
Chlorodibromomethane	0.125	0.126	0.126	101	101	74.0-127			0.000	20
Chloroethane	0.125	0.140	0.136	112	109	61.0-134			2.90	20
Chloroform	0.125	0.132	0.136	106	109	72.0-123			2.99	20
Chloromethane	0.125	0.120	0.120	96.0	96.0	51.0-138			0.000	20
2-Chlorotoluene	0.125	0.118	0.122	94.4	97.6	75.0-124			3.33	20
4-Chlorotoluene	0.125	0.108	0.105	86.4	84.0	75.0-124			2.82	20
1,2-Dibromo-3-Chloropropane	0.125	0.0992	0.0929	79.4	74.3	59.0-130			6.56	20
1,2-Dibromoethane	0.125	0.119	0.121	95.2	96.8	74.0-128			1.67	20
Dibromomethane	0.125	0.131	0.126	105	101	75.0-122			3.89	20
1,2-Dichlorobenzene	0.125	0.116	0.124	92.8	99.2	76.0-124			6.67	20
1,3-Dichlorobenzene	0.125	0.121	0.124	96.8	99.2	76.0-125			2.45	20
1,4-Dichlorobenzene	0.125	0.116	0.120	92.8	96.0	77.0-121			3.39	20
Dichlorodifluoromethane	0.125	0.144	0.144	115	115	43.0-156			0.000	20
1,1-Dichloroethane	0.125	0.136	0.132	109	106	70.0-127			2.99	20
1,2-Dichloroethane	0.125	0.128	0.124	102	99.2	65.0-131			3.17	20
1,1-Dichloroethene	0.125	0.141	0.137	113	110	65.0-131			2.88	20
cis-1,2-Dichloroethene	0.125	0.120	0.124	96.0	99.2	73.0-125			3.28	20
trans-1,2-Dichloroethene	0.125	0.135	0.134	108	107	71.0-125			0.743	20
1,2-Dichloropropane	0.125	0.132	0.129	106	103	74.0-125			2.30	20
1,1-Dichloropropene	0.125	0.155	0.150	124	120	73.0-125			3.28	20
1,3-Dichloropropane	0.125	0.126	0.127	101	102	80.0-125			0.791	20
cis-1,3-Dichloropropene	0.125	0.137	0.137	110	110	76.0-127			0.000	20
trans-1,3-Dichloropropene	0.125	0.128	0.129	102	103	73.0-127			0.778	20
2,2-Dichloropropane	0.125	0.156	0.152	125	122	59.0-135			2.60	20
Di-isopropyl ether	0.125	0.126	0.130	101	104	60.0-136			3.12	20
Ethylbenzene	0.125	0.123	0.125	98.4	100	74.0-126			1.61	20
Hexachloro-1,3-butadiene	0.125	0.164	0.173	131	138	57.0-150			5.34	20
Isopropylbenzene	0.125	0.121	0.123	96.8	98.4	72.0-127			1.64	20
p-Isopropyltoluene	0.125	0.123	0.126	98.4	101	72.0-133			2.41	20
2-Butanone (MEK)	0.625	0.593	0.555	94.9	88.8	30.0-160			6.62	24
Methylene Chloride	0.125	0.127	0.130	102	104	68.0-123			2.33	20
4-Methyl-2-pentanone (MIBK)	0.625	0.586	0.595	93.8	95.2	56.0-143			1.52	20
Methyl tert-butyl ether	0.125	0.121	0.125	96.8	100	66.0-132			3.25	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4118782-1 09/11/24 16:04 • (LCSD) R4118782-2 09/11/24 16:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.0886	0.0979	70.9	78.3	59.0-130			9.97	20
n-Propylbenzene	0.125	0.133	0.137	106	110	74.0-126			2.96	20
Styrene	0.125	0.111	0.116	88.8	92.8	72.0-127			4.41	20
1,1,1,2-Tetrachloroethane	0.125	0.122	0.125	97.6	100	74.0-129			2.43	20
1,1,2,2-Tetrachloroethane	0.125	0.129	0.126	103	101	68.0-128			2.35	20
1,1,2-Trichlorotrifluoroethane	0.125	0.168	0.168	134	134	61.0-139			0.000	20
Tetrachloroethene	0.125	0.141	0.146	113	117	70.0-136			3.48	20
Toluene	0.125	0.121	0.125	96.8	100	75.0-121			3.25	20
1,2,3-Trichlorobenzene	0.125	0.118	0.119	94.4	95.2	59.0-139			0.844	20
1,2,4-Trichlorobenzene	0.125	0.116	0.121	92.8	96.8	62.0-137			4.22	20
1,1,1-Trichloroethane	0.125	0.156	0.160	125	128	69.0-126		J4	2.53	20
1,1,2-Trichloroethane	0.125	0.121	0.120	96.8	96.0	78.0-123			0.830	20
Trichloroethene	0.125	0.126	0.132	101	106	76.0-126			4.65	20
Trichlorofluoromethane	0.125	0.139	0.146	111	117	61.0-142			4.91	20
1,2,3-Trichloropropane	0.125	0.127	0.128	102	102	67.0-129			0.784	20
1,2,4-Trimethylbenzene	0.125	0.116	0.114	92.8	91.2	70.0-126			1.74	20
1,2,3-Trimethylbenzene	0.125	0.111	0.114	88.8	91.2	74.0-124			2.67	20
1,3,5-Trimethylbenzene	0.125	0.120	0.125	96.0	100	73.0-127			4.08	20
Vinyl chloride	0.125	0.127	0.120	102	96.0	63.0-134			5.67	20
Xylenes, Total	0.375	0.350	0.372	93.3	99.2	72.0-127			6.09	20
(S) Toluene-d8				99.1	99.7	75.0-131				
(S) 4-Bromofluorobenzene				96.5	95.5	67.0-138				
(S) 1,2-Dichloroethane-d4				103	102	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119675-2 09/13/24 13:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	76.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4119675-1 09/13/24 13:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	46.5	93.0	50.0-150	
(S) o-Terphenyl			104	18.0-148	

L1776163-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776163-03 09/13/24 13:12 • (MS) R4119675-3 09/13/24 13:26 • (MSD) R4119675-4 09/13/24 13:39

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 %
Diesel Range Organics (DRO)	62.1	U	44.7	42.8	71.9	68.2	1	50.0-150			4.30	20
(S) o-Terphenyl					58.0	61.3		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119489-1 09/12/24 23:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	94.1			10.0-135
(S) Tetrachloro-m-xylene	95.2			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4119489-5 09/12/24 23:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.170	102	36.0-141	
PCB 1260	0.167	0.176	105	37.0-145	
(S) Decachlorobiphenyl			104	10.0-135	
(S) Tetrachloro-m-xylene			93.5	10.0-139	

L1773772-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1773772-01 09/13/24 01:10 • (MS) R4119489-6 09/13/24 00:05 • (MSD) R4119489-7 09/13/24 00:14

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 %
PCB 1016	0.160	U	0.164	0.179	103	111	1	10.0-160	P	P	8.85	37
PCB 1260	0.160	U	0.160	0.182	100	113	1	10.0-160			13.0	38
(S) Decachlorobiphenyl					84.5	100		10.0-135				
(S) Tetrachloro-m-xylene					75.8	87.0		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4119649-2 09/12/24 21:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	101			23.0-120
(S) Nitrobenzene-d5	74.7			14.0-149
(S) 2-Fluorobiphenyl	94.8			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4119649-1 09/12/24 20:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0601	75.1	50.0-126	
Acenaphthene	0.0800	0.0540	67.5	50.0-120	
Acenaphthylene	0.0800	0.0572	71.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0643	80.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0535	66.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0652	81.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0667	83.4	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0631	78.9	49.0-125	
Chrysene	0.0800	0.0707	88.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0757	94.6	47.0-125	
Fluoranthene	0.0800	0.0703	87.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4119649-1 09/12/24 20:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0624	78.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0685	85.6	46.0-125	
Naphthalene	0.0800	0.0565	70.6	50.0-120	
Phenanthrene	0.0800	0.0637	79.6	47.0-120	
Pyrene	0.0800	0.0657	82.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0619	77.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0601	75.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0606	75.8	50.0-120	
(S) p-Terphenyl-d14			111	23.0-120	
(S) Nitrobenzene-d5			79.5	14.0-149	
(S) 2-Fluorobiphenyl			86.2	34.0-125	

L1774763-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1774763-04 09/13/24 02:19 • (MS) R4119649-3 09/13/24 02:37 • (MSD) R4119649-4 09/13/24 02:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0772	U	0.0575	0.0609	74.5	77.7	1	10.0-145			5.74	30
Acenaphthene	0.0772	U	0.0459	0.0476	59.5	60.7	1	14.0-127			3.64	27
Acenaphthylene	0.0772	U	0.0411	0.0501	53.2	63.9	1	21.0-124			19.7	25
Benzo(a)anthracene	0.0772	U	0.0634	0.0624	82.1	79.6	1	10.0-139			1.59	30
Benzo(a)pyrene	0.0772	U	0.0557	0.0545	72.2	69.5	1	10.0-141			2.18	31
Benzo(b)fluoranthene	0.0772	U	0.0547	0.0533	70.9	68.0	1	10.0-140			2.59	36
Benzo(g,h,i)perylene	0.0772	U	0.0860	0.0535	111	68.2	1	10.0-140		J3	46.6	33
Benzo(k)fluoranthene	0.0772	U	0.0538	0.0524	69.7	66.8	1	10.0-137			2.64	31
Chrysene	0.0772	U	0.0647	0.0610	83.8	77.8	1	10.0-145			5.89	30
Dibenz(a,h)anthracene	0.0772	U	0.0872	0.0602	113	76.8	1	10.0-132		J3	36.6	31
Fluoranthene	0.0772	U	0.0452	0.0635	58.5	81.0	1	10.0-153		J3	33.7	33
Fluorene	0.0772	U	0.0573	0.0584	74.2	74.5	1	11.0-130			1.90	29
Indeno(1,2,3-cd)pyrene	0.0772	U	0.0848	0.0567	110	72.3	1	10.0-137		J3	39.7	32
Naphthalene	0.0772	0.0101	0.0424	0.0659	41.8	71.2	1	10.0-135		J3	43.4	27
Phenanthrene	0.0772	U	0.0583	0.0590	75.5	75.3	1	10.0-144			1.19	31
Pyrene	0.0772	U	0.0541	0.0579	70.1	73.9	1	10.0-148			6.79	35
1-Methylnaphthalene	0.0772	U	0.0497	0.0540	64.4	68.9	1	10.0-142			8.29	28
2-Methylnaphthalene	0.0772	0.00844	0.0495	0.0671	53.2	74.8	1	10.0-137		J3	30.2	28
2-Chloronaphthalene	0.0772	U	0.0407	0.0497	52.5	63.2	1	29.0-120			19.9	24
(S) p-Terphenyl-d14					92.0	93.1		23.0-120				
(S) Nitrobenzene-d5					73.4	64.6		14.0-149				
(S) 2-Fluorobiphenyl					65.2	78.9		34.0-125				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

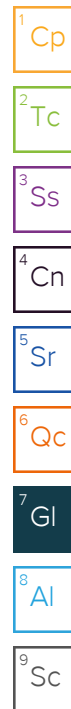
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

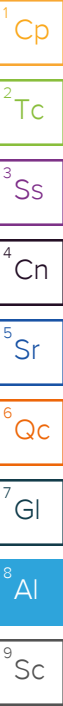
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.

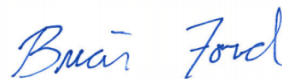


[illegible]

Earth Engineers - Camas, WA

Sample Delivery Group: L1778300
Samples Received: 09/17/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_A_E_8-9@13 L1778300-01	5
B_F_B+20-D_6-7@13 L1778300-02	8
B_F_A+15-B+20_7-8@13 L1778300-03	11
B_F_A-10+15_7-8@13 L1778300-04	14
Qc: Quality Control Summary	17
Total Solids by Method 2540 G-2011	17
Mercury by Method 7471B	18
Metals (ICP) by Method 6010D	19
Volatile Organic Compounds (GC/MS) by Method 8260D	20
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	24
Polychlorinated Biphenyls (GC) by Method 8082 A	25
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	26
Gl: Glossary of Terms	30
Al: Accreditations & Locations	31
Sc: Sample Chain of Custody	32



SAMPLE SUMMARY

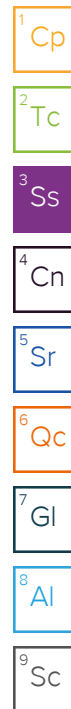
B_F_A_E_8-9@13 L1778300-01 Solid

Collected by
Matt Enos

Collected date/time
09/16/24 12:00

Received date/time
09/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2364136	1	09/17/24 15:56	09/17/24 16:08	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2364716	1	09/18/24 09:30	09/18/24 20:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2364766	1	09/18/24 16:43	09/18/24 21:10	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2364452	1	09/16/24 12:00	09/18/24 08:16	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2365098	1	09/19/24 07:42	09/19/24 13:39	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2364691	1	09/18/24 16:02	09/19/24 03:52	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2364685	1	09/18/24 14:03	09/19/24 02:15	JCH	Mt. Juliet, TN



B_F_B+20-D_6-7@13 L1778300-02 Solid

Collected by
Matt Enos

Collected date/time
09/16/24 12:30

Received date/time
09/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2364136	1	09/17/24 15:56	09/17/24 16:08	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2364716	1	09/18/24 09:30	09/18/24 20:34	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2364766	1	09/18/24 16:43	09/18/24 21:11	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2364452	1	09/16/24 12:30	09/18/24 08:35	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2365098	1	09/19/24 07:42	09/19/24 13:53	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2364691	1	09/18/24 16:02	09/19/24 04:01	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2364685	1	09/18/24 14:03	09/19/24 02:32	JCH	Mt. Juliet, TN

B_F_A+15-B+20_7-8@13 L1778300-03 Solid

Collected by
Matt Enos

Collected date/time
09/16/24 13:10

Received date/time
09/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2364136	1	09/17/24 15:56	09/17/24 16:08	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2364716	1	09/18/24 09:30	09/18/24 20:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2364766	1	09/18/24 16:43	09/18/24 20:49	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2364452	1	09/16/24 13:10	09/18/24 08:55	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2365098	1	09/19/24 07:42	09/19/24 14:20	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2364691	1	09/18/24 16:02	09/19/24 04:10	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2364685	1	09/18/24 14:03	09/19/24 00:47	JCH	Mt. Juliet, TN

B_F_A+10+15_7-8@13 L1778300-04 Solid

Collected by
Matt Enos

Collected date/time
09/16/24 13:50

Received date/time
09/17/24 09:00

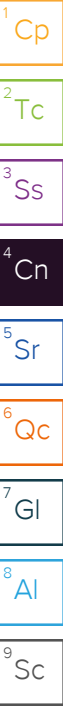
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2364136	1	09/17/24 15:56	09/17/24 16:08	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2364716	1	09/18/24 09:30	09/18/24 20:39	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2364766	1	09/18/24 16:43	09/18/24 21:13	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2364452	1	09/16/24 13:50	09/18/24 09:14	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2365098	1	09/19/24 07:42	09/19/24 14:33	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2364691	1	09/18/24 16:02	09/19/24 04:18	HMH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2364835	1	09/19/24 08:18	09/20/24 04:43	MBE	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.



Brian Ford
Project Manager



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	71.6		1	09/17/2024 16:08	WG2364136

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0251	0.0559	1	09/18/2024 20:31	WG2364716

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.95		0.290	0.698	1	09/18/2024 21:10	WG2364766

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0680	0.0931	1	09/18/2024 08:16	WG2364452
Acrylonitrile	U		0.00672	0.0233	1	09/18/2024 08:16	WG2364452
Benzene	U		0.000870	0.00186	1	09/18/2024 08:16	WG2364452
Bromobenzene	U		0.00168	0.0233	1	09/18/2024 08:16	WG2364452
Bromodichloromethane	U		0.00135	0.00466	1	09/18/2024 08:16	WG2364452
Bromoform	U		0.00218	0.0466	1	09/18/2024 08:16	WG2364452
Bromomethane	U		0.00367	0.0233	1	09/18/2024 08:16	WG2364452
n-Butylbenzene	U		0.00978	0.0233	1	09/18/2024 08:16	WG2364452
sec-Butylbenzene	U		0.00536	0.0233	1	09/18/2024 08:16	WG2364452
tert-Butylbenzene	U		0.00363	0.00931	1	09/18/2024 08:16	WG2364452
Carbon tetrachloride	U	J4	0.00167	0.00931	1	09/18/2024 08:16	WG2364452
Chlorobenzene	U		0.000391	0.00466	1	09/18/2024 08:16	WG2364452
Chlorodibromomethane	U		0.00114	0.00466	1	09/18/2024 08:16	WG2364452
Chloroethane	U		0.00317	0.00931	1	09/18/2024 08:16	WG2364452
Chloroform	U		0.00192	0.00466	1	09/18/2024 08:16	WG2364452
Chloromethane	U		0.00810	0.0233	1	09/18/2024 08:16	WG2364452
2-Chlorotoluene	U		0.00161	0.00466	1	09/18/2024 08:16	WG2364452
4-Chlorotoluene	U		0.000838	0.00931	1	09/18/2024 08:16	WG2364452
1,2-Dibromo-3-Chloropropane	U		0.00726	0.0466	1	09/18/2024 08:16	WG2364452
1,2-Dibromoethane	U		0.00121	0.00466	1	09/18/2024 08:16	WG2364452
Dibromomethane	U		0.00140	0.00931	1	09/18/2024 08:16	WG2364452
1,2-Dichlorobenzene	U		0.000791	0.00931	1	09/18/2024 08:16	WG2364452
1,3-Dichlorobenzene	U		0.00112	0.00931	1	09/18/2024 08:16	WG2364452
1,4-Dichlorobenzene	U		0.00130	0.00931	1	09/18/2024 08:16	WG2364452
Dichlorodifluoromethane	U		0.00300	0.00931	1	09/18/2024 08:16	WG2364452
1,1-Dichloroethane	U		0.000914	0.00466	1	09/18/2024 08:16	WG2364452
1,2-Dichloroethane	U		0.00121	0.00466	1	09/18/2024 08:16	WG2364452
1,1-Dichloroethene	U		0.00113	0.00466	1	09/18/2024 08:16	WG2364452
cis-1,2-Dichloroethene	U		0.00137	0.00466	1	09/18/2024 08:16	WG2364452
trans-1,2-Dichloroethene	U		0.00194	0.00931	1	09/18/2024 08:16	WG2364452
1,2-Dichloropropane	U		0.00264	0.00931	1	09/18/2024 08:16	WG2364452
1,1-Dichloropropene	U		0.00151	0.00466	1	09/18/2024 08:16	WG2364452
1,3-Dichloropropane	U		0.000933	0.00931	1	09/18/2024 08:16	WG2364452
cis-1,3-Dichloropropene	U		0.00141	0.00466	1	09/18/2024 08:16	WG2364452
trans-1,3-Dichloropropene	U		0.00212	0.00931	1	09/18/2024 08:16	WG2364452
2,2-Dichloropropane	U		0.00257	0.00466	1	09/18/2024 08:16	WG2364452
Di-isopropyl ether	U		0.000763	0.00186	1	09/18/2024 08:16	WG2364452
Ethylbenzene	U		0.00137	0.00466	1	09/18/2024 08:16	WG2364452
Hexachloro-1,3-butadiene	U		0.0112	0.0466	1	09/18/2024 08:16	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000791	0.00466	1	09/18/2024 08:16	WG2364452
p-Isopropyltoluene	U		0.00475	0.00931	1	09/18/2024 08:16	WG2364452
2-Butanone (MEK)	U		0.118	0.186	1	09/18/2024 08:16	WG2364452
Methylene Chloride	U		0.0124	0.0466	1	09/18/2024 08:16	WG2364452
4-Methyl-2-pentanone (MIBK)	U		0.00425	0.0466	1	09/18/2024 08:16	WG2364452
Methyl tert-butyl ether	U		0.000652	0.00186	1	09/18/2024 08:16	WG2364452
Naphthalene	U		0.00909	0.0233	1	09/18/2024 08:16	WG2364452
n-Propylbenzene	U		0.00177	0.00931	1	09/18/2024 08:16	WG2364452
Styrene	U		0.000426	0.0233	1	09/18/2024 08:16	WG2364452
1,1,1,2-Tetrachloroethane	U		0.00177	0.00466	1	09/18/2024 08:16	WG2364452
1,1,2,2-Tetrachloroethane	U		0.00129	0.00466	1	09/18/2024 08:16	WG2364452
1,1,2-Trichlorotrifluoroethane	U		0.00140	0.00466	1	09/18/2024 08:16	WG2364452
Tetrachloroethene	U		0.00167	0.00466	1	09/18/2024 08:16	WG2364452
Toluene	U		0.00242	0.00931	1	09/18/2024 08:16	WG2364452
1,2,3-Trichlorobenzene	U		0.0136	0.0233	1	09/18/2024 08:16	WG2364452
1,2,4-Trichlorobenzene	U		0.00819	0.0233	1	09/18/2024 08:16	WG2364452
1,1,1-Trichloroethane	U		0.00172	0.00466	1	09/18/2024 08:16	WG2364452
1,1,2-Trichloroethane	U		0.00111	0.00466	1	09/18/2024 08:16	WG2364452
Trichloroethene	U		0.00109	0.00186	1	09/18/2024 08:16	WG2364452
Trichlorofluoromethane	U		0.00154	0.00466	1	09/18/2024 08:16	WG2364452
1,2,3-Trichloropropane	U		0.00302	0.0233	1	09/18/2024 08:16	WG2364452
1,2,4-Trimethylbenzene	U		0.00294	0.00931	1	09/18/2024 08:16	WG2364452
1,2,3-Trimethylbenzene	U		0.00294	0.00931	1	09/18/2024 08:16	WG2364452
1,3,5-Trimethylbenzene	U		0.00372	0.00931	1	09/18/2024 08:16	WG2364452
Vinyl chloride	U		0.00216	0.00466	1	09/18/2024 08:16	WG2364452
Xylenes, Total	U		0.00164	0.0121	1	09/18/2024 08:16	WG2364452
(S) Toluene-d8	103			75.0-131		09/18/2024 08:16	WG2364452
(S) 4-Bromofluorobenzene	98.2			67.0-138		09/18/2024 08:16	WG2364452
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		09/18/2024 08:16	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.86	5.59	1	09/19/2024 13:39	WG2365098
Residual Range Organics (RRO)	U		4.65	14.0	1	09/19/2024 13:39	WG2365098
(S) o-Terphenyl	25.3			18.0-148		09/19/2024 13:39	WG2365098

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		0.0165	0.0475	1	09/19/2024 03:52	WG2364691
PCB 1221	U		0.0165	0.0475	1	09/19/2024 03:52	WG2364691
PCB 1232	U		0.0165	0.0475	1	09/19/2024 03:52	WG2364691
PCB 1242	U		0.0165	0.0475	1	09/19/2024 03:52	WG2364691
PCB 1248	U		0.0103	0.0237	1	09/19/2024 03:52	WG2364691
PCB 1254	U		0.0103	0.0237	1	09/19/2024 03:52	WG2364691
PCB 1260	U		0.0103	0.0237	1	09/19/2024 03:52	WG2364691
(S) Decachlorobiphenyl	54.4			10.0-135		09/19/2024 03:52	WG2364691
(S) Tetrachloro-m-xylene	73.8			10.0-139		09/19/2024 03:52	WG2364691

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00321	0.00838	1	09/19/2024 02:15	WG2364685
Acenaphthene	U		0.00292	0.00838	1	09/19/2024 02:15	WG2364685
Acenaphthylene	U		0.00302	0.00838	1	09/19/2024 02:15	WG2364685
Benzo(a)anthracene	U		0.00242	0.00838	1	09/19/2024 02:15	WG2364685
Benzo(a)pyrene	U		0.00250	0.00838	1	09/19/2024 02:15	WG2364685
Benzo(b)fluoranthene	U		0.00214	0.00838	1	09/19/2024 02:15	WG2364685
Benzo(g,h,i)perylene	U		0.00247	0.00838	1	09/19/2024 02:15	WG2364685
Benzo(k)fluoranthene	U		0.00300	0.00838	1	09/19/2024 02:15	WG2364685
Chrysene	U		0.00324	0.00838	1	09/19/2024 02:15	WG2364685
Dibenz(a,h)anthracene	U		0.00240	0.00838	1	09/19/2024 02:15	WG2364685
Fluoranthene	U		0.00317	0.00838	1	09/19/2024 02:15	WG2364685
Fluorene	U		0.00286	0.00838	1	09/19/2024 02:15	WG2364685
Indeno(1,2,3-cd)pyrene	U		0.00253	0.00838	1	09/19/2024 02:15	WG2364685
Naphthalene	U		0.00570	0.0279	1	09/19/2024 02:15	WG2364685
Phenanthrene	U		0.00323	0.00838	1	09/19/2024 02:15	WG2364685
Pyrene	U		0.00279	0.00838	1	09/19/2024 02:15	WG2364685
1-Methylnaphthalene	U		0.00627	0.0279	1	09/19/2024 02:15	WG2364685
2-Methylnaphthalene	U		0.00596	0.0279	1	09/19/2024 02:15	WG2364685
2-Chloronaphthalene	U		0.00651	0.0279	1	09/19/2024 02:15	WG2364685
(S) p-Terphenyl-d14	71.1			23.0-120		09/19/2024 02:15	WG2364685
(S) Nitrobenzene-d5	99.6			14.0-149		09/19/2024 02:15	WG2364685
(S) 2-Fluorobiphenyl	66.4			34.0-125		09/19/2024 02:15	WG2364685

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.6		1	09/17/2024 16:08	WG2364136

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0208	0.0462	1	09/18/2024 20:34	WG2364716

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.7		0.240	0.577	1	09/18/2024 21:11	WG2364766

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0487	0.0667	1	09/18/2024 08:35	WG2364452
Acrylonitrile	U		0.00481	0.0167	1	09/18/2024 08:35	WG2364452
Benzene	U		0.000623	0.00133	1	09/18/2024 08:35	WG2364452
Bromobenzene	U		0.00120	0.0167	1	09/18/2024 08:35	WG2364452
Bromodichloromethane	U		0.000967	0.00333	1	09/18/2024 08:35	WG2364452
Bromoform	U		0.00156	0.0333	1	09/18/2024 08:35	WG2364452
Bromomethane	U		0.00263	0.0167	1	09/18/2024 08:35	WG2364452
n-Butylbenzene	U		0.00700	0.0167	1	09/18/2024 08:35	WG2364452
sec-Butylbenzene	U		0.00384	0.0167	1	09/18/2024 08:35	WG2364452
tert-Butylbenzene	U		0.00260	0.00667	1	09/18/2024 08:35	WG2364452
Carbon tetrachloride	U	J4	0.00120	0.00667	1	09/18/2024 08:35	WG2364452
Chlorobenzene	U		0.000280	0.00333	1	09/18/2024 08:35	WG2364452
Chlorodibromomethane	U		0.000816	0.00333	1	09/18/2024 08:35	WG2364452
Chloroethane	U		0.00227	0.00667	1	09/18/2024 08:35	WG2364452
Chloroform	U		0.00137	0.00333	1	09/18/2024 08:35	WG2364452
Chloromethane	U		0.00580	0.0167	1	09/18/2024 08:35	WG2364452
2-Chlorotoluene	U		0.00115	0.00333	1	09/18/2024 08:35	WG2364452
4-Chlorotoluene	U		0.000600	0.00667	1	09/18/2024 08:35	WG2364452
1,2-Dibromo-3-Chloropropane	U		0.00520	0.0333	1	09/18/2024 08:35	WG2364452
1,2-Dibromoethane	U		0.000864	0.00333	1	09/18/2024 08:35	WG2364452
Dibromomethane	U		0.00100	0.00667	1	09/18/2024 08:35	WG2364452
1,2-Dichlorobenzene	U		0.000567	0.00667	1	09/18/2024 08:35	WG2364452
1,3-Dichlorobenzene	U		0.000800	0.00667	1	09/18/2024 08:35	WG2364452
1,4-Dichlorobenzene	U		0.000934	0.00667	1	09/18/2024 08:35	WG2364452
Dichlorodifluoromethane	U		0.00215	0.00667	1	09/18/2024 08:35	WG2364452
1,1-Dichloroethane	U		0.000655	0.00333	1	09/18/2024 08:35	WG2364452
1,2-Dichloroethane	U		0.000866	0.00333	1	09/18/2024 08:35	WG2364452
1,1-Dichloroethene	U		0.000808	0.00333	1	09/18/2024 08:35	WG2364452
cis-1,2-Dichloroethene	U		0.000979	0.00333	1	09/18/2024 08:35	WG2364452
trans-1,2-Dichloroethene	U		0.00139	0.00667	1	09/18/2024 08:35	WG2364452
1,2-Dichloropropane	U		0.00189	0.00667	1	09/18/2024 08:35	WG2364452
1,1-Dichloropropene	U		0.00108	0.00333	1	09/18/2024 08:35	WG2364452
1,3-Dichloropropane	U		0.000668	0.00667	1	09/18/2024 08:35	WG2364452
cis-1,3-Dichloropropene	U		0.00101	0.00333	1	09/18/2024 08:35	WG2364452
trans-1,3-Dichloropropene	U		0.00152	0.00667	1	09/18/2024 08:35	WG2364452
2,2-Dichloropropane	U		0.00184	0.00333	1	09/18/2024 08:35	WG2364452
Di-isopropyl ether	U		0.000547	0.00133	1	09/18/2024 08:35	WG2364452
Ethylbenzene	U		0.000983	0.00333	1	09/18/2024 08:35	WG2364452
Hexachloro-1,3-butadiene	U		0.00800	0.0333	1	09/18/2024 08:35	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000567	0.00333	1	09/18/2024 08:35	WG2364452
p-Isopropyltoluene	U		0.00340	0.00667	1	09/18/2024 08:35	WG2364452
2-Butanone (MEK)	U		0.0847	0.133	1	09/18/2024 08:35	WG2364452
Methylene Chloride	U		0.00886	0.0333	1	09/18/2024 08:35	WG2364452
4-Methyl-2-pentanone (MIBK)	U		0.00304	0.0333	1	09/18/2024 08:35	WG2364452
Methyl tert-butyl ether	U		0.000467	0.00133	1	09/18/2024 08:35	WG2364452
Naphthalene	U		0.00651	0.0167	1	09/18/2024 08:35	WG2364452
n-Propylbenzene	U		0.00127	0.00667	1	09/18/2024 08:35	WG2364452
Styrene	U		0.000305	0.0167	1	09/18/2024 08:35	WG2364452
1,1,1,2-Tetrachloroethane	U		0.00126	0.00333	1	09/18/2024 08:35	WG2364452
1,1,2,2-Tetrachloroethane	U		0.000927	0.00333	1	09/18/2024 08:35	WG2364452
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00333	1	09/18/2024 08:35	WG2364452
Tetrachloroethene	U		0.00120	0.00333	1	09/18/2024 08:35	WG2364452
Toluene	U		0.00173	0.00667	1	09/18/2024 08:35	WG2364452
1,2,3-Trichlorobenzene	U		0.00978	0.0167	1	09/18/2024 08:35	WG2364452
1,2,4-Trichlorobenzene	U		0.00587	0.0167	1	09/18/2024 08:35	WG2364452
1,1,1-Trichloroethane	U		0.00123	0.00333	1	09/18/2024 08:35	WG2364452
1,1,2-Trichloroethane	U		0.000796	0.00333	1	09/18/2024 08:35	WG2364452
Trichloroethene	U		0.000779	0.00133	1	09/18/2024 08:35	WG2364452
Trichlorofluoromethane	U		0.00110	0.00333	1	09/18/2024 08:35	WG2364452
1,2,3-Trichloropropane	U		0.00216	0.0167	1	09/18/2024 08:35	WG2364452
1,2,4-Trimethylbenzene	U		0.00211	0.00667	1	09/18/2024 08:35	WG2364452
1,2,3-Trimethylbenzene	U		0.00211	0.00667	1	09/18/2024 08:35	WG2364452
1,3,5-Trimethylbenzene	U		0.00267	0.00667	1	09/18/2024 08:35	WG2364452
Vinyl chloride	U		0.00155	0.00333	1	09/18/2024 08:35	WG2364452
Xylenes, Total	U		0.00117	0.00867	1	09/18/2024 08:35	WG2364452
(S) Toluene-d8	104			75.0-131		09/18/2024 08:35	WG2364452
(S) 4-Bromofluorobenzene	96.5			67.0-138		09/18/2024 08:35	WG2364452
(S) 1,2-Dichloroethane-d4	91.9			70.0-130		09/18/2024 08:35	WG2364452

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	13.2		1.54	4.62	1	09/19/2024 13:53	WG2365098
Residual Range Organics (RRO)	52.1		3.84	11.5	1	09/19/2024 13:53	WG2365098
(S) o-Terphenyl	34.5			18.0-148		09/19/2024 13:53	WG2365098

Sample Narrative:

L1778300-02 WG2365098: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0136	0.0393	1	09/19/2024 04:01	WG2364691
PCB 1221	U		0.0136	0.0393	1	09/19/2024 04:01	WG2364691
PCB 1232	U		0.0136	0.0393	1	09/19/2024 04:01	WG2364691
PCB 1242	U		0.0136	0.0393	1	09/19/2024 04:01	WG2364691
PCB 1248	U		0.00852	0.0196	1	09/19/2024 04:01	WG2364691
PCB 1254	U		0.00852	0.0196	1	09/19/2024 04:01	WG2364691
PCB 1260	U		0.00852	0.0196	1	09/19/2024 04:01	WG2364691
(S) Decachlorobiphenyl	84.3			10.0-135		09/19/2024 04:01	WG2364691
(S) Tetrachloro-m-xylene	84.8			10.0-139		09/19/2024 04:01	WG2364691

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00266	0.00693	1	09/19/2024 02:32	WG2364685
Acenaphthene	U		0.00241	0.00693	1	09/19/2024 02:32	WG2364685
Acenaphthylene	U		0.00249	0.00693	1	09/19/2024 02:32	WG2364685
Benzo(a)anthracene	0.00296	U	0.00200	0.00693	1	09/19/2024 02:32	WG2364685
Benzo(a)pyrene	0.00222	U	0.00207	0.00693	1	09/19/2024 02:32	WG2364685
Benzo(b)fluoranthene	U		0.00177	0.00693	1	09/19/2024 02:32	WG2364685
Benzo(g,h,i)perylene	U		0.00204	0.00693	1	09/19/2024 02:32	WG2364685
Benzo(k)fluoranthene	U		0.00248	0.00693	1	09/19/2024 02:32	WG2364685
Chrysene	0.00364	U	0.00268	0.00693	1	09/19/2024 02:32	WG2364685
Dibenz(a,h)anthracene	U		0.00199	0.00693	1	09/19/2024 02:32	WG2364685
Fluoranthene	0.00717		0.00262	0.00693	1	09/19/2024 02:32	WG2364685
Fluorene	U		0.00237	0.00693	1	09/19/2024 02:32	WG2364685
Indeno(1,2,3-cd)pyrene	U		0.00209	0.00693	1	09/19/2024 02:32	WG2364685
Naphthalene	U		0.00471	0.0231	1	09/19/2024 02:32	WG2364685
Phenanthrene	0.00635	U	0.00267	0.00693	1	09/19/2024 02:32	WG2364685
Pyrene	0.00703		0.00231	0.00693	1	09/19/2024 02:32	WG2364685
1-Methylnaphthalene	U		0.00518	0.0231	1	09/19/2024 02:32	WG2364685
2-Methylnaphthalene	U		0.00493	0.0231	1	09/19/2024 02:32	WG2364685
2-Chloronaphthalene	U		0.00538	0.0231	1	09/19/2024 02:32	WG2364685
(S) p-Terphenyl-d14	83.4			23.0-120		09/19/2024 02:32	WG2364685
(S) Nitrobenzene-d5	96.9			14.0-149		09/19/2024 02:32	WG2364685
(S) 2-Fluorobiphenyl	74.2			34.0-125		09/19/2024 02:32	WG2364685

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.7		1	09/17/2024 16:08	WG2364136

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0208	0.0461	1	09/18/2024 20:36	WG2364716

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.52		0.240	0.577	1	09/18/2024 20:49	WG2364766

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0483	0.0661	1	09/18/2024 08:55	WG2364452
Acrylonitrile	U		0.00478	0.0165	1	09/18/2024 08:55	WG2364452
Benzene	U		0.000618	0.00132	1	09/18/2024 08:55	WG2364452
Bromobenzene	U		0.00119	0.0165	1	09/18/2024 08:55	WG2364452
Bromodichloromethane	U		0.000959	0.00331	1	09/18/2024 08:55	WG2364452
Bromoform	U		0.00155	0.0331	1	09/18/2024 08:55	WG2364452
Bromomethane	U		0.00261	0.0165	1	09/18/2024 08:55	WG2364452
n-Butylbenzene	U		0.00694	0.0165	1	09/18/2024 08:55	WG2364452
sec-Butylbenzene	U		0.00381	0.0165	1	09/18/2024 08:55	WG2364452
tert-Butylbenzene	U		0.00258	0.00661	1	09/18/2024 08:55	WG2364452
Carbon tetrachloride	U	J4	0.00119	0.00661	1	09/18/2024 08:55	WG2364452
Chlorobenzene	U		0.000278	0.00331	1	09/18/2024 08:55	WG2364452
Chlorodibromomethane	U		0.000810	0.00331	1	09/18/2024 08:55	WG2364452
Chloroethane	U		0.00225	0.00661	1	09/18/2024 08:55	WG2364452
Chloroform	U		0.00136	0.00331	1	09/18/2024 08:55	WG2364452
Chloromethane	U		0.00575	0.0165	1	09/18/2024 08:55	WG2364452
2-Chlorotoluene	U		0.00114	0.00331	1	09/18/2024 08:55	WG2364452
4-Chlorotoluene	U		0.000595	0.00661	1	09/18/2024 08:55	WG2364452
1,2-Dibromo-3-Chloropropane	U		0.00516	0.0331	1	09/18/2024 08:55	WG2364452
1,2-Dibromoethane	U		0.000857	0.00331	1	09/18/2024 08:55	WG2364452
Dibromomethane	U		0.000992	0.00661	1	09/18/2024 08:55	WG2364452
1,2-Dichlorobenzene	U		0.000562	0.00661	1	09/18/2024 08:55	WG2364452
1,3-Dichlorobenzene	U		0.000794	0.00661	1	09/18/2024 08:55	WG2364452
1,4-Dichlorobenzene	U		0.000926	0.00661	1	09/18/2024 08:55	WG2364452
Dichlorodifluoromethane	U		0.00213	0.00661	1	09/18/2024 08:55	WG2364452
1,1-Dichloroethane	U		0.000649	0.00331	1	09/18/2024 08:55	WG2364452
1,2-Dichloroethane	U		0.000858	0.00331	1	09/18/2024 08:55	WG2364452
1,1-Dichloroethene	U		0.000802	0.00331	1	09/18/2024 08:55	WG2364452
cis-1,2-Dichloroethene	U		0.000971	0.00331	1	09/18/2024 08:55	WG2364452
trans-1,2-Dichloroethene	U		0.00138	0.00661	1	09/18/2024 08:55	WG2364452
1,2-Dichloropropane	U		0.00188	0.00661	1	09/18/2024 08:55	WG2364452
1,1-Dichloropropene	U		0.00107	0.00331	1	09/18/2024 08:55	WG2364452
1,3-Dichloropropane	U		0.000663	0.00661	1	09/18/2024 08:55	WG2364452
cis-1,3-Dichloropropene	U		0.00100	0.00331	1	09/18/2024 08:55	WG2364452
trans-1,3-Dichloropropene	U		0.00151	0.00661	1	09/18/2024 08:55	WG2364452
2,2-Dichloropropane	U		0.00183	0.00331	1	09/18/2024 08:55	WG2364452
Di-isopropyl ether	U		0.000542	0.00132	1	09/18/2024 08:55	WG2364452
Ethylbenzene	U		0.000975	0.00331	1	09/18/2024 08:55	WG2364452
Hexachloro-1,3-butadiene	U		0.00794	0.0331	1	09/18/2024 08:55	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000562	0.00331	1	09/18/2024 08:55	WG2364452
p-Isopropyltoluene	U		0.00337	0.00661	1	09/18/2024 08:55	WG2364452
2-Butanone (MEK)	U		0.0840	0.132	1	09/18/2024 08:55	WG2364452
Methylene Chloride	U		0.00878	0.0331	1	09/18/2024 08:55	WG2364452
4-Methyl-2-pentanone (MIBK)	U		0.00302	0.0331	1	09/18/2024 08:55	WG2364452
Methyl tert-butyl ether	U		0.000463	0.00132	1	09/18/2024 08:55	WG2364452
Naphthalene	U		0.00646	0.0165	1	09/18/2024 08:55	WG2364452
n-Propylbenzene	U		0.00126	0.00661	1	09/18/2024 08:55	WG2364452
Styrene	U		0.000303	0.0165	1	09/18/2024 08:55	WG2364452
1,1,1,2-Tetrachloroethane	U		0.00125	0.00331	1	09/18/2024 08:55	WG2364452
1,1,2,2-Tetrachloroethane	U		0.000919	0.00331	1	09/18/2024 08:55	WG2364452
1,1,2-Trichlorotrifluoroethane	U		0.000997	0.00331	1	09/18/2024 08:55	WG2364452
Tetrachloroethene	U		0.00119	0.00331	1	09/18/2024 08:55	WG2364452
Toluene	U		0.00172	0.00661	1	09/18/2024 08:55	WG2364452
1,2,3-Trichlorobenzene	U		0.00970	0.0165	1	09/18/2024 08:55	WG2364452
1,2,4-Trichlorobenzene	U		0.00582	0.0165	1	09/18/2024 08:55	WG2364452
1,1,1-Trichloroethane	U		0.00122	0.00331	1	09/18/2024 08:55	WG2364452
1,1,2-Trichloroethane	U		0.000790	0.00331	1	09/18/2024 08:55	WG2364452
Trichloroethene	U		0.000773	0.00132	1	09/18/2024 08:55	WG2364452
Trichlorofluoromethane	U		0.00109	0.00331	1	09/18/2024 08:55	WG2364452
1,2,3-Trichloropropane	U		0.00214	0.0165	1	09/18/2024 08:55	WG2364452
1,2,4-Trimethylbenzene	U		0.00209	0.00661	1	09/18/2024 08:55	WG2364452
1,2,3-Trimethylbenzene	U		0.00209	0.00661	1	09/18/2024 08:55	WG2364452
1,3,5-Trimethylbenzene	U		0.00265	0.00661	1	09/18/2024 08:55	WG2364452
Vinyl chloride	U		0.00153	0.00331	1	09/18/2024 08:55	WG2364452
Xylenes, Total	U		0.00116	0.00860	1	09/18/2024 08:55	WG2364452
(S) Toluene-d8	103			75.0-131		09/18/2024 08:55	WG2364452
(S) 4-Bromofluorobenzene	95.1			67.0-138		09/18/2024 08:55	WG2364452
(S) 1,2-Dichloroethane-d4	95.2			70.0-130		09/18/2024 08:55	WG2364452

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1.91	U	1.53	4.61	1	09/19/2024 14:20	WG2365098
Residual Range Organics (RRO)	5.01	U	3.84	11.5	1	09/19/2024 14:20	WG2365098
(S) o-Terphenyl	35.5			18.0-148		09/19/2024 14:20	WG2365098

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		0.0136	0.0392	1	09/19/2024 04:10	WG2364691
PCB 1221	U		0.0136	0.0392	1	09/19/2024 04:10	WG2364691
PCB 1232	U		0.0136	0.0392	1	09/19/2024 04:10	WG2364691
PCB 1242	U		0.0136	0.0392	1	09/19/2024 04:10	WG2364691
PCB 1248	U		0.00851	0.0196	1	09/19/2024 04:10	WG2364691
PCB 1254	U		0.00851	0.0196	1	09/19/2024 04:10	WG2364691
PCB 1260	U		0.00851	0.0196	1	09/19/2024 04:10	WG2364691
(S) Decachlorobiphenyl	84.0			10.0-135		09/19/2024 04:10	WG2364691
(S) Tetrachloro-m-xylene	82.8			10.0-139		09/19/2024 04:10	WG2364691

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00265	0.00692	1	09/19/2024 00:47	WG2364685
Acenaphthene	U		0.00241	0.00692	1	09/19/2024 00:47	WG2364685
Acenaphthylene	U		0.00249	0.00692	1	09/19/2024 00:47	WG2364685
Benzo(a)anthracene	U		0.00200	0.00692	1	09/19/2024 00:47	WG2364685
Benzo(a)pyrene	U		0.00206	0.00692	1	09/19/2024 00:47	WG2364685
Benzo(b)fluoranthene	U		0.00176	0.00692	1	09/19/2024 00:47	WG2364685
Benzo(g,h,i)perylene	U		0.00204	0.00692	1	09/19/2024 00:47	WG2364685
Benzo(k)fluoranthene	U		0.00248	0.00692	1	09/19/2024 00:47	WG2364685
Chrysene	U		0.00268	0.00692	1	09/19/2024 00:47	WG2364685
Dibenz(a,h)anthracene	U		0.00198	0.00692	1	09/19/2024 00:47	WG2364685
Fluoranthene	U		0.00262	0.00692	1	09/19/2024 00:47	WG2364685
Fluorene	U		0.00236	0.00692	1	09/19/2024 00:47	WG2364685
Indeno(1,2,3-cd)pyrene	U		0.00209	0.00692	1	09/19/2024 00:47	WG2364685
Naphthalene	U		0.00471	0.0231	1	09/19/2024 00:47	WG2364685
Phenanthrene	U		0.00266	0.00692	1	09/19/2024 00:47	WG2364685
Pyrene	U		0.00231	0.00692	1	09/19/2024 00:47	WG2364685
1-Methylnaphthalene	U		0.00518	0.0231	1	09/19/2024 00:47	WG2364685
2-Methylnaphthalene	U		0.00492	0.0231	1	09/19/2024 00:47	WG2364685
2-Chloronaphthalene	U		0.00537	0.0231	1	09/19/2024 00:47	WG2364685
(S) p-Terphenyl-d14	83.6			23.0-120		09/19/2024 00:47	WG2364685
(S) Nitrobenzene-d5	86.3			14.0-149		09/19/2024 00:47	WG2364685
(S) 2-Fluorobiphenyl	67.5			34.0-125		09/19/2024 00:47	WG2364685

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.7		1	09/17/2024 16:08	WG2364136

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0490	1	09/18/2024 20:39	WG2364716

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	20.3		0.255	0.612	1	09/18/2024 21:13	WG2364766

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0544	0.0745	1	09/18/2024 09:14	WG2364452
Acrylonitrile	U		0.00538	0.0186	1	09/18/2024 09:14	WG2364452
Benzene	U		0.000696	0.00149	1	09/18/2024 09:14	WG2364452
Bromobenzene	U		0.00134	0.0186	1	09/18/2024 09:14	WG2364452
Bromodichloromethane	U		0.00108	0.00373	1	09/18/2024 09:14	WG2364452
Bromoform	U		0.00174	0.0373	1	09/18/2024 09:14	WG2364452
Bromomethane	U		0.00294	0.0186	1	09/18/2024 09:14	WG2364452
n-Butylbenzene	U		0.00783	0.0186	1	09/18/2024 09:14	WG2364452
sec-Butylbenzene	U		0.00429	0.0186	1	09/18/2024 09:14	WG2364452
tert-Butylbenzene	U		0.00291	0.00745	1	09/18/2024 09:14	WG2364452
Carbon tetrachloride	U	J4	0.00134	0.00745	1	09/18/2024 09:14	WG2364452
Chlorobenzene	U		0.000313	0.00373	1	09/18/2024 09:14	WG2364452
Chlorodibromomethane	U		0.000912	0.00373	1	09/18/2024 09:14	WG2364452
Chloroethane	U		0.00253	0.00745	1	09/18/2024 09:14	WG2364452
Chloroform	U		0.00154	0.00373	1	09/18/2024 09:14	WG2364452
Chloromethane	U		0.00648	0.0186	1	09/18/2024 09:14	WG2364452
2-Chlorotoluene	U		0.00129	0.00373	1	09/18/2024 09:14	WG2364452
4-Chlorotoluene	U		0.000671	0.00745	1	09/18/2024 09:14	WG2364452
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0373	1	09/18/2024 09:14	WG2364452
1,2-Dibromoethane	U		0.000966	0.00373	1	09/18/2024 09:14	WG2364452
Dibromomethane	U		0.00112	0.00745	1	09/18/2024 09:14	WG2364452
1,2-Dichlorobenzene	U		0.000634	0.00745	1	09/18/2024 09:14	WG2364452
1,3-Dichlorobenzene	U		0.000894	0.00745	1	09/18/2024 09:14	WG2364452
1,4-Dichlorobenzene	U		0.00104	0.00745	1	09/18/2024 09:14	WG2364452
Dichlorodifluoromethane	U		0.00240	0.00745	1	09/18/2024 09:14	WG2364452
1,1-Dichloroethane	U		0.000732	0.00373	1	09/18/2024 09:14	WG2364452
1,2-Dichloroethane	U		0.000967	0.00373	1	09/18/2024 09:14	WG2364452
1,1-Dichloroethene	U		0.000903	0.00373	1	09/18/2024 09:14	WG2364452
cis-1,2-Dichloroethene	U		0.00109	0.00373	1	09/18/2024 09:14	WG2364452
trans-1,2-Dichloroethene	U		0.00155	0.00745	1	09/18/2024 09:14	WG2364452
1,2-Dichloropropane	U		0.00212	0.00745	1	09/18/2024 09:14	WG2364452
1,1-Dichloropropene	U		0.00121	0.00373	1	09/18/2024 09:14	WG2364452
1,3-Dichloropropane	U		0.000747	0.00745	1	09/18/2024 09:14	WG2364452
cis-1,3-Dichloropropene	U		0.00113	0.00373	1	09/18/2024 09:14	WG2364452
trans-1,3-Dichloropropene	U		0.00170	0.00745	1	09/18/2024 09:14	WG2364452
2,2-Dichloropropane	U		0.00206	0.00373	1	09/18/2024 09:14	WG2364452
Di-isopropyl ether	U		0.000611	0.00149	1	09/18/2024 09:14	WG2364452
Ethylbenzene	U		0.00110	0.00373	1	09/18/2024 09:14	WG2364452
Hexachloro-1,3-butadiene	U		0.00894	0.0373	1	09/18/2024 09:14	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000634	0.00373	1	09/18/2024 09:14	WG2364452
p-Isopropyltoluene	U		0.00380	0.00745	1	09/18/2024 09:14	WG2364452
2-Butanone (MEK)	U		0.0947	0.149	1	09/18/2024 09:14	WG2364452
Methylene Chloride	U		0.00990	0.0373	1	09/18/2024 09:14	WG2364452
4-Methyl-2-pentanone (MIBK)	U		0.00340	0.0373	1	09/18/2024 09:14	WG2364452
Methyl tert-butyl ether	U		0.000522	0.00149	1	09/18/2024 09:14	WG2364452
Naphthalene	U		0.00727	0.0186	1	09/18/2024 09:14	WG2364452
n-Propylbenzene	U		0.00142	0.00745	1	09/18/2024 09:14	WG2364452
Styrene	U		0.000341	0.0186	1	09/18/2024 09:14	WG2364452
1,1,1,2-Tetrachloroethane	U		0.00141	0.00373	1	09/18/2024 09:14	WG2364452
1,1,2,2-Tetrachloroethane	U		0.00104	0.00373	1	09/18/2024 09:14	WG2364452
1,1,2-Trichlorotrifluoroethane	U		0.00112	0.00373	1	09/18/2024 09:14	WG2364452
Tetrachloroethene	U		0.00134	0.00373	1	09/18/2024 09:14	WG2364452
Toluene	U		0.00194	0.00745	1	09/18/2024 09:14	WG2364452
1,2,3-Trichlorobenzene	U		0.0109	0.0186	1	09/18/2024 09:14	WG2364452
1,2,4-Trichlorobenzene	U		0.00656	0.0186	1	09/18/2024 09:14	WG2364452
1,1,1-Trichloroethane	U		0.00138	0.00373	1	09/18/2024 09:14	WG2364452
1,1,2-Trichloroethane	U		0.000890	0.00373	1	09/18/2024 09:14	WG2364452
Trichloroethene	U		0.000871	0.00149	1	09/18/2024 09:14	WG2364452
Trichlorofluoromethane	U		0.00123	0.00373	1	09/18/2024 09:14	WG2364452
1,2,3-Trichloropropane	U		0.00242	0.0186	1	09/18/2024 09:14	WG2364452
1,2,4-Trimethylbenzene	U		0.00236	0.00745	1	09/18/2024 09:14	WG2364452
1,2,3-Trimethylbenzene	U		0.00236	0.00745	1	09/18/2024 09:14	WG2364452
1,3,5-Trimethylbenzene	U		0.00298	0.00745	1	09/18/2024 09:14	WG2364452
Vinyl chloride	U		0.00173	0.00373	1	09/18/2024 09:14	WG2364452
Xylenes, Total	U		0.00131	0.00969	1	09/18/2024 09:14	WG2364452
(S) Toluene-d8	103			75.0-131		09/18/2024 09:14	WG2364452
(S) 4-Bromofluorobenzene	96.4			67.0-138		09/18/2024 09:14	WG2364452
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		09/18/2024 09:14	WG2364452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	8.74		1.63	4.90	1	09/19/2024 14:33	WG2365098
Residual Range Organics (RRO)	10.2	J	4.08	12.2	1	09/19/2024 14:33	WG2365098
(S) o-Terphenyl	44.2			18.0-148		09/19/2024 14:33	WG2365098

Sample Narrative:

L1778300-04 WG2365098: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0144	0.0416	1	09/19/2024 04:18	WG2364691
PCB 1221	U		0.0144	0.0416	1	09/19/2024 04:18	WG2364691
PCB 1232	U		0.0144	0.0416	1	09/19/2024 04:18	WG2364691
PCB 1242	U		0.0144	0.0416	1	09/19/2024 04:18	WG2364691
PCB 1248	U		0.00904	0.0208	1	09/19/2024 04:18	WG2364691
PCB 1254	U		0.00904	0.0208	1	09/19/2024 04:18	WG2364691
PCB 1260	U		0.00904	0.0208	1	09/19/2024 04:18	WG2364691
(S) Decachlorobiphenyl	78.9			10.0-135		09/19/2024 04:18	WG2364691
(S) Tetrachloro-m-xylene	79.0			10.0-139		09/19/2024 04:18	WG2364691

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00282	0.00735	1	09/20/2024 04:43	WG2364835
Acenaphthene	U		0.00256	0.00735	1	09/20/2024 04:43	WG2364835
Acenaphthylene	U		0.00264	0.00735	1	09/20/2024 04:43	WG2364835
Benzo(a)anthracene	U		0.00212	0.00735	1	09/20/2024 04:43	WG2364835
Benzo(a)pyrene	U		0.00219	0.00735	1	09/20/2024 04:43	WG2364835
Benzo(b)fluoranthene	U		0.00187	0.00735	1	09/20/2024 04:43	WG2364835
Benzo(g,h,i)perylene	U		0.00217	0.00735	1	09/20/2024 04:43	WG2364835
Benzo(k)fluoranthene	U		0.00263	0.00735	1	09/20/2024 04:43	WG2364835
Chrysene	U		0.00284	0.00735	1	09/20/2024 04:43	WG2364835
Dibenz(a,h)anthracene	U		0.00211	0.00735	1	09/20/2024 04:43	WG2364835
Fluoranthene	U		0.00278	0.00735	1	09/20/2024 04:43	WG2364835
Fluorene	U		0.00251	0.00735	1	09/20/2024 04:43	WG2364835
Indeno(1,2,3-cd)pyrene	U		0.00222	0.00735	1	09/20/2024 04:43	WG2364835
Naphthalene	U		0.00500	0.0245	1	09/20/2024 04:43	WG2364835
Phenanthrene	U		0.00283	0.00735	1	09/20/2024 04:43	WG2364835
Pyrene	U		0.00245	0.00735	1	09/20/2024 04:43	WG2364835
1-Methylnaphthalene	U		0.00550	0.0245	1	09/20/2024 04:43	WG2364835
2-Methylnaphthalene	U		0.00523	0.0245	1	09/20/2024 04:43	WG2364835
2-Chloronaphthalene	U		0.00571	0.0245	1	09/20/2024 04:43	WG2364835
(S) p-Terphenyl-d14	76.4			23.0-120		09/20/2024 04:43	WG2364835
(S) Nitrobenzene-d5	65.8			14.0-149		09/20/2024 04:43	WG2364835
(S) 2-Fluorobiphenyl	82.2			34.0-125		09/20/2024 04:43	WG2364835

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4121118-1 09/17/24 16:08

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

L1778261-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1778261-15 09/17/24 16:08 • (DUP) R4121118-3 09/17/24 16:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	96.7	97.0	1	0.248		10

Laboratory Control Sample (LCS)

(LCS) R4121118-2 09/17/24 16:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4121472-1 09/18/24 19:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4121472-2 09/18/24 19:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.454	90.8	80.0-120	

L1778252-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778252-02 09/18/24 19:38 • (MS) R4121472-4 09/18/24 19:48 • (MSD) R4121472-5 09/18/24 19:51

	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
Analyte	mg/kg				%	%		%			%	%
Mercury	0.501	U	0.434	0.369	86.6	73.7	1	75.0-125		J6	16.1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4121514-1 09/18/24 20:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4121514-2 09/18/24 20:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	91.8	91.8	80.0-120	

L1778300-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778300-03 09/18/24 20:49 • (MS) R4121514-5 09/18/24 20:55 • (MSD) R4121514-6 09/18/24 20:57

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 %
Lead	115	9.52	117	117	93.2	93.6	1	75.0-125			0.359	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4121744-3 09/18/24 07:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4121744-3 09/18/24 07:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	93.6			67.0-138
(S) 1,2-Dichloroethane-d4	96.3			70.0-130

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

(LCS) R4121744-1 09/18/24 05:33 • (LCSD) R4121744-2 09/18/24 05:52

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	0.625	0.852	0.915	136	146	10.0-160			7.13	31
Acrylonitrile	0.625	0.706	0.814	113	130	45.0-153			14.2	22
Benzene	0.125	0.133	0.134	106	107	70.0-123			0.749	20
Bromobenzene	0.125	0.117	0.118	93.6	94.4	73.0-121			0.851	20
Bromodichloromethane	0.125	0.126	0.132	101	106	73.0-121			4.65	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4121744-1 09/18/24 05:33 • (LCSD) R4121744-2 09/18/24 05:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.126	0.128	101	102	64.0-132			1.57	20
Bromomethane	0.125	0.141	0.137	113	110	56.0-147			2.88	20
n-Butylbenzene	0.125	0.124	0.125	99.2	100	68.0-135			0.803	20
sec-Butylbenzene	0.125	0.118	0.122	94.4	97.6	74.0-130			3.33	20
tert-Butylbenzene	0.125	0.121	0.123	96.8	98.4	75.0-127			1.64	20
Carbon tetrachloride	0.125	0.161	0.162	129	130	66.0-128	J4	J4	0.619	20
Chlorobenzene	0.125	0.125	0.127	100	102	76.0-128			1.59	20
Chlorodibromomethane	0.125	0.126	0.130	101	104	74.0-127			3.12	20
Chloroethane	0.125	0.132	0.136	106	109	61.0-134			2.99	20
Chloroform	0.125	0.134	0.136	107	109	72.0-123			1.48	20
Chloromethane	0.125	0.112	0.117	89.6	93.6	51.0-138			4.37	20
2-Chlorotoluene	0.125	0.123	0.122	98.4	97.6	75.0-124			0.816	20
4-Chlorotoluene	0.125	0.113	0.114	90.4	91.2	75.0-124			0.881	20
1,2-Dibromo-3-Chloropropane	0.125	0.119	0.127	95.2	102	59.0-130			6.50	20
1,2-Dibromoethane	0.125	0.124	0.124	99.2	99.2	74.0-128			0.000	20
Dibromomethane	0.125	0.136	0.139	109	111	75.0-122			2.18	20
1,2-Dichlorobenzene	0.125	0.121	0.123	96.8	98.4	76.0-124			1.64	20
1,3-Dichlorobenzene	0.125	0.118	0.123	94.4	98.4	76.0-125			4.15	20
1,4-Dichlorobenzene	0.125	0.118	0.121	94.4	96.8	77.0-121			2.51	20
Dichlorodifluoromethane	0.125	0.180	0.173	144	138	43.0-156			3.97	20
1,1-Dichloroethane	0.125	0.134	0.137	107	110	70.0-127			2.21	20
1,2-Dichloroethane	0.125	0.131	0.137	105	110	65.0-131			4.48	20
1,1-Dichloroethene	0.125	0.143	0.143	114	114	65.0-131			0.000	20
cis-1,2-Dichloroethene	0.125	0.133	0.138	106	110	73.0-125			3.69	20
trans-1,2-Dichloroethene	0.125	0.135	0.134	108	107	71.0-125			0.743	20
1,2-Dichloropropane	0.125	0.126	0.127	101	102	74.0-125			0.791	20
1,1-Dichloropropene	0.125	0.148	0.148	118	118	73.0-125			0.000	20
1,3-Dichloropropane	0.125	0.122	0.121	97.6	96.8	80.0-125			0.823	20
cis-1,3-Dichloropropene	0.125	0.131	0.133	105	106	76.0-127			1.52	20
trans-1,3-Dichloropropene	0.125	0.126	0.126	101	101	73.0-127			0.000	20
2,2-Dichloropropane	0.125	0.156	0.155	125	124	59.0-135			0.643	20
Di-isopropyl ether	0.125	0.121	0.123	96.8	98.4	60.0-136			1.64	20
Ethylbenzene	0.125	0.134	0.130	107	104	74.0-126			3.03	20
Hexachloro-1,3-butadiene	0.125	0.122	0.127	97.6	102	57.0-150			4.02	20
Isopropylbenzene	0.125	0.130	0.127	104	102	72.0-127			2.33	20
p-Isopropyltoluene	0.125	0.118	0.120	94.4	96.0	72.0-133			1.68	20
2-Butanone (MEK)	0.625	0.641	0.659	103	105	30.0-160			2.77	24
Methylene Chloride	0.125	0.137	0.141	110	113	68.0-123			2.88	20
4-Methyl-2-pentanone (MIBK)	0.625	0.658	0.656	105	105	56.0-143			0.304	20
Methyl tert-butyl ether	0.125	0.135	0.137	108	110	66.0-132			1.47	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4121744-1 09/18/24 05:33 • (LCSD) R4121744-2 09/18/24 05:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.102	0.106	81.6	84.8	59.0-130			3.85	20
n-Propylbenzene	0.125	0.129	0.131	103	105	74.0-126			1.54	20
Styrene	0.125	0.123	0.125	98.4	100	72.0-127			1.61	20
1,1,1,2-Tetrachloroethane	0.125	0.135	0.135	108	108	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.113	0.109	90.4	87.2	68.0-128			3.60	20
1,1,2-Trichlorotrifluoroethane	0.125	0.142	0.139	114	111	61.0-139			2.14	20
Tetrachloroethene	0.125	0.137	0.141	110	113	70.0-136			2.88	20
Toluene	0.125	0.132	0.130	106	104	75.0-121			1.53	20
1,2,3-Trichlorobenzene	0.125	0.112	0.118	89.6	94.4	59.0-139			5.22	20
1,2,4-Trichlorobenzene	0.125	0.118	0.122	94.4	97.6	62.0-137			3.33	20
1,1,1-Trichloroethane	0.125	0.152	0.150	122	120	69.0-126			1.32	20
1,1,2-Trichloroethane	0.125	0.121	0.124	96.8	99.2	78.0-123			2.45	20
Trichloroethene	0.125	0.152	0.156	122	125	76.0-126			2.60	20
Trichlorofluoromethane	0.125	0.137	0.138	110	110	61.0-142			0.727	20
1,2,3-Trichloropropane	0.125	0.127	0.126	102	101	67.0-129			0.791	20
1,2,4-Trimethylbenzene	0.125	0.113	0.118	90.4	94.4	70.0-126			4.33	20
1,2,3-Trimethylbenzene	0.125	0.115	0.115	92.0	92.0	74.0-124			0.000	20
1,3,5-Trimethylbenzene	0.125	0.116	0.119	92.8	95.2	73.0-127			2.55	20
Vinyl chloride	0.125	0.144	0.145	115	116	63.0-134			0.692	20
Xylenes, Total	0.375	0.386	0.390	103	104	72.0-127			1.03	20
(S) Toluene-d8				102	101	75.0-131				
(S) 4-Bromofluorobenzene				99.8	100	67.0-138				
(S) 1,2-Dichloroethane-d4				103	103	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122005-2 09/19/24 13:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	51.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4122005-1 09/19/24 13:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	28.5	57.0	50.0-150	
(S) o-Terphenyl			48.6	18.0-148	

L1778300-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778300-02 09/19/24 13:53 • (MS) R4122005-3 09/19/24 14:06 • (MSD) R4122005-4 09/19/24 14:20

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 %
Diesel Range Organics (DRO)	55.2	13.2	46.3	54.5	60.0	74.6	1	50.0-150			16.3	20
(S) o-Terphenyl					34.0	38.0		18.0-148				

Sample Narrative:

OS: Sample resembles laboratory standard for Hydraulic Oil.

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4121990-1 09/19/24 02:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	118			10.0-135
(S) Tetrachloro-m-xylene	101			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4121990-2 09/19/24 02:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.163	97.6	36.0-141	
PCB 1260	0.167	0.178	107	37.0-145	
(S) Decachlorobiphenyl			105	10.0-135	
(S) Tetrachloro-m-xylene			93.7	10.0-139	

L1778265-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778265-03 09/19/24 03:08 • (MS) R4121990-3 09/19/24 03:16 • (MSD) R4121990-4 09/19/24 03:25

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 %
PCB 1016	0.223	U	0.902	0.758	404	340	1	10.0-160	J5 P	J5 P	17.3	37
PCB 1260	0.223	U	0.152	0.159	68.1	71.2	1	10.0-160			4.41	38
(S) Decachlorobiphenyl					67.2	70.8		10.0-135				
(S) Tetrachloro-m-xylene					54.4	56.7		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) R4121699-2 09/18/24 20:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	108			23.0-120
(S) Nitrobenzene-d5	109			14.0-149
(S) 2-Fluorobiphenyl	86.9			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4121699-1 09/18/24 19:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0617	77.1	50.0-126	
Acenaphthene	0.0800	0.0577	72.1	50.0-120	
Acenaphthylene	0.0800	0.0623	77.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0606	75.8	45.0-120	
Benzo(a)pyrene	0.0800	0.0693	86.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0648	81.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0664	83.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0630	78.8	49.0-125	
Chrysene	0.0800	0.0685	85.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0701	87.6	47.0-125	
Fluoranthene	0.0800	0.0681	85.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4121699-1 09/18/24 19:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0632	79.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0659	82.4	46.0-125	
Naphthalene	0.0800	0.0655	81.9	50.0-120	
Phenanthrene	0.0800	0.0600	75.0	47.0-120	
Pyrene	0.0800	0.0662	82.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0727	90.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0675	84.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0555	69.4	50.0-120	
(S) p-Terphenyl-d14			107	23.0-120	
(S) Nitrobenzene-d5			119	14.0-149	
(S) 2-Fluorobiphenyl			94.2	34.0-125	

L1778261-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778261-01 09/18/24 20:58 • (MS) R4121699-3 09/18/24 21:15 • (MSD) R4121699-4 09/18/24 21:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0821	U	0.0572	0.0591	69.6	72.0	1	10.0-145			3.35	30
Acenaphthene	0.0821	U	0.0535	0.0569	65.1	69.3	1	14.0-127			6.14	27
Acenaphthylene	0.0821	U	0.0592	0.0615	72.1	74.9	1	21.0-124			3.74	25
Benzo(a)anthracene	0.0821	U	0.0585	0.0596	71.3	72.6	1	10.0-139			1.91	30
Benzo(a)pyrene	0.0821	U	0.0613	0.0635	74.6	77.4	1	10.0-141			3.62	31
Benzo(b)fluoranthene	0.0821	U	0.0602	0.0629	73.4	76.6	1	10.0-140			4.33	36
Benzo(g,h,i)perylene	0.0821	U	0.0596	0.0625	72.6	76.1	1	10.0-140			4.71	33
Benzo(k)fluoranthene	0.0821	U	0.0571	0.0596	69.5	72.6	1	10.0-137			4.40	31
Chrysene	0.0821	U	0.0632	0.0660	77.0	80.4	1	10.0-145			4.29	30
Dibenz(a,h)anthracene	0.0821	U	0.0628	0.0652	76.5	79.4	1	10.0-132			3.69	31
Fluoranthene	0.0821	U	0.0628	0.0660	76.5	80.4	1	10.0-153			4.94	33
Fluorene	0.0821	U	0.0600	0.0629	73.1	76.6	1	11.0-130			4.67	29
Indeno(1,2,3-cd)pyrene	0.0821	U	0.0594	0.0620	72.4	75.5	1	10.0-137			4.23	32
Naphthalene	0.0821	U	0.0628	0.0629	76.5	76.6	1	10.0-135			0.163	27
Phenanthrene	0.0821	U	0.0580	0.0593	70.6	72.3	1	10.0-144			2.27	31
Pyrene	0.0821	U	0.0628	0.0655	76.5	79.8	1	10.0-148			4.16	35
1-Methylnaphthalene	0.0821	U	0.0692	0.0711	84.3	86.6	1	10.0-142			2.78	28
2-Methylnaphthalene	0.0821	U	0.0639	0.0652	77.9	79.4	1	10.0-137			1.91	28
2-Chloronaphthalene	0.0821	U	0.0516	0.0540	62.9	65.8	1	29.0-120			4.47	24
(S) p-Terphenyl-d14					92.8	99.5		23.0-120				
(S) Nitrobenzene-d5					105	109		14.0-149				
(S) 2-Fluorobiphenyl					81.9	88.0		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122412-2 09/20/24 00:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	84.1			23.0-120
(S) Nitrobenzene-d5	59.4			14.0-149
(S) 2-Fluorobiphenyl	83.6			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4122412-1 09/19/24 23:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0522	65.3	50.0-126	
Acenaphthene	0.0800	0.0524	65.5	50.0-120	
Acenaphthylene	0.0800	0.0529	66.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0521	65.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0476	59.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0497	62.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0522	65.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0477	59.6	49.0-125	
Chrysene	0.0800	0.0550	68.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0544	68.0	47.0-125	
Fluoranthene	0.0800	0.0587	73.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4122412-1 09/19/24 23:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0575	71.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0499	62.4	46.0-125	
Naphthalene	0.0800	0.0525	65.6	50.0-120	
Phenanthrene	0.0800	0.0538	67.3	47.0-120	
Pyrene	0.0800	0.0471	58.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0553	69.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0527	65.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0575	71.9	50.0-120	
(S) p-Terphenyl-d14			84.8	23.0-120	
(S) Nitrobenzene-d5			64.4	14.0-149	
(S) 2-Fluorobiphenyl			84.5	34.0-125	

L1777740-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1777740-02 09/20/24 05:54 • (MS) R4122412-3 09/20/24 06:11 • (MSD) R4122412-4 09/20/24 06:29

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 %
Anthracene	0.0886	0.00382	0.0611	0.0614	64.7	64.7	1	10.0-145			0.556	30
Acenaphthene	0.0886	0.00585	0.0616	0.0629	62.9	64.1	1	14.0-127			2.19	27
Acenaphthylene	0.0886	0.00248	0.0593	0.0608	64.1	65.5	1	21.0-124			2.46	25
Benzo(a)anthracene	0.0886	0.0143	0.0680	0.0720	60.6	64.8	1	10.0-139			5.68	30
Benzo(a)pyrene	0.0886	0.0157	0.0642	0.0683	54.7	59.1	1	10.0-141			6.17	31
Benzo(b)fluoranthene	0.0886	0.0182	0.0643	0.0679	52.1	55.9	1	10.0-140			5.50	36
Benzo(g,h,i)perylene	0.0886	0.0128	0.0639	0.0656	57.7	59.3	1	10.0-140			2.63	33
Benzo(k)fluoranthene	0.0886	0.00717	0.0566	0.0592	55.8	58.4	1	10.0-137			4.51	31
Chrysene	0.0886	0.0183	0.0728	0.0772	61.5	66.2	1	10.0-145			5.90	30
Dibenz(a,h)anthracene	0.0886	0.00293	0.0549	0.0588	58.6	62.8	1	10.0-132			6.99	31
Fluoranthene	0.0886	0.0356	0.0975	0.101	69.9	73.2	1	10.0-153			3.32	33
Fluorene	0.0886	0.00408	0.0674	0.0696	71.4	73.6	1	11.0-130			3.32	29
Indeno(1,2,3-cd)pyrene	0.0886	0.0113	0.0613	0.0650	56.5	60.3	1	10.0-137			5.76	32
Naphthalene	0.0886	U	0.0584	0.0607	65.9	68.1	1	10.0-135			3.82	27
Phenanthrene	0.0886	0.0210	0.0751	0.0798	61.0	66.1	1	10.0-144			6.16	31
Pyrene	0.0886	0.0310	0.0760	0.0795	50.8	54.5	1	10.0-148			4.53	35
1-Methylnaphthalene	0.0886	U	0.0604	0.0628	68.2	70.5	1	10.0-142			3.87	28
2-Methylnaphthalene	0.0886	U	0.0580	0.0591	65.5	66.3	1	10.0-137			1.75	28
2-Chloronaphthalene	0.0886	U	0.0616	0.0639	69.5	71.8	1	29.0-120			3.80	24
(S) p-Terphenyl-d14					82.0	84.5		23.0-120				
(S) Nitrobenzene-d5					64.8	68.7		14.0-149				
(S) 2-Fluorobiphenyl					87.5	92.2		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

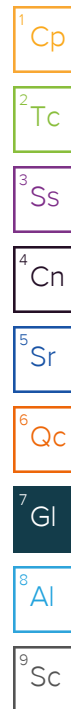
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

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.



[illegible]

Earth Engineers - Camas, WA

Sample Delivery Group: L1779358
Samples Received: 09/19/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



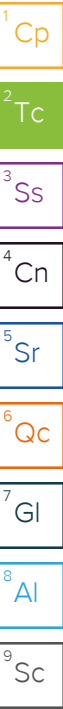
Erica McNeese
Project Manager

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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
B_F_B_C_7-8 @ 13 L1779358-01	5
B_F_A_B_7-8 @ 13 L1779358-02	8
B_F_A_20-A_6.5-7.5 @ 13 L1779358-03	11
B_F_A_15-A_6-7 @ 13 L1779358-04	14
Qc: Quality Control Summary	17
Total Solids by Method 2540 G-2011	17
Mercury by Method 7471B	18
Metals (ICP) by Method 6010D	19
Volatile Organic Compounds (GC/MS) by Method 8260D	20
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	24
Polychlorinated Biphenyls (GC) by Method 8082 A	25
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	26
Gl: Glossary of Terms	28
Al: Accreditations & Locations	29
Sc: Sample Chain of Custody	30



SAMPLE SUMMARY

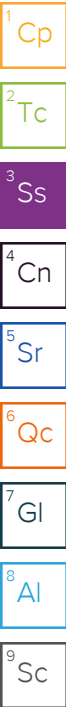
B_F_B_C_7-8 @ 13 L1779358-01 Solid

Collected by
Matt Enos

Collected date/time
09/18/24 12:00

Received date/time
09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2366424	1	09/20/24 14:09	09/21/24 10:15	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366373	1	09/20/24 11:45	09/20/24 15:37	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2366558	1	09/18/24 12:00	09/20/24 16:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2368270	1	09/24/24 08:16	09/24/24 21:52	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2366683	1	09/22/24 14:50	09/22/24 18:27	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2366682	1	09/21/24 07:04	09/21/24 16:50	JCH	Mt. Juliet, TN



B_F_A_B_7-8 @ 13 L1779358-02 Solid

Collected by
Matt Enos

Collected date/time
09/18/24 12:30

Received date/time
09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2366424	1	09/20/24 14:09	09/21/24 10:18	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366373	1	09/20/24 11:45	09/20/24 15:38	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2366558	1	09/18/24 12:30	09/20/24 16:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2368270	2.82	09/24/24 08:16	09/24/24 21:25	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2366683	1	09/22/24 14:50	09/22/24 18:37	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2366682	1	09/21/24 07:04	09/21/24 17:08	JCH	Mt. Juliet, TN

B_F_A_20-A_6.5-7.5 @ 13 L1779358-03 Solid

Collected by
Matt Enos

Collected date/time
09/18/24 13:00

Received date/time
09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2366424	1	09/20/24 14:09	09/21/24 10:25	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366373	1	09/20/24 11:45	09/20/24 15:40	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2366558	1	09/18/24 13:00	09/20/24 17:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2368270	2.81	09/24/24 08:16	09/24/24 21:38	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2366683	1	09/22/24 14:50	09/22/24 18:48	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2366682	1	09/21/24 07:04	09/21/24 17:25	JCH	Mt. Juliet, TN

B_F_A_15-A_6-7 @ 13 L1779358-04 Solid

Collected by
Matt Enos

Collected date/time
09/18/24 13:20

Received date/time
09/19/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2366319	1	09/20/24 09:29	09/20/24 09:46	MT	Mt. Juliet, TN
Mercury by Method 7471B	WG2366424	1	09/20/24 14:09	09/21/24 10:28	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2366373	1	09/20/24 11:45	09/20/24 15:45	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2366558	1.07	09/18/24 13:20	09/20/24 17:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2368270	1	09/24/24 08:16	09/24/24 21:52	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2366683	1	09/22/24 14:50	09/22/24 18:58	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2366682	1	09/21/24 07:04	09/21/24 17:43	JCH	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.



Erica McNeese
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.5		1	09/20/2024 09:46	WG2366319

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0203	0.0452	1	09/21/2024 10:15	WG2366424

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	5.56		0.235	0.565	1	09/20/2024 15:37	WG2366373

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0462	0.0633	1	09/20/2024 16:36	WG2366558
Acrylonitrile	U		0.00457	0.0158	1	09/20/2024 16:36	WG2366558
Benzene	U		0.000591	0.00127	1	09/20/2024 16:36	WG2366558
Bromobenzene	U		0.00114	0.0158	1	09/20/2024 16:36	WG2366558
Bromodichloromethane	U		0.000918	0.00316	1	09/20/2024 16:36	WG2366558
Bromoform	U		0.00148	0.0316	1	09/20/2024 16:36	WG2366558
Bromomethane	U		0.00249	0.0158	1	09/20/2024 16:36	WG2366558
n-Butylbenzene	U	C3	0.00665	0.0158	1	09/20/2024 16:36	WG2366558
sec-Butylbenzene	U		0.00365	0.0158	1	09/20/2024 16:36	WG2366558
tert-Butylbenzene	U		0.00247	0.00633	1	09/20/2024 16:36	WG2366558
Carbon tetrachloride	U		0.00114	0.00633	1	09/20/2024 16:36	WG2366558
Chlorobenzene	U		0.000266	0.00316	1	09/20/2024 16:36	WG2366558
Chlorodibromomethane	U		0.000775	0.00316	1	09/20/2024 16:36	WG2366558
Chloroethane	U		0.00215	0.00633	1	09/20/2024 16:36	WG2366558
Chloroform	U		0.00130	0.00316	1	09/20/2024 16:36	WG2366558
Chloromethane	U		0.00551	0.0158	1	09/20/2024 16:36	WG2366558
2-Chlorotoluene	U		0.00110	0.00316	1	09/20/2024 16:36	WG2366558
4-Chlorotoluene	U		0.000570	0.00633	1	09/20/2024 16:36	WG2366558
1,2-Dibromo-3-Chloropropane	U		0.00494	0.0316	1	09/20/2024 16:36	WG2366558
1,2-Dibromoethane	U		0.000820	0.00316	1	09/20/2024 16:36	WG2366558
Dibromomethane	U		0.000949	0.00633	1	09/20/2024 16:36	WG2366558
1,2-Dichlorobenzene	U		0.000538	0.00633	1	09/20/2024 16:36	WG2366558
1,3-Dichlorobenzene	U		0.000760	0.00633	1	09/20/2024 16:36	WG2366558
1,4-Dichlorobenzene	U		0.000886	0.00633	1	09/20/2024 16:36	WG2366558
Dichlorodifluoromethane	U		0.00204	0.00633	1	09/20/2024 16:36	WG2366558
1,1-Dichloroethane	U		0.000622	0.00316	1	09/20/2024 16:36	WG2366558
1,2-Dichloroethane	U		0.000822	0.00316	1	09/20/2024 16:36	WG2366558
1,1-Dichloroethene	U		0.000767	0.00316	1	09/20/2024 16:36	WG2366558
cis-1,2-Dichloroethene	U		0.000929	0.00316	1	09/20/2024 16:36	WG2366558
trans-1,2-Dichloroethene	U		0.00132	0.00633	1	09/20/2024 16:36	WG2366558
1,2-Dichloropropane	U		0.00180	0.00633	1	09/20/2024 16:36	WG2366558
1,1-Dichloropropene	U		0.00102	0.00316	1	09/20/2024 16:36	WG2366558
1,3-Dichloropropane	U		0.000634	0.00633	1	09/20/2024 16:36	WG2366558
cis-1,3-Dichloropropene	U		0.000958	0.00316	1	09/20/2024 16:36	WG2366558
trans-1,3-Dichloropropene	U		0.00144	0.00633	1	09/20/2024 16:36	WG2366558
2,2-Dichloropropane	U		0.00175	0.00316	1	09/20/2024 16:36	WG2366558
Di-isopropyl ether	U		0.000519	0.00127	1	09/20/2024 16:36	WG2366558
Ethylbenzene	U		0.000933	0.00316	1	09/20/2024 16:36	WG2366558
Hexachloro-1,3-butadiene	U		0.00760	0.0316	1	09/20/2024 16:36	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000538	0.00316	1	09/20/2024 16:36	WG2366558
p-Isopropyltoluene	U		0.00323	0.00633	1	09/20/2024 16:36	WG2366558
2-Butanone (MEK)	U		0.0804	0.127	1	09/20/2024 16:36	WG2366558
Methylene Chloride	0.00963	J	0.00841	0.0316	1	09/20/2024 16:36	WG2366558
4-Methyl-2-pentanone (MIBK)	U		0.00289	0.0316	1	09/20/2024 16:36	WG2366558
Methyl tert-butyl ether	U		0.000443	0.00127	1	09/20/2024 16:36	WG2366558
Naphthalene	U	C3	0.00618	0.0158	1	09/20/2024 16:36	WG2366558
n-Propylbenzene	U		0.00120	0.00633	1	09/20/2024 16:36	WG2366558
Styrene	U		0.000290	0.0158	1	09/20/2024 16:36	WG2366558
1,1,1,2-Tetrachloroethane	U		0.00120	0.00316	1	09/20/2024 16:36	WG2366558
1,1,2,2-Tetrachloroethane	U		0.000880	0.00316	1	09/20/2024 16:36	WG2366558
1,1,2-Trichlorotrifluoroethane	U	J4	0.000955	0.00316	1	09/20/2024 16:36	WG2366558
Tetrachloroethene	U		0.00113	0.00316	1	09/20/2024 16:36	WG2366558
Toluene	U		0.00165	0.00633	1	09/20/2024 16:36	WG2366558
1,2,3-Trichlorobenzene	U		0.00928	0.0158	1	09/20/2024 16:36	WG2366558
1,2,4-Trichlorobenzene	U		0.00557	0.0158	1	09/20/2024 16:36	WG2366558
1,1,1-Trichloroethane	U		0.00117	0.00316	1	09/20/2024 16:36	WG2366558
1,1,2-Trichloroethane	U		0.000756	0.00316	1	09/20/2024 16:36	WG2366558
Trichloroethene	U		0.000739	0.00127	1	09/20/2024 16:36	WG2366558
Trichlorofluoromethane	U		0.00105	0.00316	1	09/20/2024 16:36	WG2366558
1,2,3-Trichloropropane	U		0.00205	0.0158	1	09/20/2024 16:36	WG2366558
1,2,4-Trimethylbenzene	0.00449	C3 J	0.00200	0.00633	1	09/20/2024 16:36	WG2366558
1,2,3-Trimethylbenzene	U		0.00200	0.00633	1	09/20/2024 16:36	WG2366558
1,3,5-Trimethylbenzene	U		0.00253	0.00633	1	09/20/2024 16:36	WG2366558
Vinyl chloride	U		0.00147	0.00316	1	09/20/2024 16:36	WG2366558
Xylenes, Total	0.00595	J	0.00111	0.00823	1	09/20/2024 16:36	WG2366558
(S) Toluene-d8	98.4			75.0-131		09/20/2024 16:36	WG2366558
(S) 4-Bromofluorobenzene	101			67.0-138		09/20/2024 16:36	WG2366558
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		09/20/2024 16:36	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.50	4.52	1	09/24/2024 21:52	WG2368270
Residual Range Organics (RRO)	U		3.76	11.3	1	09/24/2024 21:52	WG2368270
(S) o-Terphenyl	60.7			18.0-148		09/24/2024 21:52	WG2368270

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		0.0133	0.0384	1	09/22/2024 18:27	WG2366683
PCB 1221	U		0.0133	0.0384	1	09/22/2024 18:27	WG2366683
PCB 1232	U		0.0133	0.0384	1	09/22/2024 18:27	WG2366683
PCB 1242	U		0.0133	0.0384	1	09/22/2024 18:27	WG2366683
PCB 1248	U		0.00834	0.0192	1	09/22/2024 18:27	WG2366683
PCB 1254	U		0.00834	0.0192	1	09/22/2024 18:27	WG2366683
PCB 1260	U		0.00834	0.0192	1	09/22/2024 18:27	WG2366683
(S) Decachlorobiphenyl	88.3			10.0-135		09/22/2024 18:27	WG2366683
(S) Tetrachloro-m-xylene	94.5			10.0-139		09/22/2024 18:27	WG2366683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00260	0.00678	1	09/21/2024 16:50	WG2366682
Acenaphthene	U		0.00236	0.00678	1	09/21/2024 16:50	WG2366682
Acenaphthylene	U		0.00244	0.00678	1	09/21/2024 16:50	WG2366682
Benzo(a)anthracene	U		0.00196	0.00678	1	09/21/2024 16:50	WG2366682
Benzo(a)pyrene	U		0.00202	0.00678	1	09/21/2024 16:50	WG2366682
Benzo(b)fluoranthene	U		0.00173	0.00678	1	09/21/2024 16:50	WG2366682
Benzo(g,h,i)perylene	U		0.00200	0.00678	1	09/21/2024 16:50	WG2366682
Benzo(k)fluoranthene	U		0.00243	0.00678	1	09/21/2024 16:50	WG2366682
Chrysene	U		0.00262	0.00678	1	09/21/2024 16:50	WG2366682
Dibenz(a,h)anthracene	U		0.00194	0.00678	1	09/21/2024 16:50	WG2366682
Fluoranthene	U		0.00257	0.00678	1	09/21/2024 16:50	WG2366682
Fluorene	U		0.00232	0.00678	1	09/21/2024 16:50	WG2366682
Indeno(1,2,3-cd)pyrene	U		0.00205	0.00678	1	09/21/2024 16:50	WG2366682
Naphthalene	U		0.00461	0.0226	1	09/21/2024 16:50	WG2366682
Phenanthrene	U		0.00261	0.00678	1	09/21/2024 16:50	WG2366682
Pyrene	U		0.00226	0.00678	1	09/21/2024 16:50	WG2366682
1-Methylnaphthalene	U		0.00507	0.0226	1	09/21/2024 16:50	WG2366682
2-Methylnaphthalene	U		0.00483	0.0226	1	09/21/2024 16:50	WG2366682
2-Chloronaphthalene	U		0.00527	0.0226	1	09/21/2024 16:50	WG2366682
(S) p-Terphenyl-d14	73.6			23.0-120		09/21/2024 16:50	WG2366682
(S) Nitrobenzene-d5	81.0			14.0-149		09/21/2024 16:50	WG2366682
(S) 2-Fluorobiphenyl	77.0			34.0-125		09/21/2024 16:50	WG2366682

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.9		1	09/20/2024 09:46	WG2366319

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0212	0.0471	1	09/21/2024 10:18	WG2366424

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.53		0.245	0.589	1	09/20/2024 15:38	WG2366373

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0502	0.0688	1	09/20/2024 16:54	WG2366558
Acrylonitrile	U		0.00497	0.0172	1	09/20/2024 16:54	WG2366558
Benzene	U		0.000643	0.00138	1	09/20/2024 16:54	WG2366558
Bromobenzene	U		0.00124	0.0172	1	09/20/2024 16:54	WG2366558
Bromodichloromethane	U		0.000998	0.00344	1	09/20/2024 16:54	WG2366558
Bromoform	U		0.00161	0.0344	1	09/20/2024 16:54	WG2366558
Bromomethane	U		0.00271	0.0172	1	09/20/2024 16:54	WG2366558
n-Butylbenzene	U	C3	0.00722	0.0172	1	09/20/2024 16:54	WG2366558
sec-Butylbenzene	U		0.00396	0.0172	1	09/20/2024 16:54	WG2366558
tert-Butylbenzene	U		0.00268	0.00688	1	09/20/2024 16:54	WG2366558
Carbon tetrachloride	U		0.00124	0.00688	1	09/20/2024 16:54	WG2366558
Chlorobenzene	U		0.000289	0.00344	1	09/20/2024 16:54	WG2366558
Chlorodibromomethane	U		0.000842	0.00344	1	09/20/2024 16:54	WG2366558
Chloroethane	U		0.00234	0.00688	1	09/20/2024 16:54	WG2366558
Chloroform	U		0.00142	0.00344	1	09/20/2024 16:54	WG2366558
Chloromethane	U		0.00599	0.0172	1	09/20/2024 16:54	WG2366558
2-Chlorotoluene	U		0.00119	0.00344	1	09/20/2024 16:54	WG2366558
4-Chlorotoluene	U		0.000619	0.00688	1	09/20/2024 16:54	WG2366558
1,2-Dibromo-3-Chloropropane	U		0.00537	0.0344	1	09/20/2024 16:54	WG2366558
1,2-Dibromoethane	U		0.000892	0.00344	1	09/20/2024 16:54	WG2366558
Dibromomethane	U		0.00103	0.00688	1	09/20/2024 16:54	WG2366558
1,2-Dichlorobenzene	U		0.000585	0.00688	1	09/20/2024 16:54	WG2366558
1,3-Dichlorobenzene	U		0.000826	0.00688	1	09/20/2024 16:54	WG2366558
1,4-Dichlorobenzene	U		0.000963	0.00688	1	09/20/2024 16:54	WG2366558
Dichlorodifluoromethane	U		0.00222	0.00688	1	09/20/2024 16:54	WG2366558
1,1-Dichloroethane	U		0.000676	0.00344	1	09/20/2024 16:54	WG2366558
1,2-Dichloroethane	U		0.000893	0.00344	1	09/20/2024 16:54	WG2366558
1,1-Dichloroethene	U		0.000834	0.00344	1	09/20/2024 16:54	WG2366558
cis-1,2-Dichloroethene	U		0.00101	0.00344	1	09/20/2024 16:54	WG2366558
trans-1,2-Dichloroethene	U		0.00143	0.00688	1	09/20/2024 16:54	WG2366558
1,2-Dichloropropane	U		0.00195	0.00688	1	09/20/2024 16:54	WG2366558
1,1-Dichloropropene	U		0.00111	0.00344	1	09/20/2024 16:54	WG2366558
1,3-Dichloropropane	U		0.000689	0.00688	1	09/20/2024 16:54	WG2366558
cis-1,3-Dichloropropene	U		0.00104	0.00344	1	09/20/2024 16:54	WG2366558
trans-1,3-Dichloropropene	U		0.00157	0.00688	1	09/20/2024 16:54	WG2366558
2,2-Dichloropropane	U		0.00190	0.00344	1	09/20/2024 16:54	WG2366558
Di-isopropyl ether	U		0.000564	0.00138	1	09/20/2024 16:54	WG2366558
Ethylbenzene	U		0.00101	0.00344	1	09/20/2024 16:54	WG2366558
Hexachloro-1,3-butadiene	U		0.00826	0.0344	1	09/20/2024 16:54	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000585	0.00344	1	09/20/2024 16:54	WG2366558
p-Isopropyltoluene	U		0.00351	0.00688	1	09/20/2024 16:54	WG2366558
2-Butanone (MEK)	U		0.0874	0.138	1	09/20/2024 16:54	WG2366558
Methylene Chloride	U		0.00914	0.0344	1	09/20/2024 16:54	WG2366558
4-Methyl-2-pentanone (MIBK)	U		0.00314	0.0344	1	09/20/2024 16:54	WG2366558
Methyl tert-butyl ether	U		0.000482	0.00138	1	09/20/2024 16:54	WG2366558
Naphthalene	U	C3	0.00671	0.0172	1	09/20/2024 16:54	WG2366558
n-Propylbenzene	U		0.00131	0.00688	1	09/20/2024 16:54	WG2366558
Styrene	U		0.000315	0.0172	1	09/20/2024 16:54	WG2366558
1,1,1,2-Tetrachloroethane	U		0.00130	0.00344	1	09/20/2024 16:54	WG2366558
1,1,2,2-Tetrachloroethane	U		0.000956	0.00344	1	09/20/2024 16:54	WG2366558
1,1,2-Trichlorotrifluoroethane	U	J4	0.00104	0.00344	1	09/20/2024 16:54	WG2366558
Tetrachloroethene	U		0.00123	0.00344	1	09/20/2024 16:54	WG2366558
Toluene	U		0.00179	0.00688	1	09/20/2024 16:54	WG2366558
1,2,3-Trichlorobenzene	U		0.0101	0.0172	1	09/20/2024 16:54	WG2366558
1,2,4-Trichlorobenzene	U		0.00605	0.0172	1	09/20/2024 16:54	WG2366558
1,1,1-Trichloroethane	U		0.00127	0.00344	1	09/20/2024 16:54	WG2366558
1,1,2-Trichloroethane	U		0.000821	0.00344	1	09/20/2024 16:54	WG2366558
Trichloroethene	U		0.000804	0.00138	1	09/20/2024 16:54	WG2366558
Trichlorofluoromethane	U		0.00114	0.00344	1	09/20/2024 16:54	WG2366558
1,2,3-Trichloropropane	U		0.00223	0.0172	1	09/20/2024 16:54	WG2366558
1,2,4-Trimethylbenzene	U	C3	0.00217	0.00688	1	09/20/2024 16:54	WG2366558
1,2,3-Trimethylbenzene	U		0.00217	0.00688	1	09/20/2024 16:54	WG2366558
1,3,5-Trimethylbenzene	U		0.00275	0.00688	1	09/20/2024 16:54	WG2366558
Vinyl chloride	U		0.00160	0.00344	1	09/20/2024 16:54	WG2366558
Xylenes, Total	U		0.00121	0.00894	1	09/20/2024 16:54	WG2366558
(S) Toluene-d8	101			75.0-131		09/20/2024 16:54	WG2366558
(S) 4-Bromofluorobenzene	101			67.0-138		09/20/2024 16:54	WG2366558
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		09/20/2024 16:54	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.49	J	4.44	13.3	2.82	09/24/2024 21:25	WG2368270
Residual Range Organics (RRO)	13.7	J	11.1	33.2	2.82	09/24/2024 21:25	WG2368270
(S) o-Terphenyl	51.3			18.0-148		09/24/2024 21:25	WG2368270

Sample Narrative:

L1779358-02 WG2368270: Dilution due to matrix impact during extraction procedure

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		0.0139	0.0400	1	09/22/2024 18:37	WG2366683
PCB 1221	U		0.0139	0.0400	1	09/22/2024 18:37	WG2366683
PCB 1232	U		0.0139	0.0400	1	09/22/2024 18:37	WG2366683
PCB 1242	U		0.0139	0.0400	1	09/22/2024 18:37	WG2366683
PCB 1248	U		0.00869	0.0200	1	09/22/2024 18:37	WG2366683
PCB 1254	U		0.00869	0.0200	1	09/22/2024 18:37	WG2366683
PCB 1260	U		0.00869	0.0200	1	09/22/2024 18:37	WG2366683
(S) Decachlorobiphenyl	93.7			10.0-135		09/22/2024 18:37	WG2366683
(S) Tetrachloro-m-xylene	97.2			10.0-139		09/22/2024 18:37	WG2366683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00271	0.00706	1	09/21/2024 17:08	WG2366682
Acenaphthene	U		0.00246	0.00706	1	09/21/2024 17:08	WG2366682
Acenaphthylene	U		0.00254	0.00706	1	09/21/2024 17:08	WG2366682
Benzo(a)anthracene	U		0.00204	0.00706	1	09/21/2024 17:08	WG2366682
Benzo(a)pyrene	U		0.00211	0.00706	1	09/21/2024 17:08	WG2366682
Benzo(b)fluoranthene	U		0.00180	0.00706	1	09/21/2024 17:08	WG2366682
Benzo(g,h,i)perylene	U		0.00208	0.00706	1	09/21/2024 17:08	WG2366682
Benzo(k)fluoranthene	U		0.00253	0.00706	1	09/21/2024 17:08	WG2366682
Chrysene	U		0.00273	0.00706	1	09/21/2024 17:08	WG2366682
Dibenz(a,h)anthracene	U		0.00202	0.00706	1	09/21/2024 17:08	WG2366682
Fluoranthene	U		0.00267	0.00706	1	09/21/2024 17:08	WG2366682
Fluorene	U		0.00241	0.00706	1	09/21/2024 17:08	WG2366682
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00706	1	09/21/2024 17:08	WG2366682
Naphthalene	U		0.00480	0.0235	1	09/21/2024 17:08	WG2366682
Phenanthrene	U		0.00272	0.00706	1	09/21/2024 17:08	WG2366682
Pyrene	U		0.00235	0.00706	1	09/21/2024 17:08	WG2366682
1-Methylnaphthalene	U		0.00529	0.0235	1	09/21/2024 17:08	WG2366682
2-Methylnaphthalene	U		0.00503	0.0235	1	09/21/2024 17:08	WG2366682
2-Chloronaphthalene	U		0.00549	0.0235	1	09/21/2024 17:08	WG2366682
(S) p-Terphenyl-d14	83.3			23.0-120		09/21/2024 17:08	WG2366682
(S) Nitrobenzene-d5	93.1			14.0-149		09/21/2024 17:08	WG2366682
(S) 2-Fluorobiphenyl	89.7			34.0-125		09/21/2024 17:08	WG2366682

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.8		1	09/20/2024 09:46	WG2366319

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0489	1	09/21/2024 10:25	WG2366424

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.67		0.254	0.611	1	09/20/2024 15:40	WG2366373

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0533	0.0730	1	09/20/2024 17:13	WG2366558
Acrylonitrile	U		0.00527	0.0182	1	09/20/2024 17:13	WG2366558
Benzene	U		0.000682	0.00146	1	09/20/2024 17:13	WG2366558
Bromobenzene	U		0.00131	0.0182	1	09/20/2024 17:13	WG2366558
Bromodichloromethane	U		0.00106	0.00365	1	09/20/2024 17:13	WG2366558
Bromoform	U		0.00171	0.0365	1	09/20/2024 17:13	WG2366558
Bromomethane	U		0.00287	0.0182	1	09/20/2024 17:13	WG2366558
n-Butylbenzene	U	C3	0.00766	0.0182	1	09/20/2024 17:13	WG2366558
sec-Butylbenzene	U		0.00420	0.0182	1	09/20/2024 17:13	WG2366558
tert-Butylbenzene	U		0.00285	0.00730	1	09/20/2024 17:13	WG2366558
Carbon tetrachloride	U		0.00131	0.00730	1	09/20/2024 17:13	WG2366558
Chlorobenzene	U		0.000306	0.00365	1	09/20/2024 17:13	WG2366558
Chlorodibromomethane	U		0.000893	0.00365	1	09/20/2024 17:13	WG2366558
Chloroethane	U		0.00248	0.00730	1	09/20/2024 17:13	WG2366558
Chloroform	U		0.00150	0.00365	1	09/20/2024 17:13	WG2366558
Chloromethane	U		0.00635	0.0182	1	09/20/2024 17:13	WG2366558
2-Chlorotoluene	U		0.00126	0.00365	1	09/20/2024 17:13	WG2366558
4-Chlorotoluene	U		0.000657	0.00730	1	09/20/2024 17:13	WG2366558
1,2-Dibromo-3-Chloropropane	U		0.00569	0.0365	1	09/20/2024 17:13	WG2366558
1,2-Dibromoethane	U		0.000946	0.00365	1	09/20/2024 17:13	WG2366558
Dibromomethane	U		0.00109	0.00730	1	09/20/2024 17:13	WG2366558
1,2-Dichlorobenzene	U		0.000620	0.00730	1	09/20/2024 17:13	WG2366558
1,3-Dichlorobenzene	U		0.000876	0.00730	1	09/20/2024 17:13	WG2366558
1,4-Dichlorobenzene	U		0.00102	0.00730	1	09/20/2024 17:13	WG2366558
Dichlorodifluoromethane	U		0.00235	0.00730	1	09/20/2024 17:13	WG2366558
1,1-Dichloroethane	U		0.000717	0.00365	1	09/20/2024 17:13	WG2366558
1,2-Dichloroethane	U		0.000947	0.00365	1	09/20/2024 17:13	WG2366558
1,1-Dichloroethene	U		0.000884	0.00365	1	09/20/2024 17:13	WG2366558
cis-1,2-Dichloroethene	U		0.00107	0.00365	1	09/20/2024 17:13	WG2366558
trans-1,2-Dichloroethene	U		0.00152	0.00730	1	09/20/2024 17:13	WG2366558
1,2-Dichloropropane	U		0.00207	0.00730	1	09/20/2024 17:13	WG2366558
1,1-Dichloropropene	U		0.00118	0.00365	1	09/20/2024 17:13	WG2366558
1,3-Dichloropropane	U		0.000731	0.00730	1	09/20/2024 17:13	WG2366558
cis-1,3-Dichloropropene	U		0.00110	0.00365	1	09/20/2024 17:13	WG2366558
trans-1,3-Dichloropropene	U		0.00166	0.00730	1	09/20/2024 17:13	WG2366558
2,2-Dichloropropane	U		0.00201	0.00365	1	09/20/2024 17:13	WG2366558
Di-isopropyl ether	U		0.000598	0.00146	1	09/20/2024 17:13	WG2366558
Ethylbenzene	U		0.00108	0.00365	1	09/20/2024 17:13	WG2366558
Hexachloro-1,3-butadiene	U		0.00876	0.0365	1	09/20/2024 17:13	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000620	0.00365	1	09/20/2024 17:13	WG2366558
p-Isopropyltoluene	U		0.00372	0.00730	1	09/20/2024 17:13	WG2366558
2-Butanone (MEK)	U		0.0927	0.146	1	09/20/2024 17:13	WG2366558
Methylene Chloride	U		0.00969	0.0365	1	09/20/2024 17:13	WG2366558
4-Methyl-2-pentanone (MIBK)	U		0.00333	0.0365	1	09/20/2024 17:13	WG2366558
Methyl tert-butyl ether	U		0.000511	0.00146	1	09/20/2024 17:13	WG2366558
Naphthalene	U	C3	0.00712	0.0182	1	09/20/2024 17:13	WG2366558
n-Propylbenzene	U		0.00139	0.00730	1	09/20/2024 17:13	WG2366558
Styrene	U		0.000334	0.0182	1	09/20/2024 17:13	WG2366558
1,1,1,2-Tetrachloroethane	U		0.00138	0.00365	1	09/20/2024 17:13	WG2366558
1,1,2,2-Tetrachloroethane	U		0.00101	0.00365	1	09/20/2024 17:13	WG2366558
1,1,2-Trichlorotrifluoroethane	U	J4	0.00110	0.00365	1	09/20/2024 17:13	WG2366558
Tetrachloroethene	U		0.00131	0.00365	1	09/20/2024 17:13	WG2366558
Toluene	U		0.00190	0.00730	1	09/20/2024 17:13	WG2366558
1,2,3-Trichlorobenzene	U		0.0107	0.0182	1	09/20/2024 17:13	WG2366558
1,2,4-Trichlorobenzene	U		0.00642	0.0182	1	09/20/2024 17:13	WG2366558
1,1,1-Trichloroethane	U		0.00135	0.00365	1	09/20/2024 17:13	WG2366558
1,1,2-Trichloroethane	U		0.000871	0.00365	1	09/20/2024 17:13	WG2366558
Trichloroethene	U		0.000852	0.00146	1	09/20/2024 17:13	WG2366558
Trichlorofluoromethane	U		0.00121	0.00365	1	09/20/2024 17:13	WG2366558
1,2,3-Trichloropropane	U		0.00236	0.0182	1	09/20/2024 17:13	WG2366558
1,2,4-Trimethylbenzene	U	C3	0.00231	0.00730	1	09/20/2024 17:13	WG2366558
1,2,3-Trimethylbenzene	U		0.00231	0.00730	1	09/20/2024 17:13	WG2366558
1,3,5-Trimethylbenzene	U		0.00292	0.00730	1	09/20/2024 17:13	WG2366558
Vinyl chloride	U		0.00169	0.00365	1	09/20/2024 17:13	WG2366558
Xylenes, Total	U		0.00128	0.00949	1	09/20/2024 17:13	WG2366558
(S) Toluene-d8	94.9			75.0-131		09/20/2024 17:13	WG2366558
(S) 4-Bromofluorobenzene	99.6			67.0-138		09/20/2024 17:13	WG2366558
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/20/2024 17:13	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		4.56	13.7	2.81	09/24/2024 21:38	WG2368270
Residual Range Organics (RRO)	U		11.5	34.4	2.81	09/24/2024 21:38	WG2368270
(S) o-Terphenyl	49.8			18.0-148		09/24/2024 21:38	WG2368270

Sample Narrative:
L1779358-03 WG2368270: Dilution due to matrix impact during extraction procedure

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		0.0144	0.0416	1	09/22/2024 18:48	WG2366683
PCB 1221	U		0.0144	0.0416	1	09/22/2024 18:48	WG2366683
PCB 1232	U		0.0144	0.0416	1	09/22/2024 18:48	WG2366683
PCB 1242	U		0.0144	0.0416	1	09/22/2024 18:48	WG2366683
PCB 1248	U		0.00902	0.0208	1	09/22/2024 18:48	WG2366683
PCB 1254	U		0.00902	0.0208	1	09/22/2024 18:48	WG2366683
PCB 1260	U		0.00902	0.0208	1	09/22/2024 18:48	WG2366683
(S) Decachlorobiphenyl	66.5			10.0-135		09/22/2024 18:48	WG2366683
(S) Tetrachloro-m-xylene	75.8			10.0-139		09/22/2024 18:48	WG2366683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00281	0.00733	1	09/21/2024 17:25	WG2366682
Acenaphthene	U		0.00255	0.00733	1	09/21/2024 17:25	WG2366682
Acenaphthylene	U		0.00264	0.00733	1	09/21/2024 17:25	WG2366682
Benzo(a)anthracene	U		0.00211	0.00733	1	09/21/2024 17:25	WG2366682
Benzo(a)pyrene	U		0.00219	0.00733	1	09/21/2024 17:25	WG2366682
Benzo(b)fluoranthene	U		0.00187	0.00733	1	09/21/2024 17:25	WG2366682
Benzo(g,h,i)perylene	U		0.00216	0.00733	1	09/21/2024 17:25	WG2366682
Benzo(k)fluoranthene	U		0.00263	0.00733	1	09/21/2024 17:25	WG2366682
Chrysene	U		0.00284	0.00733	1	09/21/2024 17:25	WG2366682
Dibenz(a,h)anthracene	U		0.00210	0.00733	1	09/21/2024 17:25	WG2366682
Fluoranthene	U		0.00277	0.00733	1	09/21/2024 17:25	WG2366682
Fluorene	U		0.00251	0.00733	1	09/21/2024 17:25	WG2366682
Indeno(1,2,3-cd)pyrene	U		0.00221	0.00733	1	09/21/2024 17:25	WG2366682
Naphthalene	U		0.00499	0.0244	1	09/21/2024 17:25	WG2366682
Phenanthrene	U		0.00282	0.00733	1	09/21/2024 17:25	WG2366682
Pyrene	U		0.00244	0.00733	1	09/21/2024 17:25	WG2366682
1-Methylnaphthalene	U		0.00549	0.0244	1	09/21/2024 17:25	WG2366682
2-Methylnaphthalene	U		0.00522	0.0244	1	09/21/2024 17:25	WG2366682
2-Chloronaphthalene	U		0.00570	0.0244	1	09/21/2024 17:25	WG2366682
(S) p-Terphenyl-d14	75.2			23.0-120		09/21/2024 17:25	WG2366682
(S) Nitrobenzene-d5	83.5			14.0-149		09/21/2024 17:25	WG2366682
(S) 2-Fluorobiphenyl	80.0			34.0-125		09/21/2024 17:25	WG2366682

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.1		1	09/20/2024 09:46	WG2366319

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0211	0.0470	1	09/21/2024 10:28	WG2366424

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.83		0.244	0.587	1	09/20/2024 15:45	WG2366373

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0523	0.0716	1.07	09/20/2024 17:32	WG2366558
Acrylonitrile	U		0.00516	0.0179	1.07	09/20/2024 17:32	WG2366558
Benzene	U		0.000669	0.00143	1.07	09/20/2024 17:32	WG2366558
Bromobenzene	U		0.00129	0.0179	1.07	09/20/2024 17:32	WG2366558
Bromodichloromethane	U		0.00104	0.00358	1.07	09/20/2024 17:32	WG2366558
Bromoform	U		0.00167	0.0358	1.07	09/20/2024 17:32	WG2366558
Bromomethane	U		0.00282	0.0179	1.07	09/20/2024 17:32	WG2366558
n-Butylbenzene	U	C3	0.00752	0.0179	1.07	09/20/2024 17:32	WG2366558
sec-Butylbenzene	U		0.00412	0.0179	1.07	09/20/2024 17:32	WG2366558
tert-Butylbenzene	U		0.00280	0.00716	1.07	09/20/2024 17:32	WG2366558
Carbon tetrachloride	U		0.00129	0.00716	1.07	09/20/2024 17:32	WG2366558
Chlorobenzene	U		0.000301	0.00358	1.07	09/20/2024 17:32	WG2366558
Chlorodibromomethane	U		0.000876	0.00358	1.07	09/20/2024 17:32	WG2366558
Chloroethane	U		0.00243	0.00716	1.07	09/20/2024 17:32	WG2366558
Chloroform	U		0.00147	0.00358	1.07	09/20/2024 17:32	WG2366558
Chloromethane	U		0.00622	0.0179	1.07	09/20/2024 17:32	WG2366558
2-Chlorotoluene	U		0.00124	0.00358	1.07	09/20/2024 17:32	WG2366558
4-Chlorotoluene	U		0.000643	0.00716	1.07	09/20/2024 17:32	WG2366558
1,2-Dibromo-3-Chloropropane	U		0.00558	0.0358	1.07	09/20/2024 17:32	WG2366558
1,2-Dibromoethane	U		0.000927	0.00358	1.07	09/20/2024 17:32	WG2366558
Dibromomethane	U		0.00107	0.00716	1.07	09/20/2024 17:32	WG2366558
1,2-Dichlorobenzene	U		0.000609	0.00716	1.07	09/20/2024 17:32	WG2366558
1,3-Dichlorobenzene	U		0.000859	0.00716	1.07	09/20/2024 17:32	WG2366558
1,4-Dichlorobenzene	U		0.00100	0.00716	1.07	09/20/2024 17:32	WG2366558
Dichlorodifluoromethane	U		0.00230	0.00716	1.07	09/20/2024 17:32	WG2366558
1,1-Dichloroethane	U		0.000702	0.00358	1.07	09/20/2024 17:32	WG2366558
1,2-Dichloroethane	U		0.000928	0.00358	1.07	09/20/2024 17:32	WG2366558
1,1-Dichloroethene	U		0.000867	0.00358	1.07	09/20/2024 17:32	WG2366558
cis-1,2-Dichloroethene	U		0.00105	0.00358	1.07	09/20/2024 17:32	WG2366558
trans-1,2-Dichloroethene	U		0.00148	0.00716	1.07	09/20/2024 17:32	WG2366558
1,2-Dichloropropane	U		0.00203	0.00716	1.07	09/20/2024 17:32	WG2366558
1,1-Dichloropropene	U		0.00116	0.00358	1.07	09/20/2024 17:32	WG2366558
1,3-Dichloropropane	U		0.000717	0.00716	1.07	09/20/2024 17:32	WG2366558
cis-1,3-Dichloropropene	U		0.00108	0.00358	1.07	09/20/2024 17:32	WG2366558
trans-1,3-Dichloropropene	U		0.00163	0.00716	1.07	09/20/2024 17:32	WG2366558
2,2-Dichloropropane	U		0.00198	0.00358	1.07	09/20/2024 17:32	WG2366558
Di-isopropyl ether	U		0.000587	0.00143	1.07	09/20/2024 17:32	WG2366558
Ethylbenzene	U		0.00106	0.00358	1.07	09/20/2024 17:32	WG2366558
Hexachloro-1,3-butadiene	U		0.00859	0.0358	1.07	09/20/2024 17:32	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000609	0.00358	1.07	09/20/2024 17:32	WG2366558
p-Isopropyltoluene	U		0.00365	0.00716	1.07	09/20/2024 17:32	WG2366558
2-Butanone (MEK)	U		0.0908	0.143	1.07	09/20/2024 17:32	WG2366558
Methylene Chloride	U		0.00950	0.0358	1.07	09/20/2024 17:32	WG2366558
4-Methyl-2-pentanone (MIBK)	U		0.00326	0.0358	1.07	09/20/2024 17:32	WG2366558
Methyl tert-butyl ether	U		0.000500	0.00143	1.07	09/20/2024 17:32	WG2366558
Naphthalene	U	C3	0.00698	0.0179	1.07	09/20/2024 17:32	WG2366558
n-Propylbenzene	U		0.00136	0.00716	1.07	09/20/2024 17:32	WG2366558
Styrene	U		0.000328	0.0179	1.07	09/20/2024 17:32	WG2366558
1,1,1,2-Tetrachloroethane	U		0.00135	0.00358	1.07	09/20/2024 17:32	WG2366558
1,1,2,2-Tetrachloroethane	U		0.000995	0.00358	1.07	09/20/2024 17:32	WG2366558
1,1,2-Trichlorotrifluoroethane	U	J4	0.00108	0.00358	1.07	09/20/2024 17:32	WG2366558
Tetrachloroethene	U		0.00128	0.00358	1.07	09/20/2024 17:32	WG2366558
Toluene	U		0.00186	0.00716	1.07	09/20/2024 17:32	WG2366558
1,2,3-Trichlorobenzene	U		0.0105	0.0179	1.07	09/20/2024 17:32	WG2366558
1,2,4-Trichlorobenzene	U		0.00630	0.0179	1.07	09/20/2024 17:32	WG2366558
1,1,1-Trichloroethane	U		0.00132	0.00358	1.07	09/20/2024 17:32	WG2366558
1,1,2-Trichloroethane	U		0.000855	0.00358	1.07	09/20/2024 17:32	WG2366558
Trichloroethene	U		0.000836	0.00143	1.07	09/20/2024 17:32	WG2366558
Trichlorofluoromethane	U		0.00118	0.00358	1.07	09/20/2024 17:32	WG2366558
1,2,3-Trichloropropane	U		0.00231	0.0179	1.07	09/20/2024 17:32	WG2366558
1,2,4-Trimethylbenzene	U	C3	0.00226	0.00716	1.07	09/20/2024 17:32	WG2366558
1,2,3-Trimethylbenzene	U		0.00226	0.00716	1.07	09/20/2024 17:32	WG2366558
1,3,5-Trimethylbenzene	U		0.00286	0.00716	1.07	09/20/2024 17:32	WG2366558
Vinyl chloride	U		0.00166	0.00358	1.07	09/20/2024 17:32	WG2366558
Xylenes, Total	U		0.00126	0.00931	1.07	09/20/2024 17:32	WG2366558
(S) Toluene-d8	94.6			75.0-131		09/20/2024 17:32	WG2366558
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2024 17:32	WG2366558
(S) 1,2-Dichloroethane-d4	99.5			70.0-130		09/20/2024 17:32	WG2366558

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4.69	J	1.56	4.70	1	09/24/2024 21:52	WG2368270
Residual Range Organics (RRO)	14.9		3.91	11.7	1	09/24/2024 21:52	WG2368270
(S) o-Terphenyl	59.4			18.0-148		09/24/2024 21:52	WG2368270

Sample Narrative:

L1779358-04 WG2368270: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0139	0.0399	1	09/22/2024 18:58	WG2366683
PCB 1221	U		0.0139	0.0399	1	09/22/2024 18:58	WG2366683
PCB 1232	U		0.0139	0.0399	1	09/22/2024 18:58	WG2366683
PCB 1242	U		0.0139	0.0399	1	09/22/2024 18:58	WG2366683
PCB 1248	U		0.00867	0.0200	1	09/22/2024 18:58	WG2366683
PCB 1254	U		0.00867	0.0200	1	09/22/2024 18:58	WG2366683
PCB 1260	U		0.00867	0.0200	1	09/22/2024 18:58	WG2366683
(S) Decachlorobiphenyl	75.0			10.0-135		09/22/2024 18:58	WG2366683
(S) Tetrachloro-m-xylene	78.7			10.0-139		09/22/2024 18:58	WG2366683

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00270	0.00705	1	09/21/2024 17:43	WG2366682
Acenaphthene	U		0.00246	0.00705	1	09/21/2024 17:43	WG2366682
Acenaphthylene	U		0.00254	0.00705	1	09/21/2024 17:43	WG2366682
Benzo(a)anthracene	U		0.00203	0.00705	1	09/21/2024 17:43	WG2366682
Benzo(a)pyrene	U		0.00210	0.00705	1	09/21/2024 17:43	WG2366682
Benzo(b)fluoranthene	U		0.00180	0.00705	1	09/21/2024 17:43	WG2366682
Benzo(g,h,i)perylene	U		0.00208	0.00705	1	09/21/2024 17:43	WG2366682
Benzo(k)fluoranthene	U		0.00253	0.00705	1	09/21/2024 17:43	WG2366682
Chrysene	U		0.00273	0.00705	1	09/21/2024 17:43	WG2366682
Dibenz(a,h)anthracene	U		0.00202	0.00705	1	09/21/2024 17:43	WG2366682
Fluoranthene	U		0.00267	0.00705	1	09/21/2024 17:43	WG2366682
Fluorene	U		0.00241	0.00705	1	09/21/2024 17:43	WG2366682
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00705	1	09/21/2024 17:43	WG2366682
Naphthalene	U		0.00479	0.0235	1	09/21/2024 17:43	WG2366682
Phenanthrene	0.00530	J	0.00271	0.00705	1	09/21/2024 17:43	WG2366682
Pyrene	U		0.00235	0.00705	1	09/21/2024 17:43	WG2366682
1-Methylnaphthalene	U		0.00528	0.0235	1	09/21/2024 17:43	WG2366682
2-Methylnaphthalene	U		0.00502	0.0235	1	09/21/2024 17:43	WG2366682
2-Chloronaphthalene	U		0.00547	0.0235	1	09/21/2024 17:43	WG2366682
(S) p-Terphenyl-d14	76.3			23.0-120		09/21/2024 17:43	WG2366682
(S) Nitrobenzene-d5	78.9			14.0-149		09/21/2024 17:43	WG2366682
(S) 2-Fluorobiphenyl	81.7			34.0-125		09/21/2024 17:43	WG2366682

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122675-1 09/20/24 09:46

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1779381-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1779381-01 09/20/24 09:46 • (DUP) R4122675-3 09/20/24 09:46

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.1	85.5	1	0.631		10

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4122675-2 09/20/24 09:46

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

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4122658-1 09/21/24 09:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4122658-2 09/21/24 09:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.519	104	80.0-120	

L1778742-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778742-06 09/21/24 10:00 • (MS) R4122658-4 09/21/24 10:05 • (MSD) R4122658-5 09/21/24 10:08

	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
Analyte	mg/kg				%	%		%			%	%
Mercury	0.744	0.0963	0.838	0.868	99.7	104	1	75.0-125			3.57	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122461-1 09/20/24 15:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4122461-2 09/20/24 15:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	105	105	80.0-120	

L1776299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1776299-01 09/20/24 15:08 • (MS) R4122461-5 09/20/24 15:13 • (MSD) R4122461-6 09/20/24 15:15

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 %
Lead	101	11.9	105	109	92.2	96.5	1	75.0-125			4.00	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122952-3 09/20/24 10:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4122952-3 09/20/24 10:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	94.1			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4122952-1 09/20/24 09:10 • (LCSD) R4122952-2 09/20/24 09:29

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	0.625	0.573	0.598	91.7	95.7	10.0-160			4.27	31
Acrylonitrile	0.625	0.613	0.615	98.1	98.4	45.0-153			0.326	22
Benzene	0.125	0.123	0.125	98.4	100	70.0-123			1.61	20
Bromobenzene	0.125	0.114	0.112	91.2	89.6	73.0-121			1.77	20
Bromodichloromethane	0.125	0.129	0.131	103	105	73.0-121			1.54	20

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

(LCS) R4122952-1 09/20/24 09:10 • (LCSD) R4122952-2 09/20/24 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.129	0.128	103	102	64.0-132			0.778	20
Bromomethane	0.125	0.114	0.118	91.2	94.4	56.0-147			3.45	20
n-Butylbenzene	0.125	0.0970	0.106	77.6	84.8	68.0-135			8.87	20
sec-Butylbenzene	0.125	0.102	0.104	81.6	83.2	74.0-130			1.94	20
tert-Butylbenzene	0.125	0.102	0.105	81.6	84.0	75.0-127			2.90	20
Carbon tetrachloride	0.125	0.144	0.150	115	120	66.0-128			4.08	20
Chlorobenzene	0.125	0.114	0.110	91.2	88.0	76.0-128			3.57	20
Chlorodibromomethane	0.125	0.119	0.122	95.2	97.6	74.0-127			2.49	20
Chloroethane	0.125	0.104	0.102	83.2	81.6	61.0-134			1.94	20
Chloroform	0.125	0.130	0.131	104	105	72.0-123			0.766	20
Chloromethane	0.125	0.108	0.113	86.4	90.4	51.0-138			4.52	20
2-Chlorotoluene	0.125	0.107	0.104	85.6	83.2	75.0-124			2.84	20
4-Chlorotoluene	0.125	0.104	0.105	83.2	84.0	75.0-124			0.957	20
1,2-Dibromo-3-Chloropropane	0.125	0.101	0.100	80.8	80.0	59.0-130			0.995	20
1,2-Dibromoethane	0.125	0.115	0.116	92.0	92.8	74.0-128			0.866	20
Dibromomethane	0.125	0.136	0.133	109	106	75.0-122			2.23	20
1,2-Dichlorobenzene	0.125	0.113	0.116	90.4	92.8	76.0-124			2.62	20
1,3-Dichlorobenzene	0.125	0.109	0.111	87.2	88.8	76.0-125			1.82	20
1,4-Dichlorobenzene	0.125	0.103	0.108	82.4	86.4	77.0-121			4.74	20
Dichlorodifluoromethane	0.125	0.111	0.119	88.8	95.2	43.0-156			6.96	20
1,1-Dichloroethane	0.125	0.133	0.134	106	107	70.0-127			0.749	20
1,2-Dichloroethane	0.125	0.127	0.131	102	105	65.0-131			3.10	20
1,1-Dichloroethene	0.125	0.144	0.149	115	119	65.0-131			3.41	20
cis-1,2-Dichloroethene	0.125	0.116	0.119	92.8	95.2	73.0-125			2.55	20
trans-1,2-Dichloroethene	0.125	0.123	0.135	98.4	108	71.0-125			9.30	20
1,2-Dichloropropane	0.125	0.126	0.129	101	103	74.0-125			2.35	20
1,1-Dichloropropene	0.125	0.149	0.150	119	120	73.0-125			0.669	20
1,3-Dichloropropane	0.125	0.120	0.116	96.0	92.8	80.0-125			3.39	20
cis-1,3-Dichloropropene	0.125	0.130	0.136	104	109	76.0-127			4.51	20
trans-1,3-Dichloropropene	0.125	0.121	0.119	96.8	95.2	73.0-127			1.67	20
2,2-Dichloropropane	0.125	0.127	0.127	102	102	59.0-135			0.000	20
Di-isopropyl ether	0.125	0.124	0.125	99.2	100	60.0-136			0.803	20
Ethylbenzene	0.125	0.114	0.119	91.2	95.2	74.0-126			4.29	20
Hexachloro-1,3-butadiene	0.125	0.144	0.156	115	125	57.0-150			8.00	20
Isopropylbenzene	0.125	0.114	0.115	91.2	92.0	72.0-127			0.873	20
p-Isopropyltoluene	0.125	0.102	0.108	81.6	86.4	72.0-133			5.71	20
2-Butanone (MEK)	0.625	0.505	0.499	80.8	79.8	30.0-160			1.20	24
Methylene Chloride	0.125	0.128	0.129	102	103	68.0-123			0.778	20
4-Methyl-2-pentanone (MIBK)	0.625	0.590	0.582	94.4	93.1	56.0-143			1.37	20
Methyl tert-butyl ether	0.125	0.127	0.125	102	100	66.0-132			1.59	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4122952-1 09/20/24 09:10 • (LCSD) R4122952-2 09/20/24 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.0980	0.101	78.4	80.8	59.0-130			3.02	20
n-Propylbenzene	0.125	0.110	0.115	88.0	92.0	74.0-126			4.44	20
Styrene	0.125	0.106	0.103	84.8	82.4	72.0-127			2.87	20
1,1,1,2-Tetrachloroethane	0.125	0.114	0.114	91.2	91.2	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.101	0.0977	80.8	78.2	68.0-128			3.32	20
1,1,2-Trichlorotrifluoroethane	0.125	0.167	0.178	134	142	61.0-139		J4	6.38	20
Tetrachloroethene	0.125	0.134	0.134	107	107	70.0-136			0.000	20
Toluene	0.125	0.113	0.113	90.4	90.4	75.0-121			0.000	20
1,2,3-Trichlorobenzene	0.125	0.121	0.127	96.8	102	59.0-139			4.84	20
1,2,4-Trichlorobenzene	0.125	0.121	0.131	96.8	105	62.0-137			7.94	20
1,1,1-Trichloroethane	0.125	0.141	0.147	113	118	69.0-126			4.17	20
1,1,2-Trichloroethane	0.125	0.113	0.117	90.4	93.6	78.0-123			3.48	20
Trichloroethene	0.125	0.137	0.147	110	118	76.0-126			7.04	20
Trichlorofluoromethane	0.125	0.133	0.139	106	111	61.0-142			4.41	20
1,2,3-Trichloropropane	0.125	0.117	0.109	93.6	87.2	67.0-129			7.08	20
1,2,4-Trimethylbenzene	0.125	0.0993	0.103	79.4	82.4	70.0-126			3.66	20
1,2,3-Trimethylbenzene	0.125	0.105	0.102	84.0	81.6	74.0-124			2.90	20
1,3,5-Trimethylbenzene	0.125	0.105	0.103	84.0	82.4	73.0-127			1.92	20
Vinyl chloride	0.125	0.120	0.132	96.0	106	63.0-134			9.52	20
Xylenes, Total	0.375	0.341	0.340	90.9	90.7	72.0-127			0.294	20
(S) Toluene-d8				95.6	93.8	75.0-131				
(S) 4-Bromofluorobenzene				101	100	67.0-138				
(S) 1,2-Dichloroethane-d4				100	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4123948-2 09/24/24 21:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	60.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4123948-1 09/24/24 21:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	38.5	77.0	50.0-150	
(S) o-Terphenyl			71.0	18.0-148	

L1779127-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1779127-03 09/24/24 22:45 • (MS) R4123948-3 09/24/24 22:59 • (MSD) R4123948-4 09/24/24 23:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	53.2	6.94	35.4	46.2	53.5	73.9	1	50.0-150		J3	26.6	20
(S) o-Terphenyl					35.0	36.4		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4123232-1 09/22/24 18:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	104			10.0-135
(S) Tetrachloro-m-xylene	112			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4123232-2 09/22/24 18:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.166	99.4	36.0-141	
PCB 1260	0.167	0.161	96.4	37.0-145	
(S) Decachlorobiphenyl			106	10.0-135	
(S) Tetrachloro-m-xylene			111	10.0-139	

L1779940-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1779940-02 09/22/24 19:39 • (MS) R4123232-3 09/22/24 19:49 • (MSD) R4123232-4 09/22/24 19:59

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 %
PCB 1016	0.183	U	0.148	0.156	80.8	85.6	1	10.0-160			5.76	37
PCB 1260	0.183	U	0.167	0.176	91.6	96.4	1	10.0-160			5.10	38
(S) Decachlorobiphenyl					79.0	84.8		10.0-135				
(S) Tetrachloro-m-xylene					83.3	87.7		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4122944-2 09/21/24 12:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	83.2			23.0-120
(S) Nitrobenzene-d5	97.6			14.0-149
(S) 2-Fluorobiphenyl	88.6			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4122944-1 09/21/24 12:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0591	73.9	50.0-126	
Acenaphthene	0.0800	0.0636	79.5	50.0-120	
Acenaphthylene	0.0800	0.0654	81.8	50.0-120	
Benzo(a)anthracene	0.0800	0.0635	79.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0619	77.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0676	84.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0631	78.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0637	79.6	49.0-125	
Chrysene	0.0800	0.0673	84.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0709	88.6	47.0-125	
Fluoranthene	0.0800	0.0689	86.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4122944-1 09/21/24 12:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0695	86.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0670	83.8	46.0-125	
Naphthalene	0.0800	0.0655	81.9	50.0-120	
Phenanthrene	0.0800	0.0632	79.0	47.0-120	
Pyrene	0.0800	0.0652	81.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0680	85.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0666	83.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0677	84.6	50.0-120	
(S) p-Terphenyl-d14			85.3	23.0-120	
(S) Nitrobenzene-d5			104	14.0-149	
(S) 2-Fluorobiphenyl			90.9	34.0-125	

L1778049-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1778049-02 09/21/24 14:08 • (MS) R4122944-3 09/21/24 14:26 • (MSD) R4122944-4 09/21/24 14:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0788	U	0.0548	0.0563	69.5	71.4	1	10.0-145			2.70	30
Acenaphthene	0.0788	U	0.0600	0.0604	76.1	76.6	1	14.0-127			0.664	27
Acenaphthylene	0.0788	U	0.0621	0.0611	78.8	77.5	1	21.0-124			1.62	25
Benzo(a)anthracene	0.0788	U	0.0575	0.0593	73.0	75.3	1	10.0-139			3.08	30
Benzo(a)pyrene	0.0788	U	0.0596	0.0617	75.6	78.3	1	10.0-141			3.46	31
Benzo(b)fluoranthene	0.0788	U	0.0647	0.0670	82.1	85.0	1	10.0-140			3.49	36
Benzo(g,h,i)perylene	0.0788	U	0.0621	0.0645	78.8	81.9	1	10.0-140			3.79	33
Benzo(k)fluoranthene	0.0788	U	0.0609	0.0620	77.3	78.7	1	10.0-137			1.79	31
Chrysene	0.0788	U	0.0636	0.0650	80.7	82.5	1	10.0-145			2.18	30
Dibenz(a,h)anthracene	0.0788	U	0.0691	0.0719	87.7	91.2	1	10.0-132			3.97	31
Fluoranthene	0.0788	U	0.0631	0.0638	80.1	81.0	1	10.0-153			1.10	33
Fluorene	0.0788	U	0.0647	0.0662	82.1	84.0	1	11.0-130			2.29	29
Indeno(1,2,3-cd)pyrene	0.0788	U	0.0637	0.0663	80.8	84.1	1	10.0-137			4.00	32
Naphthalene	0.0788	U	0.0615	0.0614	78.0	77.9	1	10.0-135			0.163	27
Phenanthrene	0.0788	U	0.0589	0.0604	74.7	76.6	1	10.0-144			2.51	31
Pyrene	0.0788	U	0.0611	0.0625	77.5	79.3	1	10.0-148			2.27	35
1-Methylnaphthalene	0.0788	U	0.0655	0.0656	83.1	83.2	1	10.0-142			0.153	28
2-Methylnaphthalene	0.0788	U	0.0630	0.0637	79.9	80.8	1	10.0-137			1.10	28
2-Chloronaphthalene	0.0788	U	0.0640	0.0634	81.2	80.4	1	29.0-120			0.942	24
(S) p-Terphenyl-d14					81.1	82.9		23.0-120				
(S) Nitrobenzene-d5					92.4	90.7		14.0-149				
(S) 2-Fluorobiphenyl					87.1	86.2		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

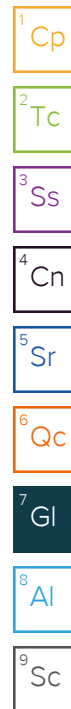
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.



ACCREDITATIONS & LOCATIONS

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.



[illegible]

Earth Engineers - Camas, WA

Sample Delivery Group: L1780967
Samples Received: 09/24/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT SOILS REMOVAL
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Mark W. Beasley
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B_F_E+30_9@11 L1780967-01	6
B_F_E+30_6-7@11 L1780967-02	9
B_F_D-E_6-7@11 L1780967-03	12
B_F_E+30_5-6@11 L1780967-04	15
B_F_D-E_5-6@11 L1780967-05	18
B_F_C-D_5-6@11 L1780967-06	21
B_F_D-E_4-5@11 L1780967-07	24
B_F_C-D_4-5@11 L1780967-08	27
B_F_B-C_4-5@11 L1780967-09	30
Qc: Quality Control Summary	33
Total Solids by Method 2540 G-2011	33
Mercury by Method 7471B	35
Metals (ICP) by Method 6010D	36
Volatile Organic Compounds (GC/MS) by Method 8260D	37
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	41
Polychlorinated Biphenyls (GC) by Method 8082 A	42
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	43
Gl: Glossary of Terms	45
Al: Accreditations & Locations	46
Sc: Sample Chain of Custody	47

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

SAMPLE SUMMARY

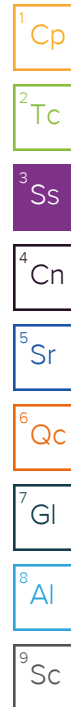
B_F_E+30_9@11 L1780967-01 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 11:00

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369260	1	09/25/24 07:58	09/25/24 08:06	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 10:51	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 15:55	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 11:00	09/24/24 18:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 06:22	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 04:08	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 11:22	JRM	Mt. Juliet, TN



B_F_E+30_6-7@11 L1780967-02 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 11:20

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369260	1	09/25/24 07:58	09/25/24 08:06	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 10:54	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 15:58	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 11:20	09/24/24 18:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	5	09/25/24 16:45	09/26/24 08:19	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 04:17	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 14:02	JRM	Mt. Juliet, TN

B_F_D-E_6-7@11 L1780967-03 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 11:45

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369260	1	09/25/24 07:58	09/25/24 08:06	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 10:56	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 15:42	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 11:45	09/24/24 19:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 07:53	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 04:27	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 11:57	JRM	Mt. Juliet, TN

B_F_E+30_5-6@11 L1780967-04 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 12:10

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369260	1	09/25/24 07:58	09/25/24 08:06	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 10:59	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:01	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 12:10	09/24/24 19:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 06:48	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 04:56	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 11:39	JRM	Mt. Juliet, TN

B_F_D-E_5-6@11 L1780967-05 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 12:30

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369260	1	09/25/24 07:58	09/25/24 08:06	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 11:07	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:09	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 12:30	09/24/24 19:54	JHH	Mt. Juliet, TN

SAMPLE SUMMARY

B_F_D-E_5-6@11 L1780967-05 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 12:30

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 07:14	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 05:06	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 12:51	JRM	Mt. Juliet, TN

B_F_C-D_5-6@11 L1780967-06 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 12:50

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369261	1	09/25/24 09:55	09/25/24 10:01	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 11:09	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:12	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 12:50	09/24/24 20:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 07:27	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 05:15	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 13:45	JRM	Mt. Juliet, TN

B_F_D-E_4-5@11 L1780967-07 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 13:15

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369261	1	09/25/24 09:55	09/25/24 10:01	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 11:12	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:15	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 13:15	09/24/24 20:32	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 07:01	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 05:25	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 12:33	JRM	Mt. Juliet, TN

B_F_C-D_4-5@11 L1780967-08 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 13:45

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369261	1	09/25/24 09:55	09/25/24 10:01	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 11:15	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:17	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 13:45	09/24/24 20:51	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 06:35	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 05:34	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 12:15	JRM	Mt. Juliet, TN

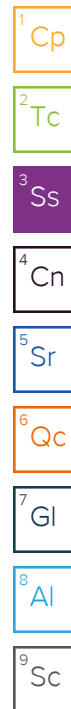
B_F_B-C_4-5@11 L1780967-09 Solid

Collected by
Matt Enos

Collected date/time
09/23/24 14:00

Received date/time
09/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2369261	1	09/25/24 09:55	09/25/24 10:01	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2368971	1	09/24/24 19:12	09/25/24 11:17	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2370197	1	09/26/24 13:40	09/26/24 16:20	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2368812	1	09/23/24 14:00	09/24/24 21:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2369791	1	09/25/24 16:45	09/26/24 07:40	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2369774	1	09/25/24 22:11	09/26/24 05:44	RDH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2369748	1	09/26/24 03:05	09/26/24 09:58	ALM	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.



Mark W. Beasley
Project Manager



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	82.5		1	09/25/2024 08:06	WG2369260

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0218	0.0485	1	09/25/2024 10:51	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	16.1		0.252	0.606	1	09/26/2024 15:55	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0529	0.0725	1	09/24/2024 18:38	WG2368812
Acrylonitrile	U		0.00523	0.0181	1	09/24/2024 18:38	WG2368812
Benzene	U		0.000677	0.00145	1	09/24/2024 18:38	WG2368812
Bromobenzene	U		0.00131	0.0181	1	09/24/2024 18:38	WG2368812
Bromodichloromethane	U		0.00105	0.00363	1	09/24/2024 18:38	WG2368812
Bromoform	U		0.00170	0.0363	1	09/24/2024 18:38	WG2368812
Bromomethane	U		0.00286	0.0181	1	09/24/2024 18:38	WG2368812
n-Butylbenzene	U		0.00761	0.0181	1	09/24/2024 18:38	WG2368812
sec-Butylbenzene	U		0.00418	0.0181	1	09/24/2024 18:38	WG2368812
tert-Butylbenzene	U		0.00283	0.00725	1	09/24/2024 18:38	WG2368812
Carbon tetrachloride	U		0.00130	0.00725	1	09/24/2024 18:38	WG2368812
Chlorobenzene	U		0.000305	0.00363	1	09/24/2024 18:38	WG2368812
Chlorodibromomethane	U		0.000887	0.00363	1	09/24/2024 18:38	WG2368812
Chloroethane	U		0.00247	0.00725	1	09/24/2024 18:38	WG2368812
Chloroform	U		0.00149	0.00363	1	09/24/2024 18:38	WG2368812
Chloromethane	U		0.00631	0.0181	1	09/24/2024 18:38	WG2368812
2-Chlorotoluene	U		0.00125	0.00363	1	09/24/2024 18:38	WG2368812
4-Chlorotoluene	U		0.000653	0.00725	1	09/24/2024 18:38	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0363	1	09/24/2024 18:38	WG2368812
1,2-Dibromoethane	U		0.000940	0.00363	1	09/24/2024 18:38	WG2368812
Dibromomethane	U		0.00109	0.00725	1	09/24/2024 18:38	WG2368812
1,2-Dichlorobenzene	U		0.000616	0.00725	1	09/24/2024 18:38	WG2368812
1,3-Dichlorobenzene	U		0.000870	0.00725	1	09/24/2024 18:38	WG2368812
1,4-Dichlorobenzene	U		0.00102	0.00725	1	09/24/2024 18:38	WG2368812
Dichlorodifluoromethane	U		0.00233	0.00725	1	09/24/2024 18:38	WG2368812
1,1-Dichloroethane	U		0.000712	0.00363	1	09/24/2024 18:38	WG2368812
1,2-Dichloroethane	U		0.000941	0.00363	1	09/24/2024 18:38	WG2368812
1,1-Dichloroethene	U		0.000879	0.00363	1	09/24/2024 18:38	WG2368812
cis-1,2-Dichloroethene	U		0.00106	0.00363	1	09/24/2024 18:38	WG2368812
trans-1,2-Dichloroethene	U		0.00151	0.00725	1	09/24/2024 18:38	WG2368812
1,2-Dichloropropane	U		0.00206	0.00725	1	09/24/2024 18:38	WG2368812
1,1-Dichloropropene	U		0.00117	0.00363	1	09/24/2024 18:38	WG2368812
1,3-Dichloropropane	U		0.000726	0.00725	1	09/24/2024 18:38	WG2368812
cis-1,3-Dichloropropene	U		0.00110	0.00363	1	09/24/2024 18:38	WG2368812
trans-1,3-Dichloropropene	U		0.00165	0.00725	1	09/24/2024 18:38	WG2368812
2,2-Dichloropropane	U		0.00200	0.00363	1	09/24/2024 18:38	WG2368812
Di-isopropyl ether	U		0.000595	0.00145	1	09/24/2024 18:38	WG2368812
Ethylbenzene	U		0.00107	0.00363	1	09/24/2024 18:38	WG2368812
Hexachloro-1,3-butadiene	U		0.00870	0.0363	1	09/24/2024 18:38	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000616	0.00363	1	09/24/2024 18:38	WG2368812
p-Isopropyltoluene	U		0.00370	0.00725	1	09/24/2024 18:38	WG2368812
2-Butanone (MEK)	U		0.0921	0.145	1	09/24/2024 18:38	WG2368812
Methylene Chloride	U		0.00963	0.0363	1	09/24/2024 18:38	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00331	0.0363	1	09/24/2024 18:38	WG2368812
Methyl tert-butyl ether	U		0.000508	0.00145	1	09/24/2024 18:38	WG2368812
Naphthalene	U	C3 J4	0.00708	0.0181	1	09/24/2024 18:38	WG2368812
n-Propylbenzene	U		0.00138	0.00725	1	09/24/2024 18:38	WG2368812
Styrene	U		0.000332	0.0181	1	09/24/2024 18:38	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00137	0.00363	1	09/24/2024 18:38	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00101	0.00363	1	09/24/2024 18:38	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00109	0.00363	1	09/24/2024 18:38	WG2368812
Tetrachloroethene	U		0.00130	0.00363	1	09/24/2024 18:38	WG2368812
Toluene	U		0.00189	0.00725	1	09/24/2024 18:38	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0106	0.0181	1	09/24/2024 18:38	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00638	0.0181	1	09/24/2024 18:38	WG2368812
1,1,1-Trichloroethane	U		0.00134	0.00363	1	09/24/2024 18:38	WG2368812
1,1,2-Trichloroethane	U		0.000866	0.00363	1	09/24/2024 18:38	WG2368812
Trichloroethene	U		0.000847	0.00145	1	09/24/2024 18:38	WG2368812
Trichlorofluoromethane	U		0.00120	0.00363	1	09/24/2024 18:38	WG2368812
1,2,3-Trichloropropane	U		0.00235	0.0181	1	09/24/2024 18:38	WG2368812
1,2,4-Trimethylbenzene	U		0.00229	0.00725	1	09/24/2024 18:38	WG2368812
1,2,3-Trimethylbenzene	U		0.00229	0.00725	1	09/24/2024 18:38	WG2368812
1,3,5-Trimethylbenzene	U		0.00290	0.00725	1	09/24/2024 18:38	WG2368812
Vinyl chloride	U		0.00168	0.00363	1	09/24/2024 18:38	WG2368812
Xylenes, Total	U		0.00128	0.00943	1	09/24/2024 18:38	WG2368812
(S) Toluene-d8	97.4			75.0-131		09/24/2024 18:38	WG2368812
(S) 4-Bromofluorobenzene	97.8			67.0-138		09/24/2024 18:38	WG2368812
(S) 1,2-Dichloroethane-d4	100			70.0-130		09/24/2024 18:38	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.61	4.85	1	09/26/2024 06:22	WG2369791
Residual Range Organics (RRO)	U		4.04	12.1	1	09/26/2024 06:22	WG2369791
(S) o-Terphenyl	67.1			18.0-148		09/26/2024 06:22	WG2369791

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		0.0143	0.0412	1	09/26/2024 04:08	WG2369774
PCB 1221	U		0.0143	0.0412	1	09/26/2024 04:08	WG2369774
PCB 1232	U		0.0143	0.0412	1	09/26/2024 04:08	WG2369774
PCB 1242	U		0.0143	0.0412	1	09/26/2024 04:08	WG2369774
PCB 1248	U		0.00894	0.0206	1	09/26/2024 04:08	WG2369774
PCB 1254	U		0.00894	0.0206	1	09/26/2024 04:08	WG2369774
PCB 1260	U		0.00894	0.0206	1	09/26/2024 04:08	WG2369774
(S) Decachlorobiphenyl	85.4			10.0-135		09/26/2024 04:08	WG2369774
(S) Tetrachloro-m-xylene	92.3			10.0-139		09/26/2024 04:08	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00279	0.00727	1	09/26/2024 11:22	WG2369748
Acenaphthene	U		0.00253	0.00727	1	09/26/2024 11:22	WG2369748
Acenaphthylene	U		0.00262	0.00727	1	09/26/2024 11:22	WG2369748
Benzo(a)anthracene	U		0.00210	0.00727	1	09/26/2024 11:22	WG2369748
Benzo(a)pyrene	U		0.00217	0.00727	1	09/26/2024 11:22	WG2369748
Benzo(b)fluoranthene	U		0.00185	0.00727	1	09/26/2024 11:22	WG2369748
Benzo(g,h,i)perylene	U		0.00214	0.00727	1	09/26/2024 11:22	WG2369748
Benzo(k)fluoranthene	U		0.00261	0.00727	1	09/26/2024 11:22	WG2369748
Chrysene	U		0.00281	0.00727	1	09/26/2024 11:22	WG2369748
Dibenz(a,h)anthracene	U		0.00208	0.00727	1	09/26/2024 11:22	WG2369748
Fluoranthene	U		0.00275	0.00727	1	09/26/2024 11:22	WG2369748
Fluorene	U		0.00248	0.00727	1	09/26/2024 11:22	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00219	0.00727	1	09/26/2024 11:22	WG2369748
Naphthalene	U		0.00494	0.0242	1	09/26/2024 11:22	WG2369748
Phenanthrene	U		0.00280	0.00727	1	09/26/2024 11:22	WG2369748
Pyrene	U		0.00242	0.00727	1	09/26/2024 11:22	WG2369748
1-Methylnaphthalene	U		0.00544	0.0242	1	09/26/2024 11:22	WG2369748
2-Methylnaphthalene	U		0.00517	0.0242	1	09/26/2024 11:22	WG2369748
2-Chloronaphthalene	U		0.00565	0.0242	1	09/26/2024 11:22	WG2369748
(S) p-Terphenyl-d14	101			23.0-120		09/26/2024 11:22	WG2369748
(S) Nitrobenzene-d5	109			14.0-149		09/26/2024 11:22	WG2369748
(S) 2-Fluorobiphenyl	111			34.0-125		09/26/2024 11:22	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.7		1	09/25/2024 08:06	WG2369260

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0490	1	09/25/2024 10:54	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	19.2		0.255	0.612	1	09/26/2024 15:58	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0545	0.0747	1	09/24/2024 18:57	WG2368812
Acrylonitrile	U		0.00539	0.0187	1	09/24/2024 18:57	WG2368812
Benzene	U		0.000697	0.00149	1	09/24/2024 18:57	WG2368812
Bromobenzene	U		0.00134	0.0187	1	09/24/2024 18:57	WG2368812
Bromodichloromethane	U		0.00108	0.00373	1	09/24/2024 18:57	WG2368812
Bromoform	U		0.00175	0.0373	1	09/24/2024 18:57	WG2368812
Bromomethane	U		0.00294	0.0187	1	09/24/2024 18:57	WG2368812
n-Butylbenzene	U		0.00784	0.0187	1	09/24/2024 18:57	WG2368812
sec-Butylbenzene	U		0.00430	0.0187	1	09/24/2024 18:57	WG2368812
tert-Butylbenzene	U		0.00291	0.00747	1	09/24/2024 18:57	WG2368812
Carbon tetrachloride	U		0.00134	0.00747	1	09/24/2024 18:57	WG2368812
Chlorobenzene	U		0.000314	0.00373	1	09/24/2024 18:57	WG2368812
Chlorodibromomethane	U		0.000914	0.00373	1	09/24/2024 18:57	WG2368812
Chloroethane	U		0.00254	0.00747	1	09/24/2024 18:57	WG2368812
Chloroform	U		0.00154	0.00373	1	09/24/2024 18:57	WG2368812
Chloromethane	U		0.00650	0.0187	1	09/24/2024 18:57	WG2368812
2-Chlorotoluene	U		0.00129	0.00373	1	09/24/2024 18:57	WG2368812
4-Chlorotoluene	U		0.000672	0.00747	1	09/24/2024 18:57	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00582	0.0373	1	09/24/2024 18:57	WG2368812
1,2-Dibromoethane	U		0.000968	0.00373	1	09/24/2024 18:57	WG2368812
Dibromomethane	U		0.00112	0.00747	1	09/24/2024 18:57	WG2368812
1,2-Dichlorobenzene	U		0.000635	0.00747	1	09/24/2024 18:57	WG2368812
1,3-Dichlorobenzene	U		0.000896	0.00747	1	09/24/2024 18:57	WG2368812
1,4-Dichlorobenzene	U		0.00105	0.00747	1	09/24/2024 18:57	WG2368812
Dichlorodifluoromethane	U		0.00240	0.00747	1	09/24/2024 18:57	WG2368812
1,1-Dichloroethane	U		0.000733	0.00373	1	09/24/2024 18:57	WG2368812
1,2-Dichloroethane	U		0.000969	0.00373	1	09/24/2024 18:57	WG2368812
1,1-Dichloroethene	U		0.000905	0.00373	1	09/24/2024 18:57	WG2368812
cis-1,2-Dichloroethene	U		0.00110	0.00373	1	09/24/2024 18:57	WG2368812
trans-1,2-Dichloroethene	U		0.00155	0.00747	1	09/24/2024 18:57	WG2368812
1,2-Dichloropropane	U		0.00212	0.00747	1	09/24/2024 18:57	WG2368812
1,1-Dichloropropene	U		0.00121	0.00373	1	09/24/2024 18:57	WG2368812
1,3-Dichloropropane	U		0.000748	0.00747	1	09/24/2024 18:57	WG2368812
cis-1,3-Dichloropropene	U		0.00113	0.00373	1	09/24/2024 18:57	WG2368812
trans-1,3-Dichloropropene	U		0.00170	0.00747	1	09/24/2024 18:57	WG2368812
2,2-Dichloropropane	U		0.00206	0.00373	1	09/24/2024 18:57	WG2368812
Di-isopropyl ether	U		0.000612	0.00149	1	09/24/2024 18:57	WG2368812
Ethylbenzene	U		0.00110	0.00373	1	09/24/2024 18:57	WG2368812
Hexachloro-1,3-butadiene	U		0.00896	0.0373	1	09/24/2024 18:57	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000635	0.00373	1	09/24/2024 18:57	WG2368812
p-Isopropyltoluene	0.00499	J	0.00381	0.00747	1	09/24/2024 18:57	WG2368812
2-Butanone (MEK)	U		0.0948	0.149	1	09/24/2024 18:57	WG2368812
Methylene Chloride	U		0.00992	0.0373	1	09/24/2024 18:57	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00340	0.0373	1	09/24/2024 18:57	WG2368812
Methyl tert-butyl ether	U		0.000523	0.00149	1	09/24/2024 18:57	WG2368812
Naphthalene	U	C3 J4	0.00729	0.0187	1	09/24/2024 18:57	WG2368812
n-Propylbenzene	U		0.00142	0.00747	1	09/24/2024 18:57	WG2368812
Styrene	U		0.000342	0.0187	1	09/24/2024 18:57	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00142	0.00373	1	09/24/2024 18:57	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00104	0.00373	1	09/24/2024 18:57	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00113	0.00373	1	09/24/2024 18:57	WG2368812
Tetrachloroethene	U		0.00134	0.00373	1	09/24/2024 18:57	WG2368812
Toluene	U		0.00194	0.00747	1	09/24/2024 18:57	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0109	0.0187	1	09/24/2024 18:57	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00657	0.0187	1	09/24/2024 18:57	WG2368812
1,1,1-Trichloroethane	U		0.00138	0.00373	1	09/24/2024 18:57	WG2368812
1,1,2-Trichloroethane	U		0.000891	0.00373	1	09/24/2024 18:57	WG2368812
Trichloroethene	U		0.000872	0.00149	1	09/24/2024 18:57	WG2368812
Trichlorofluoromethane	U		0.00123	0.00373	1	09/24/2024 18:57	WG2368812
1,2,3-Trichloropropane	U		0.00242	0.0187	1	09/24/2024 18:57	WG2368812
1,2,4-Trimethylbenzene	U		0.00236	0.00747	1	09/24/2024 18:57	WG2368812
1,2,3-Trimethylbenzene	U		0.00236	0.00747	1	09/24/2024 18:57	WG2368812
1,3,5-Trimethylbenzene	U		0.00299	0.00747	1	09/24/2024 18:57	WG2368812
Vinyl chloride	U		0.00173	0.00373	1	09/24/2024 18:57	WG2368812
Xylenes, Total	U		0.00131	0.00971	1	09/24/2024 18:57	WG2368812
(S) Toluene-d8	97.4			75.0-131		09/24/2024 18:57	WG2368812
(S) 4-Bromofluorobenzene	102			67.0-138		09/24/2024 18:57	WG2368812
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/24/2024 18:57	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	28.3		8.16	24.5	5	09/26/2024 08:19	WG2369791
Residual Range Organics (RRO)	97.0		20.4	61.2	5	09/26/2024 08:19	WG2369791
(S) o-Terphenyl	54.5			18.0-148		09/26/2024 08:19	WG2369791

Sample Narrative:

L1780967-02 WG2369791: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0144	0.0416	1	09/26/2024 04:17	WG2369774
PCB 1221	U		0.0144	0.0416	1	09/26/2024 04:17	WG2369774
PCB 1232	U		0.0144	0.0416	1	09/26/2024 04:17	WG2369774
PCB 1242	U		0.0144	0.0416	1	09/26/2024 04:17	WG2369774
PCB 1248	U		0.00903	0.0208	1	09/26/2024 04:17	WG2369774
PCB 1254	U		0.00903	0.0208	1	09/26/2024 04:17	WG2369774
PCB 1260	U		0.00903	0.0208	1	09/26/2024 04:17	WG2369774
(S) Decachlorobiphenyl	71.0			10.0-135		09/26/2024 04:17	WG2369774
(S) Tetrachloro-m-xylene	83.1			10.0-139		09/26/2024 04:17	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00281	0.00734	1	09/26/2024 14:02	WG2369748
Acenaphthene	U		0.00256	0.00734	1	09/26/2024 14:02	WG2369748
Acenaphthylene	U		0.00264	0.00734	1	09/26/2024 14:02	WG2369748
Benzo(a)anthracene	U		0.00212	0.00734	1	09/26/2024 14:02	WG2369748
Benzo(a)pyrene	U		0.00219	0.00734	1	09/26/2024 14:02	WG2369748
Benzo(b)fluoranthene	U		0.00187	0.00734	1	09/26/2024 14:02	WG2369748
Benzo(g,h,i)perylene	U		0.00217	0.00734	1	09/26/2024 14:02	WG2369748
Benzo(k)fluoranthene	U		0.00263	0.00734	1	09/26/2024 14:02	WG2369748
Chrysene	U		0.00284	0.00734	1	09/26/2024 14:02	WG2369748
Dibenz(a,h)anthracene	U		0.00210	0.00734	1	09/26/2024 14:02	WG2369748
Fluoranthene	U		0.00278	0.00734	1	09/26/2024 14:02	WG2369748
Fluorene	U		0.00251	0.00734	1	09/26/2024 14:02	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00222	0.00734	1	09/26/2024 14:02	WG2369748
Naphthalene	U		0.00499	0.0245	1	09/26/2024 14:02	WG2369748
Phenanthrene	U		0.00283	0.00734	1	09/26/2024 14:02	WG2369748
Pyrene	U		0.00245	0.00734	1	09/26/2024 14:02	WG2369748
1-Methylnaphthalene	U		0.00549	0.0245	1	09/26/2024 14:02	WG2369748
2-Methylnaphthalene	U		0.00523	0.0245	1	09/26/2024 14:02	WG2369748
2-Chloronaphthalene	U		0.00570	0.0245	1	09/26/2024 14:02	WG2369748
(S) p-Terphenyl-d14	82.8			23.0-120		09/26/2024 14:02	WG2369748
(S) Nitrobenzene-d5	97.6			14.0-149		09/26/2024 14:02	WG2369748
(S) 2-Fluorobiphenyl	92.5			34.0-125		09/26/2024 14:02	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.3		1	09/25/2024 08:06	WG2369260

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0213	0.0474	1	09/25/2024 10:56	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	17.7		0.247	0.593	1	09/26/2024 15:42	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0509	0.0698	1	09/24/2024 19:16	WG2368812
Acrylonitrile	U		0.00504	0.0174	1	09/24/2024 19:16	WG2368812
Benzene	U		0.000651	0.00140	1	09/24/2024 19:16	WG2368812
Bromobenzene	U		0.00126	0.0174	1	09/24/2024 19:16	WG2368812
Bromodichloromethane	U		0.00101	0.00349	1	09/24/2024 19:16	WG2368812
Bromoform	U		0.00163	0.0349	1	09/24/2024 19:16	WG2368812
Bromomethane	U		0.00275	0.0174	1	09/24/2024 19:16	WG2368812
n-Butylbenzene	U		0.00732	0.0174	1	09/24/2024 19:16	WG2368812
sec-Butylbenzene	U		0.00402	0.0174	1	09/24/2024 19:16	WG2368812
tert-Butylbenzene	U		0.00272	0.00698	1	09/24/2024 19:16	WG2368812
Carbon tetrachloride	U		0.00125	0.00698	1	09/24/2024 19:16	WG2368812
Chlorobenzene	U		0.000293	0.00349	1	09/24/2024 19:16	WG2368812
Chlorodibromomethane	U		0.000854	0.00349	1	09/24/2024 19:16	WG2368812
Chloroethane	U		0.00237	0.00698	1	09/24/2024 19:16	WG2368812
Chloroform	U		0.00144	0.00349	1	09/24/2024 19:16	WG2368812
Chloromethane	U		0.00607	0.0174	1	09/24/2024 19:16	WG2368812
2-Chlorotoluene	U		0.00121	0.00349	1	09/24/2024 19:16	WG2368812
4-Chlorotoluene	U		0.000628	0.00698	1	09/24/2024 19:16	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00544	0.0349	1	09/24/2024 19:16	WG2368812
1,2-Dibromoethane	U		0.000904	0.00349	1	09/24/2024 19:16	WG2368812
Dibromomethane	U		0.00105	0.00698	1	09/24/2024 19:16	WG2368812
1,2-Dichlorobenzene	U		0.000593	0.00698	1	09/24/2024 19:16	WG2368812
1,3-Dichlorobenzene	U		0.000837	0.00698	1	09/24/2024 19:16	WG2368812
1,4-Dichlorobenzene	U		0.000977	0.00698	1	09/24/2024 19:16	WG2368812
Dichlorodifluoromethane	U		0.00225	0.00698	1	09/24/2024 19:16	WG2368812
1,1-Dichloroethane	U		0.000685	0.00349	1	09/24/2024 19:16	WG2368812
1,2-Dichloroethane	U		0.000905	0.00349	1	09/24/2024 19:16	WG2368812
1,1-Dichloroethene	U		0.000845	0.00349	1	09/24/2024 19:16	WG2368812
cis-1,2-Dichloroethene	U		0.00102	0.00349	1	09/24/2024 19:16	WG2368812
trans-1,2-Dichloroethene	U		0.00145	0.00698	1	09/24/2024 19:16	WG2368812
1,2-Dichloropropane	U		0.00198	0.00698	1	09/24/2024 19:16	WG2368812
1,1-Dichloropropene	U		0.00113	0.00349	1	09/24/2024 19:16	WG2368812
1,3-Dichloropropane	U		0.000699	0.00698	1	09/24/2024 19:16	WG2368812
cis-1,3-Dichloropropene	U		0.00106	0.00349	1	09/24/2024 19:16	WG2368812
trans-1,3-Dichloropropene	U		0.00159	0.00698	1	09/24/2024 19:16	WG2368812
2,2-Dichloropropane	U		0.00193	0.00349	1	09/24/2024 19:16	WG2368812
Di-isopropyl ether	U		0.000572	0.00140	1	09/24/2024 19:16	WG2368812
Ethylbenzene	U		0.00103	0.00349	1	09/24/2024 19:16	WG2368812
Hexachloro-1,3-butadiene	U		0.00837	0.0349	1	09/24/2024 19:16	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000593	0.00349	1	09/24/2024 19:16	WG2368812
p-Isopropyltoluene	U		0.00356	0.00698	1	09/24/2024 19:16	WG2368812
2-Butanone (MEK)	U		0.0886	0.140	1	09/24/2024 19:16	WG2368812
Methylene Chloride	U		0.00926	0.0349	1	09/24/2024 19:16	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00318	0.0349	1	09/24/2024 19:16	WG2368812
Methyl tert-butyl ether	U		0.000488	0.00140	1	09/24/2024 19:16	WG2368812
Naphthalene	U	C3 J4	0.00681	0.0174	1	09/24/2024 19:16	WG2368812
n-Propylbenzene	U		0.00133	0.00698	1	09/24/2024 19:16	WG2368812
Styrene	U		0.000319	0.0174	1	09/24/2024 19:16	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00132	0.00349	1	09/24/2024 19:16	WG2368812
1,1,2,2-Tetrachloroethane	U		0.000970	0.00349	1	09/24/2024 19:16	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00105	0.00349	1	09/24/2024 19:16	WG2368812
Tetrachloroethene	U		0.00125	0.00349	1	09/24/2024 19:16	WG2368812
Toluene	U		0.00181	0.00698	1	09/24/2024 19:16	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0102	0.0174	1	09/24/2024 19:16	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00614	0.0174	1	09/24/2024 19:16	WG2368812
1,1,1-Trichloroethane	U		0.00129	0.00349	1	09/24/2024 19:16	WG2368812
1,1,2-Trichloroethane	U		0.000833	0.00349	1	09/24/2024 19:16	WG2368812
Trichloroethene	U		0.000815	0.00140	1	09/24/2024 19:16	WG2368812
Trichlorofluoromethane	U		0.00115	0.00349	1	09/24/2024 19:16	WG2368812
1,2,3-Trichloropropane	U		0.00226	0.0174	1	09/24/2024 19:16	WG2368812
1,2,4-Trimethylbenzene	U		0.00220	0.00698	1	09/24/2024 19:16	WG2368812
1,2,3-Trimethylbenzene	U		0.00220	0.00698	1	09/24/2024 19:16	WG2368812
1,3,5-Trimethylbenzene	U		0.00279	0.00698	1	09/24/2024 19:16	WG2368812
Vinyl chloride	U		0.00162	0.00349	1	09/24/2024 19:16	WG2368812
Xylenes, Total	U		0.00123	0.00907	1	09/24/2024 19:16	WG2368812
(S) Toluene-d8	99.2			75.0-131		09/24/2024 19:16	WG2368812
(S) 4-Bromofluorobenzene	104			67.0-138		09/24/2024 19:16	WG2368812
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/24/2024 19:16	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	44.1		1.58	4.74	1	09/26/2024 07:53	WG2369791
Residual Range Organics (RRO)	123		3.95	11.9	1	09/26/2024 07:53	WG2369791
(S) o-Terphenyl	42.2			18.0-148		09/26/2024 07:53	WG2369791

Sample Narrative:
L1780967-03 WG2369791: Sample resembles laboratory standards for Hydraulic Oil and Hydraulic Fluid.

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		0.0140	0.0403	1	09/26/2024 04:27	WG2369774
PCB 1221	U		0.0140	0.0403	1	09/26/2024 04:27	WG2369774
PCB 1232	U		0.0140	0.0403	1	09/26/2024 04:27	WG2369774
PCB 1242	U		0.0140	0.0403	1	09/26/2024 04:27	WG2369774
PCB 1248	U		0.00875	0.0202	1	09/26/2024 04:27	WG2369774
PCB 1254	U		0.00875	0.0202	1	09/26/2024 04:27	WG2369774
PCB 1260	U		0.00875	0.0202	1	09/26/2024 04:27	WG2369774
(S) Decachlorobiphenyl	57.9			10.0-135		09/26/2024 04:27	WG2369774
(S) Tetrachloro-m-xylene	65.9			10.0-139		09/26/2024 04:27	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00273	0.00711	1	09/26/2024 11:57	WG2369748
Acenaphthene	U		0.00248	0.00711	1	09/26/2024 11:57	WG2369748
Acenaphthylene	U		0.00256	0.00711	1	09/26/2024 11:57	WG2369748
Benzo(a)anthracene	U		0.00205	0.00711	1	09/26/2024 11:57	WG2369748
Benzo(a)pyrene	U		0.00212	0.00711	1	09/26/2024 11:57	WG2369748
Benzo(b)fluoranthene	0.00283	U	0.00181	0.00711	1	09/26/2024 11:57	WG2369748
Benzo(g,h,i)perylene	U		0.00210	0.00711	1	09/26/2024 11:57	WG2369748
Benzo(k)fluoranthene	U		0.00255	0.00711	1	09/26/2024 11:57	WG2369748
Chrysene	U		0.00275	0.00711	1	09/26/2024 11:57	WG2369748
Dibenz(a,h)anthracene	U		0.00204	0.00711	1	09/26/2024 11:57	WG2369748
Fluoranthene	0.00594	U	0.00269	0.00711	1	09/26/2024 11:57	WG2369748
Fluorene	U		0.00243	0.00711	1	09/26/2024 11:57	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00215	0.00711	1	09/26/2024 11:57	WG2369748
Naphthalene	U		0.00484	0.0237	1	09/26/2024 11:57	WG2369748
Phenanthrene	0.00555	U	0.00274	0.00711	1	09/26/2024 11:57	WG2369748
Pyrene	0.00583	U	0.00237	0.00711	1	09/26/2024 11:57	WG2369748
1-Methylnaphthalene	U		0.00532	0.0237	1	09/26/2024 11:57	WG2369748
2-Methylnaphthalene	U		0.00506	0.0237	1	09/26/2024 11:57	WG2369748
2-Chloronaphthalene	U		0.00552	0.0237	1	09/26/2024 11:57	WG2369748
(S) p-Terphenyl-d14	80.5			23.0-120		09/26/2024 11:57	WG2369748
(S) Nitrobenzene-d5	92.0			14.0-149		09/26/2024 11:57	WG2369748
(S) 2-Fluorobiphenyl	90.1			34.0-125		09/26/2024 11:57	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.3		1	09/25/2024 08:06	WG2369260

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0224	0.0498	1	09/25/2024 10:59	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	23.2		0.259	0.623	1	09/26/2024 16:01	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0564	0.0773	1	09/24/2024 19:35	WG2368812
Acrylonitrile	U		0.00558	0.0193	1	09/24/2024 19:35	WG2368812
Benzene	U		0.000722	0.00155	1	09/24/2024 19:35	WG2368812
Bromobenzene	U		0.00139	0.0193	1	09/24/2024 19:35	WG2368812
Bromodichloromethane	U		0.00112	0.00387	1	09/24/2024 19:35	WG2368812
Bromoform	U		0.00181	0.0387	1	09/24/2024 19:35	WG2368812
Bromomethane	U		0.00305	0.0193	1	09/24/2024 19:35	WG2368812
n-Butylbenzene	U		0.00812	0.0193	1	09/24/2024 19:35	WG2368812
sec-Butylbenzene	U		0.00445	0.0193	1	09/24/2024 19:35	WG2368812
tert-Butylbenzene	U		0.00302	0.00773	1	09/24/2024 19:35	WG2368812
Carbon tetrachloride	U		0.00139	0.00773	1	09/24/2024 19:35	WG2368812
Chlorobenzene	U		0.000325	0.00387	1	09/24/2024 19:35	WG2368812
Chlorodibromomethane	U		0.000946	0.00387	1	09/24/2024 19:35	WG2368812
Chloroethane	U		0.00263	0.00773	1	09/24/2024 19:35	WG2368812
Chloroform	U		0.00159	0.00387	1	09/24/2024 19:35	WG2368812
Chloromethane	U		0.00673	0.0193	1	09/24/2024 19:35	WG2368812
2-Chlorotoluene	U		0.00134	0.00387	1	09/24/2024 19:35	WG2368812
4-Chlorotoluene	U		0.000696	0.00773	1	09/24/2024 19:35	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00603	0.0387	1	09/24/2024 19:35	WG2368812
1,2-Dibromoethane	U		0.00100	0.00387	1	09/24/2024 19:35	WG2368812
Dibromomethane	U		0.00116	0.00773	1	09/24/2024 19:35	WG2368812
1,2-Dichlorobenzene	U		0.000657	0.00773	1	09/24/2024 19:35	WG2368812
1,3-Dichlorobenzene	U		0.000928	0.00773	1	09/24/2024 19:35	WG2368812
1,4-Dichlorobenzene	U		0.00108	0.00773	1	09/24/2024 19:35	WG2368812
Dichlorodifluoromethane	U		0.00249	0.00773	1	09/24/2024 19:35	WG2368812
1,1-Dichloroethane	U		0.000759	0.00387	1	09/24/2024 19:35	WG2368812
1,2-Dichloroethane	U		0.00100	0.00387	1	09/24/2024 19:35	WG2368812
1,1-Dichloroethene	U		0.000937	0.00387	1	09/24/2024 19:35	WG2368812
cis-1,2-Dichloroethene	U		0.00113	0.00387	1	09/24/2024 19:35	WG2368812
trans-1,2-Dichloroethene	U		0.00161	0.00773	1	09/24/2024 19:35	WG2368812
1,2-Dichloropropane	U		0.00220	0.00773	1	09/24/2024 19:35	WG2368812
1,1-Dichloropropene	U		0.00125	0.00387	1	09/24/2024 19:35	WG2368812
1,3-Dichloropropane	U		0.000775	0.00773	1	09/24/2024 19:35	WG2368812
cis-1,3-Dichloropropene	U		0.00117	0.00387	1	09/24/2024 19:35	WG2368812
trans-1,3-Dichloropropene	U		0.00176	0.00773	1	09/24/2024 19:35	WG2368812
2,2-Dichloropropane	U		0.00213	0.00387	1	09/24/2024 19:35	WG2368812
Di-isopropyl ether	U		0.000634	0.00155	1	09/24/2024 19:35	WG2368812
Ethylbenzene	U		0.00114	0.00387	1	09/24/2024 19:35	WG2368812
Hexachloro-1,3-butadiene	U		0.00928	0.0387	1	09/24/2024 19:35	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000657	0.00387	1	09/24/2024 19:35	WG2368812
p-Isopropyltoluene	U		0.00394	0.00773	1	09/24/2024 19:35	WG2368812
2-Butanone (MEK)	U		0.0982	0.155	1	09/24/2024 19:35	WG2368812
Methylene Chloride	U		0.0103	0.0387	1	09/24/2024 19:35	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00353	0.0387	1	09/24/2024 19:35	WG2368812
Methyl tert-butyl ether	U		0.000541	0.00155	1	09/24/2024 19:35	WG2368812
Naphthalene	U	C3 J4	0.00755	0.0193	1	09/24/2024 19:35	WG2368812
n-Propylbenzene	U		0.00147	0.00773	1	09/24/2024 19:35	WG2368812
Styrene	U		0.000354	0.0193	1	09/24/2024 19:35	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00147	0.00387	1	09/24/2024 19:35	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00107	0.00387	1	09/24/2024 19:35	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00117	0.00387	1	09/24/2024 19:35	WG2368812
Tetrachloroethene	U		0.00139	0.00387	1	09/24/2024 19:35	WG2368812
Toluene	U		0.00201	0.00773	1	09/24/2024 19:35	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0113	0.0193	1	09/24/2024 19:35	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00680	0.0193	1	09/24/2024 19:35	WG2368812
1,1,1-Trichloroethane	U		0.00143	0.00387	1	09/24/2024 19:35	WG2368812
1,1,2-Trichloroethane	U		0.000923	0.00387	1	09/24/2024 19:35	WG2368812
Trichloroethene	U		0.000903	0.00155	1	09/24/2024 19:35	WG2368812
Trichlorofluoromethane	U		0.00128	0.00387	1	09/24/2024 19:35	WG2368812
1,2,3-Trichloropropane	U		0.00251	0.0193	1	09/24/2024 19:35	WG2368812
1,2,4-Trimethylbenzene	0.0122		0.00244	0.00773	1	09/24/2024 19:35	WG2368812
1,2,3-Trimethylbenzene	0.00336	IJ	0.00244	0.00773	1	09/24/2024 19:35	WG2368812
1,3,5-Trimethylbenzene	0.00472	IJ	0.00309	0.00773	1	09/24/2024 19:35	WG2368812
Vinyl chloride	U		0.00179	0.00387	1	09/24/2024 19:35	WG2368812
Xylenes, Total	U		0.00136	0.0101	1	09/24/2024 19:35	WG2368812
(S) Toluene-d8	97.8			75.0-131		09/24/2024 19:35	WG2368812
(S) 4-Bromofluorobenzene	100			67.0-138		09/24/2024 19:35	WG2368812
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/24/2024 19:35	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.82		1.66	4.98	1	09/26/2024 06:48	WG2369791
Residual Range Organics (RRO)	20.2		4.15	12.5	1	09/26/2024 06:48	WG2369791
(S) o-Terphenyl	50.0			18.0-148		09/26/2024 06:48	WG2369791

Sample Narrative:

L1780967-04 WG2369791: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0147	0.0424	1	09/26/2024 04:56	WG2369774
PCB 1221	U		0.0147	0.0424	1	09/26/2024 04:56	WG2369774
PCB 1232	U		0.0147	0.0424	1	09/26/2024 04:56	WG2369774
PCB 1242	U		0.0147	0.0424	1	09/26/2024 04:56	WG2369774
PCB 1248	U		0.00919	0.0212	1	09/26/2024 04:56	WG2369774
PCB 1254	U		0.00919	0.0212	1	09/26/2024 04:56	WG2369774
PCB 1260	U		0.00919	0.0212	1	09/26/2024 04:56	WG2369774
(S) Decachlorobiphenyl	71.2			10.0-135		09/26/2024 04:56	WG2369774
(S) Tetrachloro-m-xylene	81.2			10.0-139		09/26/2024 04:56	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00286	0.00747	1	09/26/2024 11:39	WG2369748
Acenaphthene	U		0.00260	0.00747	1	09/26/2024 11:39	WG2369748
Acenaphthylene	U		0.00269	0.00747	1	09/26/2024 11:39	WG2369748
Benzo(a)anthracene	U		0.00215	0.00747	1	09/26/2024 11:39	WG2369748
Benzo(a)pyrene	U		0.00223	0.00747	1	09/26/2024 11:39	WG2369748
Benzo(b)fluoranthene	U		0.00191	0.00747	1	09/26/2024 11:39	WG2369748
Benzo(g,h,i)perylene	U		0.00220	0.00747	1	09/26/2024 11:39	WG2369748
Benzo(k)fluoranthene	U		0.00268	0.00747	1	09/26/2024 11:39	WG2369748
Chrysene	U		0.00289	0.00747	1	09/26/2024 11:39	WG2369748
Dibenz(a,h)anthracene	U		0.00214	0.00747	1	09/26/2024 11:39	WG2369748
Fluoranthene	U		0.00283	0.00747	1	09/26/2024 11:39	WG2369748
Fluorene	U		0.00255	0.00747	1	09/26/2024 11:39	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00225	0.00747	1	09/26/2024 11:39	WG2369748
Naphthalene	U		0.00508	0.0249	1	09/26/2024 11:39	WG2369748
Phenanthrene	U		0.00288	0.00747	1	09/26/2024 11:39	WG2369748
Pyrene	U		0.00249	0.00747	1	09/26/2024 11:39	WG2369748
1-Methylnaphthalene	U		0.00559	0.0249	1	09/26/2024 11:39	WG2369748
2-Methylnaphthalene	U		0.00532	0.0249	1	09/26/2024 11:39	WG2369748
2-Chloronaphthalene	U		0.00580	0.0249	1	09/26/2024 11:39	WG2369748
(S) p-Terphenyl-d14	79.9			23.0-120		09/26/2024 11:39	WG2369748
(S) Nitrobenzene-d5	91.5			14.0-149		09/26/2024 11:39	WG2369748
(S) 2-Fluorobiphenyl	92.0			34.0-125		09/26/2024 11:39	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	77.9		1	09/25/2024 08:06	WG2369260

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0231	0.0513	1	09/25/2024 11:07	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	23.7		0.267	0.642	1	09/26/2024 16:09	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0597	0.0818	1	09/24/2024 19:54	WG2368812
Acrylonitrile	U		0.00591	0.0205	1	09/24/2024 19:54	WG2368812
Benzene	U		0.000764	0.00164	1	09/24/2024 19:54	WG2368812
Bromobenzene	U		0.00147	0.0205	1	09/24/2024 19:54	WG2368812
Bromodichloromethane	U		0.00119	0.00409	1	09/24/2024 19:54	WG2368812
Bromoform	U		0.00191	0.0409	1	09/24/2024 19:54	WG2368812
Bromomethane	U		0.00322	0.0205	1	09/24/2024 19:54	WG2368812
n-Butylbenzene	U		0.00859	0.0205	1	09/24/2024 19:54	WG2368812
sec-Butylbenzene	U		0.00471	0.0205	1	09/24/2024 19:54	WG2368812
tert-Butylbenzene	U		0.00319	0.00818	1	09/24/2024 19:54	WG2368812
Carbon tetrachloride	U		0.00147	0.00818	1	09/24/2024 19:54	WG2368812
Chlorobenzene	U		0.000344	0.00409	1	09/24/2024 19:54	WG2368812
Chlorodibromomethane	U		0.00100	0.00409	1	09/24/2024 19:54	WG2368812
Chloroethane	U		0.00278	0.00818	1	09/24/2024 19:54	WG2368812
Chloroform	U		0.00169	0.00409	1	09/24/2024 19:54	WG2368812
Chloromethane	U		0.00712	0.0205	1	09/24/2024 19:54	WG2368812
2-Chlorotoluene	U		0.00142	0.00409	1	09/24/2024 19:54	WG2368812
4-Chlorotoluene	U		0.000736	0.00818	1	09/24/2024 19:54	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0409	1	09/24/2024 19:54	WG2368812
1,2-Dibromoethane	U		0.00106	0.00409	1	09/24/2024 19:54	WG2368812
Dibromomethane	U		0.00123	0.00818	1	09/24/2024 19:54	WG2368812
1,2-Dichlorobenzene	U		0.000695	0.00818	1	09/24/2024 19:54	WG2368812
1,3-Dichlorobenzene	U		0.000982	0.00818	1	09/24/2024 19:54	WG2368812
1,4-Dichlorobenzene	U		0.00115	0.00818	1	09/24/2024 19:54	WG2368812
Dichlorodifluoromethane	U		0.00263	0.00818	1	09/24/2024 19:54	WG2368812
1,1-Dichloroethane	U		0.000803	0.00409	1	09/24/2024 19:54	WG2368812
1,2-Dichloroethane	U		0.00106	0.00409	1	09/24/2024 19:54	WG2368812
1,1-Dichloroethene	U		0.000991	0.00409	1	09/24/2024 19:54	WG2368812
cis-1,2-Dichloroethene	U		0.00120	0.00409	1	09/24/2024 19:54	WG2368812
trans-1,2-Dichloroethene	U		0.00170	0.00818	1	09/24/2024 19:54	WG2368812
1,2-Dichloropropane	U		0.00232	0.00818	1	09/24/2024 19:54	WG2368812
1,1-Dichloropropene	U		0.00132	0.00409	1	09/24/2024 19:54	WG2368812
1,3-Dichloropropane	U		0.000820	0.00818	1	09/24/2024 19:54	WG2368812
cis-1,3-Dichloropropene	U		0.00124	0.00409	1	09/24/2024 19:54	WG2368812
trans-1,3-Dichloropropene	U		0.00187	0.00818	1	09/24/2024 19:54	WG2368812
2,2-Dichloropropane	U		0.00226	0.00409	1	09/24/2024 19:54	WG2368812
Di-isopropyl ether	U		0.000671	0.00164	1	09/24/2024 19:54	WG2368812
Ethylbenzene	U		0.00121	0.00409	1	09/24/2024 19:54	WG2368812
Hexachloro-1,3-butadiene	U		0.00982	0.0409	1	09/24/2024 19:54	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000695	0.00409	1	09/24/2024 19:54	WG2368812
p-Isopropyltoluene	U		0.00417	0.00818	1	09/24/2024 19:54	WG2368812
2-Butanone (MEK)	U		0.104	0.164	1	09/24/2024 19:54	WG2368812
Methylene Chloride	U		0.0109	0.0409	1	09/24/2024 19:54	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00373	0.0409	1	09/24/2024 19:54	WG2368812
Methyl tert-butyl ether	U		0.000573	0.00164	1	09/24/2024 19:54	WG2368812
Naphthalene	U	C3 J4	0.00798	0.0205	1	09/24/2024 19:54	WG2368812
n-Propylbenzene	U		0.00155	0.00818	1	09/24/2024 19:54	WG2368812
Styrene	U		0.000375	0.0205	1	09/24/2024 19:54	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00155	0.00409	1	09/24/2024 19:54	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00114	0.00409	1	09/24/2024 19:54	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00123	0.00409	1	09/24/2024 19:54	WG2368812
Tetrachloroethene	U		0.00147	0.00409	1	09/24/2024 19:54	WG2368812
Toluene	U		0.00213	0.00818	1	09/24/2024 19:54	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0120	0.0205	1	09/24/2024 19:54	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00720	0.0205	1	09/24/2024 19:54	WG2368812
1,1,1-Trichloroethane	U		0.00151	0.00409	1	09/24/2024 19:54	WG2368812
1,1,2-Trichloroethane	U		0.000977	0.00409	1	09/24/2024 19:54	WG2368812
Trichloroethene	U		0.000955	0.00164	1	09/24/2024 19:54	WG2368812
Trichlorofluoromethane	U		0.00135	0.00409	1	09/24/2024 19:54	WG2368812
1,2,3-Trichloropropane	U		0.00265	0.0205	1	09/24/2024 19:54	WG2368812
1,2,4-Trimethylbenzene	U		0.00258	0.00818	1	09/24/2024 19:54	WG2368812
1,2,3-Trimethylbenzene	U		0.00258	0.00818	1	09/24/2024 19:54	WG2368812
1,3,5-Trimethylbenzene	U		0.00327	0.00818	1	09/24/2024 19:54	WG2368812
Vinyl chloride	U		0.00190	0.00409	1	09/24/2024 19:54	WG2368812
Xylenes, Total	U		0.00144	0.0106	1	09/24/2024 19:54	WG2368812
(S) Toluene-d8	96.0			75.0-131		09/24/2024 19:54	WG2368812
(S) 4-Bromofluorobenzene	102			67.0-138		09/24/2024 19:54	WG2368812
(S) 1,2-Dichloroethane-d4	104			70.0-130		09/24/2024 19:54	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	31.2		1.71	5.13	1	09/26/2024 07:14	WG2369791
Residual Range Organics (RRO)	72.8		4.27	12.8	1	09/26/2024 07:14	WG2369791
(S) o-Terphenyl	60.1			18.0-148		09/26/2024 07:14	WG2369791

Sample Narrative:

L1780967-05 WG2369791: Sample resembles laboratory standards for Hydraulic Oil and Hydraulic Fluid.

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		0.0151	0.0436	1	09/26/2024 05:06	WG2369774
PCB 1221	U		0.0151	0.0436	1	09/26/2024 05:06	WG2369774
PCB 1232	U		0.0151	0.0436	1	09/26/2024 05:06	WG2369774
PCB 1242	U		0.0151	0.0436	1	09/26/2024 05:06	WG2369774
PCB 1248	U		0.00947	0.0218	1	09/26/2024 05:06	WG2369774
PCB 1254	U		0.00947	0.0218	1	09/26/2024 05:06	WG2369774
PCB 1260	U		0.00947	0.0218	1	09/26/2024 05:06	WG2369774
(S) Decachlorobiphenyl	53.3			10.0-135		09/26/2024 05:06	WG2369774
(S) Tetrachloro-m-xylene	65.5			10.0-139		09/26/2024 05:06	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00295	0.00770	1	09/26/2024 12:51	WG2369748
Acenaphthene	U		0.00268	0.00770	1	09/26/2024 12:51	WG2369748
Acenaphthylene	U		0.00277	0.00770	1	09/26/2024 12:51	WG2369748
Benzo(a)anthracene	U		0.00222	0.00770	1	09/26/2024 12:51	WG2369748
Benzo(a)pyrene	U		0.00230	0.00770	1	09/26/2024 12:51	WG2369748
Benzo(b)fluoranthene	U		0.00196	0.00770	1	09/26/2024 12:51	WG2369748
Benzo(g,h,i)perylene	U		0.00227	0.00770	1	09/26/2024 12:51	WG2369748
Benzo(k)fluoranthene	U		0.00276	0.00770	1	09/26/2024 12:51	WG2369748
Chrysene	U		0.00298	0.00770	1	09/26/2024 12:51	WG2369748
Dibenz(a,h)anthracene	U		0.00221	0.00770	1	09/26/2024 12:51	WG2369748
Fluoranthene	0.00330	U	0.00291	0.00770	1	09/26/2024 12:51	WG2369748
Fluorene	U		0.00263	0.00770	1	09/26/2024 12:51	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00232	0.00770	1	09/26/2024 12:51	WG2369748
Naphthalene	U		0.00524	0.0257	1	09/26/2024 12:51	WG2369748
Phenanthrene	0.00416	U	0.00297	0.00770	1	09/26/2024 12:51	WG2369748
Pyrene	0.00345	U	0.00257	0.00770	1	09/26/2024 12:51	WG2369748
1-Methylnaphthalene	U		0.00576	0.0257	1	09/26/2024 12:51	WG2369748
2-Methylnaphthalene	U		0.00548	0.0257	1	09/26/2024 12:51	WG2369748
2-Chloronaphthalene	U		0.00598	0.0257	1	09/26/2024 12:51	WG2369748
(S) p-Terphenyl-d14	92.8			23.0-120		09/26/2024 12:51	WG2369748
(S) Nitrobenzene-d5	107			14.0-149		09/26/2024 12:51	WG2369748
(S) 2-Fluorobiphenyl	105			34.0-125		09/26/2024 12:51	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.9		1	09/25/2024 10:01	WG2369261

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0210	0.0466	1	09/25/2024 11:09	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	17.1		0.242	0.582	1	09/26/2024 16:12	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0498	0.0682	1	09/24/2024 20:13	WG2368812
Acrylonitrile	U		0.00493	0.0171	1	09/24/2024 20:13	WG2368812
Benzene	U		0.000637	0.00136	1	09/24/2024 20:13	WG2368812
Bromobenzene	U		0.00123	0.0171	1	09/24/2024 20:13	WG2368812
Bromodichloromethane	U		0.000989	0.00341	1	09/24/2024 20:13	WG2368812
Bromoform	U		0.00160	0.0341	1	09/24/2024 20:13	WG2368812
Bromomethane	U		0.00269	0.0171	1	09/24/2024 20:13	WG2368812
n-Butylbenzene	U		0.00716	0.0171	1	09/24/2024 20:13	WG2368812
sec-Butylbenzene	U		0.00393	0.0171	1	09/24/2024 20:13	WG2368812
tert-Butylbenzene	U		0.00266	0.00682	1	09/24/2024 20:13	WG2368812
Carbon tetrachloride	U		0.00123	0.00682	1	09/24/2024 20:13	WG2368812
Chlorobenzene	U		0.000287	0.00341	1	09/24/2024 20:13	WG2368812
Chlorodibromomethane	U		0.000835	0.00341	1	09/24/2024 20:13	WG2368812
Chloroethane	U		0.00232	0.00682	1	09/24/2024 20:13	WG2368812
Chloroform	U		0.00141	0.00341	1	09/24/2024 20:13	WG2368812
Chloromethane	U		0.00594	0.0171	1	09/24/2024 20:13	WG2368812
2-Chlorotoluene	U		0.00118	0.00341	1	09/24/2024 20:13	WG2368812
4-Chlorotoluene	U		0.000614	0.00682	1	09/24/2024 20:13	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00532	0.0341	1	09/24/2024 20:13	WG2368812
1,2-Dibromoethane	U		0.000884	0.00341	1	09/24/2024 20:13	WG2368812
Dibromomethane	U		0.00102	0.00682	1	09/24/2024 20:13	WG2368812
1,2-Dichlorobenzene	U		0.000580	0.00682	1	09/24/2024 20:13	WG2368812
1,3-Dichlorobenzene	U		0.000819	0.00682	1	09/24/2024 20:13	WG2368812
1,4-Dichlorobenzene	U		0.000955	0.00682	1	09/24/2024 20:13	WG2368812
Dichlorodifluoromethane	U		0.00220	0.00682	1	09/24/2024 20:13	WG2368812
1,1-Dichloroethane	U		0.000670	0.00341	1	09/24/2024 20:13	WG2368812
1,2-Dichloroethane	U		0.000886	0.00341	1	09/24/2024 20:13	WG2368812
1,1-Dichloroethene	U		0.000827	0.00341	1	09/24/2024 20:13	WG2368812
cis-1,2-Dichloroethene	U		0.00100	0.00341	1	09/24/2024 20:13	WG2368812
trans-1,2-Dichloroethene	U		0.00142	0.00682	1	09/24/2024 20:13	WG2368812
1,2-Dichloropropane	U		0.00194	0.00682	1	09/24/2024 20:13	WG2368812
1,1-Dichloropropene	U		0.00110	0.00341	1	09/24/2024 20:13	WG2368812
1,3-Dichloropropane	U		0.000684	0.00682	1	09/24/2024 20:13	WG2368812
cis-1,3-Dichloropropene	U		0.00103	0.00341	1	09/24/2024 20:13	WG2368812
trans-1,3-Dichloropropene	U		0.00156	0.00682	1	09/24/2024 20:13	WG2368812
2,2-Dichloropropane	U		0.00188	0.00341	1	09/24/2024 20:13	WG2368812
Di-isopropyl ether	U		0.000559	0.00136	1	09/24/2024 20:13	WG2368812
Ethylbenzene	U		0.00101	0.00341	1	09/24/2024 20:13	WG2368812
Hexachloro-1,3-butadiene	U		0.00819	0.0341	1	09/24/2024 20:13	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000580	0.00341	1	09/24/2024 20:13	WG2368812
p-Isopropyltoluene	U		0.00348	0.00682	1	09/24/2024 20:13	WG2368812
2-Butanone (MEK)	U		0.0866	0.136	1	09/24/2024 20:13	WG2368812
Methylene Chloride	U		0.00906	0.0341	1	09/24/2024 20:13	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00311	0.0341	1	09/24/2024 20:13	WG2368812
Methyl tert-butyl ether	U		0.000478	0.00136	1	09/24/2024 20:13	WG2368812
Naphthalene	U	C3 J4	0.00666	0.0171	1	09/24/2024 20:13	WG2368812
n-Propylbenzene	U		0.00130	0.00682	1	09/24/2024 20:13	WG2368812
Styrene	U		0.000312	0.0171	1	09/24/2024 20:13	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00129	0.00341	1	09/24/2024 20:13	WG2368812
1,1,2,2-Tetrachloroethane	U		0.000948	0.00341	1	09/24/2024 20:13	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00341	1	09/24/2024 20:13	WG2368812
Tetrachloroethene	U		0.00122	0.00341	1	09/24/2024 20:13	WG2368812
Toluene	0.00341	U	0.00177	0.00682	1	09/24/2024 20:13	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0100	0.0171	1	09/24/2024 20:13	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00600	0.0171	1	09/24/2024 20:13	WG2368812
1,1,1-Trichloroethane	U		0.00126	0.00341	1	09/24/2024 20:13	WG2368812
1,1,2-Trichloroethane	U		0.000815	0.00341	1	09/24/2024 20:13	WG2368812
Trichloroethene	U		0.000797	0.00136	1	09/24/2024 20:13	WG2368812
Trichlorofluoromethane	U		0.00113	0.00341	1	09/24/2024 20:13	WG2368812
1,2,3-Trichloropropane	U		0.00221	0.0171	1	09/24/2024 20:13	WG2368812
1,2,4-Trimethylbenzene	U		0.00216	0.00682	1	09/24/2024 20:13	WG2368812
1,2,3-Trimethylbenzene	U		0.00216	0.00682	1	09/24/2024 20:13	WG2368812
1,3,5-Trimethylbenzene	U		0.00273	0.00682	1	09/24/2024 20:13	WG2368812
Vinyl chloride	U		0.00158	0.00341	1	09/24/2024 20:13	WG2368812
Xylenes, Total	0.00143	U	0.00120	0.00887	1	09/24/2024 20:13	WG2368812
(S) Toluene-d8	96.6			75.0-131		09/24/2024 20:13	WG2368812
(S) 4-Bromofluorobenzene	98.3			67.0-138		09/24/2024 20:13	WG2368812
(S) 1,2-Dichloroethane-d4	101			70.0-130		09/24/2024 20:13	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	14.0		1.55	4.66	1	09/26/2024 07:27	WG2369791
Residual Range Organics (RRO)	62.7		3.88	11.6	1	09/26/2024 07:27	WG2369791
(S) o-Terphenyl	62.0			18.0-148		09/26/2024 07:27	WG2369791

Sample Narrative:

L1780967-06 WG2369791: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0137	0.0396	1	09/26/2024 05:15	WG2369774
PCB 1221	U		0.0137	0.0396	1	09/26/2024 05:15	WG2369774
PCB 1232	U		0.0137	0.0396	1	09/26/2024 05:15	WG2369774
PCB 1242	U		0.0137	0.0396	1	09/26/2024 05:15	WG2369774
PCB 1248	U		0.00859	0.0198	1	09/26/2024 05:15	WG2369774
PCB 1254	U		0.00859	0.0198	1	09/26/2024 05:15	WG2369774
PCB 1260	U		0.00859	0.0198	1	09/26/2024 05:15	WG2369774
(S) Decachlorobiphenyl	68.1			10.0-135		09/26/2024 05:15	WG2369774
(S) Tetrachloro-m-xylene	81.2			10.0-139		09/26/2024 05:15	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00268	0.00699	1	09/26/2024 13:45	WG2369748
Acenaphthene	U		0.00243	0.00699	1	09/26/2024 13:45	WG2369748
Acenaphthylene	U		0.00252	0.00699	1	09/26/2024 13:45	WG2369748
Benzo(a)anthracene	U		0.00201	0.00699	1	09/26/2024 13:45	WG2369748
Benzo(a)pyrene	U		0.00208	0.00699	1	09/26/2024 13:45	WG2369748
Benzo(b)fluoranthene	0.00222	L	0.00178	0.00699	1	09/26/2024 13:45	WG2369748
Benzo(g,h,i)perylene	U		0.00206	0.00699	1	09/26/2024 13:45	WG2369748
Benzo(k)fluoranthene	U		0.00250	0.00699	1	09/26/2024 13:45	WG2369748
Chrysene	U		0.00270	0.00699	1	09/26/2024 13:45	WG2369748
Dibenz(a,h)anthracene	U		0.00200	0.00699	1	09/26/2024 13:45	WG2369748
Fluoranthene	0.00472	L	0.00264	0.00699	1	09/26/2024 13:45	WG2369748
Fluorene	U		0.00239	0.00699	1	09/26/2024 13:45	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00211	0.00699	1	09/26/2024 13:45	WG2369748
Naphthalene	0.0411		0.00475	0.0233	1	09/26/2024 13:45	WG2369748
Phenanthrene	0.00467	L	0.00269	0.00699	1	09/26/2024 13:45	WG2369748
Pyrene	0.00487	L	0.00233	0.00699	1	09/26/2024 13:45	WG2369748
1-Methylnaphthalene	0.0189	L	0.00523	0.0233	1	09/26/2024 13:45	WG2369748
2-Methylnaphthalene	0.0569		0.00497	0.0233	1	09/26/2024 13:45	WG2369748
2-Chloronaphthalene	U		0.00543	0.0233	1	09/26/2024 13:45	WG2369748
(S) p-Terphenyl-d14	99.1			23.0-120		09/26/2024 13:45	WG2369748
(S) Nitrobenzene-d5	115			14.0-149		09/26/2024 13:45	WG2369748
(S) 2-Fluorobiphenyl	110			34.0-125		09/26/2024 13:45	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	72.4		1	09/25/2024 10:01	WG2369261

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0249	0.0553	1	09/25/2024 11:12	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	13.2		0.287	0.691	1	09/26/2024 16:15	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0668	0.0915	1	09/24/2024 20:32	WG2368812
Acrylonitrile	U		0.00660	0.0229	1	09/24/2024 20:32	WG2368812
Benzene	U		0.000854	0.00183	1	09/24/2024 20:32	WG2368812
Bromobenzene	U		0.00165	0.0229	1	09/24/2024 20:32	WG2368812
Bromodichloromethane	U		0.00133	0.00457	1	09/24/2024 20:32	WG2368812
Bromoform	U		0.00214	0.0457	1	09/24/2024 20:32	WG2368812
Bromomethane	U		0.00360	0.0229	1	09/24/2024 20:32	WG2368812
n-Butylbenzene	U		0.00960	0.0229	1	09/24/2024 20:32	WG2368812
sec-Butylbenzene	U		0.00527	0.0229	1	09/24/2024 20:32	WG2368812
tert-Butylbenzene	U		0.00357	0.00915	1	09/24/2024 20:32	WG2368812
Carbon tetrachloride	U		0.00164	0.00915	1	09/24/2024 20:32	WG2368812
Chlorobenzene	U		0.000384	0.00457	1	09/24/2024 20:32	WG2368812
Chlorodibromomethane	U		0.00112	0.00457	1	09/24/2024 20:32	WG2368812
Chloroethane	U		0.00311	0.00915	1	09/24/2024 20:32	WG2368812
Chloroform	U		0.00188	0.00457	1	09/24/2024 20:32	WG2368812
Chloromethane	U		0.00796	0.0229	1	09/24/2024 20:32	WG2368812
2-Chlorotoluene	U		0.00158	0.00457	1	09/24/2024 20:32	WG2368812
4-Chlorotoluene	U		0.000823	0.00915	1	09/24/2024 20:32	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00713	0.0457	1	09/24/2024 20:32	WG2368812
1,2-Dibromoethane	U		0.00119	0.00457	1	09/24/2024 20:32	WG2368812
Dibromomethane	U		0.00137	0.00915	1	09/24/2024 20:32	WG2368812
1,2-Dichlorobenzene	U		0.000777	0.00915	1	09/24/2024 20:32	WG2368812
1,3-Dichlorobenzene	U		0.00110	0.00915	1	09/24/2024 20:32	WG2368812
1,4-Dichlorobenzene	U		0.00128	0.00915	1	09/24/2024 20:32	WG2368812
Dichlorodifluoromethane	U		0.00295	0.00915	1	09/24/2024 20:32	WG2368812
1,1-Dichloroethane	U		0.000898	0.00457	1	09/24/2024 20:32	WG2368812
1,2-Dichloroethane	U		0.00119	0.00457	1	09/24/2024 20:32	WG2368812
1,1-Dichloroethene	U		0.00111	0.00457	1	09/24/2024 20:32	WG2368812
cis-1,2-Dichloroethene	U		0.00134	0.00457	1	09/24/2024 20:32	WG2368812
trans-1,2-Dichloroethene	U		0.00190	0.00915	1	09/24/2024 20:32	WG2368812
1,2-Dichloropropane	U		0.00260	0.00915	1	09/24/2024 20:32	WG2368812
1,1-Dichloropropene	U		0.00148	0.00457	1	09/24/2024 20:32	WG2368812
1,3-Dichloropropane	U		0.000916	0.00915	1	09/24/2024 20:32	WG2368812
cis-1,3-Dichloropropene	U		0.00138	0.00457	1	09/24/2024 20:32	WG2368812
trans-1,3-Dichloropropene	U		0.00209	0.00915	1	09/24/2024 20:32	WG2368812
2,2-Dichloropropane	U		0.00252	0.00457	1	09/24/2024 20:32	WG2368812
Di-isopropyl ether	U		0.000750	0.00183	1	09/24/2024 20:32	WG2368812
Ethylbenzene	U		0.00135	0.00457	1	09/24/2024 20:32	WG2368812
Hexachloro-1,3-butadiene	U		0.0110	0.0457	1	09/24/2024 20:32	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000777	0.00457	1	09/24/2024 20:32	WG2368812
p-Isopropyltoluene	U		0.00466	0.00915	1	09/24/2024 20:32	WG2368812
2-Butanone (MEK)	U		0.116	0.183	1	09/24/2024 20:32	WG2368812
Methylene Chloride	U		0.0121	0.0457	1	09/24/2024 20:32	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00417	0.0457	1	09/24/2024 20:32	WG2368812
Methyl tert-butyl ether	U		0.000640	0.00183	1	09/24/2024 20:32	WG2368812
Naphthalene	U	C3 J4	0.00893	0.0229	1	09/24/2024 20:32	WG2368812
n-Propylbenzene	U		0.00174	0.00915	1	09/24/2024 20:32	WG2368812
Styrene	U		0.000419	0.0229	1	09/24/2024 20:32	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00173	0.00457	1	09/24/2024 20:32	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00127	0.00457	1	09/24/2024 20:32	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00138	0.00457	1	09/24/2024 20:32	WG2368812
Tetrachloroethene	U		0.00164	0.00457	1	09/24/2024 20:32	WG2368812
Toluene	U		0.00238	0.00915	1	09/24/2024 20:32	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0134	0.0229	1	09/24/2024 20:32	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00805	0.0229	1	09/24/2024 20:32	WG2368812
1,1,1-Trichloroethane	U		0.00169	0.00457	1	09/24/2024 20:32	WG2368812
1,1,2-Trichloroethane	U		0.00109	0.00457	1	09/24/2024 20:32	WG2368812
Trichloroethene	U		0.00107	0.00183	1	09/24/2024 20:32	WG2368812
Trichlorofluoromethane	U		0.00151	0.00457	1	09/24/2024 20:32	WG2368812
1,2,3-Trichloropropane	U		0.00296	0.0229	1	09/24/2024 20:32	WG2368812
1,2,4-Trimethylbenzene	U		0.00289	0.00915	1	09/24/2024 20:32	WG2368812
1,2,3-Trimethylbenzene	U		0.00289	0.00915	1	09/24/2024 20:32	WG2368812
1,3,5-Trimethylbenzene	U		0.00366	0.00915	1	09/24/2024 20:32	WG2368812
Vinyl chloride	U		0.00212	0.00457	1	09/24/2024 20:32	WG2368812
Xylenes, Total	U		0.00161	0.0119	1	09/24/2024 20:32	WG2368812
(S) Toluene-d8	97.1			75.0-131		09/24/2024 20:32	WG2368812
(S) 4-Bromofluorobenzene	98.4			67.0-138		09/24/2024 20:32	WG2368812
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		09/24/2024 20:32	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.91		1.84	5.53	1	09/26/2024 07:01	WG2369791
Residual Range Organics (RRO)	U		4.60	13.8	1	09/26/2024 07:01	WG2369791
(S) o-Terphenyl	51.1			18.0-148		09/26/2024 07:01	WG2369791

Sample Narrative:

L1780967-07 WG2369791: Sample does not resemble laboratory standards.

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		0.0163	0.0470	1	09/26/2024 05:25	WG2369774
PCB 1221	U		0.0163	0.0470	1	09/26/2024 05:25	WG2369774
PCB 1232	U		0.0163	0.0470	1	09/26/2024 05:25	WG2369774
PCB 1242	U		0.0163	0.0470	1	09/26/2024 05:25	WG2369774
PCB 1248	U		0.0102	0.0235	1	09/26/2024 05:25	WG2369774
PCB 1254	U		0.0102	0.0235	1	09/26/2024 05:25	WG2369774
PCB 1260	U		0.0102	0.0235	1	09/26/2024 05:25	WG2369774
(S) Decachlorobiphenyl	72.8			10.0-135		09/26/2024 05:25	WG2369774
(S) Tetrachloro-m-xylene	92.4			10.0-139		09/26/2024 05:25	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00318	0.00829	1	09/26/2024 12:33	WG2369748
Acenaphthene	U		0.00289	0.00829	1	09/26/2024 12:33	WG2369748
Acenaphthylene	U		0.00298	0.00829	1	09/26/2024 12:33	WG2369748
Benzo(a)anthracene	U		0.00239	0.00829	1	09/26/2024 12:33	WG2369748
Benzo(a)pyrene	U		0.00247	0.00829	1	09/26/2024 12:33	WG2369748
Benzo(b)fluoranthene	U		0.00211	0.00829	1	09/26/2024 12:33	WG2369748
Benzo(g,h,i)perylene	U		0.00245	0.00829	1	09/26/2024 12:33	WG2369748
Benzo(k)fluoranthene	U		0.00297	0.00829	1	09/26/2024 12:33	WG2369748
Chrysene	U		0.00321	0.00829	1	09/26/2024 12:33	WG2369748
Dibenz(a,h)anthracene	U		0.00238	0.00829	1	09/26/2024 12:33	WG2369748
Fluoranthene	U		0.00314	0.00829	1	09/26/2024 12:33	WG2369748
Fluorene	U		0.00283	0.00829	1	09/26/2024 12:33	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00250	0.00829	1	09/26/2024 12:33	WG2369748
Naphthalene	U		0.00564	0.0276	1	09/26/2024 12:33	WG2369748
Phenanthrene	U		0.00319	0.00829	1	09/26/2024 12:33	WG2369748
Pyrene	U		0.00276	0.00829	1	09/26/2024 12:33	WG2369748
1-Methylnaphthalene	U		0.00620	0.0276	1	09/26/2024 12:33	WG2369748
2-Methylnaphthalene	0.0133	U	0.00590	0.0276	1	09/26/2024 12:33	WG2369748
2-Chloronaphthalene	U		0.00644	0.0276	1	09/26/2024 12:33	WG2369748
(S) p-Terphenyl-d14	91.8			23.0-120		09/26/2024 12:33	WG2369748
(S) Nitrobenzene-d5	105			14.0-149		09/26/2024 12:33	WG2369748
(S) 2-Fluorobiphenyl	105			34.0-125		09/26/2024 12:33	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	74.0		1	09/25/2024 10:01	WG2369261

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0243	0.0541	1	09/25/2024 11:15	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.0		0.281	0.676	1	09/26/2024 16:17	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0622	0.0852	1	09/24/2024 20:51	WG2368812
Acrylonitrile	U		0.00615	0.0213	1	09/24/2024 20:51	WG2368812
Benzene	U		0.000796	0.00170	1	09/24/2024 20:51	WG2368812
Bromobenzene	U		0.00153	0.0213	1	09/24/2024 20:51	WG2368812
Bromodichloromethane	U		0.00124	0.00426	1	09/24/2024 20:51	WG2368812
Bromoform	U		0.00199	0.0426	1	09/24/2024 20:51	WG2368812
Bromomethane	U		0.00336	0.0213	1	09/24/2024 20:51	WG2368812
n-Butylbenzene	U		0.00895	0.0213	1	09/24/2024 20:51	WG2368812
sec-Butylbenzene	U		0.00491	0.0213	1	09/24/2024 20:51	WG2368812
tert-Butylbenzene	U		0.00332	0.00852	1	09/24/2024 20:51	WG2368812
Carbon tetrachloride	U		0.00153	0.00852	1	09/24/2024 20:51	WG2368812
Chlorobenzene	U		0.000358	0.00426	1	09/24/2024 20:51	WG2368812
Chlorodibromomethane	U		0.00104	0.00426	1	09/24/2024 20:51	WG2368812
Chloroethane	U		0.00290	0.00852	1	09/24/2024 20:51	WG2368812
Chloroform	U		0.00176	0.00426	1	09/24/2024 20:51	WG2368812
Chloromethane	U		0.00741	0.0213	1	09/24/2024 20:51	WG2368812
2-Chlorotoluene	U		0.00147	0.00426	1	09/24/2024 20:51	WG2368812
4-Chlorotoluene	U		0.000767	0.00852	1	09/24/2024 20:51	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00665	0.0426	1	09/24/2024 20:51	WG2368812
1,2-Dibromoethane	U		0.00110	0.00426	1	09/24/2024 20:51	WG2368812
Dibromomethane	U		0.00128	0.00852	1	09/24/2024 20:51	WG2368812
1,2-Dichlorobenzene	U		0.000724	0.00852	1	09/24/2024 20:51	WG2368812
1,3-Dichlorobenzene	U		0.00102	0.00852	1	09/24/2024 20:51	WG2368812
1,4-Dichlorobenzene	U		0.00119	0.00852	1	09/24/2024 20:51	WG2368812
Dichlorodifluoromethane	U		0.00274	0.00852	1	09/24/2024 20:51	WG2368812
1,1-Dichloroethane	U		0.000837	0.00426	1	09/24/2024 20:51	WG2368812
1,2-Dichloroethane	U		0.00111	0.00426	1	09/24/2024 20:51	WG2368812
1,1-Dichloroethene	U		0.00103	0.00426	1	09/24/2024 20:51	WG2368812
cis-1,2-Dichloroethene	U		0.00125	0.00426	1	09/24/2024 20:51	WG2368812
trans-1,2-Dichloroethene	U		0.00177	0.00852	1	09/24/2024 20:51	WG2368812
1,2-Dichloropropane	U		0.00242	0.00852	1	09/24/2024 20:51	WG2368812
1,1-Dichloropropene	U		0.00138	0.00426	1	09/24/2024 20:51	WG2368812
1,3-Dichloropropane	U		0.000854	0.00852	1	09/24/2024 20:51	WG2368812
cis-1,3-Dichloropropene	U		0.00129	0.00426	1	09/24/2024 20:51	WG2368812
trans-1,3-Dichloropropene	U		0.00194	0.00852	1	09/24/2024 20:51	WG2368812
2,2-Dichloropropane	U		0.00235	0.00426	1	09/24/2024 20:51	WG2368812
Di-isopropyl ether	U		0.000699	0.00170	1	09/24/2024 20:51	WG2368812
Ethylbenzene	U		0.00126	0.00426	1	09/24/2024 20:51	WG2368812
Hexachloro-1,3-butadiene	U		0.0102	0.0426	1	09/24/2024 20:51	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000724	0.00426	1	09/24/2024 20:51	WG2368812
p-Isopropyltoluene	U		0.00435	0.00852	1	09/24/2024 20:51	WG2368812
2-Butanone (MEK)	U		0.108	0.170	1	09/24/2024 20:51	WG2368812
Methylene Chloride	U		0.0113	0.0426	1	09/24/2024 20:51	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00389	0.0426	1	09/24/2024 20:51	WG2368812
Methyl tert-butyl ether	U		0.000596	0.00170	1	09/24/2024 20:51	WG2368812
Naphthalene	U	C3 J4	0.00832	0.0213	1	09/24/2024 20:51	WG2368812
n-Propylbenzene	U		0.00162	0.00852	1	09/24/2024 20:51	WG2368812
Styrene	U		0.000390	0.0213	1	09/24/2024 20:51	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00162	0.00426	1	09/24/2024 20:51	WG2368812
1,1,2,2-Tetrachloroethane	U		0.00118	0.00426	1	09/24/2024 20:51	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00128	0.00426	1	09/24/2024 20:51	WG2368812
Tetrachloroethene	U		0.00153	0.00426	1	09/24/2024 20:51	WG2368812
Toluene	U		0.00222	0.00852	1	09/24/2024 20:51	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0125	0.0213	1	09/24/2024 20:51	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00750	0.0213	1	09/24/2024 20:51	WG2368812
1,1,1-Trichloroethane	U		0.00157	0.00426	1	09/24/2024 20:51	WG2368812
1,1,2-Trichloroethane	U		0.00102	0.00426	1	09/24/2024 20:51	WG2368812
Trichloroethene	U		0.000995	0.00170	1	09/24/2024 20:51	WG2368812
Trichlorofluoromethane	U		0.00141	0.00426	1	09/24/2024 20:51	WG2368812
1,2,3-Trichloropropane	U		0.00276	0.0213	1	09/24/2024 20:51	WG2368812
1,2,4-Trimethylbenzene	U		0.00269	0.00852	1	09/24/2024 20:51	WG2368812
1,2,3-Trimethylbenzene	U		0.00269	0.00852	1	09/24/2024 20:51	WG2368812
1,3,5-Trimethylbenzene	U		0.00341	0.00852	1	09/24/2024 20:51	WG2368812
Vinyl chloride	U		0.00198	0.00426	1	09/24/2024 20:51	WG2368812
Xylenes, Total	U		0.00150	0.0111	1	09/24/2024 20:51	WG2368812
(S) Toluene-d8	95.5			75.0-131		09/24/2024 20:51	WG2368812
(S) 4-Bromofluorobenzene	98.0			67.0-138		09/24/2024 20:51	WG2368812
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		09/24/2024 20:51	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.80	5.41	1	09/26/2024 06:35	WG2369791
Residual Range Organics (RRO)	U		4.50	13.5	1	09/26/2024 06:35	WG2369791
(S) o-Terphenyl	63.0			18.0-148		09/26/2024 06:35	WG2369791

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		0.0160	0.0460	1	09/26/2024 05:34	WG2369774
PCB 1221	U		0.0160	0.0460	1	09/26/2024 05:34	WG2369774
PCB 1232	U		0.0160	0.0460	1	09/26/2024 05:34	WG2369774
PCB 1242	U		0.0160	0.0460	1	09/26/2024 05:34	WG2369774
PCB 1248	U		0.00998	0.0230	1	09/26/2024 05:34	WG2369774
PCB 1254	U		0.00998	0.0230	1	09/26/2024 05:34	WG2369774
PCB 1260	U		0.00998	0.0230	1	09/26/2024 05:34	WG2369774
(S) Decachlorobiphenyl	90.4			10.0-135		09/26/2024 05:34	WG2369774
(S) Tetrachloro-m-xylene	104			10.0-139		09/26/2024 05:34	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00311	0.00811	1	09/26/2024 12:15	WG2369748
Acenaphthene	U		0.00283	0.00811	1	09/26/2024 12:15	WG2369748
Acenaphthylene	U		0.00292	0.00811	1	09/26/2024 12:15	WG2369748
Benzo(a)anthracene	U		0.00234	0.00811	1	09/26/2024 12:15	WG2369748
Benzo(a)pyrene	U		0.00242	0.00811	1	09/26/2024 12:15	WG2369748
Benzo(b)fluoranthene	U		0.00207	0.00811	1	09/26/2024 12:15	WG2369748
Benzo(g,h,i)perylene	U		0.00239	0.00811	1	09/26/2024 12:15	WG2369748
Benzo(k)fluoranthene	U		0.00291	0.00811	1	09/26/2024 12:15	WG2369748
Chrysene	U		0.00314	0.00811	1	09/26/2024 12:15	WG2369748
Dibenz(a,h)anthracene	U		0.00233	0.00811	1	09/26/2024 12:15	WG2369748
Fluoranthene	U		0.00307	0.00811	1	09/26/2024 12:15	WG2369748
Fluorene	U		0.00277	0.00811	1	09/26/2024 12:15	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00245	0.00811	1	09/26/2024 12:15	WG2369748
Naphthalene	U		0.00552	0.0270	1	09/26/2024 12:15	WG2369748
Phenanthrene	U		0.00312	0.00811	1	09/26/2024 12:15	WG2369748
Pyrene	U		0.00270	0.00811	1	09/26/2024 12:15	WG2369748
1-Methylnaphthalene	U		0.00607	0.0270	1	09/26/2024 12:15	WG2369748
2-Methylnaphthalene	U		0.00577	0.0270	1	09/26/2024 12:15	WG2369748
2-Chloronaphthalene	U		0.00630	0.0270	1	09/26/2024 12:15	WG2369748
(S) p-Terphenyl-d14	98.0			23.0-120		09/26/2024 12:15	WG2369748
(S) Nitrobenzene-d5	113			14.0-149		09/26/2024 12:15	WG2369748
(S) 2-Fluorobiphenyl	112			34.0-125		09/26/2024 12:15	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.6		1	09/25/2024 10:01	WG2369261

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0210	0.0467	1	09/25/2024 11:17	WG2368971

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	16.8		0.243	0.584	1	09/26/2024 16:20	WG2370197

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0501	0.0686	1	09/24/2024 21:10	WG2368812
Acrylonitrile	U		0.00495	0.0171	1	09/24/2024 21:10	WG2368812
Benzene	U		0.000640	0.00137	1	09/24/2024 21:10	WG2368812
Bromobenzene	U		0.00123	0.0171	1	09/24/2024 21:10	WG2368812
Bromodichloromethane	U		0.000994	0.00343	1	09/24/2024 21:10	WG2368812
Bromoform	U		0.00160	0.0343	1	09/24/2024 21:10	WG2368812
Bromomethane	U		0.00270	0.0171	1	09/24/2024 21:10	WG2368812
n-Butylbenzene	U		0.00720	0.0171	1	09/24/2024 21:10	WG2368812
sec-Butylbenzene	U		0.00395	0.0171	1	09/24/2024 21:10	WG2368812
tert-Butylbenzene	U		0.00267	0.00686	1	09/24/2024 21:10	WG2368812
Carbon tetrachloride	U		0.00123	0.00686	1	09/24/2024 21:10	WG2368812
Chlorobenzene	U		0.000288	0.00343	1	09/24/2024 21:10	WG2368812
Chlorodibromomethane	U		0.000839	0.00343	1	09/24/2024 21:10	WG2368812
Chloroethane	U		0.00233	0.00686	1	09/24/2024 21:10	WG2368812
Chloroform	U		0.00141	0.00343	1	09/24/2024 21:10	WG2368812
Chloromethane	U		0.00597	0.0171	1	09/24/2024 21:10	WG2368812
2-Chlorotoluene	U		0.00119	0.00343	1	09/24/2024 21:10	WG2368812
4-Chlorotoluene	U		0.000617	0.00686	1	09/24/2024 21:10	WG2368812
1,2-Dibromo-3-Chloropropane	U		0.00535	0.0343	1	09/24/2024 21:10	WG2368812
1,2-Dibromoethane	U		0.000889	0.00343	1	09/24/2024 21:10	WG2368812
Dibromomethane	U		0.00103	0.00686	1	09/24/2024 21:10	WG2368812
1,2-Dichlorobenzene	U		0.000583	0.00686	1	09/24/2024 21:10	WG2368812
1,3-Dichlorobenzene	U		0.000823	0.00686	1	09/24/2024 21:10	WG2368812
1,4-Dichlorobenzene	U		0.000960	0.00686	1	09/24/2024 21:10	WG2368812
Dichlorodifluoromethane	U		0.00221	0.00686	1	09/24/2024 21:10	WG2368812
1,1-Dichloroethane	U		0.000673	0.00343	1	09/24/2024 21:10	WG2368812
1,2-Dichloroethane	U		0.000890	0.00343	1	09/24/2024 21:10	WG2368812
1,1-Dichloroethene	U		0.000831	0.00343	1	09/24/2024 21:10	WG2368812
cis-1,2-Dichloroethene	U		0.00101	0.00343	1	09/24/2024 21:10	WG2368812
trans-1,2-Dichloroethene	U		0.00143	0.00686	1	09/24/2024 21:10	WG2368812
1,2-Dichloropropane	U		0.00195	0.00686	1	09/24/2024 21:10	WG2368812
1,1-Dichloropropene	U		0.00111	0.00343	1	09/24/2024 21:10	WG2368812
1,3-Dichloropropane	U		0.000687	0.00686	1	09/24/2024 21:10	WG2368812
cis-1,3-Dichloropropene	U		0.00104	0.00343	1	09/24/2024 21:10	WG2368812
trans-1,3-Dichloropropene	U		0.00156	0.00686	1	09/24/2024 21:10	WG2368812
2,2-Dichloropropane	U		0.00189	0.00343	1	09/24/2024 21:10	WG2368812
Di-isopropyl ether	U		0.000562	0.00137	1	09/24/2024 21:10	WG2368812
Ethylbenzene	U		0.00101	0.00343	1	09/24/2024 21:10	WG2368812
Hexachloro-1,3-butadiene	U		0.00823	0.0343	1	09/24/2024 21:10	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000583	0.00343	1	09/24/2024 21:10	WG2368812
p-Isopropyltoluene	U		0.00350	0.00686	1	09/24/2024 21:10	WG2368812
2-Butanone (MEK)	U		0.0871	0.137	1	09/24/2024 21:10	WG2368812
Methylene Chloride	U		0.00911	0.0343	1	09/24/2024 21:10	WG2368812
4-Methyl-2-pentanone (MIBK)	U		0.00313	0.0343	1	09/24/2024 21:10	WG2368812
Methyl tert-butyl ether	U		0.000480	0.00137	1	09/24/2024 21:10	WG2368812
Naphthalene	U	C3 J4	0.00669	0.0171	1	09/24/2024 21:10	WG2368812
n-Propylbenzene	U		0.00130	0.00686	1	09/24/2024 21:10	WG2368812
Styrene	U		0.000314	0.0171	1	09/24/2024 21:10	WG2368812
1,1,1,2-Tetrachloroethane	U		0.00130	0.00343	1	09/24/2024 21:10	WG2368812
1,1,2,2-Tetrachloroethane	U		0.000953	0.00343	1	09/24/2024 21:10	WG2368812
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00343	1	09/24/2024 21:10	WG2368812
Tetrachloroethene	U		0.00123	0.00343	1	09/24/2024 21:10	WG2368812
Toluene	U		0.00178	0.00686	1	09/24/2024 21:10	WG2368812
1,2,3-Trichlorobenzene	U	C3	0.0101	0.0171	1	09/24/2024 21:10	WG2368812
1,2,4-Trichlorobenzene	U	C3	0.00603	0.0171	1	09/24/2024 21:10	WG2368812
1,1,1-Trichloroethane	U		0.00127	0.00343	1	09/24/2024 21:10	WG2368812
1,1,2-Trichloroethane	U		0.000819	0.00343	1	09/24/2024 21:10	WG2368812
Trichloroethene	U		0.000801	0.00137	1	09/24/2024 21:10	WG2368812
Trichlorofluoromethane	U		0.00113	0.00343	1	09/24/2024 21:10	WG2368812
1,2,3-Trichloropropane	U		0.00222	0.0171	1	09/24/2024 21:10	WG2368812
1,2,4-Trimethylbenzene	U		0.00217	0.00686	1	09/24/2024 21:10	WG2368812
1,2,3-Trimethylbenzene	U		0.00217	0.00686	1	09/24/2024 21:10	WG2368812
1,3,5-Trimethylbenzene	U		0.00274	0.00686	1	09/24/2024 21:10	WG2368812
Vinyl chloride	U		0.00159	0.00343	1	09/24/2024 21:10	WG2368812
Xylenes, Total	U		0.00121	0.00891	1	09/24/2024 21:10	WG2368812
(S) Toluene-d8	93.9			75.0-131		09/24/2024 21:10	WG2368812
(S) 4-Bromofluorobenzene	99.6			67.0-138		09/24/2024 21:10	WG2368812
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/24/2024 21:10	WG2368812

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	15.3		1.55	4.67	1	09/26/2024 07:40	WG2369791
Residual Range Organics (RRO)	52.2		3.89	11.7	1	09/26/2024 07:40	WG2369791
(S) o-Terphenyl	64.5			18.0-148		09/26/2024 07:40	WG2369791

Sample Narrative:

L1780967-09 WG2369791: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0138	0.0397	1	09/26/2024 05:44	WG2369774
PCB 1221	U		0.0138	0.0397	1	09/26/2024 05:44	WG2369774
PCB 1232	U		0.0138	0.0397	1	09/26/2024 05:44	WG2369774
PCB 1242	U		0.0138	0.0397	1	09/26/2024 05:44	WG2369774
PCB 1248	U		0.00862	0.0198	1	09/26/2024 05:44	WG2369774
PCB 1254	U		0.00862	0.0198	1	09/26/2024 05:44	WG2369774
PCB 1260	U		0.00862	0.0198	1	09/26/2024 05:44	WG2369774
(S) Decachlorobiphenyl	75.8			10.0-135		09/26/2024 05:44	WG2369774
(S) Tetrachloro-m-xylene	87.5			10.0-139		09/26/2024 05:44	WG2369774

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00269	0.00701	1	09/26/2024 09:58	WG2369748
Acenaphthene	U		0.00244	0.00701	1	09/26/2024 09:58	WG2369748
Acenaphthylene	U		0.00252	0.00701	1	09/26/2024 09:58	WG2369748
Benzo(a)anthracene	U		0.00202	0.00701	1	09/26/2024 09:58	WG2369748
Benzo(a)pyrene	U		0.00209	0.00701	1	09/26/2024 09:58	WG2369748
Benzo(b)fluoranthene	U		0.00179	0.00701	1	09/26/2024 09:58	WG2369748
Benzo(g,h,i)perylene	U		0.00207	0.00701	1	09/26/2024 09:58	WG2369748
Benzo(k)fluoranthene	U		0.00251	0.00701	1	09/26/2024 09:58	WG2369748
Chrysene	U		0.00271	0.00701	1	09/26/2024 09:58	WG2369748
Dibenz(a,h)anthracene	U		0.00201	0.00701	1	09/26/2024 09:58	WG2369748
Fluoranthene	U		0.00265	0.00701	1	09/26/2024 09:58	WG2369748
Fluorene	U		0.00239	0.00701	1	09/26/2024 09:58	WG2369748
Indeno(1,2,3-cd)pyrene	U		0.00211	0.00701	1	09/26/2024 09:58	WG2369748
Naphthalene	U		0.00476	0.0234	1	09/26/2024 09:58	WG2369748
Phenanthrene	U		0.00270	0.00701	1	09/26/2024 09:58	WG2369748
Pyrene	U		0.00234	0.00701	1	09/26/2024 09:58	WG2369748
1-Methylnaphthalene	U		0.00524	0.0234	1	09/26/2024 09:58	WG2369748
2-Methylnaphthalene	U		0.00499	0.0234	1	09/26/2024 09:58	WG2369748
2-Chloronaphthalene	U		0.00544	0.0234	1	09/26/2024 09:58	WG2369748
(S) p-Terphenyl-d14	95.7			23.0-120		09/26/2024 09:58	WG2369748
(S) Nitrobenzene-d5	113			14.0-149		09/26/2024 09:58	WG2369748
(S) 2-Fluorobiphenyl	104			34.0-125		09/26/2024 09:58	WG2369748

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4124196-1 09/25/24 08:06

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1780935-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1780935-12 09/25/24 08:06 • (DUP) R4124196-3 09/25/24 08:06

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.1	82.1	1	3.76		10

Laboratory Control Sample (LCS)

(LCS) R4124196-2 09/25/24 08:06

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

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4124295-1 09/25/24 10:01

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1780967-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1780967-06 09/25/24 10:01 • (DUP) R4124295-3 09/25/24 10:01

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.9	87.2	1	1.58		10

Laboratory Control Sample (LCS)

(LCS) R4124295-2 09/25/24 10:01

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4124159-1 09/25/24 10:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4124159-2 09/25/24 10:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.481	96.2	80.0-120	

L1780935-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780935-03 09/25/24 10:10 • (MS) R4124159-4 09/25/24 10:15 • (MSD) R4124159-5 09/25/24 10:18

	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
Analyte	mg/kg				%	%		%			%	%
Mercury	0.587	0.104	0.880	0.799	132	118	1	75.0-125	J5		9.73	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4125053-1 09/26/24 15:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	0.269	⬇	0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4125053-2 09/26/24 15:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	98.3	98.3	80.0-120	

L1780967-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780967-03 09/26/24 15:42 • (MS) R4125053-5 09/26/24 15:50 • (MSD) R4125053-6 09/26/24 15:52

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 %
Lead	119	17.7	131	135	95.8	98.8	1	75.0-125			2.72	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4124836-3 09/24/24 15:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4124836-3 09/24/24 15:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	96.8			75.0-131
(S) 4-Bromofluorobenzene	96.4			67.0-138
(S) 1,2-Dichloroethane-d4	97.8			70.0-130

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

(LCS) R4124836-1 09/24/24 13:25 • (LCSD) R4124836-2 09/24/24 13:44

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	0.625	0.467	0.534	74.7	85.4	10.0-160			13.4	31
Acrylonitrile	0.625	0.689	0.706	110	113	45.0-153			2.44	22
Benzene	0.125	0.131	0.130	105	104	70.0-123			0.766	20
Bromobenzene	0.125	0.122	0.118	97.6	94.4	73.0-121			3.33	20
Bromodichloromethane	0.125	0.136	0.132	109	106	73.0-121			2.99	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4124836-1 09/24/24 13:25 • (LCSD) R4124836-2 09/24/24 13:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.128	0.129	102	103	64.0-132			0.778	20
Bromomethane	0.125	0.128	0.129	102	103	56.0-147			0.778	20
n-Butylbenzene	0.125	0.101	0.0954	80.8	76.3	68.0-135			5.70	20
sec-Butylbenzene	0.125	0.112	0.106	89.6	84.8	74.0-130			5.50	20
tert-Butylbenzene	0.125	0.114	0.106	91.2	84.8	75.0-127			7.27	20
Carbon tetrachloride	0.125	0.154	0.144	123	115	66.0-128			6.71	20
Chlorobenzene	0.125	0.118	0.113	94.4	90.4	76.0-128			4.33	20
Chlorodibromomethane	0.125	0.126	0.124	101	99.2	74.0-127			1.60	20
Chloroethane	0.125	0.128	0.125	102	100	61.0-134			2.37	20
Chloroform	0.125	0.141	0.133	113	106	72.0-123			5.84	20
Chloromethane	0.125	0.106	0.105	84.8	84.0	51.0-138			0.948	20
2-Chlorotoluene	0.125	0.114	0.112	91.2	89.6	75.0-124			1.77	20
4-Chlorotoluene	0.125	0.112	0.101	89.6	80.8	75.0-124			10.3	20
1,2-Dibromo-3-Chloropropane	0.125	0.102	0.106	81.6	84.8	59.0-130			3.85	20
1,2-Dibromoethane	0.125	0.118	0.120	94.4	96.0	74.0-128			1.68	20
Dibromomethane	0.125	0.134	0.135	107	108	75.0-122			0.743	20
1,2-Dichlorobenzene	0.125	0.112	0.105	89.6	84.0	76.0-124			6.45	20
1,3-Dichlorobenzene	0.125	0.110	0.104	88.0	83.2	76.0-125			5.61	20
1,4-Dichlorobenzene	0.125	0.112	0.104	89.6	83.2	77.0-121			7.41	20
Dichlorodifluoromethane	0.125	0.115	0.109	92.0	87.2	43.0-156			5.36	20
1,1-Dichloroethane	0.125	0.141	0.136	113	109	70.0-127			3.61	20
1,2-Dichloroethane	0.125	0.136	0.132	109	106	65.0-131			2.99	20
1,1-Dichloroethene	0.125	0.160	0.158	128	126	65.0-131			1.26	20
cis-1,2-Dichloroethene	0.125	0.124	0.125	99.2	100	73.0-125			0.803	20
trans-1,2-Dichloroethene	0.125	0.136	0.132	109	106	71.0-125			2.99	20
1,2-Dichloropropane	0.125	0.135	0.132	108	106	74.0-125			2.25	20
1,1-Dichloropropene	0.125	0.151	0.154	121	123	73.0-125			1.97	20
1,3-Dichloropropane	0.125	0.123	0.126	98.4	101	80.0-125			2.41	20
cis-1,3-Dichloropropene	0.125	0.144	0.145	115	116	76.0-127			0.692	20
trans-1,3-Dichloropropene	0.125	0.130	0.126	104	101	73.0-127			3.12	20
2,2-Dichloropropane	0.125	0.152	0.143	122	114	59.0-135			6.10	20
Di-isopropyl ether	0.125	0.135	0.129	108	103	60.0-136			4.55	20
Ethylbenzene	0.125	0.114	0.113	91.2	90.4	74.0-126			0.881	20
Hexachloro-1,3-butadiene	0.125	0.137	0.123	110	98.4	57.0-150			10.8	20
Isopropylbenzene	0.125	0.110	0.108	88.0	86.4	72.0-127			1.83	20
p-Isopropyltoluene	0.125	0.109	0.101	87.2	80.8	72.0-133			7.62	20
2-Butanone (MEK)	0.625	0.573	0.616	91.7	98.6	30.0-160			7.23	24
Methylene Chloride	0.125	0.133	0.129	106	103	68.0-123			3.05	20
4-Methyl-2-pentanone (MIBK)	0.625	0.605	0.624	96.8	99.8	56.0-143			3.09	20
Methyl tert-butyl ether	0.125	0.138	0.126	110	101	66.0-132			9.09	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4124836-1 09/24/24 13:25 • (LCSD) R4124836-2 09/24/24 13:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.0753	0.0727	60.2	58.2	59.0-130		J4	3.51	20
n-Propylbenzene	0.125	0.118	0.114	94.4	91.2	74.0-126			3.45	20
Styrene	0.125	0.0998	0.102	79.8	81.6	72.0-127			2.18	20
1,1,1,2-Tetrachloroethane	0.125	0.120	0.121	96.0	96.8	74.0-129			0.830	20
1,1,2,2-Tetrachloroethane	0.125	0.129	0.122	103	97.6	68.0-128			5.58	20
1,1,2-Trichlorotrifluoroethane	0.125	0.167	0.162	134	130	61.0-139			3.04	20
Tetrachloroethene	0.125	0.132	0.131	106	105	70.0-136			0.760	20
Toluene	0.125	0.117	0.118	93.6	94.4	75.0-121			0.851	20
1,2,3-Trichlorobenzene	0.125	0.0952	0.0957	76.2	76.6	59.0-139			0.524	20
1,2,4-Trichlorobenzene	0.125	0.0961	0.0884	76.9	70.7	62.0-137			8.35	20
1,1,1-Trichloroethane	0.125	0.152	0.147	122	118	69.0-126			3.34	20
1,1,2-Trichloroethane	0.125	0.120	0.119	96.0	95.2	78.0-123			0.837	20
Trichloroethene	0.125	0.135	0.134	108	107	76.0-126			0.743	20
Trichlorofluoromethane	0.125	0.149	0.150	119	120	61.0-142			0.669	20
1,2,3-Trichloropropane	0.125	0.132	0.127	106	102	67.0-129			3.86	20
1,2,4-Trimethylbenzene	0.125	0.101	0.0989	80.8	79.1	70.0-126			2.10	20
1,2,3-Trimethylbenzene	0.125	0.106	0.0970	84.8	77.6	74.0-124			8.87	20
1,3,5-Trimethylbenzene	0.125	0.112	0.104	89.6	83.2	73.0-127			7.41	20
Vinyl chloride	0.125	0.127	0.123	102	98.4	63.0-134			3.20	20
Xylenes, Total	0.375	0.333	0.333	88.8	88.8	72.0-127			0.000	20
(S) Toluene-d8				96.1	98.1	75.0-131				
(S) 4-Bromofluorobenzene				94.1	95.9	67.0-138				
(S) 1,2-Dichloroethane-d4				104	106	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4124640-1 09/26/24 05:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	79.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4124640-2 09/26/24 06:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	52.3	105	50.0-150	
(S) o-Terphenyl			102	18.0-148	

L1780967-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780967-02 09/26/24 08:19 • (MS) R4124640-3 09/26/24 08:32 • (MSD) R4124640-4 09/26/24 08:45

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 %
Diesel Range Organics (DRO)	60.2	28.3	74.2	62.9	76.2	56.9	5	50.0-150			16.4	20
(S) o-Terphenyl					49.4	37.6		18.0-148				

Sample Narrative:

OS: Sample resembles laboratory standard for Hydraulic Oil.

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4124925-1 09/26/24 03:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	36.8			10.0-135
(S) Tetrachloro-m-xylene	38.7			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4124925-2 09/26/24 03:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.148	88.6	36.0-141	
PCB 1260	0.167	0.166	99.4	37.0-145	
(S) Decachlorobiphenyl			86.3	10.0-135	
(S) Tetrachloro-m-xylene			88.1	10.0-139	

L1780967-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780967-03 09/26/24 04:27 • (MS) R4124925-3 09/26/24 04:37 • (MSD) R4124925-4 09/26/24 04:46

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 %
PCB 1016	0.198	U	0.122	0.154	61.7	77.8	1	10.0-160	P	P	23.2	37
PCB 1260	0.198	U	0.122	0.146	61.7	73.7	1	10.0-160			17.7	38
(S) Decachlorobiphenyl					60.8	76.4		10.0-135				
(S) Tetrachloro-m-xylene					69.8	88.3		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4124923-2 09/26/24 09:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	104			23.0-120
(S) Nitrobenzene-d5	111			14.0-149
(S) 2-Fluorobiphenyl	112			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4124923-1 09/26/24 09:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0735	91.9	50.0-126	
Acenaphthene	0.0800	0.0726	90.8	50.0-120	
Acenaphthylene	0.0800	0.0756	94.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0733	91.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0646	80.7	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0783	97.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0756	94.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0743	92.9	49.0-125	
Chrysene	0.0800	0.0787	98.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0776	97.0	47.0-125	
Fluoranthene	0.0800	0.0775	96.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4124923-1 09/26/24 09:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0769	96.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0731	91.4	46.0-125	
Naphthalene	0.0800	0.0751	93.9	50.0-120	
Phenanthrene	0.0800	0.0786	98.2	47.0-120	
Pyrene	0.0800	0.0769	96.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0787	98.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0760	95.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0784	98.0	50.0-120	
(S) p-Terphenyl-d14			95.6	23.0-120	
(S) Nitrobenzene-d5			105	14.0-149	
(S) 2-Fluorobiphenyl			103	34.0-125	

L1780967-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780967-05 09/26/24 12:51 • (MS) R4124923-3 09/26/24 13:09 • (MSD) R4124923-4 09/26/24 13:27

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 %
Anthracene	0.0991	U	0.0825	0.0819	83.3	82.6	1	10.0-145			0.781	30
Acenaphthene	0.0991	U	0.0836	0.0804	84.3	81.1	1	14.0-127			3.92	27
Acenaphthylene	0.0991	U	0.0859	0.0841	86.7	84.8	1	21.0-124			2.11	25
Benzo(a)anthracene	0.0991	U	0.0849	0.0823	85.6	83.0	1	10.0-139			3.07	30
Benzo(a)pyrene	0.0991	U	0.0825	0.0805	83.3	81.2	1	10.0-141			2.52	31
Benzo(b)fluoranthene	0.0991	U	0.0872	0.0831	88.0	83.8	1	10.0-140			4.83	36
Benzo(g,h,i)perylene	0.0991	U	0.0824	0.0786	83.2	79.3	1	10.0-140			4.78	33
Benzo(k)fluoranthene	0.0991	U	0.0818	0.0793	82.5	80.1	1	10.0-137			3.03	31
Chrysene	0.0991	U	0.0906	0.0875	91.5	88.3	1	10.0-145			3.46	30
Dibenz(a,h)anthracene	0.0991	U	0.0842	0.0815	85.0	82.3	1	10.0-132			3.25	31
Fluoranthene	0.0991	0.00330	0.0945	0.0900	92.0	87.5	1	10.0-153			4.87	33
Fluorene	0.0991	U	0.0893	0.0868	90.2	87.6	1	11.0-130			2.92	29
Indeno(1,2,3-cd)pyrene	0.0991	U	0.0802	0.0779	81.0	78.6	1	10.0-137			2.92	32
Naphthalene	0.0991	U	0.0868	0.0840	87.6	84.7	1	10.0-135			3.31	27
Phenanthrene	0.0991	0.00416	0.0952	0.0900	91.9	86.6	1	10.0-144			5.68	31
Pyrene	0.0991	0.00345	0.0899	0.0851	87.2	82.4	1	10.0-148			5.43	35
1-Methylnaphthalene	0.0991	U	0.0899	0.0875	90.7	88.3	1	10.0-142			2.60	28
2-Methylnaphthalene	0.0991	U	0.0887	0.0856	89.5	86.4	1	10.0-137			3.53	28
2-Chloronaphthalene	0.0991	U	0.0895	0.0865	90.3	87.3	1	29.0-120			3.36	24
(S) p-Terphenyl-d14					89.8	87.6		23.0-120				
(S) Nitrobenzene-d5					104	105		14.0-149				
(S) 2-Fluorobiphenyl					99.9	99.6		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

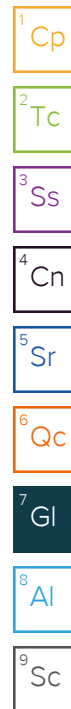
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P	RPD between the primary and confirmatory analysis exceeded 40%.



ACCREDITATIONS & LOCATIONS

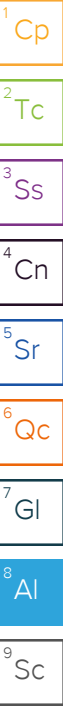
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Earth Engineers-Camas, WA

2411 SE 8th Ave
Camas, WA 98607

Billing Information:

Holly Dresher
2411 SE 8th Ave
Camas, WA 98607Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Report to:
David HannantEmail To:
dhannant@rmacompanies.comProject
Description: Waterfront Soils RemovalCity/State
Collected: Camas, WAPhone: 406-781-1679
Fax:Client Project #
10-240350Lab Project #
EARENGCWA-CAMAS

Collected by (print):

Matt Enos

Site/Facility ID #

Hyas Point Soils Removal

P.O. #

Collected by (signature):

Matt Enos

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☒ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N ☐ Y ☒No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	
B_F-E+30-9@11	COMP	SS	11	9/23/24	11:00	3
B_F-E+30-6-7@11	COMP	SS	11	9/23/24	11:20	3
B_F-D-E-6-7@11	COMP	SS	11	9/23/24	11:45	3
B_F-E+30-5-6@11	COMP	SS	11	9/23/24	12:10	3
B_F-D-E-5-6@11	COMP	SS	11	9/23/24	12:30	3
B_F-C-D-5-6@11	COMP	SS	11	9/23/24	12:50	3
B_F-D-E-4-5@11	COMP	SS	11	9/23/24	13:15	3
B_F-C-D-4-5@11	COMP	SS	11	9/23/24	13:45	3
B_F-B-C-4-5@11	COMP	SS	11	9/23/24	14:00	3

NWTPH-Dx w/SGT 8ozClr-NoPres

PAHs 8270 SIM 8ozClr-NoPres

PCBs 8082 8ozClr-NoPres

Metals 6010 4ozClr-NoPres (Hg, Pb)

VOCs 8260 40mlAmb/MeOH 10ml/Syr

Acctnum: EARENGCWA

Template: T257763

Prelogin: P1094692

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks

Sample # (lab only)

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

Remarks:

2 DAY TAT

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

pH _____ Temp _____

Flow _____ Other _____

Tracking #

41029165 9158

Relinquished by: (Signature)

Matt Enos

Date:

9/23/24

Time:

16:00

Received by: (Signature)

Trip Blank Received: Yes / No

☒ HCL / MeOH
☒ TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

1.3403 = 1.6 27

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 9/24/24 Time: 900

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

If preservation required by Login: Date/Time

Hold:

Condition:
NCF / 6

Earth Engineers - Camas, WA

Sample Delivery Group: L1782578
Samples Received: 09/27/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B_F_E+10_4-5@11 L1782578-01	6
B_F_E+5_3-4@11 L1782578-02	9
A_F_P_Q_4D+40@12 L1782578-03	12
A_F_P_Q+20_4D+30@12 L1782578-04	15
A_F_N+10-P+10_4D+10@12 L1782578-05	18
A_F_P-Q_4D@12 L1782578-06	21
A_F_Q+_4D+@12 L1782578-07	24
A_F_Q+_3D-4D@12 L1782578-08	27
Qc: Quality Control Summary	30
Total Solids by Method 2540 G-2011	30
Mercury by Method 7471B	32
Metals (ICP) by Method 6010D	34
Volatile Organic Compounds (GC/MS) by Method 8260D	35
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	39
Polychlorinated Biphenyls (GC) by Method 8082 A	40
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	41
Gl: Glossary of Terms	44
Al: Accreditations & Locations	45
Sc: Sample Chain of Custody	46

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

SAMPLE SUMMARY

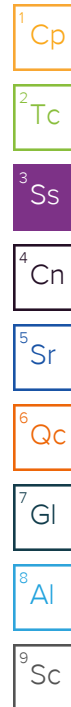
B_F_E+10_4-5@11 L1782578-01 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 11:40

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371642	1	09/28/24 14:37	09/28/24 14:59	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:05	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 11:40	10/01/24 02:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 15:18	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 02:29	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	10/01/24 01:47	MBE	Mt. Juliet, TN



B_F_E+5_3-4@11 L1782578-02 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 12:00

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371642	1	09/28/24 14:37	09/28/24 14:59	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:07	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 12:00	10/01/24 02:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 15:06	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 02:38	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	09/30/24 22:12	MBE	Mt. Juliet, TN

A_F_P_Q_4D+40@12 L1782578-03 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 12:25

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371905	1	09/29/24 14:06	09/30/24 13:25	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:09	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1.1	09/26/24 12:25	10/01/24 03:11	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 15:18	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 02:48	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	09/30/24 22:31	MBE	Mt. Juliet, TN

A_F_P_Q+20_4D+30@12 L1782578-04 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 12:45

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371905	1	09/29/24 14:06	09/30/24 13:27	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 07:40	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 12:45	10/01/24 03:30	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 14:53	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 02:57	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	10/01/24 02:07	MBE	Mt. Juliet, TN

A_F_N+10-P+10_4D+10@12 L1782578-05 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 13:10

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:38	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:10	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1.06	09/26/24 13:10	10/01/24 03:49	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

A_F_N+10-P+10_4D+10@12 L1782578-05 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 13:10

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 14:53	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 03:06	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	09/30/24 22:51	MBE	Mt. Juliet, TN

A_F_P-Q_4D@12 L1782578-06 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 13:40

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:41	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:12	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 13:40	10/01/24 04:08	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 15:31	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 03:16	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	10/01/24 02:26	MBE	Mt. Juliet, TN

A_F_Q+_4D+@12 L1782578-07 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 14:00

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:43	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:17	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 14:00	10/01/24 04:27	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 15:06	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 03:25	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	09/30/24 23:10	MBE	Mt. Juliet, TN

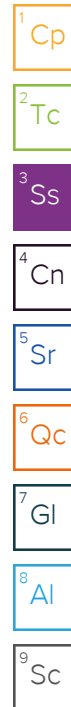
A_F_Q+_3D-4D@12 L1782578-08 Solid

Collected by
Matt Enos

Collected date/time
09/26/24 14:30

Received date/time
09/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2371643	1	09/28/24 11:57	09/28/24 12:11	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2371597	1	09/29/24 14:14	09/30/24 16:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2371811	1	09/29/24 15:52	09/30/24 08:18	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2372831	1	09/26/24 14:30	10/01/24 04:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2372961	1	10/01/24 08:06	10/01/24 14:03	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2372960	1	10/01/24 07:21	10/02/24 03:34	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2372019	1	09/30/24 13:50	09/30/24 23:30	MBE	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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.1		1	09/28/2024 14:59	WG2371642

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0209	0.0464	1	09/30/2024 16:33	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.3		0.241	0.581	1	09/30/2024 08:05	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0496	0.0680	1	10/01/2024 02:32	WG2372831
Acrylonitrile	U		0.00491	0.0170	1	10/01/2024 02:32	WG2372831
Benzene	U		0.000635	0.00136	1	10/01/2024 02:32	WG2372831
Bromobenzene	U		0.00122	0.0170	1	10/01/2024 02:32	WG2372831
Bromodichloromethane	U		0.000986	0.00340	1	10/01/2024 02:32	WG2372831
Bromoform	U		0.00159	0.0340	1	10/01/2024 02:32	WG2372831
Bromomethane	U	C3	0.00268	0.0170	1	10/01/2024 02:32	WG2372831
n-Butylbenzene	U		0.00714	0.0170	1	10/01/2024 02:32	WG2372831
sec-Butylbenzene	U		0.00392	0.0170	1	10/01/2024 02:32	WG2372831
tert-Butylbenzene	U		0.00265	0.00680	1	10/01/2024 02:32	WG2372831
Carbon tetrachloride	U		0.00122	0.00680	1	10/01/2024 02:32	WG2372831
Chlorobenzene	U		0.000286	0.00340	1	10/01/2024 02:32	WG2372831
Chlorodibromomethane	U		0.000832	0.00340	1	10/01/2024 02:32	WG2372831
Chloroethane	U	C3	0.00231	0.00680	1	10/01/2024 02:32	WG2372831
Chloroform	U		0.00140	0.00340	1	10/01/2024 02:32	WG2372831
Chloromethane	U		0.00592	0.0170	1	10/01/2024 02:32	WG2372831
2-Chlorotoluene	U		0.00118	0.00340	1	10/01/2024 02:32	WG2372831
4-Chlorotoluene	U		0.000612	0.00680	1	10/01/2024 02:32	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00530	0.0340	1	10/01/2024 02:32	WG2372831
1,2-Dibromoethane	U		0.000881	0.00340	1	10/01/2024 02:32	WG2372831
Dibromomethane	U		0.00102	0.00680	1	10/01/2024 02:32	WG2372831
1,2-Dichlorobenzene	U		0.000578	0.00680	1	10/01/2024 02:32	WG2372831
1,3-Dichlorobenzene	U		0.000816	0.00680	1	10/01/2024 02:32	WG2372831
1,4-Dichlorobenzene	U		0.000952	0.00680	1	10/01/2024 02:32	WG2372831
Dichlorodifluoromethane	U		0.00219	0.00680	1	10/01/2024 02:32	WG2372831
1,1-Dichloroethane	U		0.000668	0.00340	1	10/01/2024 02:32	WG2372831
1,2-Dichloroethane	U		0.000883	0.00340	1	10/01/2024 02:32	WG2372831
1,1-Dichloroethene	U	J3	0.000824	0.00340	1	10/01/2024 02:32	WG2372831
cis-1,2-Dichloroethene	U		0.000998	0.00340	1	10/01/2024 02:32	WG2372831
trans-1,2-Dichloroethene	U		0.00141	0.00680	1	10/01/2024 02:32	WG2372831
1,2-Dichloropropane	U		0.00193	0.00680	1	10/01/2024 02:32	WG2372831
1,1-Dichloropropene	U		0.00110	0.00340	1	10/01/2024 02:32	WG2372831
1,3-Dichloropropane	U		0.000681	0.00680	1	10/01/2024 02:32	WG2372831
cis-1,3-Dichloropropene	U		0.00103	0.00340	1	10/01/2024 02:32	WG2372831
trans-1,3-Dichloropropene	U		0.00155	0.00680	1	10/01/2024 02:32	WG2372831
2,2-Dichloropropane	U		0.00188	0.00340	1	10/01/2024 02:32	WG2372831
Di-isopropyl ether	U		0.000558	0.00136	1	10/01/2024 02:32	WG2372831
Ethylbenzene	U		0.00100	0.00340	1	10/01/2024 02:32	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00816	0.0340	1	10/01/2024 02:32	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000578	0.00340	1	10/01/2024 02:32	WG2372831
p-Isopropyltoluene	U		0.00347	0.00680	1	10/01/2024 02:32	WG2372831
2-Butanone (MEK)	U		0.0864	0.136	1	10/01/2024 02:32	WG2372831
Methylene Chloride	U		0.00903	0.0340	1	10/01/2024 02:32	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00310	0.0340	1	10/01/2024 02:32	WG2372831
Methyl tert-butyl ether	U		0.000476	0.00136	1	10/01/2024 02:32	WG2372831
Naphthalene	U		0.00664	0.0170	1	10/01/2024 02:32	WG2372831
n-Propylbenzene	U		0.00129	0.00680	1	10/01/2024 02:32	WG2372831
Styrene	U		0.000311	0.0170	1	10/01/2024 02:32	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00129	0.00340	1	10/01/2024 02:32	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.000945	0.00340	1	10/01/2024 02:32	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00340	1	10/01/2024 02:32	WG2372831
Tetrachloroethene	U		0.00122	0.00340	1	10/01/2024 02:32	WG2372831
Toluene	U		0.00177	0.00680	1	10/01/2024 02:32	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.00997	0.0170	1	10/01/2024 02:32	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00598	0.0170	1	10/01/2024 02:32	WG2372831
1,1,1-Trichloroethane	U		0.00126	0.00340	1	10/01/2024 02:32	WG2372831
1,1,2-Trichloroethane	U		0.000812	0.00340	1	10/01/2024 02:32	WG2372831
Trichloroethene	U		0.000794	0.00136	1	10/01/2024 02:32	WG2372831
Trichlorofluoromethane	U		0.00112	0.00340	1	10/01/2024 02:32	WG2372831
1,2,3-Trichloropropane	U		0.00220	0.0170	1	10/01/2024 02:32	WG2372831
1,2,4-Trimethylbenzene	U		0.00215	0.00680	1	10/01/2024 02:32	WG2372831
1,2,3-Trimethylbenzene	U		0.00215	0.00680	1	10/01/2024 02:32	WG2372831
1,3,5-Trimethylbenzene	U		0.00272	0.00680	1	10/01/2024 02:32	WG2372831
Vinyl chloride	U		0.00158	0.00340	1	10/01/2024 02:32	WG2372831
Xylenes, Total	U		0.00120	0.00884	1	10/01/2024 02:32	WG2372831
(S) Toluene-d8	94.9			75.0-131		10/01/2024 02:32	WG2372831
(S) 4-Bromofluorobenzene	102			67.0-138		10/01/2024 02:32	WG2372831
(S) 1,2-Dichloroethane-d4	80.2			70.0-130		10/01/2024 02:32	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	7.55		1.54	4.64	1	10/01/2024 15:18	WG2372961
Residual Range Organics (RRO)	25.7		3.87	11.6	1	10/01/2024 15:18	WG2372961
(S) o-Terphenyl	56.1			18.0-148		10/01/2024 15:18	WG2372961

Sample Narrative:
L1782578-01 WG2372961: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0137	0.0395	1	10/02/2024 02:29	WG2372960
PCB 1221	U		0.0137	0.0395	1	10/02/2024 02:29	WG2372960
PCB 1232	U		0.0137	0.0395	1	10/02/2024 02:29	WG2372960
PCB 1242	U		0.0137	0.0395	1	10/02/2024 02:29	WG2372960
PCB 1248	U		0.00857	0.0197	1	10/02/2024 02:29	WG2372960
PCB 1254	U		0.00857	0.0197	1	10/02/2024 02:29	WG2372960
PCB 1260	U		0.00857	0.0197	1	10/02/2024 02:29	WG2372960
(S) Decachlorobiphenyl	93.8			10.0-135		10/02/2024 02:29	WG2372960
(S) Tetrachloro-m-xylene	81.8			10.0-139		10/02/2024 02:29	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00267	0.00697	1	10/01/2024 01:47	WG2372019
Acenaphthene	U		0.00243	0.00697	1	10/01/2024 01:47	WG2372019
Acenaphthylene	U		0.00251	0.00697	1	10/01/2024 01:47	WG2372019
Benzo(a)anthracene	U		0.00201	0.00697	1	10/01/2024 01:47	WG2372019
Benzo(a)pyrene	U		0.00208	0.00697	1	10/01/2024 01:47	WG2372019
Benzo(b)fluoranthene	U		0.00178	0.00697	1	10/01/2024 01:47	WG2372019
Benzo(g,h,i)perylene	U		0.00206	0.00697	1	10/01/2024 01:47	WG2372019
Benzo(k)fluoranthene	U		0.00250	0.00697	1	10/01/2024 01:47	WG2372019
Chrysene	U		0.00269	0.00697	1	10/01/2024 01:47	WG2372019
Dibenz(a,h)anthracene	U		0.00200	0.00697	1	10/01/2024 01:47	WG2372019
Fluoranthene	U		0.00264	0.00697	1	10/01/2024 01:47	WG2372019
Fluorene	U		0.00238	0.00697	1	10/01/2024 01:47	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00210	0.00697	1	10/01/2024 01:47	WG2372019
Naphthalene	U		0.00474	0.0232	1	10/01/2024 01:47	WG2372019
Phenanthrene	U		0.00268	0.00697	1	10/01/2024 01:47	WG2372019
Pyrene	U		0.00232	0.00697	1	10/01/2024 01:47	WG2372019
1-Methylnaphthalene	U		0.00521	0.0232	1	10/01/2024 01:47	WG2372019
2-Methylnaphthalene	U		0.00496	0.0232	1	10/01/2024 01:47	WG2372019
2-Chloronaphthalene	U		0.00541	0.0232	1	10/01/2024 01:47	WG2372019
(S) p-Terphenyl-d14	78.7			23.0-120		10/01/2024 01:47	WG2372019
(S) Nitrobenzene-d5	80.8			14.0-149		10/01/2024 01:47	WG2372019
(S) 2-Fluorobiphenyl	80.6			34.0-125		10/01/2024 01:47	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.6		1	09/28/2024 14:59	WG2371642

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0203	0.0451	1	09/30/2024 16:36	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	8.69		0.235	0.564	1	09/30/2024 08:07	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0462	0.0633	1	10/01/2024 02:51	WG2372831
Acrylonitrile	U		0.00457	0.0158	1	10/01/2024 02:51	WG2372831
Benzene	U		0.000591	0.00127	1	10/01/2024 02:51	WG2372831
Bromobenzene	U		0.00114	0.0158	1	10/01/2024 02:51	WG2372831
Bromodichloromethane	U		0.000917	0.00316	1	10/01/2024 02:51	WG2372831
Bromoform	U		0.00148	0.0316	1	10/01/2024 02:51	WG2372831
Bromomethane	U	C3	0.00249	0.0158	1	10/01/2024 02:51	WG2372831
n-Butylbenzene	U		0.00664	0.0158	1	10/01/2024 02:51	WG2372831
sec-Butylbenzene	U		0.00364	0.0158	1	10/01/2024 02:51	WG2372831
tert-Butylbenzene	U		0.00247	0.00633	1	10/01/2024 02:51	WG2372831
Carbon tetrachloride	U		0.00114	0.00633	1	10/01/2024 02:51	WG2372831
Chlorobenzene	U		0.000266	0.00316	1	10/01/2024 02:51	WG2372831
Chlorodibromomethane	U		0.000774	0.00316	1	10/01/2024 02:51	WG2372831
Chloroethane	U	C3	0.00215	0.00633	1	10/01/2024 02:51	WG2372831
Chloroform	U		0.00130	0.00316	1	10/01/2024 02:51	WG2372831
Chloromethane	U		0.00550	0.0158	1	10/01/2024 02:51	WG2372831
2-Chlorotoluene	U		0.00109	0.00316	1	10/01/2024 02:51	WG2372831
4-Chlorotoluene	U		0.000569	0.00633	1	10/01/2024 02:51	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00494	0.0316	1	10/01/2024 02:51	WG2372831
1,2-Dibromoethane	U		0.000820	0.00316	1	10/01/2024 02:51	WG2372831
Dibromomethane	U		0.000949	0.00633	1	10/01/2024 02:51	WG2372831
1,2-Dichlorobenzene	U		0.000538	0.00633	1	10/01/2024 02:51	WG2372831
1,3-Dichlorobenzene	U		0.000759	0.00633	1	10/01/2024 02:51	WG2372831
1,4-Dichlorobenzene	U		0.000886	0.00633	1	10/01/2024 02:51	WG2372831
Dichlorodifluoromethane	U		0.00204	0.00633	1	10/01/2024 02:51	WG2372831
1,1-Dichloroethane	U		0.000621	0.00316	1	10/01/2024 02:51	WG2372831
1,2-Dichloroethane	U		0.000821	0.00316	1	10/01/2024 02:51	WG2372831
1,1-Dichloroethene	U	J3	0.000767	0.00316	1	10/01/2024 02:51	WG2372831
cis-1,2-Dichloroethene	U		0.000929	0.00316	1	10/01/2024 02:51	WG2372831
trans-1,2-Dichloroethene	U		0.00132	0.00633	1	10/01/2024 02:51	WG2372831
1,2-Dichloropropane	U		0.00180	0.00633	1	10/01/2024 02:51	WG2372831
1,1-Dichloropropene	U		0.00102	0.00316	1	10/01/2024 02:51	WG2372831
1,3-Dichloropropane	U		0.000634	0.00633	1	10/01/2024 02:51	WG2372831
cis-1,3-Dichloropropene	U		0.000958	0.00316	1	10/01/2024 02:51	WG2372831
trans-1,3-Dichloropropene	U		0.00144	0.00633	1	10/01/2024 02:51	WG2372831
2,2-Dichloropropane	U		0.00175	0.00316	1	10/01/2024 02:51	WG2372831
Di-isopropyl ether	U		0.000519	0.00127	1	10/01/2024 02:51	WG2372831
Ethylbenzene	U		0.000933	0.00316	1	10/01/2024 02:51	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00759	0.0316	1	10/01/2024 02:51	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000538	0.00316	1	10/01/2024 02:51	WG2372831
p-Isopropyltoluene	U		0.00323	0.00633	1	10/01/2024 02:51	WG2372831
2-Butanone (MEK)	U		0.0804	0.127	1	10/01/2024 02:51	WG2372831
Methylene Chloride	U		0.00840	0.0316	1	10/01/2024 02:51	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00289	0.0316	1	10/01/2024 02:51	WG2372831
Methyl tert-butyl ether	U		0.000443	0.00127	1	10/01/2024 02:51	WG2372831
Naphthalene	U		0.00618	0.0158	1	10/01/2024 02:51	WG2372831
n-Propylbenzene	U		0.00120	0.00633	1	10/01/2024 02:51	WG2372831
Styrene	U		0.000290	0.0158	1	10/01/2024 02:51	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00120	0.00316	1	10/01/2024 02:51	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.000879	0.00316	1	10/01/2024 02:51	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.000954	0.00316	1	10/01/2024 02:51	WG2372831
Tetrachloroethene	U		0.00113	0.00316	1	10/01/2024 02:51	WG2372831
Toluene	U		0.00165	0.00633	1	10/01/2024 02:51	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.00928	0.0158	1	10/01/2024 02:51	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00557	0.0158	1	10/01/2024 02:51	WG2372831
1,1,1-Trichloroethane	U		0.00117	0.00316	1	10/01/2024 02:51	WG2372831
1,1,2-Trichloroethane	U		0.000755	0.00316	1	10/01/2024 02:51	WG2372831
Trichloroethene	U		0.000739	0.00127	1	10/01/2024 02:51	WG2372831
Trichlorofluoromethane	U		0.00105	0.00316	1	10/01/2024 02:51	WG2372831
1,2,3-Trichloropropane	U		0.00205	0.0158	1	10/01/2024 02:51	WG2372831
1,2,4-Trimethylbenzene	U		0.00200	0.00633	1	10/01/2024 02:51	WG2372831
1,2,3-Trimethylbenzene	U		0.00200	0.00633	1	10/01/2024 02:51	WG2372831
1,3,5-Trimethylbenzene	U		0.00253	0.00633	1	10/01/2024 02:51	WG2372831
Vinyl chloride	U		0.00147	0.00316	1	10/01/2024 02:51	WG2372831
Xylenes, Total	U		0.00111	0.00823	1	10/01/2024 02:51	WG2372831
(S) Toluene-d8	97.7			75.0-131		10/01/2024 02:51	WG2372831
(S) 4-Bromofluorobenzene	98.3			67.0-138		10/01/2024 02:51	WG2372831
(S) 1,2-Dichloroethane-d4	78.4			70.0-130		10/01/2024 02:51	WG2372831

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

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.50	4.51	1	10/01/2024 15:06	WG2372961
Residual Range Organics (RRO)	7.38	J	3.76	11.3	1	10/01/2024 15:06	WG2372961
(S) o-Terphenyl	61.2			18.0-148		10/01/2024 15:06	WG2372961

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		0.0133	0.0384	1	10/02/2024 02:38	WG2372960
PCB 1221	U		0.0133	0.0384	1	10/02/2024 02:38	WG2372960
PCB 1232	U		0.0133	0.0384	1	10/02/2024 02:38	WG2372960
PCB 1242	U		0.0133	0.0384	1	10/02/2024 02:38	WG2372960
PCB 1248	U		0.00833	0.0192	1	10/02/2024 02:38	WG2372960
PCB 1254	U		0.00833	0.0192	1	10/02/2024 02:38	WG2372960
PCB 1260	U		0.00833	0.0192	1	10/02/2024 02:38	WG2372960
(S) Decachlorobiphenyl	97.2			10.0-135		10/02/2024 02:38	WG2372960
(S) Tetrachloro-m-xylene	84.8			10.0-139		10/02/2024 02:38	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00260	0.00677	1	09/30/2024 22:12	WG2372019
Acenaphthene	U		0.00236	0.00677	1	09/30/2024 22:12	WG2372019
Acenaphthylene	U		0.00244	0.00677	1	09/30/2024 22:12	WG2372019
Benzo(a)anthracene	U		0.00195	0.00677	1	09/30/2024 22:12	WG2372019
Benzo(a)pyrene	U		0.00202	0.00677	1	09/30/2024 22:12	WG2372019
Benzo(b)fluoranthene	U		0.00173	0.00677	1	09/30/2024 22:12	WG2372019
Benzo(g,h,i)perylene	U		0.00200	0.00677	1	09/30/2024 22:12	WG2372019
Benzo(k)fluoranthene	U		0.00243	0.00677	1	09/30/2024 22:12	WG2372019
Chrysene	U		0.00262	0.00677	1	09/30/2024 22:12	WG2372019
Dibenz(a,h)anthracene	U		0.00194	0.00677	1	09/30/2024 22:12	WG2372019
Fluoranthene	U		0.00256	0.00677	1	09/30/2024 22:12	WG2372019
Fluorene	U		0.00231	0.00677	1	09/30/2024 22:12	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00204	0.00677	1	09/30/2024 22:12	WG2372019
Naphthalene	U		0.00460	0.0226	1	09/30/2024 22:12	WG2372019
Phenanthrene	U		0.00261	0.00677	1	09/30/2024 22:12	WG2372019
Pyrene	U		0.00226	0.00677	1	09/30/2024 22:12	WG2372019
1-Methylnaphthalene	U		0.00507	0.0226	1	09/30/2024 22:12	WG2372019
2-Methylnaphthalene	U		0.00482	0.0226	1	09/30/2024 22:12	WG2372019
2-Chloronaphthalene	U		0.00526	0.0226	1	09/30/2024 22:12	WG2372019
(S) p-Terphenyl-d14	92.9			23.0-120		09/30/2024 22:12	WG2372019
(S) Nitrobenzene-d5	85.8			14.0-149		09/30/2024 22:12	WG2372019
(S) 2-Fluorobiphenyl	89.4			34.0-125		09/30/2024 22:12	WG2372019

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	09/28/2024 12:11	WG2371643

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		0.0203	0.0451	1	09/30/2024 13:25	WG2371905

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.36		0.234	0.563	1	09/30/2024 08:09	WG2371811

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		0.0498	0.0683	1.1	10/01/2024 03:11	WG2372831
Acrylonitrile	U		0.00493	0.0171	1.1	10/01/2024 03:11	WG2372831
Benzene	U		0.000638	0.00137	1.1	10/01/2024 03:11	WG2372831
Bromobenzene	U		0.00123	0.0171	1.1	10/01/2024 03:11	WG2372831
Bromodichloromethane	U		0.000989	0.00341	1.1	10/01/2024 03:11	WG2372831
Bromoform	U		0.00160	0.0341	1.1	10/01/2024 03:11	WG2372831
Bromomethane	U	C3	0.00269	0.0171	1.1	10/01/2024 03:11	WG2372831
n-Butylbenzene	U		0.00718	0.0171	1.1	10/01/2024 03:11	WG2372831
sec-Butylbenzene	U		0.00394	0.0171	1.1	10/01/2024 03:11	WG2372831
tert-Butylbenzene	U		0.00267	0.00683	1.1	10/01/2024 03:11	WG2372831
Carbon tetrachloride	U		0.00123	0.00683	1.1	10/01/2024 03:11	WG2372831
Chlorobenzene	U		0.000287	0.00341	1.1	10/01/2024 03:11	WG2372831
Chlorodibromomethane	U		0.000835	0.00341	1.1	10/01/2024 03:11	WG2372831
Chloroethane	U	C3	0.00232	0.00683	1.1	10/01/2024 03:11	WG2372831
Chloroform	U		0.00140	0.00341	1.1	10/01/2024 03:11	WG2372831
Chloromethane	U		0.00595	0.0171	1.1	10/01/2024 03:11	WG2372831
2-Chlorotoluene	U		0.00118	0.00341	1.1	10/01/2024 03:11	WG2372831
4-Chlorotoluene	U		0.000615	0.00683	1.1	10/01/2024 03:11	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00533	0.0341	1.1	10/01/2024 03:11	WG2372831
1,2-Dibromoethane	U		0.000885	0.00341	1.1	10/01/2024 03:11	WG2372831
Dibromomethane	U		0.00102	0.00683	1.1	10/01/2024 03:11	WG2372831
1,2-Dichlorobenzene	U		0.000581	0.00683	1.1	10/01/2024 03:11	WG2372831
1,3-Dichlorobenzene	U		0.000819	0.00683	1.1	10/01/2024 03:11	WG2372831
1,4-Dichlorobenzene	U		0.000956	0.00683	1.1	10/01/2024 03:11	WG2372831
Dichlorodifluoromethane	U		0.00220	0.00683	1.1	10/01/2024 03:11	WG2372831
1,1-Dichloroethane	U		0.000670	0.00341	1.1	10/01/2024 03:11	WG2372831
1,2-Dichloroethane	U		0.000886	0.00341	1.1	10/01/2024 03:11	WG2372831
1,1-Dichloroethene	U	J3	0.000828	0.00341	1.1	10/01/2024 03:11	WG2372831
cis-1,2-Dichloroethene	U		0.00100	0.00341	1.1	10/01/2024 03:11	WG2372831
trans-1,2-Dichloroethene	U		0.00142	0.00683	1.1	10/01/2024 03:11	WG2372831
1,2-Dichloropropane	U		0.00194	0.00683	1.1	10/01/2024 03:11	WG2372831
1,1-Dichloropropene	U		0.00110	0.00341	1.1	10/01/2024 03:11	WG2372831
1,3-Dichloropropane	U		0.000684	0.00683	1.1	10/01/2024 03:11	WG2372831
cis-1,3-Dichloropropene	U		0.00103	0.00341	1.1	10/01/2024 03:11	WG2372831
trans-1,3-Dichloropropene	U		0.00155	0.00683	1.1	10/01/2024 03:11	WG2372831
2,2-Dichloropropane	U		0.00189	0.00341	1.1	10/01/2024 03:11	WG2372831
Di-isopropyl ether	U		0.000560	0.00137	1.1	10/01/2024 03:11	WG2372831
Ethylbenzene	U		0.00101	0.00341	1.1	10/01/2024 03:11	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00819	0.0341	1.1	10/01/2024 03:11	WG2372831

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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
Isopropylbenzene	U		0.000581	0.00341	1.1	10/01/2024 03:11	WG2372831
p-Isopropyltoluene	U		0.00349	0.00683	1.1	10/01/2024 03:11	WG2372831
2-Butanone (MEK)	U		0.0868	0.137	1.1	10/01/2024 03:11	WG2372831
Methylene Chloride	U		0.00906	0.0341	1.1	10/01/2024 03:11	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00312	0.0341	1.1	10/01/2024 03:11	WG2372831
Methyl tert-butyl ether	U		0.000478	0.00137	1.1	10/01/2024 03:11	WG2372831
Naphthalene	U		0.00667	0.0171	1.1	10/01/2024 03:11	WG2372831
n-Propylbenzene	U		0.00130	0.00683	1.1	10/01/2024 03:11	WG2372831
Styrene	U		0.000313	0.0171	1.1	10/01/2024 03:11	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00129	0.00341	1.1	10/01/2024 03:11	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.000950	0.00341	1.1	10/01/2024 03:11	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00341	1.1	10/01/2024 03:11	WG2372831
Tetrachloroethene	U		0.00122	0.00341	1.1	10/01/2024 03:11	WG2372831
Toluene	0.00191	J	0.00178	0.00683	1.1	10/01/2024 03:11	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.0100	0.0171	1.1	10/01/2024 03:11	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00601	0.0171	1.1	10/01/2024 03:11	WG2372831
1,1,1-Trichloroethane	U		0.00127	0.00341	1.1	10/01/2024 03:11	WG2372831
1,1,2-Trichloroethane	U		0.000816	0.00341	1.1	10/01/2024 03:11	WG2372831
Trichloroethene	U		0.000797	0.00137	1.1	10/01/2024 03:11	WG2372831
Trichlorofluoromethane	U		0.00113	0.00341	1.1	10/01/2024 03:11	WG2372831
1,2,3-Trichloropropane	U		0.00221	0.0171	1.1	10/01/2024 03:11	WG2372831
1,2,4-Trimethylbenzene	U		0.00216	0.00683	1.1	10/01/2024 03:11	WG2372831
1,2,3-Trimethylbenzene	U		0.00216	0.00683	1.1	10/01/2024 03:11	WG2372831
1,3,5-Trimethylbenzene	U		0.00273	0.00683	1.1	10/01/2024 03:11	WG2372831
Vinyl chloride	U		0.00159	0.00341	1.1	10/01/2024 03:11	WG2372831
Xylenes, Total	U		0.00120	0.00888	1.1	10/01/2024 03:11	WG2372831
(S) Toluene-d8	96.0			75.0-131		10/01/2024 03:11	WG2372831
(S) 4-Bromofluorobenzene	101			67.0-138		10/01/2024 03:11	WG2372831
(S) 1,2-Dichloroethane-d4	80.4			70.0-130		10/01/2024 03:11	WG2372831

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

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	3.17	J	1.50	4.51	1	10/01/2024 15:18	WG2372961
Residual Range Organics (RRO)	5.07	J	3.75	11.3	1	10/01/2024 15:18	WG2372961
(S) o-Terphenyl	63.5			18.0-148		10/01/2024 15:18	WG2372961

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		0.0133	0.0383	1	10/02/2024 02:48	WG2372960
PCB 1221	U		0.0133	0.0383	1	10/02/2024 02:48	WG2372960
PCB 1232	U		0.0133	0.0383	1	10/02/2024 02:48	WG2372960
PCB 1242	U		0.0133	0.0383	1	10/02/2024 02:48	WG2372960
PCB 1248	U		0.00831	0.0191	1	10/02/2024 02:48	WG2372960
PCB 1254	U		0.00831	0.0191	1	10/02/2024 02:48	WG2372960
PCB 1260	U		0.00831	0.0191	1	10/02/2024 02:48	WG2372960
(S) Decachlorobiphenyl	90.2			10.0-135		10/02/2024 02:48	WG2372960
(S) Tetrachloro-m-xylene	81.0			10.0-139		10/02/2024 02:48	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00259	0.00676	1	09/30/2024 22:31	WG2372019
Acenaphthene	U		0.00235	0.00676	1	09/30/2024 22:31	WG2372019
Acenaphthylene	U		0.00243	0.00676	1	09/30/2024 22:31	WG2372019
Benzo(a)anthracene	U		0.00195	0.00676	1	09/30/2024 22:31	WG2372019
Benzo(a)pyrene	U		0.00202	0.00676	1	09/30/2024 22:31	WG2372019
Benzo(b)fluoranthene	U		0.00172	0.00676	1	09/30/2024 22:31	WG2372019
Benzo(g,h,i)perylene	U		0.00199	0.00676	1	09/30/2024 22:31	WG2372019
Benzo(k)fluoranthene	U		0.00242	0.00676	1	09/30/2024 22:31	WG2372019
Chrysene	U		0.00261	0.00676	1	09/30/2024 22:31	WG2372019
Dibenz(a,h)anthracene	U		0.00194	0.00676	1	09/30/2024 22:31	WG2372019
Fluoranthene	0.00524	LC	0.00256	0.00676	1	09/30/2024 22:31	WG2372019
Fluorene	0.00280	LC	0.00231	0.00676	1	09/30/2024 22:31	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00204	0.00676	1	09/30/2024 22:31	WG2372019
Naphthalene	U		0.00460	0.0225	1	09/30/2024 22:31	WG2372019
Phenanthrene	0.00973		0.00260	0.00676	1	09/30/2024 22:31	WG2372019
Pyrene	0.00355	LC	0.00225	0.00676	1	09/30/2024 22:31	WG2372019
1-Methylnaphthalene	U		0.00506	0.0225	1	09/30/2024 22:31	WG2372019
2-Methylnaphthalene	U		0.00481	0.0225	1	09/30/2024 22:31	WG2372019
2-Chloronaphthalene	U		0.00525	0.0225	1	09/30/2024 22:31	WG2372019
(S) p-Terphenyl-d14	95.5			23.0-120		09/30/2024 22:31	WG2372019
(S) Nitrobenzene-d5	84.2			14.0-149		09/30/2024 22:31	WG2372019
(S) 2-Fluorobiphenyl	88.5			34.0-125		09/30/2024 22:31	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.6		1	09/28/2024 12:11	WG2371643

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0223	0.0496	1	09/30/2024 13:27	WG2371905

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	8.73		0.258	0.620	1	09/30/2024 07:40	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0546	0.0747	1	10/01/2024 03:30	WG2372831
Acrylonitrile	U		0.00540	0.0187	1	10/01/2024 03:30	WG2372831
Benzene	U		0.000698	0.00149	1	10/01/2024 03:30	WG2372831
Bromobenzene	U		0.00135	0.0187	1	10/01/2024 03:30	WG2372831
Bromodichloromethane	U		0.00108	0.00374	1	10/01/2024 03:30	WG2372831
Bromoform	U		0.00175	0.0374	1	10/01/2024 03:30	WG2372831
Bromomethane	U	C3	0.00294	0.0187	1	10/01/2024 03:30	WG2372831
n-Butylbenzene	U		0.00785	0.0187	1	10/01/2024 03:30	WG2372831
sec-Butylbenzene	U		0.00430	0.0187	1	10/01/2024 03:30	WG2372831
tert-Butylbenzene	U		0.00291	0.00747	1	10/01/2024 03:30	WG2372831
Carbon tetrachloride	U		0.00134	0.00747	1	10/01/2024 03:30	WG2372831
Chlorobenzene	U		0.000314	0.00374	1	10/01/2024 03:30	WG2372831
Chlorodibromomethane	U		0.000915	0.00374	1	10/01/2024 03:30	WG2372831
Chloroethane	U	C3	0.00254	0.00747	1	10/01/2024 03:30	WG2372831
Chloroform	U		0.00154	0.00374	1	10/01/2024 03:30	WG2372831
Chloromethane	U		0.00650	0.0187	1	10/01/2024 03:30	WG2372831
2-Chlorotoluene	U		0.00129	0.00374	1	10/01/2024 03:30	WG2372831
4-Chlorotoluene	U		0.000673	0.00747	1	10/01/2024 03:30	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00583	0.0374	1	10/01/2024 03:30	WG2372831
1,2-Dibromoethane	U		0.000968	0.00374	1	10/01/2024 03:30	WG2372831
Dibromomethane	U		0.00112	0.00747	1	10/01/2024 03:30	WG2372831
1,2-Dichlorobenzene	U		0.000635	0.00747	1	10/01/2024 03:30	WG2372831
1,3-Dichlorobenzene	U		0.000897	0.00747	1	10/01/2024 03:30	WG2372831
1,4-Dichlorobenzene	U		0.00105	0.00747	1	10/01/2024 03:30	WG2372831
Dichlorodifluoromethane	U		0.00241	0.00747	1	10/01/2024 03:30	WG2372831
1,1-Dichloroethane	U		0.000734	0.00374	1	10/01/2024 03:30	WG2372831
1,2-Dichloroethane	U		0.000970	0.00374	1	10/01/2024 03:30	WG2372831
1,1-Dichloroethene	U	J3	0.000906	0.00374	1	10/01/2024 03:30	WG2372831
cis-1,2-Dichloroethene	U		0.00110	0.00374	1	10/01/2024 03:30	WG2372831
trans-1,2-Dichloroethene	U		0.00155	0.00747	1	10/01/2024 03:30	WG2372831
1,2-Dichloropropane	U		0.00212	0.00747	1	10/01/2024 03:30	WG2372831
1,1-Dichloropropene	U		0.00121	0.00374	1	10/01/2024 03:30	WG2372831
1,3-Dichloropropane	U		0.000749	0.00747	1	10/01/2024 03:30	WG2372831
cis-1,3-Dichloropropene	U		0.00113	0.00374	1	10/01/2024 03:30	WG2372831
trans-1,3-Dichloropropene	U		0.00170	0.00747	1	10/01/2024 03:30	WG2372831
2,2-Dichloropropane	U		0.00206	0.00374	1	10/01/2024 03:30	WG2372831
Di-isopropyl ether	U		0.000613	0.00149	1	10/01/2024 03:30	WG2372831
Ethylbenzene	U		0.00110	0.00374	1	10/01/2024 03:30	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00897	0.0374	1	10/01/2024 03:30	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000635	0.00374	1	10/01/2024 03:30	WG2372831
p-Isopropyltoluene	0.00393	J	0.00381	0.00747	1	10/01/2024 03:30	WG2372831
2-Butanone (MEK)	U		0.0949	0.149	1	10/01/2024 03:30	WG2372831
Methylene Chloride	U		0.00992	0.0374	1	10/01/2024 03:30	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00341	0.0374	1	10/01/2024 03:30	WG2372831
Methyl tert-butyl ether	U		0.000523	0.00149	1	10/01/2024 03:30	WG2372831
Naphthalene	U		0.00729	0.0187	1	10/01/2024 03:30	WG2372831
n-Propylbenzene	U		0.00142	0.00747	1	10/01/2024 03:30	WG2372831
Styrene	U		0.000342	0.0187	1	10/01/2024 03:30	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00142	0.00374	1	10/01/2024 03:30	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.00104	0.00374	1	10/01/2024 03:30	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00113	0.00374	1	10/01/2024 03:30	WG2372831
Tetrachloroethene	U		0.00134	0.00374	1	10/01/2024 03:30	WG2372831
Toluene	U		0.00194	0.00747	1	10/01/2024 03:30	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.0110	0.0187	1	10/01/2024 03:30	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00658	0.0187	1	10/01/2024 03:30	WG2372831
1,1,1-Trichloroethane	U		0.00138	0.00374	1	10/01/2024 03:30	WG2372831
1,1,2-Trichloroethane	U		0.000892	0.00374	1	10/01/2024 03:30	WG2372831
Trichloroethene	U		0.000873	0.00149	1	10/01/2024 03:30	WG2372831
Trichlorofluoromethane	U		0.00124	0.00374	1	10/01/2024 03:30	WG2372831
1,2,3-Trichloropropane	U		0.00242	0.0187	1	10/01/2024 03:30	WG2372831
1,2,4-Trimethylbenzene	U		0.00236	0.00747	1	10/01/2024 03:30	WG2372831
1,2,3-Trimethylbenzene	U		0.00236	0.00747	1	10/01/2024 03:30	WG2372831
1,3,5-Trimethylbenzene	U		0.00299	0.00747	1	10/01/2024 03:30	WG2372831
Vinyl chloride	U		0.00173	0.00374	1	10/01/2024 03:30	WG2372831
Xylenes, Total	U		0.00132	0.00971	1	10/01/2024 03:30	WG2372831
(S) Toluene-d8	95.8			75.0-131		10/01/2024 03:30	WG2372831
(S) 4-Bromofluorobenzene	98.9			67.0-138		10/01/2024 03:30	WG2372831
(S) 1,2-Dichloroethane-d4	77.4			70.0-130		10/01/2024 03:30	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	26.3		1.65	4.96	1	10/01/2024 14:53	WG2372961
Residual Range Organics (RRO)	13.6		4.13	12.4	1	10/01/2024 14:53	WG2372961
(S) o-Terphenyl	52.8			18.0-148		10/01/2024 14:53	WG2372961

Sample Narrative:

L1782578-04 WG2372961: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0146	0.0422	1	10/02/2024 02:57	WG2372960
PCB 1221	U		0.0146	0.0422	1	10/02/2024 02:57	WG2372960
PCB 1232	U		0.0146	0.0422	1	10/02/2024 02:57	WG2372960
PCB 1242	U		0.0146	0.0422	1	10/02/2024 02:57	WG2372960
PCB 1248	U		0.00915	0.0211	1	10/02/2024 02:57	WG2372960
PCB 1254	U		0.00915	0.0211	1	10/02/2024 02:57	WG2372960
PCB 1260	U		0.00915	0.0211	1	10/02/2024 02:57	WG2372960
(S) Decachlorobiphenyl	99.8			10.0-135		10/02/2024 02:57	WG2372960
(S) Tetrachloro-m-xylene	82.4			10.0-139		10/02/2024 02:57	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00285	0.00744	1	10/01/2024 02:07	WG2372019
Acenaphthene	0.0124		0.00259	0.00744	1	10/01/2024 02:07	WG2372019
Acenaphthylene	U		0.00268	0.00744	1	10/01/2024 02:07	WG2372019
Benzo(a)anthracene	0.00246	L	0.00215	0.00744	1	10/01/2024 02:07	WG2372019
Benzo(a)pyrene	U		0.00222	0.00744	1	10/01/2024 02:07	WG2372019
Benzo(b)fluoranthene	U		0.00190	0.00744	1	10/01/2024 02:07	WG2372019
Benzo(g,h,i)perylene	U		0.00219	0.00744	1	10/01/2024 02:07	WG2372019
Benzo(k)fluoranthene	U		0.00267	0.00744	1	10/01/2024 02:07	WG2372019
Chrysene	U		0.00288	0.00744	1	10/01/2024 02:07	WG2372019
Dibenz(a,h)anthracene	U		0.00213	0.00744	1	10/01/2024 02:07	WG2372019
Fluoranthene	0.0160		0.00281	0.00744	1	10/01/2024 02:07	WG2372019
Fluorene	0.0115		0.00254	0.00744	1	10/01/2024 02:07	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00224	0.00744	1	10/01/2024 02:07	WG2372019
Naphthalene	0.00619	L	0.00506	0.0248	1	10/01/2024 02:07	WG2372019
Phenanthrene	0.0332		0.00286	0.00744	1	10/01/2024 02:07	WG2372019
Pyrene	0.0118		0.00248	0.00744	1	10/01/2024 02:07	WG2372019
1-Methylnaphthalene	U		0.00557	0.0248	1	10/01/2024 02:07	WG2372019
2-Methylnaphthalene	0.00701	L	0.00530	0.0248	1	10/01/2024 02:07	WG2372019
2-Chloronaphthalene	U		0.00578	0.0248	1	10/01/2024 02:07	WG2372019
(S) p-Terphenyl-d14	88.8			23.0-120		10/01/2024 02:07	WG2372019
(S) Nitrobenzene-d5	84.1			14.0-149		10/01/2024 02:07	WG2372019
(S) 2-Fluorobiphenyl	84.2			34.0-125		10/01/2024 02:07	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.3		1	09/28/2024 12:11	WG2371643

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0199	0.0443	1	09/30/2024 16:38	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.40		0.230	0.554	1	09/30/2024 08:10	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0468	0.0641	1.06	10/01/2024 03:49	WG2372831
Acrylonitrile	U		0.00463	0.0161	1.06	10/01/2024 03:49	WG2372831
Benzene	U		0.000599	0.00128	1.06	10/01/2024 03:49	WG2372831
Bromobenzene	U		0.00115	0.0161	1.06	10/01/2024 03:49	WG2372831
Bromodichloromethane	U		0.000930	0.00321	1.06	10/01/2024 03:49	WG2372831
Bromoform	U		0.00150	0.0321	1.06	10/01/2024 03:49	WG2372831
Bromomethane	U	C3	0.00253	0.0161	1.06	10/01/2024 03:49	WG2372831
n-Butylbenzene	U		0.00673	0.0161	1.06	10/01/2024 03:49	WG2372831
sec-Butylbenzene	U		0.00369	0.0161	1.06	10/01/2024 03:49	WG2372831
tert-Butylbenzene	U		0.00250	0.00641	1.06	10/01/2024 03:49	WG2372831
Carbon tetrachloride	U		0.00115	0.00641	1.06	10/01/2024 03:49	WG2372831
Chlorobenzene	U		0.000270	0.00321	1.06	10/01/2024 03:49	WG2372831
Chlorodibromomethane	U		0.000785	0.00321	1.06	10/01/2024 03:49	WG2372831
Chloroethane	U	C3	0.00218	0.00641	1.06	10/01/2024 03:49	WG2372831
Chloroform	U		0.00132	0.00321	1.06	10/01/2024 03:49	WG2372831
Chloromethane	U		0.00558	0.0161	1.06	10/01/2024 03:49	WG2372831
2-Chlorotoluene	U		0.00111	0.00321	1.06	10/01/2024 03:49	WG2372831
4-Chlorotoluene	U		0.000577	0.00641	1.06	10/01/2024 03:49	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00500	0.0321	1.06	10/01/2024 03:49	WG2372831
1,2-Dibromoethane	U		0.000831	0.00321	1.06	10/01/2024 03:49	WG2372831
Dibromomethane	U		0.000962	0.00641	1.06	10/01/2024 03:49	WG2372831
1,2-Dichlorobenzene	U		0.000546	0.00641	1.06	10/01/2024 03:49	WG2372831
1,3-Dichlorobenzene	U		0.000769	0.00641	1.06	10/01/2024 03:49	WG2372831
1,4-Dichlorobenzene	U		0.000898	0.00641	1.06	10/01/2024 03:49	WG2372831
Dichlorodifluoromethane	U		0.00207	0.00641	1.06	10/01/2024 03:49	WG2372831
1,1-Dichloroethane	U		0.000629	0.00321	1.06	10/01/2024 03:49	WG2372831
1,2-Dichloroethane	U		0.000832	0.00321	1.06	10/01/2024 03:49	WG2372831
1,1-Dichloroethene	U	J3	0.000777	0.00321	1.06	10/01/2024 03:49	WG2372831
cis-1,2-Dichloroethene	U		0.000941	0.00321	1.06	10/01/2024 03:49	WG2372831
trans-1,2-Dichloroethene	U		0.00133	0.00641	1.06	10/01/2024 03:49	WG2372831
1,2-Dichloropropane	U		0.00183	0.00641	1.06	10/01/2024 03:49	WG2372831
1,1-Dichloropropene	U		0.00104	0.00321	1.06	10/01/2024 03:49	WG2372831
1,3-Dichloropropane	U		0.000642	0.00641	1.06	10/01/2024 03:49	WG2372831
cis-1,3-Dichloropropene	U		0.000970	0.00321	1.06	10/01/2024 03:49	WG2372831
trans-1,3-Dichloropropene	U		0.00146	0.00641	1.06	10/01/2024 03:49	WG2372831
2,2-Dichloropropane	U		0.00177	0.00321	1.06	10/01/2024 03:49	WG2372831
Di-isopropyl ether	U		0.000526	0.00128	1.06	10/01/2024 03:49	WG2372831
Ethylbenzene	U		0.000945	0.00321	1.06	10/01/2024 03:49	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00769	0.0321	1.06	10/01/2024 03:49	WG2372831

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000546	0.00321	1.06	10/01/2024 03:49	WG2372831
p-Isopropyltoluene	U		0.00327	0.00641	1.06	10/01/2024 03:49	WG2372831
2-Butanone (MEK)	U		0.0814	0.128	1.06	10/01/2024 03:49	WG2372831
Methylene Chloride	U		0.00852	0.0321	1.06	10/01/2024 03:49	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00293	0.0321	1.06	10/01/2024 03:49	WG2372831
Methyl tert-butyl ether	U		0.000449	0.00128	1.06	10/01/2024 03:49	WG2372831
Naphthalene	U		0.00625	0.0161	1.06	10/01/2024 03:49	WG2372831
n-Propylbenzene	U		0.00122	0.00641	1.06	10/01/2024 03:49	WG2372831
Styrene	U		0.000294	0.0161	1.06	10/01/2024 03:49	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00121	0.00321	1.06	10/01/2024 03:49	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.000892	0.00321	1.06	10/01/2024 03:49	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.000967	0.00321	1.06	10/01/2024 03:49	WG2372831
Tetrachloroethene	U		0.00115	0.00321	1.06	10/01/2024 03:49	WG2372831
Toluene	U		0.00167	0.00641	1.06	10/01/2024 03:49	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.00940	0.0161	1.06	10/01/2024 03:49	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00564	0.0161	1.06	10/01/2024 03:49	WG2372831
1,1,1-Trichloroethane	U		0.00118	0.00321	1.06	10/01/2024 03:49	WG2372831
1,1,2-Trichloroethane	U		0.000766	0.00321	1.06	10/01/2024 03:49	WG2372831
Trichloroethene	U		0.000749	0.00128	1.06	10/01/2024 03:49	WG2372831
Trichlorofluoromethane	U		0.00106	0.00321	1.06	10/01/2024 03:49	WG2372831
1,2,3-Trichloropropane	U		0.00208	0.0161	1.06	10/01/2024 03:49	WG2372831
1,2,4-Trimethylbenzene	U		0.00202	0.00641	1.06	10/01/2024 03:49	WG2372831
1,2,3-Trimethylbenzene	U		0.00202	0.00641	1.06	10/01/2024 03:49	WG2372831
1,3,5-Trimethylbenzene	U		0.00256	0.00641	1.06	10/01/2024 03:49	WG2372831
Vinyl chloride	U		0.00149	0.00321	1.06	10/01/2024 03:49	WG2372831
Xylenes, Total	U		0.00113	0.00834	1.06	10/01/2024 03:49	WG2372831
(S) Toluene-d8	96.9			75.0-131		10/01/2024 03:49	WG2372831
(S) 4-Bromofluorobenzene	97.4			67.0-138		10/01/2024 03:49	WG2372831
(S) 1,2-Dichloroethane-d4	79.2			70.0-130		10/01/2024 03:49	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.47	4.43	1	10/01/2024 14:53	WG2372961
Residual Range Organics (RRO)	U		3.69	11.1	1	10/01/2024 14:53	WG2372961
(S) o-Terphenyl	72.2			18.0-148		10/01/2024 14:53	WG2372961

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		0.0131	0.0377	1	10/02/2024 03:06	WG2372960
PCB 1221	U		0.0131	0.0377	1	10/02/2024 03:06	WG2372960
PCB 1232	U		0.0131	0.0377	1	10/02/2024 03:06	WG2372960
PCB 1242	U		0.0131	0.0377	1	10/02/2024 03:06	WG2372960
PCB 1248	U		0.00818	0.0188	1	10/02/2024 03:06	WG2372960
PCB 1254	U		0.00818	0.0188	1	10/02/2024 03:06	WG2372960
PCB 1260	U		0.00818	0.0188	1	10/02/2024 03:06	WG2372960
(S) Decachlorobiphenyl	92.6			10.0-135		10/02/2024 03:06	WG2372960
(S) Tetrachloro-m-xylene	85.3			10.0-139		10/02/2024 03:06	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00255	0.00665	1	09/30/2024 22:51	WG2372019
Acenaphthene	U		0.00232	0.00665	1	09/30/2024 22:51	WG2372019
Acenaphthylene	U		0.00239	0.00665	1	09/30/2024 22:51	WG2372019
Benzo(a)anthracene	U		0.00192	0.00665	1	09/30/2024 22:51	WG2372019
Benzo(a)pyrene	U		0.00198	0.00665	1	09/30/2024 22:51	WG2372019
Benzo(b)fluoranthene	U		0.00170	0.00665	1	09/30/2024 22:51	WG2372019
Benzo(g,h,i)perylene	U		0.00196	0.00665	1	09/30/2024 22:51	WG2372019
Benzo(k)fluoranthene	U		0.00238	0.00665	1	09/30/2024 22:51	WG2372019
Chrysene	U		0.00257	0.00665	1	09/30/2024 22:51	WG2372019
Dibenz(a,h)anthracene	U		0.00191	0.00665	1	09/30/2024 22:51	WG2372019
Fluoranthene	U		0.00252	0.00665	1	09/30/2024 22:51	WG2372019
Fluorene	U		0.00227	0.00665	1	09/30/2024 22:51	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00201	0.00665	1	09/30/2024 22:51	WG2372019
Naphthalene	U		0.00452	0.0222	1	09/30/2024 22:51	WG2372019
Phenanthrene	U		0.00256	0.00665	1	09/30/2024 22:51	WG2372019
Pyrene	U		0.00222	0.00665	1	09/30/2024 22:51	WG2372019
1-Methylnaphthalene	U		0.00497	0.0222	1	09/30/2024 22:51	WG2372019
2-Methylnaphthalene	U		0.00473	0.0222	1	09/30/2024 22:51	WG2372019
2-Chloronaphthalene	U		0.00516	0.0222	1	09/30/2024 22:51	WG2372019
(S) p-Terphenyl-d14	74.7			23.0-120		09/30/2024 22:51	WG2372019
(S) Nitrobenzene-d5	70.4			14.0-149		09/30/2024 22:51	WG2372019
(S) 2-Fluorobiphenyl	71.5			34.0-125		09/30/2024 22:51	WG2372019

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	79.4		1	09/28/2024 12:11	WG2371643

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0227	0.0504	1	09/30/2024 16:41	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.52		0.262	0.630	1	09/30/2024 08:12	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0576	0.0789	1	10/01/2024 04:08	WG2372831
Acrylonitrile	U		0.00570	0.0197	1	10/01/2024 04:08	WG2372831
Benzene	U		0.000737	0.00158	1	10/01/2024 04:08	WG2372831
Bromobenzene	U		0.00142	0.0197	1	10/01/2024 04:08	WG2372831
Bromodichloromethane	U		0.00114	0.00395	1	10/01/2024 04:08	WG2372831
Bromoform	U		0.00185	0.0395	1	10/01/2024 04:08	WG2372831
Bromomethane	U	C3	0.00311	0.0197	1	10/01/2024 04:08	WG2372831
n-Butylbenzene	U		0.00829	0.0197	1	10/01/2024 04:08	WG2372831
sec-Butylbenzene	U		0.00455	0.0197	1	10/01/2024 04:08	WG2372831
tert-Butylbenzene	U		0.00308	0.00789	1	10/01/2024 04:08	WG2372831
Carbon tetrachloride	U		0.00142	0.00789	1	10/01/2024 04:08	WG2372831
Chlorobenzene	U		0.000332	0.00395	1	10/01/2024 04:08	WG2372831
Chlorodibromomethane	U		0.000966	0.00395	1	10/01/2024 04:08	WG2372831
Chloroethane	U	C3	0.00268	0.00789	1	10/01/2024 04:08	WG2372831
Chloroform	U		0.00163	0.00395	1	10/01/2024 04:08	WG2372831
Chloromethane	U		0.00687	0.0197	1	10/01/2024 04:08	WG2372831
2-Chlorotoluene	U		0.00137	0.00395	1	10/01/2024 04:08	WG2372831
4-Chlorotoluene	U		0.000710	0.00789	1	10/01/2024 04:08	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00616	0.0395	1	10/01/2024 04:08	WG2372831
1,2-Dibromoethane	U		0.00102	0.00395	1	10/01/2024 04:08	WG2372831
Dibromomethane	U		0.00118	0.00789	1	10/01/2024 04:08	WG2372831
1,2-Dichlorobenzene	U		0.000671	0.00789	1	10/01/2024 04:08	WG2372831
1,3-Dichlorobenzene	U		0.000947	0.00789	1	10/01/2024 04:08	WG2372831
1,4-Dichlorobenzene	U		0.00111	0.00789	1	10/01/2024 04:08	WG2372831
Dichlorodifluoromethane	U		0.00254	0.00789	1	10/01/2024 04:08	WG2372831
1,1-Dichloroethane	U		0.000775	0.00395	1	10/01/2024 04:08	WG2372831
1,2-Dichloroethane	U		0.00102	0.00395	1	10/01/2024 04:08	WG2372831
1,1-Dichloroethene	U	J3	0.000957	0.00395	1	10/01/2024 04:08	WG2372831
cis-1,2-Dichloroethene	U		0.00116	0.00395	1	10/01/2024 04:08	WG2372831
trans-1,2-Dichloroethene	U		0.00164	0.00789	1	10/01/2024 04:08	WG2372831
1,2-Dichloropropane	U		0.00224	0.00789	1	10/01/2024 04:08	WG2372831
1,1-Dichloropropene	U		0.00128	0.00395	1	10/01/2024 04:08	WG2372831
1,3-Dichloropropane	U		0.000791	0.00789	1	10/01/2024 04:08	WG2372831
cis-1,3-Dichloropropene	U		0.00120	0.00395	1	10/01/2024 04:08	WG2372831
trans-1,3-Dichloropropene	U		0.00180	0.00789	1	10/01/2024 04:08	WG2372831
2,2-Dichloropropane	U		0.00218	0.00395	1	10/01/2024 04:08	WG2372831
Di-isopropyl ether	U		0.000647	0.00158	1	10/01/2024 04:08	WG2372831
Ethylbenzene	U		0.00116	0.00395	1	10/01/2024 04:08	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00947	0.0395	1	10/01/2024 04:08	WG2372831

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000671	0.00395	1	10/01/2024 04:08	WG2372831
p-Isopropyltoluene	0.0108		0.00403	0.00789	1	10/01/2024 04:08	WG2372831
2-Butanone (MEK)	U		0.100	0.158	1	10/01/2024 04:08	WG2372831
Methylene Chloride	U		0.0105	0.0395	1	10/01/2024 04:08	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00360	0.0395	1	10/01/2024 04:08	WG2372831
Methyl tert-butyl ether	U		0.000553	0.00158	1	10/01/2024 04:08	WG2372831
Naphthalene	0.0572		0.00770	0.0197	1	10/01/2024 04:08	WG2372831
n-Propylbenzene	U		0.00150	0.00789	1	10/01/2024 04:08	WG2372831
Styrene	U		0.000362	0.0197	1	10/01/2024 04:08	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00150	0.00395	1	10/01/2024 04:08	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.00110	0.00395	1	10/01/2024 04:08	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00119	0.00395	1	10/01/2024 04:08	WG2372831
Tetrachloroethene	U		0.00141	0.00395	1	10/01/2024 04:08	WG2372831
Toluene	U		0.00205	0.00789	1	10/01/2024 04:08	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.0116	0.0197	1	10/01/2024 04:08	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00695	0.0197	1	10/01/2024 04:08	WG2372831
1,1,1-Trichloroethane	U		0.00146	0.00395	1	10/01/2024 04:08	WG2372831
1,1,2-Trichloroethane	U		0.000943	0.00395	1	10/01/2024 04:08	WG2372831
Trichloroethene	U		0.000922	0.00158	1	10/01/2024 04:08	WG2372831
Trichlorofluoromethane	U		0.00131	0.00395	1	10/01/2024 04:08	WG2372831
1,2,3-Trichloropropane	U		0.00256	0.0197	1	10/01/2024 04:08	WG2372831
1,2,4-Trimethylbenzene	U		0.00249	0.00789	1	10/01/2024 04:08	WG2372831
1,2,3-Trimethylbenzene	U		0.00249	0.00789	1	10/01/2024 04:08	WG2372831
1,3,5-Trimethylbenzene	U		0.00316	0.00789	1	10/01/2024 04:08	WG2372831
Vinyl chloride	U		0.00183	0.00395	1	10/01/2024 04:08	WG2372831
Xylenes, Total	U		0.00139	0.0103	1	10/01/2024 04:08	WG2372831
(S) Toluene-d8	99.7			75.0-131		10/01/2024 04:08	WG2372831
(S) 4-Bromofluorobenzene	118			67.0-138		10/01/2024 04:08	WG2372831
(S) 1,2-Dichloroethane-d4	82.6			70.0-130		10/01/2024 04:08	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	63.0		1.67	5.04	1	10/01/2024 15:31	WG2372961
Residual Range Organics (RRO)	103		4.19	12.6	1	10/01/2024 15:31	WG2372961
(S) o-Terphenyl	68.5			18.0-148		10/01/2024 15:31	WG2372961

Sample Narrative:

L1782578-06 WG2372961: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0149	0.0428	1	10/02/2024 03:16	WG2372960
PCB 1221	U		0.0149	0.0428	1	10/02/2024 03:16	WG2372960
PCB 1232	U		0.0149	0.0428	1	10/02/2024 03:16	WG2372960
PCB 1242	U		0.0149	0.0428	1	10/02/2024 03:16	WG2372960
PCB 1248	U		0.00929	0.0214	1	10/02/2024 03:16	WG2372960
PCB 1254	U		0.00929	0.0214	1	10/02/2024 03:16	WG2372960
PCB 1260	U		0.00929	0.0214	1	10/02/2024 03:16	WG2372960
(S) Decachlorobiphenyl	79.3			10.0-135		10/02/2024 03:16	WG2372960
(S) Tetrachloro-m-xylene	73.8			10.0-139		10/02/2024 03:16	WG2372960

A_F_P-Q_4D@12

Collected date/time: 09/26/24 13:40

SAMPLE RESULTS - 06

L1782578

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0210		0.00290	0.00755	1	10/01/2024 02:26	WG2372019
Acenaphthene	0.0283		0.00263	0.00755	1	10/01/2024 02:26	WG2372019
Acenaphthylene	U		0.00272	0.00755	1	10/01/2024 02:26	WG2372019
Benzo(a)anthracene	0.0131		0.00218	0.00755	1	10/01/2024 02:26	WG2372019
Benzo(a)pyrene	0.00510	J	0.00225	0.00755	1	10/01/2024 02:26	WG2372019
Benzo(b)fluoranthene	0.00687	J	0.00193	0.00755	1	10/01/2024 02:26	WG2372019
Benzo(g,h,i)perylene	0.00251	J	0.00223	0.00755	1	10/01/2024 02:26	WG2372019
Benzo(k)fluoranthene	U		0.00271	0.00755	1	10/01/2024 02:26	WG2372019
Chrysene	0.0118		0.00292	0.00755	1	10/01/2024 02:26	WG2372019
Dibenz(a,h)anthracene	U		0.00217	0.00755	1	10/01/2024 02:26	WG2372019
Fluoranthene	0.0585		0.00286	0.00755	1	10/01/2024 02:26	WG2372019
Fluorene	0.0317		0.00258	0.00755	1	10/01/2024 02:26	WG2372019
Indeno(1,2,3-cd)pyrene	0.00256	J	0.00228	0.00755	1	10/01/2024 02:26	WG2372019
Naphthalene	0.0277		0.00514	0.0252	1	10/01/2024 02:26	WG2372019
Phenanthrene	0.122		0.00291	0.00755	1	10/01/2024 02:26	WG2372019
Pyrene	0.0399		0.00252	0.00755	1	10/01/2024 02:26	WG2372019
1-Methylnaphthalene	0.0107	J	0.00565	0.0252	1	10/01/2024 02:26	WG2372019
2-Methylnaphthalene	0.0206	J	0.00538	0.0252	1	10/01/2024 02:26	WG2372019
2-Chloronaphthalene	U		0.00587	0.0252	1	10/01/2024 02:26	WG2372019
(S) p-Terphenyl-d14	71.3			23.0-120		10/01/2024 02:26	WG2372019
(S) Nitrobenzene-d5	77.9			14.0-149		10/01/2024 02:26	WG2372019
(S) 2-Fluorobiphenyl	72.6			34.0-125		10/01/2024 02:26	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.1		1	09/28/2024 12:11	WG2371643

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0225	0.0499	1	09/30/2024 16:43	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	7.16		0.260	0.624	1	09/30/2024 08:17	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0553	0.0758	1	10/01/2024 04:27	WG2372831
Acrylonitrile	U		0.00547	0.0190	1	10/01/2024 04:27	WG2372831
Benzene	U		0.000708	0.00152	1	10/01/2024 04:27	WG2372831
Bromobenzene	U		0.00136	0.0190	1	10/01/2024 04:27	WG2372831
Bromodichloromethane	U		0.00110	0.00379	1	10/01/2024 04:27	WG2372831
Bromoform	U		0.00177	0.0379	1	10/01/2024 04:27	WG2372831
Bromomethane	U	C3	0.00299	0.0190	1	10/01/2024 04:27	WG2372831
n-Butylbenzene	U		0.00796	0.0190	1	10/01/2024 04:27	WG2372831
sec-Butylbenzene	U		0.00437	0.0190	1	10/01/2024 04:27	WG2372831
tert-Butylbenzene	U		0.00296	0.00758	1	10/01/2024 04:27	WG2372831
Carbon tetrachloride	U		0.00136	0.00758	1	10/01/2024 04:27	WG2372831
Chlorobenzene	U		0.000318	0.00379	1	10/01/2024 04:27	WG2372831
Chlorodibromomethane	U		0.000928	0.00379	1	10/01/2024 04:27	WG2372831
Chloroethane	U	C3	0.00258	0.00758	1	10/01/2024 04:27	WG2372831
Chloroform	U		0.00156	0.00379	1	10/01/2024 04:27	WG2372831
Chloromethane	U		0.00660	0.0190	1	10/01/2024 04:27	WG2372831
2-Chlorotoluene	U		0.00131	0.00379	1	10/01/2024 04:27	WG2372831
4-Chlorotoluene	U		0.000682	0.00758	1	10/01/2024 04:27	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00591	0.0379	1	10/01/2024 04:27	WG2372831
1,2-Dibromoethane	U		0.000983	0.00379	1	10/01/2024 04:27	WG2372831
Dibromomethane	U		0.00114	0.00758	1	10/01/2024 04:27	WG2372831
1,2-Dichlorobenzene	U		0.000644	0.00758	1	10/01/2024 04:27	WG2372831
1,3-Dichlorobenzene	U		0.000910	0.00758	1	10/01/2024 04:27	WG2372831
1,4-Dichlorobenzene	U		0.00106	0.00758	1	10/01/2024 04:27	WG2372831
Dichlorodifluoromethane	U		0.00244	0.00758	1	10/01/2024 04:27	WG2372831
1,1-Dichloroethane	U		0.000745	0.00379	1	10/01/2024 04:27	WG2372831
1,2-Dichloroethane	U		0.000984	0.00379	1	10/01/2024 04:27	WG2372831
1,1-Dichloroethene	U	J3	0.000919	0.00379	1	10/01/2024 04:27	WG2372831
cis-1,2-Dichloroethene	U		0.00111	0.00379	1	10/01/2024 04:27	WG2372831
trans-1,2-Dichloroethene	U		0.00158	0.00758	1	10/01/2024 04:27	WG2372831
1,2-Dichloropropane	U		0.00215	0.00758	1	10/01/2024 04:27	WG2372831
1,1-Dichloropropene	U		0.00123	0.00379	1	10/01/2024 04:27	WG2372831
1,3-Dichloropropane	U		0.000760	0.00758	1	10/01/2024 04:27	WG2372831
cis-1,3-Dichloropropene	U		0.00115	0.00379	1	10/01/2024 04:27	WG2372831
trans-1,3-Dichloropropene	U		0.00173	0.00758	1	10/01/2024 04:27	WG2372831
2,2-Dichloropropane	U		0.00209	0.00379	1	10/01/2024 04:27	WG2372831
Di-isopropyl ether	U		0.000622	0.00152	1	10/01/2024 04:27	WG2372831
Ethylbenzene	U		0.00112	0.00379	1	10/01/2024 04:27	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00910	0.0379	1	10/01/2024 04:27	WG2372831

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000644	0.00379	1	10/01/2024 04:27	WG2372831
p-Isopropyltoluene	U		0.00387	0.00758	1	10/01/2024 04:27	WG2372831
2-Butanone (MEK)	U		0.0963	0.152	1	10/01/2024 04:27	WG2372831
Methylene Chloride	U		0.0101	0.0379	1	10/01/2024 04:27	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00346	0.0379	1	10/01/2024 04:27	WG2372831
Methyl tert-butyl ether	U		0.000531	0.00152	1	10/01/2024 04:27	WG2372831
Naphthalene	U		0.00740	0.0190	1	10/01/2024 04:27	WG2372831
n-Propylbenzene	U		0.00144	0.00758	1	10/01/2024 04:27	WG2372831
Styrene	U		0.000347	0.0190	1	10/01/2024 04:27	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00144	0.00379	1	10/01/2024 04:27	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.00105	0.00379	1	10/01/2024 04:27	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00114	0.00379	1	10/01/2024 04:27	WG2372831
Tetrachloroethene	U		0.00136	0.00379	1	10/01/2024 04:27	WG2372831
Toluene	U		0.00197	0.00758	1	10/01/2024 04:27	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.0111	0.0190	1	10/01/2024 04:27	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00667	0.0190	1	10/01/2024 04:27	WG2372831
1,1,1-Trichloroethane	U		0.00140	0.00379	1	10/01/2024 04:27	WG2372831
1,1,2-Trichloroethane	U		0.000905	0.00379	1	10/01/2024 04:27	WG2372831
Trichloroethene	U		0.000886	0.00152	1	10/01/2024 04:27	WG2372831
Trichlorofluoromethane	U		0.00125	0.00379	1	10/01/2024 04:27	WG2372831
1,2,3-Trichloropropane	U		0.00246	0.0190	1	10/01/2024 04:27	WG2372831
1,2,4-Trimethylbenzene	U		0.00240	0.00758	1	10/01/2024 04:27	WG2372831
1,2,3-Trimethylbenzene	U		0.00240	0.00758	1	10/01/2024 04:27	WG2372831
1,3,5-Trimethylbenzene	U		0.00303	0.00758	1	10/01/2024 04:27	WG2372831
Vinyl chloride	U		0.00176	0.00379	1	10/01/2024 04:27	WG2372831
Xylenes, Total	U		0.00133	0.00986	1	10/01/2024 04:27	WG2372831
(S) Toluene-d8	96.2			75.0-131		10/01/2024 04:27	WG2372831
(S) 4-Bromofluorobenzene	99.1			67.0-138		10/01/2024 04:27	WG2372831
(S) 1,2-Dichloroethane-d4	81.8			70.0-130		10/01/2024 04:27	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.67		1.66	4.99	1	10/01/2024 15:06	WG2372961
Residual Range Organics (RRO)	19.0		4.16	12.5	1	10/01/2024 15:06	WG2372961
(S) o-Terphenyl	47.7			18.0-148		10/01/2024 15:06	WG2372961

Sample Narrative:

L1782578-07 WG2372961: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0147	0.0425	1	10/02/2024 03:25	WG2372960
PCB 1221	U		0.0147	0.0425	1	10/02/2024 03:25	WG2372960
PCB 1232	U		0.0147	0.0425	1	10/02/2024 03:25	WG2372960
PCB 1242	U		0.0147	0.0425	1	10/02/2024 03:25	WG2372960
PCB 1248	U		0.00921	0.0212	1	10/02/2024 03:25	WG2372960
PCB 1254	U		0.00921	0.0212	1	10/02/2024 03:25	WG2372960
PCB 1260	U		0.00921	0.0212	1	10/02/2024 03:25	WG2372960
(S) Decachlorobiphenyl	85.9			10.0-135		10/02/2024 03:25	WG2372960
(S) Tetrachloro-m-xylene	82.7			10.0-139		10/02/2024 03:25	WG2372960

A_F_Q+_4D+@12

Collected date/time: 09/26/24 14:00

SAMPLE RESULTS - 07

L1782578

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00287	0.00749	1	09/30/2024 23:10	WG2372019
Acenaphthene	U		0.00261	0.00749	1	09/30/2024 23:10	WG2372019
Acenaphthylene	U		0.00270	0.00749	1	09/30/2024 23:10	WG2372019
Benzo(a)anthracene	U		0.00216	0.00749	1	09/30/2024 23:10	WG2372019
Benzo(a)pyrene	U		0.00223	0.00749	1	09/30/2024 23:10	WG2372019
Benzo(b)fluoranthene	U		0.00191	0.00749	1	09/30/2024 23:10	WG2372019
Benzo(g,h,i)perylene	U		0.00221	0.00749	1	09/30/2024 23:10	WG2372019
Benzo(k)fluoranthene	U		0.00268	0.00749	1	09/30/2024 23:10	WG2372019
Chrysene	U		0.00290	0.00749	1	09/30/2024 23:10	WG2372019
Dibenz(a,h)anthracene	U		0.00215	0.00749	1	09/30/2024 23:10	WG2372019
Fluoranthene	U		0.00283	0.00749	1	09/30/2024 23:10	WG2372019
Fluorene	U		0.00256	0.00749	1	09/30/2024 23:10	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00226	0.00749	1	09/30/2024 23:10	WG2372019
Naphthalene	U		0.00509	0.0250	1	09/30/2024 23:10	WG2372019
Phenanthrene	U		0.00288	0.00749	1	09/30/2024 23:10	WG2372019
Pyrene	U		0.00250	0.00749	1	09/30/2024 23:10	WG2372019
1-Methylnaphthalene	U		0.00561	0.0250	1	09/30/2024 23:10	WG2372019
2-Methylnaphthalene	U		0.00533	0.0250	1	09/30/2024 23:10	WG2372019
2-Chloronaphthalene	U		0.00582	0.0250	1	09/30/2024 23:10	WG2372019
(S) p-Terphenyl-d14	88.6			23.0-120		09/30/2024 23:10	WG2372019
(S) Nitrobenzene-d5	83.8			14.0-149		09/30/2024 23:10	WG2372019
(S) 2-Fluorobiphenyl	86.5			34.0-125		09/30/2024 23:10	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	82.2		1	09/28/2024 12:11	WG2371643

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0219	0.0486	1	09/30/2024 16:46	WG2371597

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	6.72		0.253	0.608	1	09/30/2024 08:18	WG2371811

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0531	0.0728	1	10/01/2024 04:46	WG2372831
Acrylonitrile	U		0.00525	0.0182	1	10/01/2024 04:46	WG2372831
Benzene	U		0.000680	0.00146	1	10/01/2024 04:46	WG2372831
Bromobenzene	U		0.00131	0.0182	1	10/01/2024 04:46	WG2372831
Bromodichloromethane	U		0.00106	0.00364	1	10/01/2024 04:46	WG2372831
Bromoform	U		0.00170	0.0364	1	10/01/2024 04:46	WG2372831
Bromomethane	U	C3	0.00287	0.0182	1	10/01/2024 04:46	WG2372831
n-Butylbenzene	U		0.00764	0.0182	1	10/01/2024 04:46	WG2372831
sec-Butylbenzene	U		0.00419	0.0182	1	10/01/2024 04:46	WG2372831
tert-Butylbenzene	U		0.00284	0.00728	1	10/01/2024 04:46	WG2372831
Carbon tetrachloride	U		0.00131	0.00728	1	10/01/2024 04:46	WG2372831
Chlorobenzene	U		0.000306	0.00364	1	10/01/2024 04:46	WG2372831
Chlorodibromomethane	U		0.000891	0.00364	1	10/01/2024 04:46	WG2372831
Chloroethane	U	C3	0.00247	0.00728	1	10/01/2024 04:46	WG2372831
Chloroform	U		0.00150	0.00364	1	10/01/2024 04:46	WG2372831
Chloromethane	U		0.00633	0.0182	1	10/01/2024 04:46	WG2372831
2-Chlorotoluene	U		0.00126	0.00364	1	10/01/2024 04:46	WG2372831
4-Chlorotoluene	U		0.000655	0.00728	1	10/01/2024 04:46	WG2372831
1,2-Dibromo-3-Chloropropane	U		0.00568	0.0364	1	10/01/2024 04:46	WG2372831
1,2-Dibromoethane	U		0.000943	0.00364	1	10/01/2024 04:46	WG2372831
Dibromomethane	U		0.00109	0.00728	1	10/01/2024 04:46	WG2372831
1,2-Dichlorobenzene	U		0.000618	0.00728	1	10/01/2024 04:46	WG2372831
1,3-Dichlorobenzene	U		0.000873	0.00728	1	10/01/2024 04:46	WG2372831
1,4-Dichlorobenzene	U		0.00102	0.00728	1	10/01/2024 04:46	WG2372831
Dichlorodifluoromethane	U		0.00234	0.00728	1	10/01/2024 04:46	WG2372831
1,1-Dichloroethane	U		0.000715	0.00364	1	10/01/2024 04:46	WG2372831
1,2-Dichloroethane	U		0.000944	0.00364	1	10/01/2024 04:46	WG2372831
1,1-Dichloroethene	U	J3	0.000882	0.00364	1	10/01/2024 04:46	WG2372831
cis-1,2-Dichloroethene	U		0.00107	0.00364	1	10/01/2024 04:46	WG2372831
trans-1,2-Dichloroethene	U		0.00151	0.00728	1	10/01/2024 04:46	WG2372831
1,2-Dichloropropane	U		0.00207	0.00728	1	10/01/2024 04:46	WG2372831
1,1-Dichloropropene	U		0.00118	0.00364	1	10/01/2024 04:46	WG2372831
1,3-Dichloropropane	U		0.000729	0.00728	1	10/01/2024 04:46	WG2372831
cis-1,3-Dichloropropene	U		0.00110	0.00364	1	10/01/2024 04:46	WG2372831
trans-1,3-Dichloropropene	U		0.00166	0.00728	1	10/01/2024 04:46	WG2372831
2,2-Dichloropropane	U		0.00201	0.00364	1	10/01/2024 04:46	WG2372831
Di-isopropyl ether	U		0.000597	0.00146	1	10/01/2024 04:46	WG2372831
Ethylbenzene	U		0.00107	0.00364	1	10/01/2024 04:46	WG2372831
Hexachloro-1,3-butadiene	U	J4	0.00873	0.0364	1	10/01/2024 04:46	WG2372831

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000618	0.00364	1	10/01/2024 04:46	WG2372831
p-Isopropyltoluene	U		0.00371	0.00728	1	10/01/2024 04:46	WG2372831
2-Butanone (MEK)	U		0.0924	0.146	1	10/01/2024 04:46	WG2372831
Methylene Chloride	U		0.00966	0.0364	1	10/01/2024 04:46	WG2372831
4-Methyl-2-pentanone (MIBK)	U		0.00332	0.0364	1	10/01/2024 04:46	WG2372831
Methyl tert-butyl ether	U		0.000509	0.00146	1	10/01/2024 04:46	WG2372831
Naphthalene	U		0.00710	0.0182	1	10/01/2024 04:46	WG2372831
n-Propylbenzene	U		0.00138	0.00728	1	10/01/2024 04:46	WG2372831
Styrene	U		0.000333	0.0182	1	10/01/2024 04:46	WG2372831
1,1,1,2-Tetrachloroethane	U		0.00138	0.00364	1	10/01/2024 04:46	WG2372831
1,1,2,2-Tetrachloroethane	U	C3	0.00101	0.00364	1	10/01/2024 04:46	WG2372831
1,1,2-Trichlorotrifluoroethane	U		0.00110	0.00364	1	10/01/2024 04:46	WG2372831
Tetrachloroethene	U		0.00130	0.00364	1	10/01/2024 04:46	WG2372831
Toluene	U		0.00189	0.00728	1	10/01/2024 04:46	WG2372831
1,2,3-Trichlorobenzene	U	J3 J4	0.0107	0.0182	1	10/01/2024 04:46	WG2372831
1,2,4-Trichlorobenzene	U	J4	0.00640	0.0182	1	10/01/2024 04:46	WG2372831
1,1,1-Trichloroethane	U		0.00134	0.00364	1	10/01/2024 04:46	WG2372831
1,1,2-Trichloroethane	U		0.000869	0.00364	1	10/01/2024 04:46	WG2372831
Trichloroethene	U		0.000850	0.00146	1	10/01/2024 04:46	WG2372831
Trichlorofluoromethane	U		0.00120	0.00364	1	10/01/2024 04:46	WG2372831
1,2,3-Trichloropropane	U		0.00236	0.0182	1	10/01/2024 04:46	WG2372831
1,2,4-Trimethylbenzene	U		0.00230	0.00728	1	10/01/2024 04:46	WG2372831
1,2,3-Trimethylbenzene	U		0.00230	0.00728	1	10/01/2024 04:46	WG2372831
1,3,5-Trimethylbenzene	U		0.00291	0.00728	1	10/01/2024 04:46	WG2372831
Vinyl chloride	U		0.00169	0.00364	1	10/01/2024 04:46	WG2372831
Xylenes, Total	U		0.00128	0.00946	1	10/01/2024 04:46	WG2372831
(S) Toluene-d8	95.2			75.0-131		10/01/2024 04:46	WG2372831
(S) 4-Bromofluorobenzene	98.4			67.0-138		10/01/2024 04:46	WG2372831
(S) 1,2-Dichloroethane-d4	81.5			70.0-130		10/01/2024 04:46	WG2372831

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	8.39		1.62	4.86	1	10/01/2024 14:03	WG2372961
Residual Range Organics (RRO)	8.24	J	4.05	12.2	1	10/01/2024 14:03	WG2372961
(S) o-Terphenyl	72.9			18.0-148		10/01/2024 14:03	WG2372961

Sample Narrative:

L1782578-08 WG2372961: Sample resembles laboratory standard for Hydraulic Oil.

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		0.0143	0.0413	1	10/02/2024 03:34	WG2372960
PCB 1221	U		0.0143	0.0413	1	10/02/2024 03:34	WG2372960
PCB 1232	U		0.0143	0.0413	1	10/02/2024 03:34	WG2372960
PCB 1242	U		0.0143	0.0413	1	10/02/2024 03:34	WG2372960
PCB 1248	U		0.00897	0.0207	1	10/02/2024 03:34	WG2372960
PCB 1254	U		0.00897	0.0207	1	10/02/2024 03:34	WG2372960
PCB 1260	U		0.00897	0.0207	1	10/02/2024 03:34	WG2372960
(S) Decachlorobiphenyl	87.5			10.0-135		10/02/2024 03:34	WG2372960
(S) Tetrachloro-m-xylene	81.6			10.0-139		10/02/2024 03:34	WG2372960

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00280	0.00730	1	09/30/2024 23:30	WG2372019
Acenaphthene	U		0.00254	0.00730	1	09/30/2024 23:30	WG2372019
Acenaphthylene	U		0.00263	0.00730	1	09/30/2024 23:30	WG2372019
Benzo(a)anthracene	U		0.00210	0.00730	1	09/30/2024 23:30	WG2372019
Benzo(a)pyrene	U		0.00218	0.00730	1	09/30/2024 23:30	WG2372019
Benzo(b)fluoranthene	U		0.00186	0.00730	1	09/30/2024 23:30	WG2372019
Benzo(g,h,i)perylene	U		0.00215	0.00730	1	09/30/2024 23:30	WG2372019
Benzo(k)fluoranthene	U		0.00261	0.00730	1	09/30/2024 23:30	WG2372019
Chrysene	U		0.00282	0.00730	1	09/30/2024 23:30	WG2372019
Dibenz(a,h)anthracene	U		0.00209	0.00730	1	09/30/2024 23:30	WG2372019
Fluoranthene	U		0.00276	0.00730	1	09/30/2024 23:30	WG2372019
Fluorene	U		0.00249	0.00730	1	09/30/2024 23:30	WG2372019
Indeno(1,2,3-cd)pyrene	U		0.00220	0.00730	1	09/30/2024 23:30	WG2372019
Naphthalene	U		0.00496	0.0243	1	09/30/2024 23:30	WG2372019
Phenanthrene	U		0.00281	0.00730	1	09/30/2024 23:30	WG2372019
Pyrene	U		0.00243	0.00730	1	09/30/2024 23:30	WG2372019
1-Methylnaphthalene	U		0.00546	0.0243	1	09/30/2024 23:30	WG2372019
2-Methylnaphthalene	U		0.00519	0.0243	1	09/30/2024 23:30	WG2372019
2-Chloronaphthalene	U		0.00567	0.0243	1	09/30/2024 23:30	WG2372019
(S) p-Terphenyl-d14	96.6			23.0-120		09/30/2024 23:30	WG2372019
(S) Nitrobenzene-d5	84.7			14.0-149		09/30/2024 23:30	WG2372019
(S) 2-Fluorobiphenyl	89.5			34.0-125		09/30/2024 23:30	WG2372019

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4126127-1 09/28/24 14:59

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1781265-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1781265-06 09/28/24 14:59 • (DUP) R4126127-3 09/28/24 14:59

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	75.7	76.0	1	0.468		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4126127-2 09/28/24 14:59

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

⁹Sc

Method Blank (MB)

(MB) R4126118-1 09/28/24 12:11

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00300			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1782578-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1782578-04 09/28/24 12:11 • (DUP) R4126118-3 09/28/24 12:11

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.6	81.2	1	0.646		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4126118-2 09/28/24 12:11

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

⁹Sc

Method Blank (MB)

(MB) R4126336-1 09/30/24 15:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4126336-2 09/30/24 15:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.485	97.0	80.0-120	

L1781219-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1781219-01 09/30/24 15:38 • (MS) R4126336-4 09/30/24 15:43 • (MSD) R4126336-5 09/30/24 15:51

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.583	0.0274	0.578	0.608	94.5	99.6	1	75.0-125			5.08	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4126218-1 09/30/24 12:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4126218-2 09/30/24 12:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.486	97.2	80.0-120	

L1782973-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1782973-09 09/30/24 13:02 • (MS) R4126218-4 09/30/24 13:07 • (MSD) R4126218-5 09/30/24 13:14

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.595	U	0.544	0.604	91.5	102	1	75.0-125			10.5	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4126185-1 09/30/24 07:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	0.224	⬇	0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4126185-2 09/30/24 07:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	98.8	98.8	80.0-120	

L1782578-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1782578-04 09/30/24 07:40 • (MS) R4126185-5 09/30/24 07:45 • (MSD) R4126185-6 09/30/24 07:47

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 %
Lead	124	8.73	129	126	97.4	94.2	1	75.0-125			3.10	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4126905-3 09/30/24 21:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4126905-3 09/30/24 21:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.7			75.0-131
(S) 4-Bromofluorobenzene	99.9			67.0-138
(S) 1,2-Dichloroethane-d4	77.6			70.0-130

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

(LCS) R4126905-1 09/30/24 20:10 • (LCSD) R4126905-2 09/30/24 20:29

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	0.625	0.766	0.609	123	97.4	10.0-160			22.8	31
Acrylonitrile	0.625	0.867	0.781	139	125	45.0-153			10.4	22
Benzene	0.125	0.123	0.125	98.4	100	70.0-123			1.61	20
Bromobenzene	0.125	0.115	0.127	92.0	102	73.0-121			9.92	20
Bromodichloromethane	0.125	0.114	0.117	91.2	93.6	73.0-121			2.60	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4126905-1 09/30/24 20:10 • (LCSD) R4126905-2 09/30/24 20:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.137	0.134	110	107	64.0-132			2.21	20
Bromomethane	0.125	0.0814	0.0975	65.1	78.0	56.0-147			18.0	20
n-Butylbenzene	0.125	0.119	0.115	95.2	92.0	68.0-135			3.42	20
sec-Butylbenzene	0.125	0.119	0.113	95.2	90.4	74.0-130			5.17	20
tert-Butylbenzene	0.125	0.113	0.120	90.4	96.0	75.0-127			6.01	20
Carbon tetrachloride	0.125	0.120	0.123	96.0	98.4	66.0-128			2.47	20
Chlorobenzene	0.125	0.133	0.133	106	106	76.0-128			0.000	20
Chlorodibromomethane	0.125	0.125	0.123	100	98.4	74.0-127			1.61	20
Chloroethane	0.125	0.0826	0.0944	66.1	75.5	61.0-134			13.3	20
Chloroform	0.125	0.122	0.121	97.6	96.8	72.0-123			0.823	20
Chloromethane	0.125	0.114	0.113	91.2	90.4	51.0-138			0.881	20
2-Chlorotoluene	0.125	0.110	0.112	88.0	89.6	75.0-124			1.80	20
4-Chlorotoluene	0.125	0.104	0.112	83.2	89.6	75.0-124			7.41	20
1,2-Dibromo-3-Chloropropane	0.125	0.115	0.103	92.0	82.4	59.0-130			11.0	20
1,2-Dibromoethane	0.125	0.130	0.125	104	100	74.0-128			3.92	20
Dibromomethane	0.125	0.133	0.130	106	104	75.0-122			2.28	20
1,2-Dichlorobenzene	0.125	0.135	0.132	108	106	76.0-124			2.25	20
1,3-Dichlorobenzene	0.125	0.124	0.128	99.2	102	76.0-125			3.17	20
1,4-Dichlorobenzene	0.125	0.125	0.123	100	98.4	77.0-121			1.61	20
Dichlorodifluoromethane	0.125	0.101	0.0995	80.8	79.6	43.0-156			1.50	20
1,1-Dichloroethane	0.125	0.128	0.127	102	102	70.0-127			0.784	20
1,2-Dichloroethane	0.125	0.133	0.129	106	103	65.0-131			3.05	20
1,1-Dichloroethene	0.125	0.133	0.108	106	86.4	65.0-131		J3	20.7	20
cis-1,2-Dichloroethene	0.125	0.121	0.121	96.8	96.8	73.0-125			0.000	20
trans-1,2-Dichloroethene	0.125	0.125	0.134	100	107	71.0-125			6.95	20
1,2-Dichloropropane	0.125	0.132	0.130	106	104	74.0-125			1.53	20
1,1-Dichloropropene	0.125	0.137	0.136	110	109	73.0-125			0.733	20
1,3-Dichloropropane	0.125	0.128	0.128	102	102	80.0-125			0.000	20
cis-1,3-Dichloropropene	0.125	0.127	0.131	102	105	76.0-127			3.10	20
trans-1,3-Dichloropropene	0.125	0.120	0.124	96.0	99.2	73.0-127			3.28	20
2,2-Dichloropropane	0.125	0.129	0.129	103	103	59.0-135			0.000	20
Di-isopropyl ether	0.125	0.141	0.140	113	112	60.0-136			0.712	20
Ethylbenzene	0.125	0.138	0.135	110	108	74.0-126			2.20	20
Hexachloro-1,3-butadiene	0.125	0.215	0.188	172	150	57.0-150	J4		13.4	20
Isopropylbenzene	0.125	0.145	0.137	116	110	72.0-127			5.67	20
p-Isopropyltoluene	0.125	0.122	0.123	97.6	98.4	72.0-133			0.816	20
2-Butanone (MEK)	0.625	0.802	0.674	128	108	30.0-160			17.3	24
Methylene Chloride	0.125	0.118	0.131	94.4	105	68.0-123			10.4	20
4-Methyl-2-pentanone (MIBK)	0.625	0.738	0.711	118	114	56.0-143			3.73	20
Methyl tert-butyl ether	0.125	0.126	0.120	101	96.0	66.0-132			4.88	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4126905-1 09/30/24 20:10 • (LCSD) R4126905-2 09/30/24 20:29

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	0.125	0.130	0.108	104	86.4	59.0-130			18.5	20
n-Propylbenzene	0.125	0.110	0.118	88.0	94.4	74.0-126			7.02	20
Styrene	0.125	0.129	0.124	103	99.2	72.0-127			3.95	20
1,1,1,2-Tetrachloroethane	0.125	0.139	0.141	111	113	74.0-129			1.43	20
1,1,2,2-Tetrachloroethane	0.125	0.0925	0.102	74.0	81.6	68.0-128			9.77	20
1,1,2-Trichlorotrifluoroethane	0.125	0.115	0.115	92.0	92.0	61.0-139			0.000	20
Tetrachloroethene	0.125	0.167	0.160	134	128	70.0-136			4.28	20
Toluene	0.125	0.127	0.126	102	101	75.0-121			0.791	20
1,2,3-Trichlorobenzene	0.125	0.214	0.169	171	135	59.0-139	J4	J3	23.5	20
1,2,4-Trichlorobenzene	0.125	0.211	0.178	169	142	62.0-137	J4	J4	17.0	20
1,1,1-Trichloroethane	0.125	0.124	0.123	99.2	98.4	69.0-126			0.810	20
1,1,2-Trichloroethane	0.125	0.127	0.127	102	102	78.0-123			0.000	20
Trichloroethene	0.125	0.148	0.146	118	117	76.0-126			1.36	20
Trichlorofluoromethane	0.125	0.130	0.131	104	105	61.0-142			0.766	20
1,2,3-Trichloropropane	0.125	0.0996	0.105	79.7	84.0	67.0-129			5.28	20
1,2,4-Trimethylbenzene	0.125	0.113	0.118	90.4	94.4	70.0-126			4.33	20
1,2,3-Trimethylbenzene	0.125	0.112	0.109	89.6	87.2	74.0-124			2.71	20
1,3,5-Trimethylbenzene	0.125	0.119	0.119	95.2	95.2	73.0-127			0.000	20
Vinyl chloride	0.125	0.108	0.112	86.4	89.6	63.0-134			3.64	20
Xylenes, Total	0.375	0.405	0.391	108	104	72.0-127			3.52	20
(S) Toluene-d8				97.2	97.6	75.0-131				
(S) 4-Bromofluorobenzene				98.8	94.4	67.0-138				
(S) 1,2-Dichloroethane-d4				87.1	86.8	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4126911-1 10/01/24 14:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	62.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4126911-2 10/01/24 14:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	31.0	62.0	50.0-150	
(S) o-Terphenyl			63.5	18.0-148	

L1780690-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780690-01 10/01/24 14:16 • (MS) R4126911-3 10/01/24 14:28 • (MSD) R4126911-4 10/01/24 14:41

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 %
Diesel Range Organics (DRO)	64.4	2.47	39.6	42.0	57.7	62.2	1	50.0-150			5.71	20
(S) o-Terphenyl					57.1	54.6		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4127523-1 10/02/24 02:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	126			10.0-135
(S) Tetrachloro-m-xylene	111			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4127523-2 10/02/24 02:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.152	91.0	36.0-141	
PCB 1260	0.167	0.177	106	37.0-145	
(S) Decachlorobiphenyl			121	10.0-135	
(S) Tetrachloro-m-xylene			96.8	10.0-139	

L1780659-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1780659-02 10/02/24 03:53 • (MS) R4127523-3 10/02/24 04:21 • (MSD) R4127523-4 10/02/24 04:30

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 %
PCB 1016	0.184	U	0.109	0.128	59.4	69.6	1	10.0-160	P	P	15.8	37
PCB 1260	0.184	U	0.135	0.153	73.3	83.2	1	10.0-160	P	P	12.7	38
(S) Decachlorobiphenyl					88.6	91.1		10.0-135				
(S) Tetrachloro-m-xylene					79.2	86.3		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) R4126953-2 09/30/24 19:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	91.0			23.0-120
(S) Nitrobenzene-d5	75.4			14.0-149
(S) 2-Fluorobiphenyl	84.7			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4126953-1 09/30/24 19:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0670	83.8	50.0-126	
Acenaphthene	0.0800	0.0639	79.9	50.0-120	
Acenaphthylene	0.0800	0.0667	83.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0648	81.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0580	72.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0632	79.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0666	83.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0633	79.1	49.0-125	
Chrysene	0.0800	0.0695	86.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0695	86.9	47.0-125	
Fluoranthene	0.0800	0.0666	83.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4126953-1 09/30/24 19:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0707	88.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0660	82.5	46.0-125	
Naphthalene	0.0800	0.0679	84.9	50.0-120	
Phenanthrene	0.0800	0.0690	86.3	47.0-120	
Pyrene	0.0800	0.0646	80.7	43.0-123	
1-Methylnaphthalene	0.0800	0.0707	88.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0681	85.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0696	87.0	50.0-120	
(S) p-Terphenyl-d14			99.2	23.0-120	
(S) Nitrobenzene-d5			94.0	14.0-149	
(S) 2-Fluorobiphenyl			95.9	34.0-125	

L1782045-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1782045-03 09/30/24 20:33 • (MS) R4126953-3 09/30/24 20:53 • (MSD) R4126953-4 09/30/24 21:13

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 %
Anthracene	0.0829	0.0131	0.0612	0.0698	58.0	68.3	1	10.0-145			13.1	30
Acenaphthene	0.0829	0.0899	0.117	0.125	33.0	42.1	1	14.0-127			6.28	27
Acenaphthylene	0.0829	U	0.0793	0.0865	95.5	104	1	21.0-124			8.78	25
Benzo(a)anthracene	0.0829	0.00828	0.0591	0.0687	61.2	72.9	1	10.0-139			15.1	30
Benzo(a)pyrene	0.0829	0.00477	0.0535	0.0622	58.8	69.3	1	10.0-141			15.0	31
Benzo(b)fluoranthene	0.0829	0.00456	0.0558	0.0636	61.8	71.2	1	10.0-140			13.1	36
Benzo(g,h,i)perylene	0.0829	0.00675	0.0584	0.0684	62.3	74.3	1	10.0-140			15.8	33
Benzo(k)fluoranthene	0.0829	U	0.0499	0.0605	60.2	72.9	1	10.0-137			19.1	31
Chrysene	0.0829	0.00740	0.0613	0.0708	65.0	76.4	1	10.0-145			14.3	30
Dibenz(a,h)anthracene	0.0829	U	0.0560	0.0655	67.5	78.9	1	10.0-132			15.5	31
Fluoranthene	0.0829	0.0187	0.0648	0.0744	55.6	67.1	1	10.0-153			13.7	33
Fluorene	0.0829	0.0869	0.118	0.128	38.0	49.7	1	11.0-130			7.93	29
Indeno(1,2,3-cd)pyrene	0.0829	0.00226	0.0550	0.0622	63.6	72.3	1	10.0-137			12.2	32
Naphthalene	0.0829	19.0	15.9	14.7	0.000	0.000	1	10.0-135	EV	EV	7.83	27
Phenanthrene	0.0829	0.141	0.156	0.172	18.3	36.6	1	10.0-144			9.27	31
Pyrene	0.0829	0.0321	0.0782	0.0882	55.5	67.5	1	10.0-148			12.0	35
1-Methylnaphthalene	0.0829	11.4	8.64	8.41	0.000	0.000	1	10.0-142	EV	EV	2.67	28
2-Methylnaphthalene	0.0829	21.4	16.8	16.3	0.000	0.000	1	10.0-137	EV	EV	3.28	28
2-Chloronaphthalene	0.0829	U	0.0710	0.0788	85.6	95.0	1	29.0-120			10.4	24
(S) p-Terphenyl-d14					65.1	92.7		23.0-120				
(S) Nitrobenzene-d5					0.000	0.000		14.0-149	J2	J2		
(S) 2-Fluorobiphenyl					69.6	93.2		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1782045-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1782045-03 09/30/24 20:33 • (MS) R4126953-3 09/30/24 20:53 • (MSD) R4126953-4 09/30/24 21:13

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%

Sample Narrative:

OS: Surrogate failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

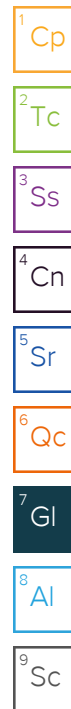
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.
P	RPD between the primary and confirmatory analysis exceeded 40%.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

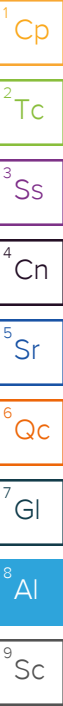
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Earth Engineers-Camas, WA						Billing Information:							Pres Chk		Analysis / Container / Preservative								Chain of Custody		Page 1 of 1				
2411 SE 8th Ave Camas, WA 98607						Holly Dresher 2411 SE 8th Ave Camas, WA 98607																	Pace Analytical® National Center for Testing & Innovation						
Report to: David Hannant						Email To: dhannant@rmacompanies.com																	12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859		QR Code				
Project Description: Waterfront Soils Removal						City/State Collected: Camas, WA																							
Phone: 406-781-1679 Fax:						Client Project # 10-240350							Lab Project # EARENGCWA-CAMAS																
Collected by (print): Matt Enos						Site/Facility ID # Hyas Point							P.O. #																
Collected by (signature): <i>[Signature]</i>						Rush? (Lab MUST Be Notified) Same Day Five Day Next Day 5 Day (Rad Only) ☒ Two Day 10 Day (Rad Only) Three Day							Quote #																
Immediately Packed on Ice N Y X						Date Results Needed							No. of Cntrs																
Sample ID						Comp/Grab		Matrix *		Depth		Date		Time															
B_F_E+10_4-SQ11						COMP		SS		11		9/26/24		11:40		3		X		X		X		X		X			
B_F_E+5_3-4Q11						COMP		SS		11		9/26/24		12:00		3		x		x		x		x		x			
A_F_P-Q_4D+40@12						COMP		SS		12		9/26/24		12:25		3		x		x		x		x		x			
A_F_P-Q+20_4D+30@12						COMP		SS		12		9/26/24		12:45		3		x		x		x		x		x			
A_F_N+10-P+10_4D+10@12						COMP		SS		12		9/26/24		13:10		3		x		x		x		x		x			
A_F_P-Q_4D@12						COMP		SS		12		9/26/24		13:40		3		x		x		x		x		x			
A_F_Q+_4D+@12						COMP		SS		12		9/26/24		14:00		3		x		x		x		x		x			
A_F-Q+-3D+40@12						COMP		SS		12		9/26/24		14:30		3		x		x		x		x		x			
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other						Remarks: *2 DAY TAT* A_F-Q+-3D-40@12							pH Temp																
Samples returned via: UPS FedEx Courier						Tracking # 462 9/65 9/170																							
Relinquished by : (Signature)						Date:		Time:		Received by: (Signature)		Trip Blank Received: Yes No HCL / MeOH TBR																	
Relinquished by : (Signature)						Date:		Time:		Received by: (Signature)		Temp: °C MSA 1.7 + BS = 2.0 29		Bottles Received:															
Relinquished by : (Signature)						Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Hold:										Condition: NCF / OK			

Earth Engineers - Camas, WA

Sample Delivery Group: L1783949
Samples Received: 10/01/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT SOILS REMOVAL
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
A_W_P_Q_4D+@10 L1783949-01	6
A_W_N_P_5D@10 L1783949-02	9
A_W_N_P_4D@10 L1783949-03	12
A_W_Q+_1D-2D@10 L1783949-06	15
B_W_A-B_1-3@10 L1783949-07	18
B_W_B-C@10 L1783949-08	21
B_W_E+_9-10@10 L1783949-09	24
Qc: Quality Control Summary	27
Total Solids by Method 2540 G-2011	27
Mercury by Method 7471B	28
Metals (ICP) by Method 6010D	29
Volatile Organic Compounds (GC/MS) by Method 8260D	30
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	34
Polychlorinated Biphenyls (GC) by Method 8082 A	35
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	36
Gl: Glossary of Terms	38
Al: Accreditations & Locations	39
Sc: Sample Chain of Custody	40

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

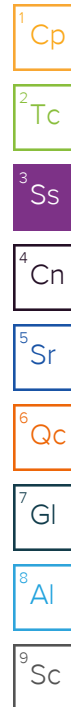
A_W_P_Q_4D+@10 L1783949-01 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 11:15

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 14:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 14:43	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1.13	09/30/24 11:15	10/09/24 15:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 12:20	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 12:58	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 14:41	JCH	Mt. Juliet, TN



A_W_N_P_5D@10 L1783949-02 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 11:35

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:03	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 14:51	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 11:35	10/09/24 15:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 12:33	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 15:31	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 15:34	JCH	Mt. Juliet, TN

A_W_N_P_4D@10 L1783949-03 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 11:50

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:06	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 14:53	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 11:50	10/09/24 16:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 12:46	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 15:41	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 15:51	JCH	Mt. Juliet, TN

A_W_Q+_1D-2D@10 L1783949-06 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 13:00

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:08	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 14:55	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 13:00	10/09/24 16:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 12:58	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 15:51	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 16:09	JCH	Mt. Juliet, TN

B_W_A-B_1-3@10 L1783949-07 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 13:15

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:11	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:00	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1.01	09/30/24 13:15	10/09/24 16:56	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

B_W_A-B-1-3@10 L1783949-07 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 13:15

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 13:11	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:01	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 16:27	JCH	Mt. Juliet, TN

B_W_B-C@10 L1783949-08 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 13:40

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:18	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:01	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 13:40	10/09/24 17:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 13:25	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:12	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 16:44	JCH	Mt. Juliet, TN

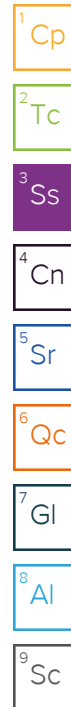
B_W_E+_9-10@10 L1783949-09 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 14:00

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:21	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:03	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 14:00	10/09/24 17:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 13:38	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:22	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 17:02	JCH	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.



Brian Ford
Project Manager

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

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.4		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0238	0.0463	1	10/09/2024 14:53	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	13.7	Q1	0.241	0.578	1	10/09/2024 14:43	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0534	0.0732	1.13	10/09/2024 15:40	WG2377602
Acrylonitrile	U		0.00529	0.0183	1.13	10/09/2024 15:40	WG2377602
Benzene	U		0.000684	0.00146	1.13	10/09/2024 15:40	WG2377602
Bromobenzene	U		0.00132	0.0183	1.13	10/09/2024 15:40	WG2377602
Bromodichloromethane	U		0.00106	0.00367	1.13	10/09/2024 15:40	WG2377602
Bromoform	U		0.00171	0.0367	1.13	10/09/2024 15:40	WG2377602
Bromomethane	U		0.00289	0.0183	1.13	10/09/2024 15:40	WG2377602
n-Butylbenzene	U		0.00768	0.0183	1.13	10/09/2024 15:40	WG2377602
sec-Butylbenzene	U		0.00421	0.0183	1.13	10/09/2024 15:40	WG2377602
tert-Butylbenzene	U		0.00285	0.00732	1.13	10/09/2024 15:40	WG2377602
Carbon tetrachloride	U		0.00131	0.00732	1.13	10/09/2024 15:40	WG2377602
Chlorobenzene	U		0.000307	0.00367	1.13	10/09/2024 15:40	WG2377602
Chlorodibromomethane	U		0.000897	0.00367	1.13	10/09/2024 15:40	WG2377602
Chloroethane	U		0.00249	0.00732	1.13	10/09/2024 15:40	WG2377602
Chloroform	U		0.00150	0.00367	1.13	10/09/2024 15:40	WG2377602
Chloromethane	U		0.00637	0.0183	1.13	10/09/2024 15:40	WG2377602
2-Chlorotoluene	U		0.00127	0.00367	1.13	10/09/2024 15:40	WG2377602
4-Chlorotoluene	U		0.000659	0.00732	1.13	10/09/2024 15:40	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0367	1.13	10/09/2024 15:40	WG2377602
1,2-Dibromoethane	U		0.000948	0.00367	1.13	10/09/2024 15:40	WG2377602
Dibromomethane	U		0.00110	0.00732	1.13	10/09/2024 15:40	WG2377602
1,2-Dichlorobenzene	U		0.000622	0.00732	1.13	10/09/2024 15:40	WG2377602
1,3-Dichlorobenzene	U		0.000878	0.00732	1.13	10/09/2024 15:40	WG2377602
1,4-Dichlorobenzene	U		0.00102	0.00732	1.13	10/09/2024 15:40	WG2377602
Dichlorodifluoromethane	U		0.00236	0.00732	1.13	10/09/2024 15:40	WG2377602
1,1-Dichloroethane	U		0.000719	0.00367	1.13	10/09/2024 15:40	WG2377602
1,2-Dichloroethane	U		0.000950	0.00367	1.13	10/09/2024 15:40	WG2377602
1,1-Dichloroethene	U		0.000887	0.00367	1.13	10/09/2024 15:40	WG2377602
cis-1,2-Dichloroethene	U		0.00107	0.00367	1.13	10/09/2024 15:40	WG2377602
trans-1,2-Dichloroethene	U		0.00153	0.00732	1.13	10/09/2024 15:40	WG2377602
1,2-Dichloropropane	U		0.00207	0.00732	1.13	10/09/2024 15:40	WG2377602
1,1-Dichloropropene	U		0.00118	0.00367	1.13	10/09/2024 15:40	WG2377602
1,3-Dichloropropane	U		0.000733	0.00732	1.13	10/09/2024 15:40	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00111	0.00367	1.13	10/09/2024 15:40	WG2377602
trans-1,3-Dichloropropene	U		0.00167	0.00732	1.13	10/09/2024 15:40	WG2377602
2,2-Dichloropropane	U		0.00202	0.00367	1.13	10/09/2024 15:40	WG2377602
Di-isopropyl ether	U		0.000600	0.00146	1.13	10/09/2024 15:40	WG2377602
Ethylbenzene	U		0.00108	0.00367	1.13	10/09/2024 15:40	WG2377602
Hexachloro-1,3-butadiene	U		0.00878	0.0367	1.13	10/09/2024 15:40	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000622	0.00367	1.13	10/09/2024 15:40	WG2377602
p-Isopropyltoluene	U		0.00373	0.00732	1.13	10/09/2024 15:40	WG2377602
2-Butanone (MEK)	U		0.0930	0.146	1.13	10/09/2024 15:40	WG2377602
Methylene Chloride	0.0139	BJ	0.00972	0.0367	1.13	10/09/2024 15:40	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00334	0.0367	1.13	10/09/2024 15:40	WG2377602
Methyl tert-butyl ether	U		0.000513	0.00146	1.13	10/09/2024 15:40	WG2377602
Naphthalene	U		0.00714	0.0183	1.13	10/09/2024 15:40	WG2377602
n-Propylbenzene	U		0.00139	0.00732	1.13	10/09/2024 15:40	WG2377602
Styrene	U		0.000336	0.0183	1.13	10/09/2024 15:40	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00139	0.00367	1.13	10/09/2024 15:40	WG2377602
1,1,2,2-Tetrachloroethane	U		0.00102	0.00367	1.13	10/09/2024 15:40	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00110	0.00367	1.13	10/09/2024 15:40	WG2377602
Tetrachloroethene	U		0.00131	0.00367	1.13	10/09/2024 15:40	WG2377602
Toluene	0.00194	J	0.00190	0.00732	1.13	10/09/2024 15:40	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0107	0.0183	1.13	10/09/2024 15:40	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00644	0.0183	1.13	10/09/2024 15:40	WG2377602
1,1,1-Trichloroethane	U		0.00135	0.00367	1.13	10/09/2024 15:40	WG2377602
1,1,2-Trichloroethane	U		0.000875	0.00367	1.13	10/09/2024 15:40	WG2377602
Trichloroethene	U		0.000855	0.00146	1.13	10/09/2024 15:40	WG2377602
Trichlorofluoromethane	U		0.00121	0.00367	1.13	10/09/2024 15:40	WG2377602
1,2,3-Trichloropropane	U		0.00237	0.0183	1.13	10/09/2024 15:40	WG2377602
1,2,4-Trimethylbenzene	U		0.00232	0.00732	1.13	10/09/2024 15:40	WG2377602
1,2,3-Trimethylbenzene	U		0.00232	0.00732	1.13	10/09/2024 15:40	WG2377602
1,3,5-Trimethylbenzene	U		0.00293	0.00732	1.13	10/09/2024 15:40	WG2377602
Vinyl chloride	U		0.00170	0.00367	1.13	10/09/2024 15:40	WG2377602
Xylenes, Total	U		0.00129	0.00952	1.13	10/09/2024 15:40	WG2377602
(S) Toluene-d8	112			75.0-131		10/09/2024 15:40	WG2377602
(S) 4-Bromofluorobenzene	103			67.0-138		10/09/2024 15:40	WG2377602
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		10/09/2024 15:40	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.54	4.63	1	10/14/2024 12:20	WG2380970
Residual Range Organics (RRO)	U		3.85	11.6	1	10/14/2024 12:20	WG2380970
(S) o-Terphenyl	69.0			18.0-148		10/14/2024 12:20	WG2380970

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		0.0137	0.0393	1	10/10/2024 12:58	WG2377814
PCB 1221	U		0.0137	0.0393	1	10/10/2024 12:58	WG2377814
PCB 1232	U		0.0137	0.0393	1	10/10/2024 12:58	WG2377814
PCB 1242	U		0.0137	0.0393	1	10/10/2024 12:58	WG2377814
PCB 1248	U		0.00854	0.0197	1	10/10/2024 12:58	WG2377814
PCB 1254	U		0.00854	0.0197	1	10/10/2024 12:58	WG2377814
PCB 1260	U		0.00854	0.0197	1	10/10/2024 12:58	WG2377814
(S) Decachlorobiphenyl	72.7			10.0-135		10/10/2024 12:58	WG2377814
(S) Tetrachloro-m-xylene	83.6			10.0-139		10/10/2024 12:58	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00266	0.00694	1	10/12/2024 14:41	WG2379660
Acenaphthene	U		0.00242	0.00694	1	10/12/2024 14:41	WG2379660
Acenaphthylene	U		0.00250	0.00694	1	10/12/2024 14:41	WG2379660
Benzo(a)anthracene	U		0.00200	0.00694	1	10/12/2024 14:41	WG2379660
Benzo(a)pyrene	U		0.00207	0.00694	1	10/12/2024 14:41	WG2379660
Benzo(b)fluoranthene	U		0.00177	0.00694	1	10/12/2024 14:41	WG2379660
Benzo(g,h,i)perylene	U		0.00205	0.00694	1	10/12/2024 14:41	WG2379660
Benzo(k)fluoranthene	U		0.00249	0.00694	1	10/12/2024 14:41	WG2379660
Chrysene	U		0.00268	0.00694	1	10/12/2024 14:41	WG2379660
Dibenz(a,h)anthracene	U		0.00199	0.00694	1	10/12/2024 14:41	WG2379660
Fluoranthene	U		0.00263	0.00694	1	10/12/2024 14:41	WG2379660
Fluorene	U		0.00237	0.00694	1	10/12/2024 14:41	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00209	0.00694	1	10/12/2024 14:41	WG2379660
Naphthalene	U		0.00472	0.0231	1	10/12/2024 14:41	WG2379660
Phenanthrene	U		0.00267	0.00694	1	10/12/2024 14:41	WG2379660
Pyrene	U		0.00231	0.00694	1	10/12/2024 14:41	WG2379660
1-Methylnaphthalene	U		0.00519	0.0231	1	10/12/2024 14:41	WG2379660
2-Methylnaphthalene	U		0.00494	0.0231	1	10/12/2024 14:41	WG2379660
2-Chloronaphthalene	U		0.00539	0.0231	1	10/12/2024 14:41	WG2379660
(S) p-Terphenyl-d14	114			23.0-120		10/12/2024 14:41	WG2379660
(S) Nitrobenzene-d5	140			14.0-149		10/12/2024 14:41	WG2379660
(S) 2-Fluorobiphenyl	114			34.0-125		10/12/2024 14:41	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.7		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

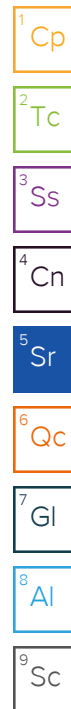
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0243	0.0472	1	10/09/2024 15:03	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.1		0.246	0.590	1	10/09/2024 14:51	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0497	0.0681	1	10/09/2024 15:59	WG2377602
Acrylonitrile	U		0.00492	0.0170	1	10/09/2024 15:59	WG2377602
Benzene	U		0.000636	0.00136	1	10/09/2024 15:59	WG2377602
Bromobenzene	U		0.00123	0.0170	1	10/09/2024 15:59	WG2377602
Bromodichloromethane	U		0.000987	0.00340	1	10/09/2024 15:59	WG2377602
Bromoform	U		0.00159	0.0340	1	10/09/2024 15:59	WG2377602
Bromomethane	U		0.00268	0.0170	1	10/09/2024 15:59	WG2377602
n-Butylbenzene	U		0.00715	0.0170	1	10/09/2024 15:59	WG2377602
sec-Butylbenzene	U		0.00392	0.0170	1	10/09/2024 15:59	WG2377602
tert-Butylbenzene	U		0.00266	0.00681	1	10/09/2024 15:59	WG2377602
Carbon tetrachloride	U		0.00122	0.00681	1	10/09/2024 15:59	WG2377602
Chlorobenzene	U		0.000286	0.00340	1	10/09/2024 15:59	WG2377602
Chlorodibromomethane	U		0.000834	0.00340	1	10/09/2024 15:59	WG2377602
Chloroethane	U		0.00232	0.00681	1	10/09/2024 15:59	WG2377602
Chloroform	U		0.00140	0.00340	1	10/09/2024 15:59	WG2377602
Chloromethane	U		0.00592	0.0170	1	10/09/2024 15:59	WG2377602
2-Chlorotoluene	U		0.00118	0.00340	1	10/09/2024 15:59	WG2377602
4-Chlorotoluene	U		0.000613	0.00681	1	10/09/2024 15:59	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00531	0.0340	1	10/09/2024 15:59	WG2377602
1,2-Dibromoethane	U		0.000883	0.00340	1	10/09/2024 15:59	WG2377602
Dibromomethane	U		0.00102	0.00681	1	10/09/2024 15:59	WG2377602
1,2-Dichlorobenzene	U		0.000579	0.00681	1	10/09/2024 15:59	WG2377602
1,3-Dichlorobenzene	U		0.000817	0.00681	1	10/09/2024 15:59	WG2377602
1,4-Dichlorobenzene	U		0.000953	0.00681	1	10/09/2024 15:59	WG2377602
Dichlorodifluoromethane	U		0.00219	0.00681	1	10/09/2024 15:59	WG2377602
1,1-Dichloroethane	U		0.000669	0.00340	1	10/09/2024 15:59	WG2377602
1,2-Dichloroethane	U		0.000884	0.00340	1	10/09/2024 15:59	WG2377602
1,1-Dichloroethene	U		0.000825	0.00340	1	10/09/2024 15:59	WG2377602
cis-1,2-Dichloroethene	U		0.00100	0.00340	1	10/09/2024 15:59	WG2377602
trans-1,2-Dichloroethene	U		0.00142	0.00681	1	10/09/2024 15:59	WG2377602
1,2-Dichloropropane	U		0.00193	0.00681	1	10/09/2024 15:59	WG2377602
1,1-Dichloropropene	U		0.00110	0.00340	1	10/09/2024 15:59	WG2377602
1,3-Dichloropropane	U		0.000682	0.00681	1	10/09/2024 15:59	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00103	0.00340	1	10/09/2024 15:59	WG2377602
trans-1,3-Dichloropropene	U		0.00155	0.00681	1	10/09/2024 15:59	WG2377602
2,2-Dichloropropane	U		0.00188	0.00340	1	10/09/2024 15:59	WG2377602
Di-isopropyl ether	U		0.000558	0.00136	1	10/09/2024 15:59	WG2377602
Ethylbenzene	U		0.00100	0.00340	1	10/09/2024 15:59	WG2377602
Hexachloro-1,3-butadiene	U		0.00817	0.0340	1	10/09/2024 15:59	WG2377602



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
Isopropylbenzene	U		0.000579	0.00340	1	10/09/2024 15:59	WG2377602
p-Isopropyltoluene	U		0.00347	0.00681	1	10/09/2024 15:59	WG2377602
2-Butanone (MEK)	U		0.0865	0.136	1	10/09/2024 15:59	WG2377602
Methylene Chloride	0.0122	BJ	0.00904	0.0340	1	10/09/2024 15:59	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00311	0.0340	1	10/09/2024 15:59	WG2377602
Methyl tert-butyl ether	U		0.000477	0.00136	1	10/09/2024 15:59	WG2377602
Naphthalene	0.0126	BJ	0.00665	0.0170	1	10/09/2024 15:59	WG2377602
n-Propylbenzene	U		0.00129	0.00681	1	10/09/2024 15:59	WG2377602
Styrene	U		0.000312	0.0170	1	10/09/2024 15:59	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00129	0.00340	1	10/09/2024 15:59	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000947	0.00340	1	10/09/2024 15:59	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00340	1	10/09/2024 15:59	WG2377602
Tetrachloroethene	U		0.00122	0.00340	1	10/09/2024 15:59	WG2377602
Toluene	U		0.00177	0.00681	1	10/09/2024 15:59	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00998	0.0170	1	10/09/2024 15:59	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00599	0.0170	1	10/09/2024 15:59	WG2377602
1,1,1-Trichloroethane	U		0.00126	0.00340	1	10/09/2024 15:59	WG2377602
1,1,2-Trichloroethane	U		0.000813	0.00340	1	10/09/2024 15:59	WG2377602
Trichloroethene	U		0.000795	0.00136	1	10/09/2024 15:59	WG2377602
Trichlorofluoromethane	U		0.00113	0.00340	1	10/09/2024 15:59	WG2377602
1,2,3-Trichloropropane	U		0.00221	0.0170	1	10/09/2024 15:59	WG2377602
1,2,4-Trimethylbenzene	U		0.00215	0.00681	1	10/09/2024 15:59	WG2377602
1,2,3-Trimethylbenzene	U		0.00215	0.00681	1	10/09/2024 15:59	WG2377602
1,3,5-Trimethylbenzene	U		0.00272	0.00681	1	10/09/2024 15:59	WG2377602
Vinyl chloride	U		0.00158	0.00340	1	10/09/2024 15:59	WG2377602
Xylenes, Total	U		0.00120	0.00885	1	10/09/2024 15:59	WG2377602
(S) Toluene-d8	110			75.0-131		10/09/2024 15:59	WG2377602
(S) 4-Bromofluorobenzene	106			67.0-138		10/09/2024 15:59	WG2377602
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		10/09/2024 15:59	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.57	4.72	1	10/14/2024 12:33	WG2380970
Residual Range Organics (RRO)	U		3.93	11.8	1	10/14/2024 12:33	WG2380970
(S) o-Terphenyl	62.0			18.0-148		10/14/2024 12:33	WG2380970

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		0.0139	0.0402	1	10/10/2024 15:31	WG2377814
PCB 1221	U		0.0139	0.0402	1	10/10/2024 15:31	WG2377814
PCB 1232	U		0.0139	0.0402	1	10/10/2024 15:31	WG2377814
PCB 1242	U		0.0139	0.0402	1	10/10/2024 15:31	WG2377814
PCB 1248	U		0.00871	0.0201	1	10/10/2024 15:31	WG2377814
PCB 1254	U		0.00871	0.0201	1	10/10/2024 15:31	WG2377814
PCB 1260	U		0.00871	0.0201	1	10/10/2024 15:31	WG2377814
(S) Decachlorobiphenyl	68.0			10.0-135		10/10/2024 15:31	WG2377814
(S) Tetrachloro-m-xylene	69.8			10.0-139		10/10/2024 15:31	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00272	0.00709	1	10/12/2024 15:34	WG2379660
Acenaphthene	U		0.00247	0.00709	1	10/12/2024 15:34	WG2379660
Acenaphthylene	U		0.00255	0.00709	1	10/12/2024 15:34	WG2379660
Benzo(a)anthracene	U		0.00204	0.00709	1	10/12/2024 15:34	WG2379660
Benzo(a)pyrene	U		0.00211	0.00709	1	10/12/2024 15:34	WG2379660
Benzo(b)fluoranthene	U		0.00181	0.00709	1	10/12/2024 15:34	WG2379660
Benzo(g,h,i)perylene	U		0.00209	0.00709	1	10/12/2024 15:34	WG2379660
Benzo(k)fluoranthene	U		0.00254	0.00709	1	10/12/2024 15:34	WG2379660
Chrysene	U		0.00274	0.00709	1	10/12/2024 15:34	WG2379660
Dibenz(a,h)anthracene	U		0.00203	0.00709	1	10/12/2024 15:34	WG2379660
Fluoranthene	U		0.00268	0.00709	1	10/12/2024 15:34	WG2379660
Fluorene	U		0.00242	0.00709	1	10/12/2024 15:34	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00214	0.00709	1	10/12/2024 15:34	WG2379660
Naphthalene	U		0.00482	0.0236	1	10/12/2024 15:34	WG2379660
Phenanthrene	U		0.00273	0.00709	1	10/12/2024 15:34	WG2379660
Pyrene	U		0.00236	0.00709	1	10/12/2024 15:34	WG2379660
1-Methylnaphthalene	U		0.00530	0.0236	1	10/12/2024 15:34	WG2379660
2-Methylnaphthalene	U		0.00504	0.0236	1	10/12/2024 15:34	WG2379660
2-Chloronaphthalene	U		0.00550	0.0236	1	10/12/2024 15:34	WG2379660
(S) p-Terphenyl-d14	119			23.0-120		10/12/2024 15:34	WG2379660
(S) Nitrobenzene-d5	127			14.0-149		10/12/2024 15:34	WG2379660
(S) 2-Fluorobiphenyl	117			34.0-125		10/12/2024 15:34	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.4		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0277	J	0.0241	0.0468	1	10/09/2024 15:06	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.8		0.244	0.586	1	10/09/2024 14:53	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0491	0.0673	1	10/09/2024 16:18	WG2377602
Acrylonitrile	U		0.00486	0.0168	1	10/09/2024 16:18	WG2377602
Benzene	U		0.000628	0.00135	1	10/09/2024 16:18	WG2377602
Bromobenzene	U		0.00121	0.0168	1	10/09/2024 16:18	WG2377602
Bromodichloromethane	U		0.000976	0.00336	1	10/09/2024 16:18	WG2377602
Bromoform	U		0.00157	0.0336	1	10/09/2024 16:18	WG2377602
Bromomethane	U		0.00265	0.0168	1	10/09/2024 16:18	WG2377602
n-Butylbenzene	U		0.00706	0.0168	1	10/09/2024 16:18	WG2377602
sec-Butylbenzene	U		0.00388	0.0168	1	10/09/2024 16:18	WG2377602
tert-Butylbenzene	U		0.00262	0.00673	1	10/09/2024 16:18	WG2377602
Carbon tetrachloride	U		0.00121	0.00673	1	10/09/2024 16:18	WG2377602
Chlorobenzene	U		0.000283	0.00336	1	10/09/2024 16:18	WG2377602
Chlorodibromomethane	U		0.000824	0.00336	1	10/09/2024 16:18	WG2377602
Chloroethane	U		0.00229	0.00673	1	10/09/2024 16:18	WG2377602
Chloroform	U		0.00139	0.00336	1	10/09/2024 16:18	WG2377602
Chloromethane	U		0.00585	0.0168	1	10/09/2024 16:18	WG2377602
2-Chlorotoluene	U		0.00116	0.00336	1	10/09/2024 16:18	WG2377602
4-Chlorotoluene	U		0.000606	0.00673	1	10/09/2024 16:18	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00525	0.0336	1	10/09/2024 16:18	WG2377602
1,2-Dibromoethane	U		0.000872	0.00336	1	10/09/2024 16:18	WG2377602
Dibromomethane	U		0.00101	0.00673	1	10/09/2024 16:18	WG2377602
1,2-Dichlorobenzene	U		0.000572	0.00673	1	10/09/2024 16:18	WG2377602
1,3-Dichlorobenzene	U		0.000807	0.00673	1	10/09/2024 16:18	WG2377602
1,4-Dichlorobenzene	U		0.000942	0.00673	1	10/09/2024 16:18	WG2377602
Dichlorodifluoromethane	U		0.00217	0.00673	1	10/09/2024 16:18	WG2377602
1,1-Dichloroethane	U		0.000661	0.00336	1	10/09/2024 16:18	WG2377602
1,2-Dichloroethane	U		0.000873	0.00336	1	10/09/2024 16:18	WG2377602
1,1-Dichloroethene	U		0.000815	0.00336	1	10/09/2024 16:18	WG2377602
cis-1,2-Dichloroethene	U		0.000988	0.00336	1	10/09/2024 16:18	WG2377602
trans-1,2-Dichloroethene	U		0.00140	0.00673	1	10/09/2024 16:18	WG2377602
1,2-Dichloropropane	U		0.00191	0.00673	1	10/09/2024 16:18	WG2377602
1,1-Dichloropropene	U		0.00109	0.00336	1	10/09/2024 16:18	WG2377602
1,3-Dichloropropane	U		0.000674	0.00673	1	10/09/2024 16:18	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00102	0.00336	1	10/09/2024 16:18	WG2377602
trans-1,3-Dichloropropene	U		0.00153	0.00673	1	10/09/2024 16:18	WG2377602
2,2-Dichloropropane	U		0.00186	0.00336	1	10/09/2024 16:18	WG2377602
Di-isopropyl ether	U		0.000552	0.00135	1	10/09/2024 16:18	WG2377602
Ethylbenzene	U		0.000992	0.00336	1	10/09/2024 16:18	WG2377602
Hexachloro-1,3-butadiene	U		0.00807	0.0336	1	10/09/2024 16:18	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000572	0.00336	1	10/09/2024 16:18	WG2377602
p-Isopropyltoluene	U		0.00343	0.00673	1	10/09/2024 16:18	WG2377602
2-Butanone (MEK)	U		0.0854	0.135	1	10/09/2024 16:18	WG2377602
Methylene Chloride	U		0.00894	0.0336	1	10/09/2024 16:18	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00307	0.0336	1	10/09/2024 16:18	WG2377602
Methyl tert-butyl ether	U		0.000471	0.00135	1	10/09/2024 16:18	WG2377602
Naphthalene	U		0.00657	0.0168	1	10/09/2024 16:18	WG2377602
n-Propylbenzene	U		0.00128	0.00673	1	10/09/2024 16:18	WG2377602
Styrene	U		0.000308	0.0168	1	10/09/2024 16:18	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00128	0.00336	1	10/09/2024 16:18	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000935	0.00336	1	10/09/2024 16:18	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00336	1	10/09/2024 16:18	WG2377602
Tetrachloroethene	U		0.00121	0.00336	1	10/09/2024 16:18	WG2377602
Toluene	U		0.00175	0.00673	1	10/09/2024 16:18	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00986	0.0168	1	10/09/2024 16:18	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00592	0.0168	1	10/09/2024 16:18	WG2377602
1,1,1-Trichloroethane	U		0.00124	0.00336	1	10/09/2024 16:18	WG2377602
1,1,2-Trichloroethane	U		0.000803	0.00336	1	10/09/2024 16:18	WG2377602
Trichloroethene	U		0.000786	0.00135	1	10/09/2024 16:18	WG2377602
Trichlorofluoromethane	U		0.00111	0.00336	1	10/09/2024 16:18	WG2377602
1,2,3-Trichloropropane	U		0.00218	0.0168	1	10/09/2024 16:18	WG2377602
1,2,4-Trimethylbenzene	U		0.00213	0.00673	1	10/09/2024 16:18	WG2377602
1,2,3-Trimethylbenzene	U		0.00213	0.00673	1	10/09/2024 16:18	WG2377602
1,3,5-Trimethylbenzene	U		0.00269	0.00673	1	10/09/2024 16:18	WG2377602
Vinyl chloride	U		0.00156	0.00336	1	10/09/2024 16:18	WG2377602
Xylenes, Total	U		0.00118	0.00875	1	10/09/2024 16:18	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 16:18	WG2377602
(S) 4-Bromofluorobenzene	102			67.0-138		10/09/2024 16:18	WG2377602
(S) 1,2-Dichloroethane-d4	88.7			70.0-130		10/09/2024 16:18	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.56	4.68	1	10/14/2024 12:46	WG2380970
Residual Range Organics (RRO)	U		3.90	11.7	1	10/14/2024 12:46	WG2380970
(S) o-Terphenyl	55.8			18.0-148		10/14/2024 12:46	WG2380970

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		0.0138	0.0398	1	10/10/2024 15:41	WG2377814
PCB 1221	U		0.0138	0.0398	1	10/10/2024 15:41	WG2377814
PCB 1232	U		0.0138	0.0398	1	10/10/2024 15:41	WG2377814
PCB 1242	U		0.0138	0.0398	1	10/10/2024 15:41	WG2377814
PCB 1248	U		0.00864	0.0199	1	10/10/2024 15:41	WG2377814
PCB 1254	U		0.00864	0.0199	1	10/10/2024 15:41	WG2377814
PCB 1260	U		0.00864	0.0199	1	10/10/2024 15:41	WG2377814
(S) Decachlorobiphenyl	64.6			10.0-135		10/10/2024 15:41	WG2377814
(S) Tetrachloro-m-xylene	65.0			10.0-139		10/10/2024 15:41	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00269	0.00703	1	10/12/2024 15:51	WG2379660
Acenaphthene	U		0.00245	0.00703	1	10/12/2024 15:51	WG2379660
Acenaphthylene	U		0.00253	0.00703	1	10/12/2024 15:51	WG2379660
Benzo(a)anthracene	U		0.00203	0.00703	1	10/12/2024 15:51	WG2379660
Benzo(a)pyrene	U		0.00210	0.00703	1	10/12/2024 15:51	WG2379660
Benzo(b)fluoranthene	U		0.00179	0.00703	1	10/12/2024 15:51	WG2379660
Benzo(g,h,i)perylene	U		0.00207	0.00703	1	10/12/2024 15:51	WG2379660
Benzo(k)fluoranthene	U		0.00252	0.00703	1	10/12/2024 15:51	WG2379660
Chrysene	U		0.00272	0.00703	1	10/12/2024 15:51	WG2379660
Dibenz(a,h)anthracene	U		0.00201	0.00703	1	10/12/2024 15:51	WG2379660
Fluoranthene	U		0.00266	0.00703	1	10/12/2024 15:51	WG2379660
Fluorene	U		0.00240	0.00703	1	10/12/2024 15:51	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00212	0.00703	1	10/12/2024 15:51	WG2379660
Naphthalene	0.00648	B J	0.00478	0.0234	1	10/12/2024 15:51	WG2379660
Phenanthrene	U		0.00271	0.00703	1	10/12/2024 15:51	WG2379660
Pyrene	U		0.00234	0.00703	1	10/12/2024 15:51	WG2379660
1-Methylnaphthalene	U		0.00526	0.0234	1	10/12/2024 15:51	WG2379660
2-Methylnaphthalene	U		0.00500	0.0234	1	10/12/2024 15:51	WG2379660
2-Chloronaphthalene	U		0.00546	0.0234	1	10/12/2024 15:51	WG2379660
(S) p-Terphenyl-d14	123	J1		23.0-120		10/12/2024 15:51	WG2379660
(S) Nitrobenzene-d5	133			14.0-149		10/12/2024 15:51	WG2379660
(S) 2-Fluorobiphenyl	119			34.0-125		10/12/2024 15:51	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.0		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0242	0.0471	1	10/09/2024 15:08	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.3		0.245	0.588	1	10/09/2024 14:55	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0495	0.0678	1	10/09/2024 16:37	WG2377602
Acrylonitrile	U		0.00489	0.0169	1	10/09/2024 16:37	WG2377602
Benzene	U		0.000633	0.00136	1	10/09/2024 16:37	WG2377602
Bromobenzene	U		0.00122	0.0169	1	10/09/2024 16:37	WG2377602
Bromodichloromethane	U		0.000982	0.00339	1	10/09/2024 16:37	WG2377602
Bromoform	U		0.00159	0.0339	1	10/09/2024 16:37	WG2377602
Bromomethane	U		0.00267	0.0169	1	10/09/2024 16:37	WG2377602
n-Butylbenzene	U		0.00711	0.0169	1	10/09/2024 16:37	WG2377602
sec-Butylbenzene	U		0.00390	0.0169	1	10/09/2024 16:37	WG2377602
tert-Butylbenzene	U		0.00264	0.00678	1	10/09/2024 16:37	WG2377602
Carbon tetrachloride	U		0.00122	0.00678	1	10/09/2024 16:37	WG2377602
Chlorobenzene	U		0.000285	0.00339	1	10/09/2024 16:37	WG2377602
Chlorodibromomethane	U		0.000829	0.00339	1	10/09/2024 16:37	WG2377602
Chloroethane	U		0.00230	0.00678	1	10/09/2024 16:37	WG2377602
Chloroform	U		0.00140	0.00339	1	10/09/2024 16:37	WG2377602
Chloromethane	U		0.00589	0.0169	1	10/09/2024 16:37	WG2377602
2-Chlorotoluene	U		0.00117	0.00339	1	10/09/2024 16:37	WG2377602
4-Chlorotoluene	U		0.000610	0.00678	1	10/09/2024 16:37	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00528	0.0339	1	10/09/2024 16:37	WG2377602
1,2-Dibromoethane	U		0.000878	0.00339	1	10/09/2024 16:37	WG2377602
Dibromomethane	U		0.00102	0.00678	1	10/09/2024 16:37	WG2377602
1,2-Dichlorobenzene	U		0.000576	0.00678	1	10/09/2024 16:37	WG2377602
1,3-Dichlorobenzene	U		0.000813	0.00678	1	10/09/2024 16:37	WG2377602
1,4-Dichlorobenzene	U		0.000949	0.00678	1	10/09/2024 16:37	WG2377602
Dichlorodifluoromethane	U		0.00218	0.00678	1	10/09/2024 16:37	WG2377602
1,1-Dichloroethane	U		0.000665	0.00339	1	10/09/2024 16:37	WG2377602
1,2-Dichloroethane	U		0.000879	0.00339	1	10/09/2024 16:37	WG2377602
1,1-Dichloroethene	U		0.000821	0.00339	1	10/09/2024 16:37	WG2377602
cis-1,2-Dichloroethene	U		0.000995	0.00339	1	10/09/2024 16:37	WG2377602
trans-1,2-Dichloroethene	U		0.00141	0.00678	1	10/09/2024 16:37	WG2377602
1,2-Dichloropropane	U		0.00192	0.00678	1	10/09/2024 16:37	WG2377602
1,1-Dichloropropene	U		0.00110	0.00339	1	10/09/2024 16:37	WG2377602
1,3-Dichloropropane	U		0.000679	0.00678	1	10/09/2024 16:37	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00103	0.00339	1	10/09/2024 16:37	WG2377602
trans-1,3-Dichloropropene	U		0.00154	0.00678	1	10/09/2024 16:37	WG2377602
2,2-Dichloropropane	U		0.00187	0.00339	1	10/09/2024 16:37	WG2377602
Di-isopropyl ether	U		0.000556	0.00136	1	10/09/2024 16:37	WG2377602
Ethylbenzene	U		0.000999	0.00339	1	10/09/2024 16:37	WG2377602
Hexachloro-1,3-butadiene	U		0.00813	0.0339	1	10/09/2024 16:37	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

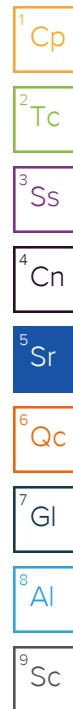
7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000576	0.00339	1	10/09/2024 16:37	WG2377602
p-Isopropyltoluene	U		0.00346	0.00678	1	10/09/2024 16:37	WG2377602
2-Butanone (MEK)	U		0.0860	0.136	1	10/09/2024 16:37	WG2377602
Methylene Chloride	U		0.00900	0.0339	1	10/09/2024 16:37	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00309	0.0339	1	10/09/2024 16:37	WG2377602
Methyl tert-butyl ether	U		0.000474	0.00136	1	10/09/2024 16:37	WG2377602
Naphthalene	U		0.00661	0.0169	1	10/09/2024 16:37	WG2377602
n-Propylbenzene	U		0.00129	0.00678	1	10/09/2024 16:37	WG2377602
Styrene	U		0.000310	0.0169	1	10/09/2024 16:37	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00128	0.00339	1	10/09/2024 16:37	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000942	0.00339	1	10/09/2024 16:37	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00102	0.00339	1	10/09/2024 16:37	WG2377602
Tetrachloroethene	U		0.00121	0.00339	1	10/09/2024 16:37	WG2377602
Toluene	U		0.00176	0.00678	1	10/09/2024 16:37	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00993	0.0169	1	10/09/2024 16:37	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00596	0.0169	1	10/09/2024 16:37	WG2377602
1,1,1-Trichloroethane	U		0.00125	0.00339	1	10/09/2024 16:37	WG2377602
1,1,2-Trichloroethane	U		0.000809	0.00339	1	10/09/2024 16:37	WG2377602
Trichloroethene	U		0.000791	0.00136	1	10/09/2024 16:37	WG2377602
Trichlorofluoromethane	U		0.00112	0.00339	1	10/09/2024 16:37	WG2377602
1,2,3-Trichloropropane	U		0.00220	0.0169	1	10/09/2024 16:37	WG2377602
1,2,4-Trimethylbenzene	U		0.00214	0.00678	1	10/09/2024 16:37	WG2377602
1,2,3-Trimethylbenzene	U		0.00214	0.00678	1	10/09/2024 16:37	WG2377602
1,3,5-Trimethylbenzene	U		0.00271	0.00678	1	10/09/2024 16:37	WG2377602
Vinyl chloride	U		0.00157	0.00339	1	10/09/2024 16:37	WG2377602
Xylenes, Total	U		0.00119	0.00881	1	10/09/2024 16:37	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 16:37	WG2377602
(S) 4-Bromofluorobenzene	101			67.0-138		10/09/2024 16:37	WG2377602
(S) 1,2-Dichloroethane-d4	84.6			70.0-130		10/09/2024 16:37	WG2377602



Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.57	4.71	1	10/14/2024 12:58	WG2380970
Residual Range Organics (RRO)	8.22	J	3.92	11.8	1	10/14/2024 12:58	WG2380970
(S) o-Terphenyl	72.4			18.0-148		10/14/2024 12:58	WG2380970

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		0.0139	0.0400	1	10/10/2024 15:51	WG2377814
PCB 1221	U		0.0139	0.0400	1	10/10/2024 15:51	WG2377814
PCB 1232	U		0.0139	0.0400	1	10/10/2024 15:51	WG2377814
PCB 1242	U		0.0139	0.0400	1	10/10/2024 15:51	WG2377814
PCB 1248	U		0.00869	0.0200	1	10/10/2024 15:51	WG2377814
PCB 1254	U		0.00869	0.0200	1	10/10/2024 15:51	WG2377814
PCB 1260	U		0.00869	0.0200	1	10/10/2024 15:51	WG2377814
(S) Decachlorobiphenyl	61.2			10.0-135		10/10/2024 15:51	WG2377814
(S) Tetrachloro-m-xylene	60.4			10.0-139		10/10/2024 15:51	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00271	0.00706	1	10/12/2024 16:09	WG2379660
Acenaphthene	U		0.00246	0.00706	1	10/12/2024 16:09	WG2379660
Acenaphthylene	U		0.00254	0.00706	1	10/12/2024 16:09	WG2379660
Benzo(a)anthracene	U		0.00204	0.00706	1	10/12/2024 16:09	WG2379660
Benzo(a)pyrene	U		0.00211	0.00706	1	10/12/2024 16:09	WG2379660
Benzo(b)fluoranthene	U		0.00180	0.00706	1	10/12/2024 16:09	WG2379660
Benzo(g,h,i)perylene	U		0.00208	0.00706	1	10/12/2024 16:09	WG2379660
Benzo(k)fluoranthene	U		0.00253	0.00706	1	10/12/2024 16:09	WG2379660
Chrysene	U		0.00273	0.00706	1	10/12/2024 16:09	WG2379660
Dibenz(a,h)anthracene	U		0.00202	0.00706	1	10/12/2024 16:09	WG2379660
Fluoranthene	U		0.00267	0.00706	1	10/12/2024 16:09	WG2379660
Fluorene	U		0.00241	0.00706	1	10/12/2024 16:09	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00706	1	10/12/2024 16:09	WG2379660
Naphthalene	U		0.00480	0.0235	1	10/12/2024 16:09	WG2379660
Phenanthrene	U		0.00272	0.00706	1	10/12/2024 16:09	WG2379660
Pyrene	U		0.00235	0.00706	1	10/12/2024 16:09	WG2379660
1-Methylnaphthalene	U		0.00528	0.0235	1	10/12/2024 16:09	WG2379660
2-Methylnaphthalene	U		0.00503	0.0235	1	10/12/2024 16:09	WG2379660
2-Chloronaphthalene	U		0.00548	0.0235	1	10/12/2024 16:09	WG2379660
(S) p-Terphenyl-d14	123	J1		23.0-120		10/12/2024 16:09	WG2379660
(S) Nitrobenzene-d5	131			14.0-149		10/12/2024 16:09	WG2379660
(S) 2-Fluorobiphenyl	115			34.0-125		10/12/2024 16:09	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.1		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0242	0.0470	1	10/09/2024 15:11	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	8.56		0.244	0.588	1	10/09/2024 15:00	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0498	0.0681	1.01	10/09/2024 16:56	WG2377602
Acrylonitrile	U		0.00492	0.0170	1.01	10/09/2024 16:56	WG2377602
Benzene	U		0.000637	0.00136	1.01	10/09/2024 16:56	WG2377602
Bromobenzene	U		0.00123	0.0170	1.01	10/09/2024 16:56	WG2377602
Bromodichloromethane	U		0.000987	0.00341	1.01	10/09/2024 16:56	WG2377602
Bromoform	U		0.00159	0.0341	1.01	10/09/2024 16:56	WG2377602
Bromomethane	U		0.00268	0.0170	1.01	10/09/2024 16:56	WG2377602
n-Butylbenzene	U		0.00715	0.0170	1.01	10/09/2024 16:56	WG2377602
sec-Butylbenzene	U		0.00393	0.0170	1.01	10/09/2024 16:56	WG2377602
tert-Butylbenzene	U		0.00266	0.00681	1.01	10/09/2024 16:56	WG2377602
Carbon tetrachloride	U		0.00122	0.00681	1.01	10/09/2024 16:56	WG2377602
Chlorobenzene	U		0.000286	0.00341	1.01	10/09/2024 16:56	WG2377602
Chlorodibromomethane	U		0.000834	0.00341	1.01	10/09/2024 16:56	WG2377602
Chloroethane	U		0.00232	0.00681	1.01	10/09/2024 16:56	WG2377602
Chloroform	U		0.00140	0.00341	1.01	10/09/2024 16:56	WG2377602
Chloromethane	U		0.00592	0.0170	1.01	10/09/2024 16:56	WG2377602
2-Chlorotoluene	U		0.00118	0.00341	1.01	10/09/2024 16:56	WG2377602
4-Chlorotoluene	U		0.000614	0.00681	1.01	10/09/2024 16:56	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00532	0.0341	1.01	10/09/2024 16:56	WG2377602
1,2-Dibromoethane	U		0.000882	0.00341	1.01	10/09/2024 16:56	WG2377602
Dibromomethane	U		0.00102	0.00681	1.01	10/09/2024 16:56	WG2377602
1,2-Dichlorobenzene	U		0.000579	0.00681	1.01	10/09/2024 16:56	WG2377602
1,3-Dichlorobenzene	U		0.000817	0.00681	1.01	10/09/2024 16:56	WG2377602
1,4-Dichlorobenzene	U		0.000954	0.00681	1.01	10/09/2024 16:56	WG2377602
Dichlorodifluoromethane	U		0.00220	0.00681	1.01	10/09/2024 16:56	WG2377602
1,1-Dichloroethane	U		0.000669	0.00341	1.01	10/09/2024 16:56	WG2377602
1,2-Dichloroethane	U		0.000884	0.00341	1.01	10/09/2024 16:56	WG2377602
1,1-Dichloroethene	U		0.000826	0.00341	1.01	10/09/2024 16:56	WG2377602
cis-1,2-Dichloroethene	U		0.00100	0.00341	1.01	10/09/2024 16:56	WG2377602
trans-1,2-Dichloroethene	U		0.00142	0.00681	1.01	10/09/2024 16:56	WG2377602
1,2-Dichloropropane	U		0.00193	0.00681	1.01	10/09/2024 16:56	WG2377602
1,1-Dichloropropene	U		0.00110	0.00341	1.01	10/09/2024 16:56	WG2377602
1,3-Dichloropropane	U		0.000683	0.00681	1.01	10/09/2024 16:56	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00103	0.00341	1.01	10/09/2024 16:56	WG2377602
trans-1,3-Dichloropropene	U		0.00155	0.00681	1.01	10/09/2024 16:56	WG2377602
2,2-Dichloropropane	U		0.00188	0.00341	1.01	10/09/2024 16:56	WG2377602
Di-isopropyl ether	U		0.000558	0.00136	1.01	10/09/2024 16:56	WG2377602
Ethylbenzene	U		0.00100	0.00341	1.01	10/09/2024 16:56	WG2377602
Hexachloro-1,3-butadiene	U		0.00817	0.0341	1.01	10/09/2024 16:56	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000579	0.00341	1.01	10/09/2024 16:56	WG2377602
p-Isopropyltoluene	U		0.00348	0.00681	1.01	10/09/2024 16:56	WG2377602
2-Butanone (MEK)	U		0.0865	0.136	1.01	10/09/2024 16:56	WG2377602
Methylene Chloride	U		0.00905	0.0341	1.01	10/09/2024 16:56	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00310	0.0341	1.01	10/09/2024 16:56	WG2377602
Methyl tert-butyl ether	U		0.000476	0.00136	1.01	10/09/2024 16:56	WG2377602
Naphthalene	U		0.00665	0.0170	1.01	10/09/2024 16:56	WG2377602
n-Propylbenzene	U		0.00129	0.00681	1.01	10/09/2024 16:56	WG2377602
Styrene	U		0.000312	0.0170	1.01	10/09/2024 16:56	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00129	0.00341	1.01	10/09/2024 16:56	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000947	0.00341	1.01	10/09/2024 16:56	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00341	1.01	10/09/2024 16:56	WG2377602
Tetrachloroethene	U		0.00122	0.00341	1.01	10/09/2024 16:56	WG2377602
Toluene	U		0.00177	0.00681	1.01	10/09/2024 16:56	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00998	0.0170	1.01	10/09/2024 16:56	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00599	0.0170	1.01	10/09/2024 16:56	WG2377602
1,1,1-Trichloroethane	U		0.00126	0.00341	1.01	10/09/2024 16:56	WG2377602
1,1,2-Trichloroethane	U		0.000813	0.00341	1.01	10/09/2024 16:56	WG2377602
Trichloroethene	U		0.000796	0.00136	1.01	10/09/2024 16:56	WG2377602
Trichlorofluoromethane	U		0.00113	0.00341	1.01	10/09/2024 16:56	WG2377602
1,2,3-Trichloropropane	U		0.00221	0.0170	1.01	10/09/2024 16:56	WG2377602
1,2,4-Trimethylbenzene	U		0.00216	0.00681	1.01	10/09/2024 16:56	WG2377602
1,2,3-Trimethylbenzene	U		0.00216	0.00681	1.01	10/09/2024 16:56	WG2377602
1,3,5-Trimethylbenzene	U		0.00272	0.00681	1.01	10/09/2024 16:56	WG2377602
Vinyl chloride	U		0.00158	0.00341	1.01	10/09/2024 16:56	WG2377602
Xylenes, Total	U		0.00120	0.00885	1.01	10/09/2024 16:56	WG2377602
(S) Toluene-d8	110			75.0-131		10/09/2024 16:56	WG2377602
(S) 4-Bromofluorobenzene	102			67.0-138		10/09/2024 16:56	WG2377602
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		10/09/2024 16:56	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.56	4.70	1	10/14/2024 13:11	WG2380970
Residual Range Organics (RRO)	U		3.91	11.8	1	10/14/2024 13:11	WG2380970
(S) o-Terphenyl	67.8			18.0-148		10/14/2024 13:11	WG2380970

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		0.0139	0.0400	1	10/10/2024 16:01	WG2377814
PCB 1221	U		0.0139	0.0400	1	10/10/2024 16:01	WG2377814
PCB 1232	U		0.0139	0.0400	1	10/10/2024 16:01	WG2377814
PCB 1242	U		0.0139	0.0400	1	10/10/2024 16:01	WG2377814
PCB 1248	U		0.00867	0.0200	1	10/10/2024 16:01	WG2377814
PCB 1254	U		0.00867	0.0200	1	10/10/2024 16:01	WG2377814
PCB 1260	U		0.00867	0.0200	1	10/10/2024 16:01	WG2377814
(S) Decachlorobiphenyl	84.5			10.0-135		10/10/2024 16:01	WG2377814
(S) Tetrachloro-m-xylene	83.9			10.0-139		10/10/2024 16:01	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00270	0.00705	1	10/12/2024 16:27	WG2379660
Acenaphthene	U		0.00246	0.00705	1	10/12/2024 16:27	WG2379660
Acenaphthylene	U		0.00254	0.00705	1	10/12/2024 16:27	WG2379660
Benzo(a)anthracene	U		0.00203	0.00705	1	10/12/2024 16:27	WG2379660
Benzo(a)pyrene	U		0.00210	0.00705	1	10/12/2024 16:27	WG2379660
Benzo(b)fluoranthene	U		0.00180	0.00705	1	10/12/2024 16:27	WG2379660
Benzo(g,h,i)perylene	U		0.00208	0.00705	1	10/12/2024 16:27	WG2379660
Benzo(k)fluoranthene	U		0.00253	0.00705	1	10/12/2024 16:27	WG2379660
Chrysene	U		0.00273	0.00705	1	10/12/2024 16:27	WG2379660
Dibenz(a,h)anthracene	U		0.00202	0.00705	1	10/12/2024 16:27	WG2379660
Fluoranthene	U		0.00267	0.00705	1	10/12/2024 16:27	WG2379660
Fluorene	U		0.00241	0.00705	1	10/12/2024 16:27	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00705	1	10/12/2024 16:27	WG2379660
Naphthalene	U		0.00480	0.0235	1	10/12/2024 16:27	WG2379660
Phenanthrene	U		0.00272	0.00705	1	10/12/2024 16:27	WG2379660
Pyrene	U		0.00235	0.00705	1	10/12/2024 16:27	WG2379660
1-Methylnaphthalene	U		0.00528	0.0235	1	10/12/2024 16:27	WG2379660
2-Methylnaphthalene	U		0.00502	0.0235	1	10/12/2024 16:27	WG2379660
2-Chloronaphthalene	U		0.00548	0.0235	1	10/12/2024 16:27	WG2379660
(S) p-Terphenyl-d14	118			23.0-120		10/12/2024 16:27	WG2379660
(S) Nitrobenzene-d5	120			14.0-149		10/12/2024 16:27	WG2379660
(S) 2-Fluorobiphenyl	111			34.0-125		10/12/2024 16:27	WG2379660

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.8		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0240	0.0466	1	10/09/2024 15:18	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.3		0.242	0.583	1	10/09/2024 15:01	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0486	0.0666	1	10/09/2024 17:15	WG2377602
Acrylonitrile	U		0.00481	0.0167	1	10/09/2024 17:15	WG2377602
Benzene	U		0.000622	0.00133	1	10/09/2024 17:15	WG2377602
Bromobenzene	U		0.00120	0.0167	1	10/09/2024 17:15	WG2377602
Bromodichloromethane	U		0.000966	0.00333	1	10/09/2024 17:15	WG2377602
Bromoform	U		0.00156	0.0333	1	10/09/2024 17:15	WG2377602
Bromomethane	U		0.00262	0.0167	1	10/09/2024 17:15	WG2377602
n-Butylbenzene	U		0.00699	0.0167	1	10/09/2024 17:15	WG2377602
sec-Butylbenzene	U		0.00384	0.0167	1	10/09/2024 17:15	WG2377602
tert-Butylbenzene	U		0.00260	0.00666	1	10/09/2024 17:15	WG2377602
Carbon tetrachloride	U		0.00120	0.00666	1	10/09/2024 17:15	WG2377602
Chlorobenzene	U		0.000280	0.00333	1	10/09/2024 17:15	WG2377602
Chlorodibromomethane	U		0.000815	0.00333	1	10/09/2024 17:15	WG2377602
Chloroethane	U		0.00226	0.00666	1	10/09/2024 17:15	WG2377602
Chloroform	U		0.00137	0.00333	1	10/09/2024 17:15	WG2377602
Chloromethane	U		0.00579	0.0167	1	10/09/2024 17:15	WG2377602
2-Chlorotoluene	U		0.00115	0.00333	1	10/09/2024 17:15	WG2377602
4-Chlorotoluene	U		0.000599	0.00666	1	10/09/2024 17:15	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00520	0.0333	1	10/09/2024 17:15	WG2377602
1,2-Dibromoethane	U		0.000863	0.00333	1	10/09/2024 17:15	WG2377602
Dibromomethane	U		0.000999	0.00666	1	10/09/2024 17:15	WG2377602
1,2-Dichlorobenzene	U		0.000566	0.00666	1	10/09/2024 17:15	WG2377602
1,3-Dichlorobenzene	U		0.000799	0.00666	1	10/09/2024 17:15	WG2377602
1,4-Dichlorobenzene	U		0.000932	0.00666	1	10/09/2024 17:15	WG2377602
Dichlorodifluoromethane	U		0.00214	0.00666	1	10/09/2024 17:15	WG2377602
1,1-Dichloroethane	U		0.000654	0.00333	1	10/09/2024 17:15	WG2377602
1,2-Dichloroethane	U		0.000865	0.00333	1	10/09/2024 17:15	WG2377602
1,1-Dichloroethene	U		0.000807	0.00333	1	10/09/2024 17:15	WG2377602
cis-1,2-Dichloroethene	U		0.000978	0.00333	1	10/09/2024 17:15	WG2377602
trans-1,2-Dichloroethene	U		0.00139	0.00666	1	10/09/2024 17:15	WG2377602
1,2-Dichloropropane	U		0.00189	0.00666	1	10/09/2024 17:15	WG2377602
1,1-Dichloropropene	U		0.00108	0.00333	1	10/09/2024 17:15	WG2377602
1,3-Dichloropropane	U		0.000667	0.00666	1	10/09/2024 17:15	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00101	0.00333	1	10/09/2024 17:15	WG2377602
trans-1,3-Dichloropropene	U		0.00152	0.00666	1	10/09/2024 17:15	WG2377602
2,2-Dichloropropane	U		0.00184	0.00333	1	10/09/2024 17:15	WG2377602
Di-isopropyl ether	U		0.000546	0.00133	1	10/09/2024 17:15	WG2377602
Ethylbenzene	U		0.000982	0.00333	1	10/09/2024 17:15	WG2377602
Hexachloro-1,3-butadiene	U		0.00799	0.0333	1	10/09/2024 17:15	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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
Isopropylbenzene	U		0.000566	0.00333	1	10/09/2024 17:15	WG2377602
p-Isopropyltoluene	U		0.00340	0.00666	1	10/09/2024 17:15	WG2377602
2-Butanone (MEK)	U		0.0846	0.133	1	10/09/2024 17:15	WG2377602
Methylene Chloride	U		0.00885	0.0333	1	10/09/2024 17:15	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00304	0.0333	1	10/09/2024 17:15	WG2377602
Methyl tert-butyl ether	U		0.000466	0.00133	1	10/09/2024 17:15	WG2377602
Naphthalene	U		0.00650	0.0167	1	10/09/2024 17:15	WG2377602
n-Propylbenzene	U		0.00127	0.00666	1	10/09/2024 17:15	WG2377602
Styrene	U		0.000305	0.0167	1	10/09/2024 17:15	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00126	0.00333	1	10/09/2024 17:15	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000926	0.00333	1	10/09/2024 17:15	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00100	0.00333	1	10/09/2024 17:15	WG2377602
Tetrachloroethene	U		0.00119	0.00333	1	10/09/2024 17:15	WG2377602
Toluene	U		0.00173	0.00666	1	10/09/2024 17:15	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00976	0.0167	1	10/09/2024 17:15	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00586	0.0167	1	10/09/2024 17:15	WG2377602
1,1,1-Trichloroethane	U		0.00123	0.00333	1	10/09/2024 17:15	WG2377602
1,1,2-Trichloroethane	U		0.000795	0.00333	1	10/09/2024 17:15	WG2377602
Trichloroethene	U		0.000778	0.00133	1	10/09/2024 17:15	WG2377602
Trichlorofluoromethane	U		0.00110	0.00333	1	10/09/2024 17:15	WG2377602
1,2,3-Trichloropropane	U		0.00216	0.0167	1	10/09/2024 17:15	WG2377602
1,2,4-Trimethylbenzene	U		0.00210	0.00666	1	10/09/2024 17:15	WG2377602
1,2,3-Trimethylbenzene	U		0.00210	0.00666	1	10/09/2024 17:15	WG2377602
1,3,5-Trimethylbenzene	U		0.00266	0.00666	1	10/09/2024 17:15	WG2377602
Vinyl chloride	U		0.00155	0.00333	1	10/09/2024 17:15	WG2377602
Xylenes, Total	U		0.00117	0.00866	1	10/09/2024 17:15	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 17:15	WG2377602
(S) 4-Bromofluorobenzene	106			67.0-138		10/09/2024 17:15	WG2377602
(S) 1,2-Dichloroethane-d4	91.0			70.0-130		10/09/2024 17:15	WG2377602

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.55	4.66	1	10/14/2024 13:25	WG2380970
Residual Range Organics (RRO)	U		3.88	11.7	1	10/14/2024 13:25	WG2380970
(S) o-Terphenyl	65.5			18.0-148		10/14/2024 13:25	WG2380970

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		0.0138	0.0396	1	10/10/2024 16:12	WG2377814
PCB 1221	U		0.0138	0.0396	1	10/10/2024 16:12	WG2377814
PCB 1232	U		0.0138	0.0396	1	10/10/2024 16:12	WG2377814
PCB 1242	U		0.0138	0.0396	1	10/10/2024 16:12	WG2377814
PCB 1248	U		0.00860	0.0198	1	10/10/2024 16:12	WG2377814
PCB 1254	U		0.00860	0.0198	1	10/10/2024 16:12	WG2377814
PCB 1260	U		0.00860	0.0198	1	10/10/2024 16:12	WG2377814
(S) Decachlorobiphenyl	80.8			10.0-135		10/10/2024 16:12	WG2377814
(S) Tetrachloro-m-xylene	80.6			10.0-139		10/10/2024 16:12	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00268	0.00699	1	10/12/2024 16:44	WG2379660
Acenaphthene	U		0.00244	0.00699	1	10/12/2024 16:44	WG2379660
Acenaphthylene	U		0.00252	0.00699	1	10/12/2024 16:44	WG2379660
Benzo(a)anthracene	U		0.00202	0.00699	1	10/12/2024 16:44	WG2379660
Benzo(a)pyrene	U		0.00209	0.00699	1	10/12/2024 16:44	WG2379660
Benzo(b)fluoranthene	U		0.00178	0.00699	1	10/12/2024 16:44	WG2379660
Benzo(g,h,i)perylene	U		0.00206	0.00699	1	10/12/2024 16:44	WG2379660
Benzo(k)fluoranthene	U		0.00251	0.00699	1	10/12/2024 16:44	WG2379660
Chrysene	U		0.00270	0.00699	1	10/12/2024 16:44	WG2379660
Dibenz(a,h)anthracene	U		0.00200	0.00699	1	10/12/2024 16:44	WG2379660
Fluoranthene	U		0.00265	0.00699	1	10/12/2024 16:44	WG2379660
Fluorene	U		0.00239	0.00699	1	10/12/2024 16:44	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00211	0.00699	1	10/12/2024 16:44	WG2379660
Naphthalene	U		0.00476	0.0233	1	10/12/2024 16:44	WG2379660
Phenanthrene	U		0.00269	0.00699	1	10/12/2024 16:44	WG2379660
Pyrene	U		0.00233	0.00699	1	10/12/2024 16:44	WG2379660
1-Methylnaphthalene	U		0.00523	0.0233	1	10/12/2024 16:44	WG2379660
2-Methylnaphthalene	U		0.00498	0.0233	1	10/12/2024 16:44	WG2379660
2-Chloronaphthalene	U		0.00543	0.0233	1	10/12/2024 16:44	WG2379660
(S) p-Terphenyl-d14	115			23.0-120		10/12/2024 16:44	WG2379660
(S) Nitrobenzene-d5	122			14.0-149		10/12/2024 16:44	WG2379660
(S) 2-Fluorobiphenyl	113			34.0-125		10/12/2024 16:44	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.1		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

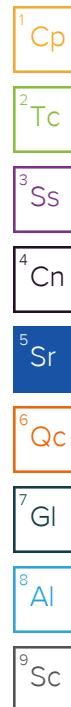
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0239	0.0464	1	10/09/2024 15:21	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.4		0.241	0.580	1	10/09/2024 15:03	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0485	0.0664	1	10/09/2024 17:34	WG2377602
Acrylonitrile	U		0.00479	0.0166	1	10/09/2024 17:34	WG2377602
Benzene	U		0.000620	0.00133	1	10/09/2024 17:34	WG2377602
Bromobenzene	U		0.00119	0.0166	1	10/09/2024 17:34	WG2377602
Bromodichloromethane	U		0.000962	0.00332	1	10/09/2024 17:34	WG2377602
Bromoform	U		0.00155	0.0332	1	10/09/2024 17:34	WG2377602
Bromomethane	U		0.00262	0.0166	1	10/09/2024 17:34	WG2377602
n-Butylbenzene	U		0.00697	0.0166	1	10/09/2024 17:34	WG2377602
sec-Butylbenzene	U		0.00382	0.0166	1	10/09/2024 17:34	WG2377602
tert-Butylbenzene	U		0.00259	0.00664	1	10/09/2024 17:34	WG2377602
Carbon tetrachloride	U		0.00119	0.00664	1	10/09/2024 17:34	WG2377602
Chlorobenzene	U		0.000279	0.00332	1	10/09/2024 17:34	WG2377602
Chlorodibromomethane	U		0.000812	0.00332	1	10/09/2024 17:34	WG2377602
Chloroethane	U		0.00226	0.00664	1	10/09/2024 17:34	WG2377602
Chloroform	U		0.00137	0.00332	1	10/09/2024 17:34	WG2377602
Chloromethane	U		0.00577	0.0166	1	10/09/2024 17:34	WG2377602
2-Chlorotoluene	U		0.00115	0.00332	1	10/09/2024 17:34	WG2377602
4-Chlorotoluene	U		0.000597	0.00664	1	10/09/2024 17:34	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00518	0.0332	1	10/09/2024 17:34	WG2377602
1,2-Dibromoethane	U		0.000860	0.00332	1	10/09/2024 17:34	WG2377602
Dibromomethane	U		0.000996	0.00664	1	10/09/2024 17:34	WG2377602
1,2-Dichlorobenzene	U		0.000564	0.00664	1	10/09/2024 17:34	WG2377602
1,3-Dichlorobenzene	U		0.000796	0.00664	1	10/09/2024 17:34	WG2377602
1,4-Dichlorobenzene	U		0.000929	0.00664	1	10/09/2024 17:34	WG2377602
Dichlorodifluoromethane	U		0.00214	0.00664	1	10/09/2024 17:34	WG2377602
1,1-Dichloroethane	U		0.000652	0.00332	1	10/09/2024 17:34	WG2377602
1,2-Dichloroethane	U		0.000862	0.00332	1	10/09/2024 17:34	WG2377602
1,1-Dichloroethene	U		0.000804	0.00332	1	10/09/2024 17:34	WG2377602
cis-1,2-Dichloroethene	U		0.000974	0.00332	1	10/09/2024 17:34	WG2377602
trans-1,2-Dichloroethene	U		0.00138	0.00664	1	10/09/2024 17:34	WG2377602
1,2-Dichloropropane	U		0.00189	0.00664	1	10/09/2024 17:34	WG2377602
1,1-Dichloropropene	U		0.00107	0.00332	1	10/09/2024 17:34	WG2377602
1,3-Dichloropropane	U		0.000665	0.00664	1	10/09/2024 17:34	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00100	0.00332	1	10/09/2024 17:34	WG2377602
trans-1,3-Dichloropropene	U		0.00151	0.00664	1	10/09/2024 17:34	WG2377602
2,2-Dichloropropane	U		0.00183	0.00332	1	10/09/2024 17:34	WG2377602
Di-isopropyl ether	U		0.000544	0.00133	1	10/09/2024 17:34	WG2377602
Ethylbenzene	U		0.000978	0.00332	1	10/09/2024 17:34	WG2377602
Hexachloro-1,3-butadiene	U		0.00796	0.0332	1	10/09/2024 17:34	WG2377602



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
Isopropylbenzene	U		0.000564	0.00332	1	10/09/2024 17:34	WG2377602
p-Isopropyltoluene	U		0.00339	0.00664	1	10/09/2024 17:34	WG2377602
2-Butanone (MEK)	U		0.0843	0.133	1	10/09/2024 17:34	WG2377602
Methylene Chloride	U		0.00881	0.0332	1	10/09/2024 17:34	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00303	0.0332	1	10/09/2024 17:34	WG2377602
Methyl tert-butyl ether	U		0.000465	0.00133	1	10/09/2024 17:34	WG2377602
Naphthalene	U		0.00648	0.0166	1	10/09/2024 17:34	WG2377602
n-Propylbenzene	U		0.00126	0.00664	1	10/09/2024 17:34	WG2377602
Styrene	U		0.000304	0.0166	1	10/09/2024 17:34	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00126	0.00332	1	10/09/2024 17:34	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000923	0.00332	1	10/09/2024 17:34	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00100	0.00332	1	10/09/2024 17:34	WG2377602
Tetrachloroethene	U		0.00119	0.00332	1	10/09/2024 17:34	WG2377602
Toluene	U		0.00173	0.00664	1	10/09/2024 17:34	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00973	0.0166	1	10/09/2024 17:34	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00584	0.0166	1	10/09/2024 17:34	WG2377602
1,1,1-Trichloroethane	U		0.00123	0.00332	1	10/09/2024 17:34	WG2377602
1,1,2-Trichloroethane	U		0.000793	0.00332	1	10/09/2024 17:34	WG2377602
Trichloroethene	U		0.000775	0.00133	1	10/09/2024 17:34	WG2377602
Trichlorofluoromethane	U		0.00110	0.00332	1	10/09/2024 17:34	WG2377602
1,2,3-Trichloropropane	U		0.00215	0.0166	1	10/09/2024 17:34	WG2377602
1,2,4-Trimethylbenzene	U		0.00210	0.00664	1	10/09/2024 17:34	WG2377602
1,2,3-Trimethylbenzene	U		0.00210	0.00664	1	10/09/2024 17:34	WG2377602
1,3,5-Trimethylbenzene	U		0.00265	0.00664	1	10/09/2024 17:34	WG2377602
Vinyl chloride	U		0.00154	0.00332	1	10/09/2024 17:34	WG2377602
Xylenes, Total	U		0.00117	0.00863	1	10/09/2024 17:34	WG2377602
(S) Toluene-d8	111			75.0-131		10/09/2024 17:34	WG2377602
(S) 4-Bromofluorobenzene	103			67.0-138		10/09/2024 17:34	WG2377602
(S) 1,2-Dichloroethane-d4	87.4			70.0-130		10/09/2024 17:34	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.54	4.64	1	10/14/2024 13:38	WG2380970
Residual Range Organics (RRO)	U		3.87	11.6	1	10/14/2024 13:38	WG2380970
(S) o-Terphenyl	66.6			18.0-148		10/14/2024 13:38	WG2380970

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		0.0137	0.0395	1	10/10/2024 16:22	WG2377814
PCB 1221	U		0.0137	0.0395	1	10/10/2024 16:22	WG2377814
PCB 1232	U		0.0137	0.0395	1	10/10/2024 16:22	WG2377814
PCB 1242	U		0.0137	0.0395	1	10/10/2024 16:22	WG2377814
PCB 1248	U		0.00857	0.0197	1	10/10/2024 16:22	WG2377814
PCB 1254	U		0.00857	0.0197	1	10/10/2024 16:22	WG2377814
PCB 1260	U		0.00857	0.0197	1	10/10/2024 16:22	WG2377814
(S) Decachlorobiphenyl	66.9			10.0-135		10/10/2024 16:22	WG2377814
(S) Tetrachloro-m-xylene	64.6			10.0-139		10/10/2024 16:22	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00267	0.00697	1	10/12/2024 17:02	WG2379660
Acenaphthene	U		0.00243	0.00697	1	10/12/2024 17:02	WG2379660
Acenaphthylene	U		0.00251	0.00697	1	10/12/2024 17:02	WG2379660
Benzo(a)anthracene	U		0.00201	0.00697	1	10/12/2024 17:02	WG2379660
Benzo(a)pyrene	U		0.00208	0.00697	1	10/12/2024 17:02	WG2379660
Benzo(b)fluoranthene	U		0.00178	0.00697	1	10/12/2024 17:02	WG2379660
Benzo(g,h,i)perylene	U		0.00205	0.00697	1	10/12/2024 17:02	WG2379660
Benzo(k)fluoranthene	U		0.00250	0.00697	1	10/12/2024 17:02	WG2379660
Chrysene	U		0.00269	0.00697	1	10/12/2024 17:02	WG2379660
Dibenz(a,h)anthracene	U		0.00200	0.00697	1	10/12/2024 17:02	WG2379660
Fluoranthene	U		0.00264	0.00697	1	10/12/2024 17:02	WG2379660
Fluorene	U		0.00238	0.00697	1	10/12/2024 17:02	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00210	0.00697	1	10/12/2024 17:02	WG2379660
Naphthalene	U		0.00474	0.0232	1	10/12/2024 17:02	WG2379660
Phenanthrene	U		0.00268	0.00697	1	10/12/2024 17:02	WG2379660
Pyrene	U		0.00232	0.00697	1	10/12/2024 17:02	WG2379660
1-Methylnaphthalene	U		0.00521	0.0232	1	10/12/2024 17:02	WG2379660
2-Methylnaphthalene	U		0.00496	0.0232	1	10/12/2024 17:02	WG2379660
2-Chloronaphthalene	U		0.00541	0.0232	1	10/12/2024 17:02	WG2379660
(S) p-Terphenyl-d14	123	J1		23.0-120		10/12/2024 17:02	WG2379660
(S) Nitrobenzene-d5	125			14.0-149		10/12/2024 17:02	WG2379660
(S) 2-Fluorobiphenyl	120			34.0-125		10/12/2024 17:02	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129748-1 10/07/24 16:39

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1783949-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1783949-03 10/07/24 16:39 • (DUP) R4129748-3 10/07/24 16:39

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.4	85.6	1	0.239		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4129748-2 10/07/24 16:39

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

⁹Sc

Method Blank (MB)

(MB) R4130636-1 10/09/24 14:48

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

Laboratory Control Sample (LCS)

(LCS) R4130636-2 10/09/24 14:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.528	106	80.0-120	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/09/24 14:53 • (MS) R4130636-4 10/09/24 14:58 • (MSD) R4130636-5 10/09/24 15:01

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.578	U	0.551	0.548	95.3	94.8	1	75.0-125			0.527	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130558-1 10/09/24 14:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4130558-2 10/09/24 14:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	97.4	97.4	80.0-120	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/09/24 14:43 • (MS) R4130558-5 10/09/24 14:48 • (MSD) R4130558-6 10/09/24 14:50

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 %
Lead	116	13.7	139	127	108	97.9	1	75.0-125			9.10	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130839-3 10/09/24 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	0.00738	U	0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4130839-3 10/09/24 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.00695	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	0.0112	U	0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	99.0			67.0-138
(S) 1,2-Dichloroethane-d4	85.3			70.0-130

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

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	0.625	0.841	0.758	135	121	10.0-160			10.4	31
Acrylonitrile	0.625	0.746	0.746	119	119	45.0-153			0.000	22
Benzene	0.125	0.133	0.138	106	110	70.0-123			3.69	20
Bromobenzene	0.125	0.138	0.144	110	115	73.0-121			4.26	20
Bromodichloromethane	0.125	0.138	0.148	110	118	73.0-121			6.99	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.146	0.147	117	118	64.0-132			0.683	20
Bromomethane	0.125	0.123	0.129	98.4	103	56.0-147			4.76	20
n-Butylbenzene	0.125	0.147	0.151	118	121	68.0-135			2.68	20
sec-Butylbenzene	0.125	0.145	0.153	116	122	74.0-130			5.37	20
tert-Butylbenzene	0.125	0.144	0.149	115	119	75.0-127			3.41	20
Carbon tetrachloride	0.125	0.134	0.144	107	115	66.0-128			7.19	20
Chlorobenzene	0.125	0.137	0.141	110	113	76.0-128			2.88	20
Chlorodibromomethane	0.125	0.147	0.151	118	121	74.0-127			2.68	20
Chloroethane	0.125	0.121	0.117	96.8	93.6	61.0-134			3.36	20
Chloroform	0.125	0.128	0.133	102	106	72.0-123			3.83	20
Chloromethane	0.125	0.119	0.131	95.2	105	51.0-138			9.60	20
2-Chlorotoluene	0.125	0.132	0.143	106	114	75.0-124			8.00	20
4-Chlorotoluene	0.125	0.143	0.153	114	122	75.0-124			6.76	20
1,2-Dibromo-3-Chloropropane	0.125	0.149	0.160	119	128	59.0-130			7.12	20
1,2-Dibromoethane	0.125	0.150	0.154	120	123	74.0-128			2.63	20
Dibromomethane	0.125	0.138	0.145	110	116	75.0-122			4.95	20
1,2-Dichlorobenzene	0.125	0.138	0.145	110	116	76.0-124			4.95	20
1,3-Dichlorobenzene	0.125	0.139	0.144	111	115	76.0-125			3.53	20
1,4-Dichlorobenzene	0.125	0.134	0.144	107	115	77.0-121			7.19	20
Dichlorodifluoromethane	0.125	0.143	0.152	114	122	43.0-156			6.10	20
1,1-Dichloroethane	0.125	0.133	0.140	106	112	70.0-127			5.13	20
1,2-Dichloroethane	0.125	0.127	0.131	102	105	65.0-131			3.10	20
1,1-Dichloroethene	0.125	0.132	0.138	106	110	65.0-131			4.44	20
cis-1,2-Dichloroethene	0.125	0.133	0.142	106	114	73.0-125			6.55	20
trans-1,2-Dichloroethene	0.125	0.135	0.145	108	116	71.0-125			7.14	20
1,2-Dichloropropane	0.125	0.139	0.144	111	115	74.0-125			3.53	20
1,1-Dichloropropene	0.125	0.128	0.135	102	108	73.0-125			5.32	20
1,3-Dichloropropane	0.125	0.140	0.145	112	116	80.0-125			3.51	20
cis-1,3-Dichloropropene	0.125	0.154	0.161	123	129	76.0-127		J4	4.44	20
trans-1,3-Dichloropropene	0.125	0.146	0.154	117	123	73.0-127			5.33	20
2,2-Dichloropropane	0.125	0.127	0.134	102	107	59.0-135			5.36	20
Di-isopropyl ether	0.125	0.140	0.148	112	118	60.0-136			5.56	20
Ethylbenzene	0.125	0.132	0.138	106	110	74.0-126			4.44	20
Hexachloro-1,3-butadiene	0.125	0.165	0.168	132	134	57.0-150			1.80	20
Isopropylbenzene	0.125	0.142	0.152	114	122	72.0-127			6.80	20
p-Isopropyltoluene	0.125	0.135	0.140	108	112	72.0-133			3.64	20
2-Butanone (MEK)	0.625	0.609	0.657	97.4	105	30.0-160			7.58	24
Methylene Chloride	0.125	0.137	0.146	110	117	68.0-123			6.36	20
4-Methyl-2-pentanone (MIBK)	0.625	0.746	0.770	119	123	56.0-143			3.17	20
Methyl tert-butyl ether	0.125	0.139	0.147	111	118	66.0-132			5.59	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.125	0.143	0.147	114	118	59.0-130			2.76	20
n-Propylbenzene	0.125	0.139	0.144	111	115	74.0-126			3.53	20
Styrene	0.125	0.137	0.147	110	118	72.0-127			7.04	20
1,1,1,2-Tetrachloroethane	0.125	0.140	0.147	112	118	74.0-129			4.88	20
1,1,2,2-Tetrachloroethane	0.125	0.142	0.141	114	113	68.0-128			0.707	20
1,1,2-Trichlorotrifluoroethane	0.125	0.120	0.143	96.0	114	61.0-139			17.5	20
Tetrachloroethene	0.125	0.138	0.145	110	116	70.0-136			4.95	20
Toluene	0.125	0.137	0.145	110	116	75.0-121			5.67	20
1,2,3-Trichlorobenzene	0.125	0.175	0.169	140	135	59.0-139	J4		3.49	20
1,2,4-Trichlorobenzene	0.125	0.172	0.165	138	132	62.0-137	J4		4.15	20
1,1,1-Trichloroethane	0.125	0.130	0.141	104	113	69.0-126			8.12	20
1,1,2-Trichloroethane	0.125	0.137	0.145	110	116	78.0-123			5.67	20
Trichloroethene	0.125	0.138	0.146	110	117	76.0-126			5.63	20
Trichlorofluoromethane	0.125	0.121	0.126	96.8	101	61.0-142			4.05	20
1,2,3-Trichloropropane	0.125	0.146	0.152	117	122	67.0-129			4.03	20
1,2,4-Trimethylbenzene	0.125	0.147	0.158	118	126	70.0-126			7.21	20
1,2,3-Trimethylbenzene	0.125	0.138	0.146	110	117	74.0-124			5.63	20
1,3,5-Trimethylbenzene	0.125	0.139	0.143	111	114	73.0-127			2.84	20
Vinyl chloride	0.125	0.130	0.137	104	110	63.0-134			5.24	20
Xylenes, Total	0.375	0.439	0.469	117	125	72.0-127			6.61	20
(S) Toluene-d8				106	105	75.0-131				
(S) 4-Bromofluorobenzene				104	105	67.0-138				
(S) 1,2-Dichloroethane-d4				95.6	94.8	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4132554-1 10/14/24 11:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	72.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4132554-2 10/14/24 12:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	37.4	74.8	50.0-150	
(S) o-Terphenyl			80.6	18.0-148	

L1783979-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783979-04 10/14/24 14:30 • (MS) R4132554-3 10/14/24 14:43 • (MSD) R4132554-4 10/14/24 14:56

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 %
Diesel Range Organics (DRO)	65.1	U	50.1	45.8	77.0	69.9	1	50.0-150			9.05	20
(S) o-Terphenyl					78.9	77.0		18.0-148				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4131221-1 10/10/24 11:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	85.1			10.0-135
(S) Tetrachloro-m-xylene	81.4			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4131221-2 10/10/24 11:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.103	61.7	36.0-141	
PCB 1260	0.167	0.108	64.7	37.0-145	
(S) Decachlorobiphenyl			85.4	10.0-135	
(S) Tetrachloro-m-xylene			79.7	10.0-139	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/10/24 12:58 • (MS) R4131221-3 10/10/24 15:11 • (MSD) R4131221-4 10/10/24 15:21

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 %
PCB 1016	0.193	U	0.107	0.117	55.4	60.5	1	10.0-160			8.79	37
PCB 1260	0.193	U	0.101	0.115	52.2	59.6	1	10.0-160			13.3	38
(S) Decachlorobiphenyl					60.4	67.7		10.0-135				
(S) Tetrachloro-m-xylene					65.8	71.0		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) R4132874-2 10/12/24 12:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	0.00527	U	0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	133	U1		23.0-120
(S) Nitrobenzene-d5	116			14.0-149
(S) 2-Fluorobiphenyl	122			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4132874-1 10/12/24 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0771	96.4	50.0-126	
Acenaphthene	0.0800	0.0692	86.5	50.0-120	
Acenaphthylene	0.0800	0.0754	94.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0739	92.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0675	84.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0738	92.3	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0676	84.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0827	103	49.0-125	
Chrysene	0.0800	0.0818	102	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0612	76.5	47.0-125	
Fluoranthene	0.0800	0.0829	104	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4132874-1 10/12/24 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0762	95.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0632	79.0	46.0-125	
Naphthalene	0.0800	0.0674	84.3	50.0-120	
Phenanthrene	0.0800	0.0757	94.6	47.0-120	
Pyrene	0.0800	0.0744	93.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0708	88.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0670	83.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0743	92.9	50.0-120	
(S) p-Terphenyl-d14			137	23.0-120	J1
(S) Nitrobenzene-d5			134	14.0-149	
(S) 2-Fluorobiphenyl			134	34.0-125	J1

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/12/24 14:41 • (MS) R4132874-3 10/12/24 14:58 • (MSD) R4132874-4 10/12/24 15:16

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 %
Anthracene	0.0916	U	0.0928	0.0881	101	95.7	1	10.0-145			5.12	30
Acenaphthene	0.0916	U	0.0709	0.0704	77.4	76.5	1	14.0-127			0.655	27
Acenaphthylene	0.0916	U	0.0848	0.0847	92.6	92.0	1	21.0-124			0.137	25
Benzo(a)anthracene	0.0916	U	0.0898	0.0872	98.0	94.7	1	10.0-139			2.88	30
Benzo(a)pyrene	0.0916	U	0.0765	0.0779	83.5	84.5	1	10.0-141			1.80	31
Benzo(b)fluoranthene	0.0916	U	0.0670	0.0679	73.1	73.7	1	10.0-140			1.37	36
Benzo(g,h,i)perylene	0.0916	U	0.0648	0.0658	70.7	71.5	1	10.0-140			1.59	33
Benzo(k)fluoranthene	0.0916	U	0.0706	0.0714	77.0	77.5	1	10.0-137			1.14	31
Chrysene	0.0916	U	0.0829	0.0840	90.5	91.2	1	10.0-145			1.25	30
Dibenz(a,h)anthracene	0.0916	U	0.0641	0.0644	69.9	70.0	1	10.0-132			0.540	31
Fluoranthene	0.0916	U	0.0932	0.0909	102	98.7	1	10.0-153			2.51	33
Fluorene	0.0916	U	0.0819	0.0826	89.4	89.7	1	11.0-130			0.844	29
Indeno(1,2,3-cd)pyrene	0.0916	U	0.0663	0.0686	72.3	74.5	1	10.0-137			3.43	32
Naphthalene	0.0916	U	0.0673	0.0664	73.5	72.1	1	10.0-135			1.38	27
Phenanthrene	0.0916	U	0.0767	0.0754	83.7	81.9	1	10.0-144			1.67	31
Pyrene	0.0916	U	0.0704	0.0703	76.9	76.4	1	10.0-148			0.164	35
1-Methylnaphthalene	0.0916	U	0.0733	0.0718	80.1	78.0	1	10.0-142			2.07	28
2-Methylnaphthalene	0.0916	U	0.0692	0.0688	75.5	74.7	1	10.0-137			0.503	28
2-Chloronaphthalene	0.0916	U	0.0753	0.0747	82.2	81.2	1	29.0-120			0.771	24
(S) p-Terphenyl-d14					113	111		23.0-120				
(S) Nitrobenzene-d5					127	143		14.0-149				
(S) 2-Fluorobiphenyl					114	116		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

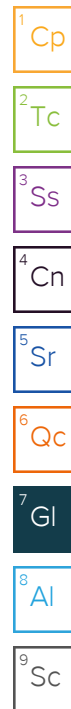
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



ACCREDITATIONS & LOCATIONS

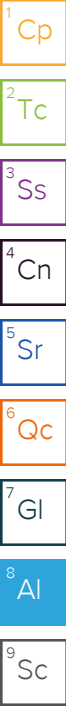
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

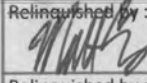
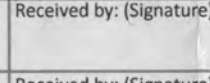
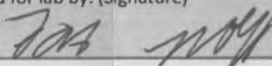
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	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.



Earth Engineers-Camas, WA 2411 SE 8th Ave Camas, WA 98607		Billing Information: Holly Dresher 2411 SE 8th Ave Camas, WA 98607		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>	
		Report to: David Hannant		Email To: dhannant@rmacompanies.com												 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Project Description: Waterfront Soils Removal		City/State Collected: Camas, WA														L# <u>1783949</u> A135	
Phone: 406-781-1679 Fax:		Client Project # 10-240350		Lab Project # EARENGCWA-CAMAS												Acctnum: EARENGCWA Template: T257763 Prelogin: P1094692 TSR: 110 - Brian Ford PB:	
Collected by (print): Matt Enos		Site/Facility ID # Hys Point Soils Removal		P.O. #												Shipped Via:	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☒ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #												Remarks Sample # (lab only)	
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPH-Dx w/SGT 8ozCir-NoPres	PAHs 8270 SIM 8ozCir-NoPres	PCBs 8082 8ozCir-NoPres	Metals 6010 4ozCir-NoPres (Hg, Pb)	VOCs 8260 40mlAmb/MeOH 10ml/Syr					
A.W.P-Q-4D+@10	G	SS	10	9/30/24	11:15	3	X	X	X	X	X						-01
A.W.N-P-5D@10			10		11:35	3	X	X	X	X	X						-02
A.W.N-P-4D@10			10		11:50	1	X	X	X	X	X						-03
A.W.P-Q-3D-4D@10					12:15	1	X	X	X	X	X						-04
A.W-Q+-2D-3D@10					12:40	1	X	X	X	X	X						-05
A.W-Q+-1D-2D@10					13:00	1	X	X	X	X	X						-06
B.W-A-B-1-3@10					13:15	1	X	X	X	X	X						-07
B.W-B-C@10					13:40	1	X	X	X	X	X						-08
B.W-E+-9-10@10					14:00	1	X	X	X	X	X						-09
	↓	↓		↓													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: *Standard TAT*		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking # <u>7915 0137 1612</u>		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ 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							
Relinquished by: (Signature) 		Date: <u>9/30/24</u> Time: <u>16:45</u>		Received by: (Signature) 		Trip Blank Received: ☒ Yes ☐ No HCL / MeOH TBR		Temp: _____ °C Bottles Received: <u>5.4 + .3 = 5.7</u>		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		Hold:		Condition: <u>NCF / OK</u>			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: <u>10-1-24</u> Time: <u>9:00</u>		Hold:		Condition:					

October 15, 2024

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

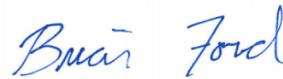
⁸ Al

⁹ Sc

Earth Engineers - Camas, WA

Sample Delivery Group: L1783979
Samples Received: 10/01/2024
Project Number: 10-240350
Description: Waterfront Soils Removal
Site: HYAS POINT SOILS REMOVAL
Report To: Steven Day
2411 SE 8th Ave
Camas, WA 98607

Entire Report Reviewed By:



Brian Ford
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
B_W_E+_8-9@10 L1783979-01	6
B_W_E+_7-8@10 L1783979-02	9
B_W_E+_6-7@10 L1783979-03	12
B_W_E+_5-6@10 L1783979-04	15
B_W_E+_4-5@10 L1783979-05	18
B_W_E+_3-4@10 L1783979-06	21
B_W_E+_1-3@10 L1783979-07	24
B_W_D-E@10 L1783979-08	27
Qc: Quality Control Summary	30
Total Solids by Method 2540 G-2011	30
Mercury by Method 7471B	32
Metals (ICP) by Method 6010D	33
Volatile Organic Compounds (GC/MS) by Method 8260D	34
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	38
Polychlorinated Biphenyls (GC) by Method 8082 A	39
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	40
Gl: Glossary of Terms	42
Al: Accreditations & Locations	43
Sc: Sample Chain of Custody	44



SAMPLE SUMMARY

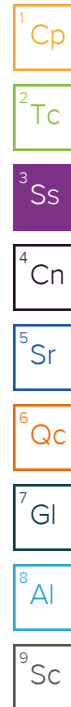
B_W_E+_8-9@10 L1783979-01 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 14:20

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:23	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:05	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1.01	09/30/24 14:20	10/09/24 17:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 13:51	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:32	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 17:19	JCH	Mt. Juliet, TN



B_W_E+_7-8@10 L1783979-02 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 14:45

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:26	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:07	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 14:45	10/09/24 18:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 14:04	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:42	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 17:37	JCH	Mt. Juliet, TN

B_W_E+_6-7@10 L1783979-03 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 15:00

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377514	1	10/07/24 16:34	10/07/24 16:39	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:28	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:08	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1.01	09/30/24 15:00	10/09/24 18:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 14:17	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 16:52	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 17:55	JCH	Mt. Juliet, TN

B_W_E+_5-6@10 L1783979-04 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 15:15

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377516	1	10/07/24 16:28	10/07/24 16:33	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:10	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 15:15	10/09/24 18:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 14:30	KKS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 17:03	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 18:12	JCH	Mt. Juliet, TN

B_W_E+_4-5@10 L1783979-05 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 15:30

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377516	1	10/07/24 16:28	10/07/24 16:33	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:12	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 15:30	10/09/24 19:09	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

B_W_E+_4-5@10 L1783979-05 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 15:30

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 15:09	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 17:13	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 18:30	JCH	Mt. Juliet, TN

B_W_E+_3-4@10 L1783979-06 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 15:45

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377516	1	10/07/24 16:28	10/07/24 16:33	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:13	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 15:45	10/09/24 19:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 15:22	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 17:23	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 18:48	JCH	Mt. Juliet, TN

B_W_E+_1-3@10 L1783979-07 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 16:00

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377516	1	10/07/24 16:28	10/07/24 16:33	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:38	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 15:15	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 16:00	10/09/24 19:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 15:35	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 17:33	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 19:05	JCH	Mt. Juliet, TN

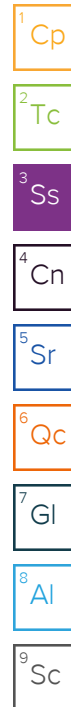
B_W_D-E@10 L1783979-08 Solid

Collected by
Matt Enos

Collected date/time
09/30/24 16:15

Received date/time
10/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2377516	1	10/07/24 16:28	10/07/24 16:33	CMB	Mt. Juliet, TN
Mercury by Method 7471B	WG2377973	1	10/08/24 14:18	10/09/24 15:41	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2378554	1	10/09/24 11:35	10/09/24 14:26	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2377602	1	09/30/24 16:15	10/09/24 20:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2380970	1	10/13/24 08:01	10/14/24 15:48	AUU	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2377814	1	10/09/24 20:21	10/10/24 17:44	HLA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2379660	1	10/11/24 17:33	10/12/24 19:23	JCH	Mt. Juliet, TN

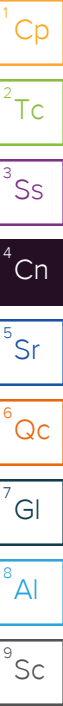


CASE NARRATIVE

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.



Brian Ford
Project Manager



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0254	J	0.0238	0.0462	1	10/09/2024 15:23	WG2377973

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	9.38		0.240	0.578	1	10/09/2024 15:05	WG2378554

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		0.0484	0.0662	1.01	10/09/2024 17:53	WG2377602
Acrylonitrile	U		0.00478	0.0165	1.01	10/09/2024 17:53	WG2377602
Benzene	U		0.000619	0.00132	1.01	10/09/2024 17:53	WG2377602
Bromobenzene	U		0.00119	0.0165	1.01	10/09/2024 17:53	WG2377602
Bromodichloromethane	U		0.000959	0.00332	1.01	10/09/2024 17:53	WG2377602
Bromoform	U		0.00155	0.0332	1.01	10/09/2024 17:53	WG2377602
Bromomethane	U		0.00261	0.0165	1.01	10/09/2024 17:53	WG2377602
n-Butylbenzene	U		0.00695	0.0165	1.01	10/09/2024 17:53	WG2377602
sec-Butylbenzene	U		0.00381	0.0165	1.01	10/09/2024 17:53	WG2377602
tert-Butylbenzene	U		0.00258	0.00662	1.01	10/09/2024 17:53	WG2377602
Carbon tetrachloride	U		0.00119	0.00662	1.01	10/09/2024 17:53	WG2377602
Chlorobenzene	U		0.000278	0.00332	1.01	10/09/2024 17:53	WG2377602
Chlorodibromomethane	U		0.000810	0.00332	1.01	10/09/2024 17:53	WG2377602
Chloroethane	U		0.00225	0.00662	1.01	10/09/2024 17:53	WG2377602
Chloroform	U		0.00136	0.00332	1.01	10/09/2024 17:53	WG2377602
Chloromethane	U		0.00575	0.0165	1.01	10/09/2024 17:53	WG2377602
2-Chlorotoluene	U		0.00115	0.00332	1.01	10/09/2024 17:53	WG2377602
4-Chlorotoluene	U		0.000596	0.00662	1.01	10/09/2024 17:53	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00516	0.0332	1.01	10/09/2024 17:53	WG2377602
1,2-Dibromoethane	U		0.000857	0.00332	1.01	10/09/2024 17:53	WG2377602
Dibromomethane	U		0.000992	0.00662	1.01	10/09/2024 17:53	WG2377602
1,2-Dichlorobenzene	U		0.000562	0.00662	1.01	10/09/2024 17:53	WG2377602
1,3-Dichlorobenzene	U		0.000794	0.00662	1.01	10/09/2024 17:53	WG2377602
1,4-Dichlorobenzene	U		0.000927	0.00662	1.01	10/09/2024 17:53	WG2377602
Dichlorodifluoromethane	U		0.00214	0.00662	1.01	10/09/2024 17:53	WG2377602
1,1-Dichloroethane	U		0.000650	0.00332	1.01	10/09/2024 17:53	WG2377602
1,2-Dichloroethane	U		0.000859	0.00332	1.01	10/09/2024 17:53	WG2377602
1,1-Dichloroethene	U		0.000802	0.00332	1.01	10/09/2024 17:53	WG2377602
cis-1,2-Dichloroethene	U		0.000971	0.00332	1.01	10/09/2024 17:53	WG2377602
trans-1,2-Dichloroethene	U		0.00138	0.00662	1.01	10/09/2024 17:53	WG2377602
1,2-Dichloropropane	U		0.00187	0.00662	1.01	10/09/2024 17:53	WG2377602
1,1-Dichloropropene	U		0.00107	0.00332	1.01	10/09/2024 17:53	WG2377602
1,3-Dichloropropane	U		0.000663	0.00662	1.01	10/09/2024 17:53	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00100	0.00332	1.01	10/09/2024 17:53	WG2377602
trans-1,3-Dichloropropene	U		0.00151	0.00662	1.01	10/09/2024 17:53	WG2377602
2,2-Dichloropropane	U		0.00182	0.00332	1.01	10/09/2024 17:53	WG2377602
Di-isopropyl ether	U		0.000543	0.00132	1.01	10/09/2024 17:53	WG2377602
Ethylbenzene	U		0.000975	0.00332	1.01	10/09/2024 17:53	WG2377602
Hexachloro-1,3-butadiene	U		0.00794	0.0332	1.01	10/09/2024 17:53	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000562	0.00332	1.01	10/09/2024 17:53	WG2377602
p-Isopropyltoluene	U		0.00338	0.00662	1.01	10/09/2024 17:53	WG2377602
2-Butanone (MEK)	U		0.0840	0.132	1.01	10/09/2024 17:53	WG2377602
Methylene Chloride	U		0.00879	0.0332	1.01	10/09/2024 17:53	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00301	0.0332	1.01	10/09/2024 17:53	WG2377602
Methyl tert-butyl ether	U		0.000463	0.00132	1.01	10/09/2024 17:53	WG2377602
Naphthalene	U		0.00646	0.0165	1.01	10/09/2024 17:53	WG2377602
n-Propylbenzene	U		0.00126	0.00662	1.01	10/09/2024 17:53	WG2377602
Styrene	U		0.000303	0.0165	1.01	10/09/2024 17:53	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00125	0.00332	1.01	10/09/2024 17:53	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000920	0.00332	1.01	10/09/2024 17:53	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.000999	0.00332	1.01	10/09/2024 17:53	WG2377602
Tetrachloroethene	U		0.00119	0.00332	1.01	10/09/2024 17:53	WG2377602
Toluene	U		0.00172	0.00662	1.01	10/09/2024 17:53	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00970	0.0165	1.01	10/09/2024 17:53	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00582	0.0165	1.01	10/09/2024 17:53	WG2377602
1,1,1-Trichloroethane	U		0.00122	0.00332	1.01	10/09/2024 17:53	WG2377602
1,1,2-Trichloroethane	U		0.000790	0.00332	1.01	10/09/2024 17:53	WG2377602
Trichloroethene	U		0.000773	0.00132	1.01	10/09/2024 17:53	WG2377602
Trichlorofluoromethane	U		0.00109	0.00332	1.01	10/09/2024 17:53	WG2377602
1,2,3-Trichloropropane	U		0.00215	0.0165	1.01	10/09/2024 17:53	WG2377602
1,2,4-Trimethylbenzene	U		0.00210	0.00662	1.01	10/09/2024 17:53	WG2377602
1,2,3-Trimethylbenzene	U		0.00210	0.00662	1.01	10/09/2024 17:53	WG2377602
1,3,5-Trimethylbenzene	U		0.00265	0.00662	1.01	10/09/2024 17:53	WG2377602
Vinyl chloride	U		0.00153	0.00332	1.01	10/09/2024 17:53	WG2377602
Xylenes, Total	U		0.00117	0.00860	1.01	10/09/2024 17:53	WG2377602
(S) Toluene-d8	110			75.0-131		10/09/2024 17:53	WG2377602
(S) 4-Bromofluorobenzene	103			67.0-138		10/09/2024 17:53	WG2377602
(S) 1,2-Dichloroethane-d4	90.0			70.0-130		10/09/2024 17:53	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.54	4.62	1	10/14/2024 13:51	WG2380970
Residual Range Organics (RRO)	U		3.85	11.6	1	10/14/2024 13:51	WG2380970
(S) o-Terphenyl	63.8			18.0-148		10/14/2024 13:51	WG2380970

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		0.0136	0.0393	1	10/10/2024 16:32	WG2377814
PCB 1221	U		0.0136	0.0393	1	10/10/2024 16:32	WG2377814
PCB 1232	U		0.0136	0.0393	1	10/10/2024 16:32	WG2377814
PCB 1242	U		0.0136	0.0393	1	10/10/2024 16:32	WG2377814
PCB 1248	U		0.00853	0.0197	1	10/10/2024 16:32	WG2377814
PCB 1254	U		0.00853	0.0197	1	10/10/2024 16:32	WG2377814
PCB 1260	U		0.00853	0.0197	1	10/10/2024 16:32	WG2377814
(S) Decachlorobiphenyl	73.4			10.0-135		10/10/2024 16:32	WG2377814
(S) Tetrachloro-m-xylene	72.6			10.0-139		10/10/2024 16:32	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00266	0.00694	1	10/12/2024 17:19	WG2379660
Acenaphthene	U		0.00242	0.00694	1	10/12/2024 17:19	WG2379660
Acenaphthylene	U		0.00250	0.00694	1	10/12/2024 17:19	WG2379660
Benzo(a)anthracene	U		0.00200	0.00694	1	10/12/2024 17:19	WG2379660
Benzo(a)pyrene	U		0.00207	0.00694	1	10/12/2024 17:19	WG2379660
Benzo(b)fluoranthene	U		0.00177	0.00694	1	10/12/2024 17:19	WG2379660
Benzo(g,h,i)perylene	U		0.00205	0.00694	1	10/12/2024 17:19	WG2379660
Benzo(k)fluoranthene	U		0.00249	0.00694	1	10/12/2024 17:19	WG2379660
Chrysene	U		0.00268	0.00694	1	10/12/2024 17:19	WG2379660
Dibenz(a,h)anthracene	U		0.00199	0.00694	1	10/12/2024 17:19	WG2379660
Fluoranthene	U		0.00262	0.00694	1	10/12/2024 17:19	WG2379660
Fluorene	U		0.00237	0.00694	1	10/12/2024 17:19	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00209	0.00694	1	10/12/2024 17:19	WG2379660
Naphthalene	0.00724	B J	0.00472	0.0231	1	10/12/2024 17:19	WG2379660
Phenanthrene	U		0.00267	0.00694	1	10/12/2024 17:19	WG2379660
Pyrene	U		0.00231	0.00694	1	10/12/2024 17:19	WG2379660
1-Methylnaphthalene	U		0.00519	0.0231	1	10/12/2024 17:19	WG2379660
2-Methylnaphthalene	U		0.00494	0.0231	1	10/12/2024 17:19	WG2379660
2-Chloronaphthalene	U		0.00539	0.0231	1	10/12/2024 17:19	WG2379660
(S) p-Terphenyl-d14	122	J1		23.0-120		10/12/2024 17:19	WG2379660
(S) Nitrobenzene-d5	133			14.0-149		10/12/2024 17:19	WG2379660
(S) 2-Fluorobiphenyl	116			34.0-125		10/12/2024 17:19	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	86.4		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0238	0.0463	1	10/09/2024 15:26	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.9		0.241	0.579	1	10/09/2024 15:07	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0481	0.0658	1	10/09/2024 18:12	WG2377602
Acrylonitrile	U		0.00475	0.0165	1	10/09/2024 18:12	WG2377602
Benzene	U		0.000615	0.00132	1	10/09/2024 18:12	WG2377602
Bromobenzene	U		0.00118	0.0165	1	10/09/2024 18:12	WG2377602
Bromodichloromethane	U		0.000955	0.00329	1	10/09/2024 18:12	WG2377602
Bromoform	U		0.00154	0.0329	1	10/09/2024 18:12	WG2377602
Bromomethane	U		0.00259	0.0165	1	10/09/2024 18:12	WG2377602
n-Butylbenzene	U		0.00691	0.0165	1	10/09/2024 18:12	WG2377602
sec-Butylbenzene	U		0.00379	0.0165	1	10/09/2024 18:12	WG2377602
tert-Butylbenzene	U		0.00257	0.00658	1	10/09/2024 18:12	WG2377602
Carbon tetrachloride	U		0.00118	0.00658	1	10/09/2024 18:12	WG2377602
Chlorobenzene	U		0.000276	0.00329	1	10/09/2024 18:12	WG2377602
Chlorodibromomethane	U		0.000806	0.00329	1	10/09/2024 18:12	WG2377602
Chloroethane	U		0.00224	0.00658	1	10/09/2024 18:12	WG2377602
Chloroform	U		0.00136	0.00329	1	10/09/2024 18:12	WG2377602
Chloromethane	U		0.00573	0.0165	1	10/09/2024 18:12	WG2377602
2-Chlorotoluene	U		0.00114	0.00329	1	10/09/2024 18:12	WG2377602
4-Chlorotoluene	U		0.000592	0.00658	1	10/09/2024 18:12	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00513	0.0329	1	10/09/2024 18:12	WG2377602
1,2-Dibromoethane	U		0.000853	0.00329	1	10/09/2024 18:12	WG2377602
Dibromomethane	U		0.000987	0.00658	1	10/09/2024 18:12	WG2377602
1,2-Dichlorobenzene	U		0.000560	0.00658	1	10/09/2024 18:12	WG2377602
1,3-Dichlorobenzene	U		0.000790	0.00658	1	10/09/2024 18:12	WG2377602
1,4-Dichlorobenzene	U		0.000922	0.00658	1	10/09/2024 18:12	WG2377602
Dichlorodifluoromethane	U		0.00212	0.00658	1	10/09/2024 18:12	WG2377602
1,1-Dichloroethane	U		0.000646	0.00329	1	10/09/2024 18:12	WG2377602
1,2-Dichloroethane	U		0.000855	0.00329	1	10/09/2024 18:12	WG2377602
1,1-Dichloroethene	U		0.000798	0.00329	1	10/09/2024 18:12	WG2377602
cis-1,2-Dichloroethene	U		0.000966	0.00329	1	10/09/2024 18:12	WG2377602
trans-1,2-Dichloroethene	U		0.00137	0.00658	1	10/09/2024 18:12	WG2377602
1,2-Dichloropropane	U		0.00187	0.00658	1	10/09/2024 18:12	WG2377602
1,1-Dichloropropene	U		0.00107	0.00329	1	10/09/2024 18:12	WG2377602
1,3-Dichloropropane	U		0.000660	0.00658	1	10/09/2024 18:12	WG2377602
cis-1,3-Dichloropropene	U	J4	0.000997	0.00329	1	10/09/2024 18:12	WG2377602
trans-1,3-Dichloropropene	U		0.00150	0.00658	1	10/09/2024 18:12	WG2377602
2,2-Dichloropropane	U		0.00182	0.00329	1	10/09/2024 18:12	WG2377602
Di-isopropyl ether	U		0.000540	0.00132	1	10/09/2024 18:12	WG2377602
Ethylbenzene	U		0.000970	0.00329	1	10/09/2024 18:12	WG2377602
Hexachloro-1,3-butadiene	U		0.00790	0.0329	1	10/09/2024 18:12	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000560	0.00329	1	10/09/2024 18:12	WG2377602
p-Isopropyltoluene	U		0.00336	0.00658	1	10/09/2024 18:12	WG2377602
2-Butanone (MEK)	U		0.0836	0.132	1	10/09/2024 18:12	WG2377602
Methylene Chloride	U		0.00874	0.0329	1	10/09/2024 18:12	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00300	0.0329	1	10/09/2024 18:12	WG2377602
Methyl tert-butyl ether	U		0.000461	0.00132	1	10/09/2024 18:12	WG2377602
Naphthalene	U		0.00643	0.0165	1	10/09/2024 18:12	WG2377602
n-Propylbenzene	U		0.00125	0.00658	1	10/09/2024 18:12	WG2377602
Styrene	U		0.000302	0.0165	1	10/09/2024 18:12	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00125	0.00329	1	10/09/2024 18:12	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000915	0.00329	1	10/09/2024 18:12	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.000993	0.00329	1	10/09/2024 18:12	WG2377602
Tetrachloroethene	U		0.00118	0.00329	1	10/09/2024 18:12	WG2377602
Toluene	U		0.00171	0.00658	1	10/09/2024 18:12	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00965	0.0165	1	10/09/2024 18:12	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00579	0.0165	1	10/09/2024 18:12	WG2377602
1,1,1-Trichloroethane	U		0.00122	0.00329	1	10/09/2024 18:12	WG2377602
1,1,2-Trichloroethane	U		0.000786	0.00329	1	10/09/2024 18:12	WG2377602
Trichloroethene	U		0.000769	0.00132	1	10/09/2024 18:12	WG2377602
Trichlorofluoromethane	U		0.00109	0.00329	1	10/09/2024 18:12	WG2377602
1,2,3-Trichloropropane	U		0.00213	0.0165	1	10/09/2024 18:12	WG2377602
1,2,4-Trimethylbenzene	U		0.00208	0.00658	1	10/09/2024 18:12	WG2377602
1,2,3-Trimethylbenzene	U		0.00208	0.00658	1	10/09/2024 18:12	WG2377602
1,3,5-Trimethylbenzene	U		0.00263	0.00658	1	10/09/2024 18:12	WG2377602
Vinyl chloride	U		0.00153	0.00329	1	10/09/2024 18:12	WG2377602
Xylenes, Total	U		0.00116	0.00856	1	10/09/2024 18:12	WG2377602
(S) Toluene-d8	110			75.0-131		10/09/2024 18:12	WG2377602
(S) 4-Bromofluorobenzene	103			67.0-138		10/09/2024 18:12	WG2377602
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		10/09/2024 18:12	WG2377602

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.54	4.63	1	10/14/2024 14:04	WG2380970
Residual Range Organics (RRO)	U		3.85	11.6	1	10/14/2024 14:04	WG2380970
(S) o-Terphenyl	62.2			18.0-148		10/14/2024 14:04	WG2380970

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		0.0137	0.0394	1	10/10/2024 16:42	WG2377814
PCB 1221	U		0.0137	0.0394	1	10/10/2024 16:42	WG2377814
PCB 1232	U		0.0137	0.0394	1	10/10/2024 16:42	WG2377814
PCB 1242	U		0.0137	0.0394	1	10/10/2024 16:42	WG2377814
PCB 1248	U		0.00854	0.0197	1	10/10/2024 16:42	WG2377814
PCB 1254	U		0.00854	0.0197	1	10/10/2024 16:42	WG2377814
PCB 1260	U		0.00854	0.0197	1	10/10/2024 16:42	WG2377814
(S) Decachlorobiphenyl	70.4			10.0-135		10/10/2024 16:42	WG2377814
(S) Tetrachloro-m-xylene	69.0			10.0-139		10/10/2024 16:42	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00266	0.00694	1	10/12/2024 17:37	WG2379660
Acenaphthene	U		0.00242	0.00694	1	10/12/2024 17:37	WG2379660
Acenaphthylene	U		0.00250	0.00694	1	10/12/2024 17:37	WG2379660
Benzo(a)anthracene	U		0.00200	0.00694	1	10/12/2024 17:37	WG2379660
Benzo(a)pyrene	U		0.00207	0.00694	1	10/12/2024 17:37	WG2379660
Benzo(b)fluoranthene	U		0.00177	0.00694	1	10/12/2024 17:37	WG2379660
Benzo(g,h,i)perylene	U		0.00205	0.00694	1	10/12/2024 17:37	WG2379660
Benzo(k)fluoranthene	U		0.00249	0.00694	1	10/12/2024 17:37	WG2379660
Chrysene	U		0.00269	0.00694	1	10/12/2024 17:37	WG2379660
Dibenz(a,h)anthracene	U		0.00199	0.00694	1	10/12/2024 17:37	WG2379660
Fluoranthene	U		0.00263	0.00694	1	10/12/2024 17:37	WG2379660
Fluorene	U		0.00237	0.00694	1	10/12/2024 17:37	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00210	0.00694	1	10/12/2024 17:37	WG2379660
Naphthalene	U		0.00472	0.0231	1	10/12/2024 17:37	WG2379660
Phenanthrene	U		0.00267	0.00694	1	10/12/2024 17:37	WG2379660
Pyrene	U		0.00231	0.00694	1	10/12/2024 17:37	WG2379660
1-Methylnaphthalene	U		0.00520	0.0231	1	10/12/2024 17:37	WG2379660
2-Methylnaphthalene	U		0.00494	0.0231	1	10/12/2024 17:37	WG2379660
2-Chloronaphthalene	U		0.00539	0.0231	1	10/12/2024 17:37	WG2379660
(S) p-Terphenyl-d14	120			23.0-120		10/12/2024 17:37	WG2379660
(S) Nitrobenzene-d5	122			14.0-149		10/12/2024 17:37	WG2379660
(S) 2-Fluorobiphenyl	117			34.0-125		10/12/2024 17:37	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.0		1	10/07/2024 16:39	WG2377514

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0242	0.0471	1	10/09/2024 15:28	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	11.6		0.245	0.588	1	10/09/2024 15:08	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0499	0.0683	1.01	10/09/2024 18:31	WG2377602
Acrylonitrile	U		0.00494	0.0170	1.01	10/09/2024 18:31	WG2377602
Benzene	U		0.000638	0.00137	1.01	10/09/2024 18:31	WG2377602
Bromobenzene	U		0.00123	0.0170	1.01	10/09/2024 18:31	WG2377602
Bromodichloromethane	U		0.000990	0.00342	1.01	10/09/2024 18:31	WG2377602
Bromoform	U		0.00160	0.0342	1.01	10/09/2024 18:31	WG2377602
Bromomethane	U		0.00269	0.0170	1.01	10/09/2024 18:31	WG2377602
n-Butylbenzene	U		0.00717	0.0170	1.01	10/09/2024 18:31	WG2377602
sec-Butylbenzene	U		0.00394	0.0170	1.01	10/09/2024 18:31	WG2377602
tert-Butylbenzene	U		0.00266	0.00683	1.01	10/09/2024 18:31	WG2377602
Carbon tetrachloride	U		0.00123	0.00683	1.01	10/09/2024 18:31	WG2377602
Chlorobenzene	U		0.000287	0.00342	1.01	10/09/2024 18:31	WG2377602
Chlorodibromomethane	U		0.000836	0.00342	1.01	10/09/2024 18:31	WG2377602
Chloroethane	U		0.00233	0.00683	1.01	10/09/2024 18:31	WG2377602
Chloroform	U		0.00141	0.00342	1.01	10/09/2024 18:31	WG2377602
Chloromethane	U		0.00594	0.0170	1.01	10/09/2024 18:31	WG2377602
2-Chlorotoluene	U		0.00118	0.00342	1.01	10/09/2024 18:31	WG2377602
4-Chlorotoluene	U		0.000615	0.00683	1.01	10/09/2024 18:31	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00533	0.0342	1.01	10/09/2024 18:31	WG2377602
1,2-Dibromoethane	U		0.000884	0.00342	1.01	10/09/2024 18:31	WG2377602
Dibromomethane	U		0.00102	0.00683	1.01	10/09/2024 18:31	WG2377602
1,2-Dichlorobenzene	U		0.000580	0.00683	1.01	10/09/2024 18:31	WG2377602
1,3-Dichlorobenzene	U		0.000820	0.00683	1.01	10/09/2024 18:31	WG2377602
1,4-Dichlorobenzene	U		0.000956	0.00683	1.01	10/09/2024 18:31	WG2377602
Dichlorodifluoromethane	U		0.00220	0.00683	1.01	10/09/2024 18:31	WG2377602
1,1-Dichloroethane	U		0.000671	0.00342	1.01	10/09/2024 18:31	WG2377602
1,2-Dichloroethane	U		0.000886	0.00342	1.01	10/09/2024 18:31	WG2377602
1,1-Dichloroethene	U		0.000828	0.00342	1.01	10/09/2024 18:31	WG2377602
cis-1,2-Dichloroethene	U		0.00100	0.00342	1.01	10/09/2024 18:31	WG2377602
trans-1,2-Dichloroethene	U		0.00142	0.00683	1.01	10/09/2024 18:31	WG2377602
1,2-Dichloropropane	U		0.00193	0.00683	1.01	10/09/2024 18:31	WG2377602
1,1-Dichloropropene	U		0.00110	0.00342	1.01	10/09/2024 18:31	WG2377602
1,3-Dichloropropane	U		0.000684	0.00683	1.01	10/09/2024 18:31	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00103	0.00342	1.01	10/09/2024 18:31	WG2377602
trans-1,3-Dichloropropene	U		0.00156	0.00683	1.01	10/09/2024 18:31	WG2377602
2,2-Dichloropropane	U		0.00188	0.00342	1.01	10/09/2024 18:31	WG2377602
Di-isopropyl ether	U		0.000560	0.00137	1.01	10/09/2024 18:31	WG2377602
Ethylbenzene	U		0.00101	0.00342	1.01	10/09/2024 18:31	WG2377602
Hexachloro-1,3-butadiene	U		0.00820	0.0342	1.01	10/09/2024 18:31	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000580	0.00342	1.01	10/09/2024 18:31	WG2377602
p-Isopropyltoluene	U		0.00349	0.00683	1.01	10/09/2024 18:31	WG2377602
2-Butanone (MEK)	U		0.0867	0.137	1.01	10/09/2024 18:31	WG2377602
Methylene Chloride	U		0.00907	0.0342	1.01	10/09/2024 18:31	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00311	0.0342	1.01	10/09/2024 18:31	WG2377602
Methyl tert-butyl ether	U		0.000477	0.00137	1.01	10/09/2024 18:31	WG2377602
Naphthalene	U		0.00667	0.0170	1.01	10/09/2024 18:31	WG2377602
n-Propylbenzene	U		0.00130	0.00683	1.01	10/09/2024 18:31	WG2377602
Styrene	U		0.000312	0.0170	1.01	10/09/2024 18:31	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00129	0.00342	1.01	10/09/2024 18:31	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000949	0.00342	1.01	10/09/2024 18:31	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00103	0.00342	1.01	10/09/2024 18:31	WG2377602
Tetrachloroethene	U		0.00122	0.00342	1.01	10/09/2024 18:31	WG2377602
Toluene	U		0.00177	0.00683	1.01	10/09/2024 18:31	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0100	0.0170	1.01	10/09/2024 18:31	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00600	0.0170	1.01	10/09/2024 18:31	WG2377602
1,1,1-Trichloroethane	U		0.00126	0.00342	1.01	10/09/2024 18:31	WG2377602
1,1,2-Trichloroethane	U		0.000815	0.00342	1.01	10/09/2024 18:31	WG2377602
Trichloroethene	U		0.000798	0.00137	1.01	10/09/2024 18:31	WG2377602
Trichlorofluoromethane	U		0.00113	0.00342	1.01	10/09/2024 18:31	WG2377602
1,2,3-Trichloropropane	U		0.00222	0.0170	1.01	10/09/2024 18:31	WG2377602
1,2,4-Trimethylbenzene	U		0.00216	0.00683	1.01	10/09/2024 18:31	WG2377602
1,2,3-Trimethylbenzene	U		0.00216	0.00683	1.01	10/09/2024 18:31	WG2377602
1,3,5-Trimethylbenzene	U		0.00273	0.00683	1.01	10/09/2024 18:31	WG2377602
Vinyl chloride	U		0.00158	0.00342	1.01	10/09/2024 18:31	WG2377602
Xylenes, Total	U		0.00120	0.00887	1.01	10/09/2024 18:31	WG2377602
(S) Toluene-d8	112			75.0-131		10/09/2024 18:31	WG2377602
(S) 4-Bromofluorobenzene	102			67.0-138		10/09/2024 18:31	WG2377602
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		10/09/2024 18:31	WG2377602

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

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.57	4.71	1	10/14/2024 14:17	WG2380970
Residual Range Organics (RRO)	U		3.92	11.8	1	10/14/2024 14:17	WG2380970
(S) o-Terphenyl	67.9			18.0-148		10/14/2024 14:17	WG2380970

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		0.0139	0.0400	1	10/10/2024 16:52	WG2377814
PCB 1221	U		0.0139	0.0400	1	10/10/2024 16:52	WG2377814
PCB 1232	U		0.0139	0.0400	1	10/10/2024 16:52	WG2377814
PCB 1242	U		0.0139	0.0400	1	10/10/2024 16:52	WG2377814
PCB 1248	U		0.00869	0.0200	1	10/10/2024 16:52	WG2377814
PCB 1254	U		0.00869	0.0200	1	10/10/2024 16:52	WG2377814
PCB 1260	U		0.00869	0.0200	1	10/10/2024 16:52	WG2377814
(S) Decachlorobiphenyl	75.2			10.0-135		10/10/2024 16:52	WG2377814
(S) Tetrachloro-m-xylene	69.7			10.0-139		10/10/2024 16:52	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00271	0.00706	1	10/12/2024 17:55	WG2379660
Acenaphthene	U		0.00246	0.00706	1	10/12/2024 17:55	WG2379660
Acenaphthylene	U		0.00254	0.00706	1	10/12/2024 17:55	WG2379660
Benzo(a)anthracene	U		0.00204	0.00706	1	10/12/2024 17:55	WG2379660
Benzo(a)pyrene	U		0.00211	0.00706	1	10/12/2024 17:55	WG2379660
Benzo(b)fluoranthene	U		0.00180	0.00706	1	10/12/2024 17:55	WG2379660
Benzo(g,h,i)perylene	U		0.00208	0.00706	1	10/12/2024 17:55	WG2379660
Benzo(k)fluoranthene	U		0.00253	0.00706	1	10/12/2024 17:55	WG2379660
Chrysene	U		0.00273	0.00706	1	10/12/2024 17:55	WG2379660
Dibenz(a,h)anthracene	U		0.00202	0.00706	1	10/12/2024 17:55	WG2379660
Fluoranthene	U		0.00267	0.00706	1	10/12/2024 17:55	WG2379660
Fluorene	U		0.00241	0.00706	1	10/12/2024 17:55	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00706	1	10/12/2024 17:55	WG2379660
Naphthalene	U		0.00480	0.0235	1	10/12/2024 17:55	WG2379660
Phenanthrene	U		0.00272	0.00706	1	10/12/2024 17:55	WG2379660
Pyrene	U		0.00235	0.00706	1	10/12/2024 17:55	WG2379660
1-Methylnaphthalene	U		0.00528	0.0235	1	10/12/2024 17:55	WG2379660
2-Methylnaphthalene	U		0.00503	0.0235	1	10/12/2024 17:55	WG2379660
2-Chloronaphthalene	U		0.00548	0.0235	1	10/12/2024 17:55	WG2379660
(S) p-Terphenyl-d14	122	J1		23.0-120		10/12/2024 17:55	WG2379660
(S) Nitrobenzene-d5	132			14.0-149		10/12/2024 17:55	WG2379660
(S) 2-Fluorobiphenyl	120			34.0-125		10/12/2024 17:55	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	10/07/2024 16:33	WG2377516

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		0.0271	0.0526	1	10/09/2024 15:31	WG2377973

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	13.1		0.274	0.658	1	10/09/2024 15:10	WG2378554

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		0.0597	0.0818	1	10/09/2024 18:50	WG2377602
Acrylonitrile	U		0.00591	0.0205	1	10/09/2024 18:50	WG2377602
Benzene	U		0.000764	0.00164	1	10/09/2024 18:50	WG2377602
Bromobenzene	U		0.00147	0.0205	1	10/09/2024 18:50	WG2377602
Bromodichloromethane	U		0.00119	0.00409	1	10/09/2024 18:50	WG2377602
Bromoform	U		0.00191	0.0409	1	10/09/2024 18:50	WG2377602
Bromomethane	U		0.00322	0.0205	1	10/09/2024 18:50	WG2377602
n-Butylbenzene	U		0.00859	0.0205	1	10/09/2024 18:50	WG2377602
sec-Butylbenzene	U		0.00471	0.0205	1	10/09/2024 18:50	WG2377602
tert-Butylbenzene	U		0.00319	0.00818	1	10/09/2024 18:50	WG2377602
Carbon tetrachloride	U		0.00147	0.00818	1	10/09/2024 18:50	WG2377602
Chlorobenzene	U		0.000344	0.00409	1	10/09/2024 18:50	WG2377602
Chlorodibromomethane	U		0.00100	0.00409	1	10/09/2024 18:50	WG2377602
Chloroethane	U		0.00278	0.00818	1	10/09/2024 18:50	WG2377602
Chloroform	U		0.00169	0.00409	1	10/09/2024 18:50	WG2377602
Chloromethane	U		0.00712	0.0205	1	10/09/2024 18:50	WG2377602
2-Chlorotoluene	U		0.00142	0.00409	1	10/09/2024 18:50	WG2377602
4-Chlorotoluene	U		0.000737	0.00818	1	10/09/2024 18:50	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0409	1	10/09/2024 18:50	WG2377602
1,2-Dibromoethane	U		0.00106	0.00409	1	10/09/2024 18:50	WG2377602
Dibromomethane	U		0.00123	0.00818	1	10/09/2024 18:50	WG2377602
1,2-Dichlorobenzene	U		0.000696	0.00818	1	10/09/2024 18:50	WG2377602
1,3-Dichlorobenzene	U		0.000982	0.00818	1	10/09/2024 18:50	WG2377602
1,4-Dichlorobenzene	U		0.00115	0.00818	1	10/09/2024 18:50	WG2377602
Dichlorodifluoromethane	U		0.00264	0.00818	1	10/09/2024 18:50	WG2377602
1,1-Dichloroethane	U		0.000804	0.00409	1	10/09/2024 18:50	WG2377602
1,2-Dichloroethane	U		0.00106	0.00409	1	10/09/2024 18:50	WG2377602
1,1-Dichloroethene	U		0.000992	0.00409	1	10/09/2024 18:50	WG2377602
cis-1,2-Dichloroethene	U		0.00120	0.00409	1	10/09/2024 18:50	WG2377602
trans-1,2-Dichloroethene	U		0.00170	0.00818	1	10/09/2024 18:50	WG2377602
1,2-Dichloropropane	U		0.00232	0.00818	1	10/09/2024 18:50	WG2377602
1,1-Dichloropropene	U		0.00132	0.00409	1	10/09/2024 18:50	WG2377602
1,3-Dichloropropane	U		0.000820	0.00818	1	10/09/2024 18:50	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00124	0.00409	1	10/09/2024 18:50	WG2377602
trans-1,3-Dichloropropene	U		0.00187	0.00818	1	10/09/2024 18:50	WG2377602
2,2-Dichloropropane	U		0.00226	0.00409	1	10/09/2024 18:50	WG2377602
Di-isopropyl ether	U		0.000671	0.00164	1	10/09/2024 18:50	WG2377602
Ethylbenzene	U		0.00121	0.00409	1	10/09/2024 18:50	WG2377602
Hexachloro-1,3-butadiene	U		0.00982	0.0409	1	10/09/2024 18:50	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000696	0.00409	1	10/09/2024 18:50	WG2377602
p-Isopropyltoluene	U		0.00417	0.00818	1	10/09/2024 18:50	WG2377602
2-Butanone (MEK)	U		0.104	0.164	1	10/09/2024 18:50	WG2377602
Methylene Chloride	U		0.0109	0.0409	1	10/09/2024 18:50	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00373	0.0409	1	10/09/2024 18:50	WG2377602
Methyl tert-butyl ether	U		0.000573	0.00164	1	10/09/2024 18:50	WG2377602
Naphthalene	U		0.00799	0.0205	1	10/09/2024 18:50	WG2377602
n-Propylbenzene	U		0.00155	0.00818	1	10/09/2024 18:50	WG2377602
Styrene	U		0.000375	0.0205	1	10/09/2024 18:50	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00155	0.00409	1	10/09/2024 18:50	WG2377602
1,1,2,2-Tetrachloroethane	U		0.00114	0.00409	1	10/09/2024 18:50	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00123	0.00409	1	10/09/2024 18:50	WG2377602
Tetrachloroethene	U		0.00147	0.00409	1	10/09/2024 18:50	WG2377602
Toluene	U		0.00213	0.00818	1	10/09/2024 18:50	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0120	0.0205	1	10/09/2024 18:50	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00720	0.0205	1	10/09/2024 18:50	WG2377602
1,1,1-Trichloroethane	U		0.00151	0.00409	1	10/09/2024 18:50	WG2377602
1,1,2-Trichloroethane	U		0.000977	0.00409	1	10/09/2024 18:50	WG2377602
Trichloroethene	U		0.000956	0.00164	1	10/09/2024 18:50	WG2377602
Trichlorofluoromethane	U		0.00135	0.00409	1	10/09/2024 18:50	WG2377602
1,2,3-Trichloropropane	U		0.00265	0.0205	1	10/09/2024 18:50	WG2377602
1,2,4-Trimethylbenzene	U		0.00259	0.00818	1	10/09/2024 18:50	WG2377602
1,2,3-Trimethylbenzene	U		0.00259	0.00818	1	10/09/2024 18:50	WG2377602
1,3,5-Trimethylbenzene	U		0.00327	0.00818	1	10/09/2024 18:50	WG2377602
Vinyl chloride	U		0.00190	0.00409	1	10/09/2024 18:50	WG2377602
Xylenes, Total	U		0.00144	0.0106	1	10/09/2024 18:50	WG2377602
(S) Toluene-d8	111			75.0-131		10/09/2024 18:50	WG2377602
(S) 4-Bromofluorobenzene	101			67.0-138		10/09/2024 18:50	WG2377602
(S) 1,2-Dichloroethane-d4	89.2			70.0-130		10/09/2024 18:50	WG2377602

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.75	5.26	1	10/14/2024 14:30	WG2380970
Residual Range Organics (RRO)	U		4.38	13.2	1	10/14/2024 14:30	WG2380970
(S) o-Terphenyl	70.0			18.0-148		10/14/2024 14:30	WG2380970

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		0.0155	0.0447	1	10/10/2024 17:03	WG2377814
PCB 1221	U		0.0155	0.0447	1	10/10/2024 17:03	WG2377814
PCB 1232	U		0.0155	0.0447	1	10/10/2024 17:03	WG2377814
PCB 1242	U		0.0155	0.0447	1	10/10/2024 17:03	WG2377814
PCB 1248	U		0.00971	0.0224	1	10/10/2024 17:03	WG2377814
PCB 1254	U		0.00971	0.0224	1	10/10/2024 17:03	WG2377814
PCB 1260	U		0.00971	0.0224	1	10/10/2024 17:03	WG2377814
(S) Decachlorobiphenyl	76.1			10.0-135		10/10/2024 17:03	WG2377814
(S) Tetrachloro-m-xylene	83.8			10.0-139		10/10/2024 17:03	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00303	0.00789	1	10/12/2024 18:12	WG2379660
Acenaphthene	U		0.00275	0.00789	1	10/12/2024 18:12	WG2379660
Acenaphthylene	U		0.00284	0.00789	1	10/12/2024 18:12	WG2379660
Benzo(a)anthracene	U		0.00228	0.00789	1	10/12/2024 18:12	WG2379660
Benzo(a)pyrene	U		0.00235	0.00789	1	10/12/2024 18:12	WG2379660
Benzo(b)fluoranthene	U		0.00201	0.00789	1	10/12/2024 18:12	WG2379660
Benzo(g,h,i)perylene	U		0.00233	0.00789	1	10/12/2024 18:12	WG2379660
Benzo(k)fluoranthene	U		0.00283	0.00789	1	10/12/2024 18:12	WG2379660
Chrysene	U		0.00305	0.00789	1	10/12/2024 18:12	WG2379660
Dibenz(a,h)anthracene	U		0.00226	0.00789	1	10/12/2024 18:12	WG2379660
Fluoranthene	U		0.00299	0.00789	1	10/12/2024 18:12	WG2379660
Fluorene	U		0.00270	0.00789	1	10/12/2024 18:12	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00238	0.00789	1	10/12/2024 18:12	WG2379660
Naphthalene	U		0.00537	0.0263	1	10/12/2024 18:12	WG2379660
Phenanthrene	U		0.00304	0.00789	1	10/12/2024 18:12	WG2379660
Pyrene	U		0.00263	0.00789	1	10/12/2024 18:12	WG2379660
1-Methylnaphthalene	U		0.00591	0.0263	1	10/12/2024 18:12	WG2379660
2-Methylnaphthalene	U		0.00562	0.0263	1	10/12/2024 18:12	WG2379660
2-Chloronaphthalene	U		0.00613	0.0263	1	10/12/2024 18:12	WG2379660
(S) p-Terphenyl-d14	123	J1		23.0-120		10/12/2024 18:12	WG2379660
(S) Nitrobenzene-d5	125			14.0-149		10/12/2024 18:12	WG2379660
(S) 2-Fluorobiphenyl	115			34.0-125		10/12/2024 18:12	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.6		1	10/07/2024 16:33	WG2377516

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0246	0.0479	1	10/09/2024 15:33	WG2377973

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Lead	15.7		0.249	0.598	1	10/09/2024 15:12	WG2378554

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0510	0.0698	1	10/09/2024 19:09	WG2377602
Acrylonitrile	U		0.00504	0.0175	1	10/09/2024 19:09	WG2377602
Benzene	U		0.000652	0.00140	1	10/09/2024 19:09	WG2377602
Bromobenzene	U		0.00126	0.0175	1	10/09/2024 19:09	WG2377602
Bromodichloromethane	U		0.00101	0.00349	1	10/09/2024 19:09	WG2377602
Bromoform	U		0.00163	0.0349	1	10/09/2024 19:09	WG2377602
Bromomethane	U		0.00275	0.0175	1	10/09/2024 19:09	WG2377602
n-Butylbenzene	U		0.00733	0.0175	1	10/09/2024 19:09	WG2377602
sec-Butylbenzene	U		0.00402	0.0175	1	10/09/2024 19:09	WG2377602
tert-Butylbenzene	U		0.00272	0.00698	1	10/09/2024 19:09	WG2377602
Carbon tetrachloride	U		0.00125	0.00698	1	10/09/2024 19:09	WG2377602
Chlorobenzene	U		0.000293	0.00349	1	10/09/2024 19:09	WG2377602
Chlorodibromomethane	U		0.000855	0.00349	1	10/09/2024 19:09	WG2377602
Chloroethane	U		0.00237	0.00698	1	10/09/2024 19:09	WG2377602
Chloroform	U		0.00144	0.00349	1	10/09/2024 19:09	WG2377602
Chloromethane	U		0.00607	0.0175	1	10/09/2024 19:09	WG2377602
2-Chlorotoluene	U		0.00121	0.00349	1	10/09/2024 19:09	WG2377602
4-Chlorotoluene	U		0.000628	0.00698	1	10/09/2024 19:09	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00545	0.0349	1	10/09/2024 19:09	WG2377602
1,2-Dibromoethane	U		0.000905	0.00349	1	10/09/2024 19:09	WG2377602
Dibromomethane	U		0.00105	0.00698	1	10/09/2024 19:09	WG2377602
1,2-Dichlorobenzene	U		0.000593	0.00698	1	10/09/2024 19:09	WG2377602
1,3-Dichlorobenzene	U		0.000838	0.00698	1	10/09/2024 19:09	WG2377602
1,4-Dichlorobenzene	U		0.000977	0.00698	1	10/09/2024 19:09	WG2377602
Dichlorodifluoromethane	U		0.00225	0.00698	1	10/09/2024 19:09	WG2377602
1,1-Dichloroethane	U		0.000686	0.00349	1	10/09/2024 19:09	WG2377602
1,2-Dichloroethane	U		0.000906	0.00349	1	10/09/2024 19:09	WG2377602
1,1-Dichloroethene	U		0.000846	0.00349	1	10/09/2024 19:09	WG2377602
cis-1,2-Dichloroethene	U		0.00102	0.00349	1	10/09/2024 19:09	WG2377602
trans-1,2-Dichloroethene	U		0.00145	0.00698	1	10/09/2024 19:09	WG2377602
1,2-Dichloropropane	U		0.00198	0.00698	1	10/09/2024 19:09	WG2377602
1,1-Dichloropropene	U		0.00113	0.00349	1	10/09/2024 19:09	WG2377602
1,3-Dichloropropane	U		0.000700	0.00698	1	10/09/2024 19:09	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00106	0.00349	1	10/09/2024 19:09	WG2377602
trans-1,3-Dichloropropene	U		0.00159	0.00698	1	10/09/2024 19:09	WG2377602
2,2-Dichloropropane	U		0.00193	0.00349	1	10/09/2024 19:09	WG2377602
Di-isopropyl ether	U		0.000572	0.00140	1	10/09/2024 19:09	WG2377602
Ethylbenzene	U		0.00103	0.00349	1	10/09/2024 19:09	WG2377602
Hexachloro-1,3-butadiene	U		0.00838	0.0349	1	10/09/2024 19:09	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000593	0.00349	1	10/09/2024 19:09	WG2377602
p-Isopropyltoluene	U		0.00356	0.00698	1	10/09/2024 19:09	WG2377602
2-Butanone (MEK)	U		0.0887	0.140	1	10/09/2024 19:09	WG2377602
Methylene Chloride	0.0121	BJ	0.00927	0.0349	1	10/09/2024 19:09	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00318	0.0349	1	10/09/2024 19:09	WG2377602
Methyl tert-butyl ether	U		0.000489	0.00140	1	10/09/2024 19:09	WG2377602
Naphthalene	U		0.00681	0.0175	1	10/09/2024 19:09	WG2377602
n-Propylbenzene	U		0.00133	0.00698	1	10/09/2024 19:09	WG2377602
Styrene	U		0.000320	0.0175	1	10/09/2024 19:09	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00132	0.00349	1	10/09/2024 19:09	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000970	0.00349	1	10/09/2024 19:09	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00105	0.00349	1	10/09/2024 19:09	WG2377602
Tetrachloroethene	U		0.00125	0.00349	1	10/09/2024 19:09	WG2377602
Toluene	0.00184	J	0.00182	0.00698	1	10/09/2024 19:09	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0102	0.0175	1	10/09/2024 19:09	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00614	0.0175	1	10/09/2024 19:09	WG2377602
1,1,1-Trichloroethane	U		0.00129	0.00349	1	10/09/2024 19:09	WG2377602
1,1,2-Trichloroethane	U		0.000834	0.00349	1	10/09/2024 19:09	WG2377602
Trichloroethene	U		0.000815	0.00140	1	10/09/2024 19:09	WG2377602
Trichlorofluoromethane	U		0.00115	0.00349	1	10/09/2024 19:09	WG2377602
1,2,3-Trichloropropane	U		0.00226	0.0175	1	10/09/2024 19:09	WG2377602
1,2,4-Trimethylbenzene	U		0.00221	0.00698	1	10/09/2024 19:09	WG2377602
1,2,3-Trimethylbenzene	U		0.00221	0.00698	1	10/09/2024 19:09	WG2377602
1,3,5-Trimethylbenzene	U		0.00279	0.00698	1	10/09/2024 19:09	WG2377602
Vinyl chloride	U		0.00162	0.00349	1	10/09/2024 19:09	WG2377602
Xylenes, Total	U		0.00123	0.00908	1	10/09/2024 19:09	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 19:09	WG2377602
(S) 4-Bromofluorobenzene	104			67.0-138		10/09/2024 19:09	WG2377602
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		10/09/2024 19:09	WG2377602

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.59	4.79	1	10/14/2024 15:09	WG2380970
Residual Range Organics (RRO)	U		3.98	12.0	1	10/14/2024 15:09	WG2380970
(S) o-Terphenyl	63.1			18.0-148		10/14/2024 15:09	WG2380970

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		0.0141	0.0407	1	10/10/2024 17:13	WG2377814
PCB 1221	U		0.0141	0.0407	1	10/10/2024 17:13	WG2377814
PCB 1232	U		0.0141	0.0407	1	10/10/2024 17:13	WG2377814
PCB 1242	U		0.0141	0.0407	1	10/10/2024 17:13	WG2377814
PCB 1248	U		0.00883	0.0203	1	10/10/2024 17:13	WG2377814
PCB 1254	U		0.00883	0.0203	1	10/10/2024 17:13	WG2377814
PCB 1260	U		0.00883	0.0203	1	10/10/2024 17:13	WG2377814
(S) Decachlorobiphenyl	68.3			10.0-135		10/10/2024 17:13	WG2377814
(S) Tetrachloro-m-xylene	66.8			10.0-139		10/10/2024 17:13	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00275	0.00718	1	10/12/2024 18:30	WG2379660
Acenaphthene	U		0.00250	0.00718	1	10/12/2024 18:30	WG2379660
Acenaphthylene	U		0.00258	0.00718	1	10/12/2024 18:30	WG2379660
Benzo(a)anthracene	U		0.00207	0.00718	1	10/12/2024 18:30	WG2379660
Benzo(a)pyrene	U		0.00214	0.00718	1	10/12/2024 18:30	WG2379660
Benzo(b)fluoranthene	U		0.00183	0.00718	1	10/12/2024 18:30	WG2379660
Benzo(g,h,i)perylene	U		0.00212	0.00718	1	10/12/2024 18:30	WG2379660
Benzo(k)fluoranthene	U		0.00257	0.00718	1	10/12/2024 18:30	WG2379660
Chrysene	U		0.00278	0.00718	1	10/12/2024 18:30	WG2379660
Dibenz(a,h)anthracene	U		0.00206	0.00718	1	10/12/2024 18:30	WG2379660
Fluoranthene	U		0.00272	0.00718	1	10/12/2024 18:30	WG2379660
Fluorene	U		0.00245	0.00718	1	10/12/2024 18:30	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00217	0.00718	1	10/12/2024 18:30	WG2379660
Naphthalene	U		0.00488	0.0239	1	10/12/2024 18:30	WG2379660
Phenanthrene	U		0.00276	0.00718	1	10/12/2024 18:30	WG2379660
Pyrene	U		0.00239	0.00718	1	10/12/2024 18:30	WG2379660
1-Methylnaphthalene	U		0.00537	0.0239	1	10/12/2024 18:30	WG2379660
2-Methylnaphthalene	U		0.00511	0.0239	1	10/12/2024 18:30	WG2379660
2-Chloronaphthalene	U		0.00558	0.0239	1	10/12/2024 18:30	WG2379660
(S) p-Terphenyl-d14	129	J1		23.0-120		10/12/2024 18:30	WG2379660
(S) Nitrobenzene-d5	123			14.0-149		10/12/2024 18:30	WG2379660
(S) 2-Fluorobiphenyl	120			34.0-125		10/12/2024 18:30	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	10/07/2024 16:33	WG2377516

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		0.0247	0.0480	1	10/09/2024 15:36	WG2377973

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.9		0.249	0.600	1	10/09/2024 15:13	WG2378554

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		0.0514	0.0704	1	10/09/2024 19:28	WG2377602
Acrylonitrile	U		0.00508	0.0176	1	10/09/2024 19:28	WG2377602
Benzene	U		0.000657	0.00141	1	10/09/2024 19:28	WG2377602
Bromobenzene	U		0.00127	0.0176	1	10/09/2024 19:28	WG2377602
Bromodichloromethane	U		0.00102	0.00352	1	10/09/2024 19:28	WG2377602
Bromoform	U		0.00165	0.0352	1	10/09/2024 19:28	WG2377602
Bromomethane	U		0.00277	0.0176	1	10/09/2024 19:28	WG2377602
n-Butylbenzene	U		0.00739	0.0176	1	10/09/2024 19:28	WG2377602
sec-Butylbenzene	U		0.00405	0.0176	1	10/09/2024 19:28	WG2377602
tert-Butylbenzene	U		0.00274	0.00704	1	10/09/2024 19:28	WG2377602
Carbon tetrachloride	U		0.00126	0.00704	1	10/09/2024 19:28	WG2377602
Chlorobenzene	U		0.000296	0.00352	1	10/09/2024 19:28	WG2377602
Chlorodibromomethane	U		0.000861	0.00352	1	10/09/2024 19:28	WG2377602
Chloroethane	U		0.00239	0.00704	1	10/09/2024 19:28	WG2377602
Chloroform	U		0.00145	0.00352	1	10/09/2024 19:28	WG2377602
Chloromethane	U		0.00612	0.0176	1	10/09/2024 19:28	WG2377602
2-Chlorotoluene	U		0.00122	0.00352	1	10/09/2024 19:28	WG2377602
4-Chlorotoluene	U		0.000633	0.00704	1	10/09/2024 19:28	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0352	1	10/09/2024 19:28	WG2377602
1,2-Dibromoethane	U		0.000912	0.00352	1	10/09/2024 19:28	WG2377602
Dibromomethane	U		0.00106	0.00704	1	10/09/2024 19:28	WG2377602
1,2-Dichlorobenzene	U		0.000598	0.00704	1	10/09/2024 19:28	WG2377602
1,3-Dichlorobenzene	U		0.000844	0.00704	1	10/09/2024 19:28	WG2377602
1,4-Dichlorobenzene	U		0.000985	0.00704	1	10/09/2024 19:28	WG2377602
Dichlorodifluoromethane	U		0.00227	0.00704	1	10/09/2024 19:28	WG2377602
1,1-Dichloroethane	U		0.000691	0.00352	1	10/09/2024 19:28	WG2377602
1,2-Dichloroethane	U		0.000913	0.00352	1	10/09/2024 19:28	WG2377602
1,1-Dichloroethene	U		0.000853	0.00352	1	10/09/2024 19:28	WG2377602
cis-1,2-Dichloroethene	U		0.00103	0.00352	1	10/09/2024 19:28	WG2377602
trans-1,2-Dichloroethene	U		0.00146	0.00704	1	10/09/2024 19:28	WG2377602
1,2-Dichloropropane	U		0.00200	0.00704	1	10/09/2024 19:28	WG2377602
1,1-Dichloropropene	U		0.00114	0.00352	1	10/09/2024 19:28	WG2377602
1,3-Dichloropropane	U		0.000705	0.00704	1	10/09/2024 19:28	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00107	0.00352	1	10/09/2024 19:28	WG2377602
trans-1,3-Dichloropropene	U		0.00160	0.00704	1	10/09/2024 19:28	WG2377602
2,2-Dichloropropane	U		0.00194	0.00352	1	10/09/2024 19:28	WG2377602
Di-isopropyl ether	U		0.000577	0.00141	1	10/09/2024 19:28	WG2377602
Ethylbenzene	U		0.00104	0.00352	1	10/09/2024 19:28	WG2377602
Hexachloro-1,3-butadiene	U		0.00844	0.0352	1	10/09/2024 19:28	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000598	0.00352	1	10/09/2024 19:28	WG2377602
p-Isopropyltoluene	U		0.00359	0.00704	1	10/09/2024 19:28	WG2377602
2-Butanone (MEK)	U		0.0894	0.141	1	10/09/2024 19:28	WG2377602
Methylene Chloride	U		0.00934	0.0352	1	10/09/2024 19:28	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00321	0.0352	1	10/09/2024 19:28	WG2377602
Methyl tert-butyl ether	U		0.000493	0.00141	1	10/09/2024 19:28	WG2377602
Naphthalene	U		0.00687	0.0176	1	10/09/2024 19:28	WG2377602
n-Propylbenzene	U		0.00134	0.00704	1	10/09/2024 19:28	WG2377602
Styrene	U		0.000322	0.0176	1	10/09/2024 19:28	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00133	0.00352	1	10/09/2024 19:28	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000978	0.00352	1	10/09/2024 19:28	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00106	0.00352	1	10/09/2024 19:28	WG2377602
Tetrachloroethene	U		0.00126	0.00352	1	10/09/2024 19:28	WG2377602
Toluene	U		0.00183	0.00704	1	10/09/2024 19:28	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0103	0.0176	1	10/09/2024 19:28	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00619	0.0176	1	10/09/2024 19:28	WG2377602
1,1,1-Trichloroethane	U		0.00130	0.00352	1	10/09/2024 19:28	WG2377602
1,1,2-Trichloroethane	U		0.000840	0.00352	1	10/09/2024 19:28	WG2377602
Trichloroethene	U		0.000822	0.00141	1	10/09/2024 19:28	WG2377602
Trichlorofluoromethane	U		0.00116	0.00352	1	10/09/2024 19:28	WG2377602
1,2,3-Trichloropropane	U		0.00228	0.0176	1	10/09/2024 19:28	WG2377602
1,2,4-Trimethylbenzene	U		0.00222	0.00704	1	10/09/2024 19:28	WG2377602
1,2,3-Trimethylbenzene	U		0.00222	0.00704	1	10/09/2024 19:28	WG2377602
1,3,5-Trimethylbenzene	U		0.00281	0.00704	1	10/09/2024 19:28	WG2377602
Vinyl chloride	U		0.00163	0.00352	1	10/09/2024 19:28	WG2377602
Xylenes, Total	U		0.00124	0.00915	1	10/09/2024 19:28	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 19:28	WG2377602
(S) 4-Bromofluorobenzene	101			67.0-138		10/09/2024 19:28	WG2377602
(S) 1,2-Dichloroethane-d4	87.1			70.0-130		10/09/2024 19:28	WG2377602

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.59	4.80	1	10/14/2024 15:22	WG2380970
Residual Range Organics (RRO)	U		3.99	12.0	1	10/14/2024 15:22	WG2380970
(S) o-Terphenyl	67.5			18.0-148		10/14/2024 15:22	WG2380970

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		0.0141	0.0408	1	10/10/2024 17:23	WG2377814
PCB 1221	U		0.0141	0.0408	1	10/10/2024 17:23	WG2377814
PCB 1232	U		0.0141	0.0408	1	10/10/2024 17:23	WG2377814
PCB 1242	U		0.0141	0.0408	1	10/10/2024 17:23	WG2377814
PCB 1248	U		0.00885	0.0204	1	10/10/2024 17:23	WG2377814
PCB 1254	U		0.00885	0.0204	1	10/10/2024 17:23	WG2377814
PCB 1260	U		0.00885	0.0204	1	10/10/2024 17:23	WG2377814
(S) Decachlorobiphenyl	79.0			10.0-135		10/10/2024 17:23	WG2377814
(S) Tetrachloro-m-xylene	76.7			10.0-139		10/10/2024 17:23	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00276	0.00719	1	10/12/2024 18:48	WG2379660
Acenaphthene	U		0.00251	0.00719	1	10/12/2024 18:48	WG2379660
Acenaphthylene	U		0.00259	0.00719	1	10/12/2024 18:48	WG2379660
Benzo(a)anthracene	U		0.00207	0.00719	1	10/12/2024 18:48	WG2379660
Benzo(a)pyrene	U		0.00215	0.00719	1	10/12/2024 18:48	WG2379660
Benzo(b)fluoranthene	U		0.00183	0.00719	1	10/12/2024 18:48	WG2379660
Benzo(g,h,i)perylene	U		0.00212	0.00719	1	10/12/2024 18:48	WG2379660
Benzo(k)fluoranthene	U		0.00258	0.00719	1	10/12/2024 18:48	WG2379660
Chrysene	U		0.00278	0.00719	1	10/12/2024 18:48	WG2379660
Dibenz(a,h)anthracene	U		0.00206	0.00719	1	10/12/2024 18:48	WG2379660
Fluoranthene	U		0.00272	0.00719	1	10/12/2024 18:48	WG2379660
Fluorene	U		0.00246	0.00719	1	10/12/2024 18:48	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00217	0.00719	1	10/12/2024 18:48	WG2379660
Naphthalene	U		0.00489	0.0240	1	10/12/2024 18:48	WG2379660
Phenanthrene	U		0.00277	0.00719	1	10/12/2024 18:48	WG2379660
Pyrene	U		0.00240	0.00719	1	10/12/2024 18:48	WG2379660
1-Methylnaphthalene	U		0.00538	0.0240	1	10/12/2024 18:48	WG2379660
2-Methylnaphthalene	U		0.00512	0.0240	1	10/12/2024 18:48	WG2379660
2-Chloronaphthalene	U		0.00559	0.0240	1	10/12/2024 18:48	WG2379660
(S) p-Terphenyl-d14	129	J1		23.0-120		10/12/2024 18:48	WG2379660
(S) Nitrobenzene-d5	123			14.0-149		10/12/2024 18:48	WG2379660
(S) 2-Fluorobiphenyl	114			34.0-125		10/12/2024 18:48	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	10/07/2024 16:33	WG2377516

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		0.0276	0.0536	1	10/09/2024 15:38	WG2377973

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	10.3		0.279	0.670	1	10/09/2024 15:15	WG2378554

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		0.0619	0.0848	1	10/09/2024 19:47	WG2377602
Acrylonitrile	U		0.00612	0.0212	1	10/09/2024 19:47	WG2377602
Benzene	U		0.000792	0.00170	1	10/09/2024 19:47	WG2377602
Bromobenzene	U		0.00153	0.0212	1	10/09/2024 19:47	WG2377602
Bromodichloromethane	U		0.00123	0.00424	1	10/09/2024 19:47	WG2377602
Bromoform	U		0.00198	0.0424	1	10/09/2024 19:47	WG2377602
Bromomethane	U		0.00334	0.0212	1	10/09/2024 19:47	WG2377602
n-Butylbenzene	U		0.00890	0.0212	1	10/09/2024 19:47	WG2377602
sec-Butylbenzene	U		0.00488	0.0212	1	10/09/2024 19:47	WG2377602
tert-Butylbenzene	U		0.00331	0.00848	1	10/09/2024 19:47	WG2377602
Carbon tetrachloride	U		0.00152	0.00848	1	10/09/2024 19:47	WG2377602
Chlorobenzene	U		0.000356	0.00424	1	10/09/2024 19:47	WG2377602
Chlorodibromomethane	U		0.00104	0.00424	1	10/09/2024 19:47	WG2377602
Chloroethane	U		0.00288	0.00848	1	10/09/2024 19:47	WG2377602
Chloroform	U		0.00175	0.00424	1	10/09/2024 19:47	WG2377602
Chloromethane	U		0.00737	0.0212	1	10/09/2024 19:47	WG2377602
2-Chlorotoluene	U		0.00147	0.00424	1	10/09/2024 19:47	WG2377602
4-Chlorotoluene	U		0.000763	0.00848	1	10/09/2024 19:47	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00661	0.0424	1	10/09/2024 19:47	WG2377602
1,2-Dibromoethane	U		0.00110	0.00424	1	10/09/2024 19:47	WG2377602
Dibromomethane	U		0.00127	0.00848	1	10/09/2024 19:47	WG2377602
1,2-Dichlorobenzene	U		0.000721	0.00848	1	10/09/2024 19:47	WG2377602
1,3-Dichlorobenzene	U		0.00102	0.00848	1	10/09/2024 19:47	WG2377602
1,4-Dichlorobenzene	U		0.00119	0.00848	1	10/09/2024 19:47	WG2377602
Dichlorodifluoromethane	U		0.00273	0.00848	1	10/09/2024 19:47	WG2377602
1,1-Dichloroethane	U		0.000832	0.00424	1	10/09/2024 19:47	WG2377602
1,2-Dichloroethane	U		0.00110	0.00424	1	10/09/2024 19:47	WG2377602
1,1-Dichloroethene	U		0.00103	0.00424	1	10/09/2024 19:47	WG2377602
cis-1,2-Dichloroethene	U		0.00124	0.00424	1	10/09/2024 19:47	WG2377602
trans-1,2-Dichloroethene	U		0.00176	0.00848	1	10/09/2024 19:47	WG2377602
1,2-Dichloropropane	U		0.00241	0.00848	1	10/09/2024 19:47	WG2377602
1,1-Dichloropropene	U		0.00137	0.00424	1	10/09/2024 19:47	WG2377602
1,3-Dichloropropane	U		0.000849	0.00848	1	10/09/2024 19:47	WG2377602
cis-1,3-Dichloropropene	U	J4	0.00128	0.00424	1	10/09/2024 19:47	WG2377602
trans-1,3-Dichloropropene	U		0.00193	0.00848	1	10/09/2024 19:47	WG2377602
2,2-Dichloropropane	U		0.00234	0.00424	1	10/09/2024 19:47	WG2377602
Di-isopropyl ether	U		0.000695	0.00170	1	10/09/2024 19:47	WG2377602
Ethylbenzene	U		0.00125	0.00424	1	10/09/2024 19:47	WG2377602
Hexachloro-1,3-butadiene	U		0.0102	0.0424	1	10/09/2024 19:47	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000721	0.00424	1	10/09/2024 19:47	WG2377602
p-Isopropyltoluene	U		0.00432	0.00848	1	10/09/2024 19:47	WG2377602
2-Butanone (MEK)	U		0.108	0.170	1	10/09/2024 19:47	WG2377602
Methylene Chloride	U		0.0113	0.0424	1	10/09/2024 19:47	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00387	0.0424	1	10/09/2024 19:47	WG2377602
Methyl tert-butyl ether	U		0.000593	0.00170	1	10/09/2024 19:47	WG2377602
Naphthalene	U		0.00827	0.0212	1	10/09/2024 19:47	WG2377602
n-Propylbenzene	U		0.00161	0.00848	1	10/09/2024 19:47	WG2377602
Styrene	U		0.000388	0.0212	1	10/09/2024 19:47	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00161	0.00424	1	10/09/2024 19:47	WG2377602
1,1,2,2-Tetrachloroethane	U		0.00118	0.00424	1	10/09/2024 19:47	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.00128	0.00424	1	10/09/2024 19:47	WG2377602
Tetrachloroethene	U		0.00152	0.00424	1	10/09/2024 19:47	WG2377602
Toluene	U		0.00220	0.00848	1	10/09/2024 19:47	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.0124	0.0212	1	10/09/2024 19:47	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00746	0.0212	1	10/09/2024 19:47	WG2377602
1,1,1-Trichloroethane	U		0.00156	0.00424	1	10/09/2024 19:47	WG2377602
1,1,2-Trichloroethane	U		0.00101	0.00424	1	10/09/2024 19:47	WG2377602
Trichloroethene	U		0.000990	0.00170	1	10/09/2024 19:47	WG2377602
Trichlorofluoromethane	U		0.00140	0.00424	1	10/09/2024 19:47	WG2377602
1,2,3-Trichloropropane	U		0.00275	0.0212	1	10/09/2024 19:47	WG2377602
1,2,4-Trimethylbenzene	U		0.00268	0.00848	1	10/09/2024 19:47	WG2377602
1,2,3-Trimethylbenzene	U		0.00268	0.00848	1	10/09/2024 19:47	WG2377602
1,3,5-Trimethylbenzene	U		0.00339	0.00848	1	10/09/2024 19:47	WG2377602
Vinyl chloride	U		0.00197	0.00424	1	10/09/2024 19:47	WG2377602
Xylenes, Total	U		0.00149	0.0110	1	10/09/2024 19:47	WG2377602
(S) Toluene-d8	109			75.0-131		10/09/2024 19:47	WG2377602
(S) 4-Bromofluorobenzene	104			67.0-138		10/09/2024 19:47	WG2377602
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		10/09/2024 19:47	WG2377602

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.78	5.36	1	10/14/2024 15:35	WG2380970
Residual Range Organics (RRO)	U		4.46	13.4	1	10/14/2024 15:35	WG2380970
(S) o-Terphenyl	70.8			18.0-148		10/14/2024 15:35	WG2380970

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		0.0158	0.0456	1	10/10/2024 17:33	WG2377814
PCB 1221	U		0.0158	0.0456	1	10/10/2024 17:33	WG2377814
PCB 1232	U		0.0158	0.0456	1	10/10/2024 17:33	WG2377814
PCB 1242	U		0.0158	0.0456	1	10/10/2024 17:33	WG2377814
PCB 1248	U		0.00989	0.0228	1	10/10/2024 17:33	WG2377814
PCB 1254	U		0.00989	0.0228	1	10/10/2024 17:33	WG2377814
PCB 1260	U		0.00989	0.0228	1	10/10/2024 17:33	WG2377814
(S) Decachlorobiphenyl	49.1			10.0-135		10/10/2024 17:33	WG2377814
(S) Tetrachloro-m-xylene	80.3			10.0-139		10/10/2024 17:33	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00308	0.00804	1	10/12/2024 19:05	WG2379660
Acenaphthene	U		0.00280	0.00804	1	10/12/2024 19:05	WG2379660
Acenaphthylene	U		0.00289	0.00804	1	10/12/2024 19:05	WG2379660
Benzo(a)anthracene	U		0.00232	0.00804	1	10/12/2024 19:05	WG2379660
Benzo(a)pyrene	U		0.00240	0.00804	1	10/12/2024 19:05	WG2379660
Benzo(b)fluoranthene	U		0.00205	0.00804	1	10/12/2024 19:05	WG2379660
Benzo(g,h,i)perylene	U		0.00237	0.00804	1	10/12/2024 19:05	WG2379660
Benzo(k)fluoranthene	U		0.00288	0.00804	1	10/12/2024 19:05	WG2379660
Chrysene	U		0.00311	0.00804	1	10/12/2024 19:05	WG2379660
Dibenz(a,h)anthracene	U		0.00231	0.00804	1	10/12/2024 19:05	WG2379660
Fluoranthene	U		0.00304	0.00804	1	10/12/2024 19:05	WG2379660
Fluorene	U		0.00275	0.00804	1	10/12/2024 19:05	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00243	0.00804	1	10/12/2024 19:05	WG2379660
Naphthalene	U		0.00547	0.0268	1	10/12/2024 19:05	WG2379660
Phenanthrene	U		0.00310	0.00804	1	10/12/2024 19:05	WG2379660
Pyrene	U		0.00268	0.00804	1	10/12/2024 19:05	WG2379660
1-Methylnaphthalene	U		0.00602	0.0268	1	10/12/2024 19:05	WG2379660
2-Methylnaphthalene	U		0.00572	0.0268	1	10/12/2024 19:05	WG2379660
2-Chloronaphthalene	U		0.00625	0.0268	1	10/12/2024 19:05	WG2379660
(S) p-Terphenyl-d14	128	J1		23.0-120		10/12/2024 19:05	WG2379660
(S) Nitrobenzene-d5	123			14.0-149		10/12/2024 19:05	WG2379660
(S) 2-Fluorobiphenyl	121			34.0-125		10/12/2024 19:05	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	10/07/2024 16:33	WG2377516

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		0.0237	0.0461	1	10/09/2024 15:41	WG2377973

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	12.7		0.240	0.576	1	10/09/2024 14:26	WG2378554

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		0.0478	0.0655	1	10/09/2024 20:05	WG2377602
Acrylonitrile	U		0.00473	0.0164	1	10/09/2024 20:05	WG2377602
Benzene	U		0.000612	0.00131	1	10/09/2024 20:05	WG2377602
Bromobenzene	U		0.00118	0.0164	1	10/09/2024 20:05	WG2377602
Bromodichloromethane	U		0.000950	0.00328	1	10/09/2024 20:05	WG2377602
Bromoform	U		0.00153	0.0328	1	10/09/2024 20:05	WG2377602
Bromomethane	U		0.00258	0.0164	1	10/09/2024 20:05	WG2377602
n-Butylbenzene	U		0.00688	0.0164	1	10/09/2024 20:05	WG2377602
sec-Butylbenzene	U		0.00377	0.0164	1	10/09/2024 20:05	WG2377602
tert-Butylbenzene	U		0.00256	0.00655	1	10/09/2024 20:05	WG2377602
Carbon tetrachloride	U		0.00118	0.00655	1	10/09/2024 20:05	WG2377602
Chlorobenzene	U		0.000275	0.00328	1	10/09/2024 20:05	WG2377602
Chlorodibromomethane	U		0.000802	0.00328	1	10/09/2024 20:05	WG2377602
Chloroethane	U		0.00223	0.00655	1	10/09/2024 20:05	WG2377602
Chloroform	U		0.00135	0.00328	1	10/09/2024 20:05	WG2377602
Chloromethane	U		0.00570	0.0164	1	10/09/2024 20:05	WG2377602
2-Chlorotoluene	U		0.00113	0.00328	1	10/09/2024 20:05	WG2377602
4-Chlorotoluene	U		0.000590	0.00655	1	10/09/2024 20:05	WG2377602
1,2-Dibromo-3-Chloropropane	U		0.00511	0.0328	1	10/09/2024 20:05	WG2377602
1,2-Dibromoethane	U		0.000849	0.00328	1	10/09/2024 20:05	WG2377602
Dibromomethane	U		0.000983	0.00655	1	10/09/2024 20:05	WG2377602
1,2-Dichlorobenzene	U		0.000557	0.00655	1	10/09/2024 20:05	WG2377602
1,3-Dichlorobenzene	U		0.000786	0.00655	1	10/09/2024 20:05	WG2377602
1,4-Dichlorobenzene	U		0.000917	0.00655	1	10/09/2024 20:05	WG2377602
Dichlorodifluoromethane	U		0.00211	0.00655	1	10/09/2024 20:05	WG2377602
1,1-Dichloroethane	U		0.000643	0.00328	1	10/09/2024 20:05	WG2377602
1,2-Dichloroethane	U		0.000850	0.00328	1	10/09/2024 20:05	WG2377602
1,1-Dichloroethene	U		0.000794	0.00328	1	10/09/2024 20:05	WG2377602
cis-1,2-Dichloroethene	U		0.000962	0.00328	1	10/09/2024 20:05	WG2377602
trans-1,2-Dichloroethene	U		0.00136	0.00655	1	10/09/2024 20:05	WG2377602
1,2-Dichloropropane	U		0.00186	0.00655	1	10/09/2024 20:05	WG2377602
1,1-Dichloropropene	U		0.00106	0.00328	1	10/09/2024 20:05	WG2377602
1,3-Dichloropropane	U		0.000656	0.00655	1	10/09/2024 20:05	WG2377602
cis-1,3-Dichloropropene	U	J4	0.000992	0.00328	1	10/09/2024 20:05	WG2377602
trans-1,3-Dichloropropene	U		0.00149	0.00655	1	10/09/2024 20:05	WG2377602
2,2-Dichloropropane	U		0.00181	0.00328	1	10/09/2024 20:05	WG2377602
Di-isopropyl ether	U		0.000537	0.00131	1	10/09/2024 20:05	WG2377602
Ethylbenzene	U		0.000966	0.00328	1	10/09/2024 20:05	WG2377602
Hexachloro-1,3-butadiene	U		0.00786	0.0328	1	10/09/2024 20:05	WG2377602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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
Isopropylbenzene	U		0.000557	0.00328	1	10/09/2024 20:05	WG2377602
p-Isopropyltoluene	U		0.00334	0.00655	1	10/09/2024 20:05	WG2377602
2-Butanone (MEK)	U		0.0832	0.131	1	10/09/2024 20:05	WG2377602
Methylene Chloride	U		0.00870	0.0328	1	10/09/2024 20:05	WG2377602
4-Methyl-2-pentanone (MIBK)	U		0.00299	0.0328	1	10/09/2024 20:05	WG2377602
Methyl tert-butyl ether	U		0.000459	0.00131	1	10/09/2024 20:05	WG2377602
Naphthalene	U		0.00639	0.0164	1	10/09/2024 20:05	WG2377602
n-Propylbenzene	U		0.00124	0.00655	1	10/09/2024 20:05	WG2377602
Styrene	U		0.000300	0.0164	1	10/09/2024 20:05	WG2377602
1,1,1,2-Tetrachloroethane	U		0.00124	0.00328	1	10/09/2024 20:05	WG2377602
1,1,2,2-Tetrachloroethane	U		0.000911	0.00328	1	10/09/2024 20:05	WG2377602
1,1,2-Trichlorotrifluoroethane	U		0.000988	0.00328	1	10/09/2024 20:05	WG2377602
Tetrachloroethene	U		0.00117	0.00328	1	10/09/2024 20:05	WG2377602
Toluene	U		0.00170	0.00655	1	10/09/2024 20:05	WG2377602
1,2,3-Trichlorobenzene	U	J4	0.00960	0.0164	1	10/09/2024 20:05	WG2377602
1,2,4-Trichlorobenzene	U	J4	0.00577	0.0164	1	10/09/2024 20:05	WG2377602
1,1,1-Trichloroethane	U		0.00121	0.00328	1	10/09/2024 20:05	WG2377602
1,1,2-Trichloroethane	U		0.000782	0.00328	1	10/09/2024 20:05	WG2377602
Trichloroethene	U		0.000765	0.00131	1	10/09/2024 20:05	WG2377602
Trichlorofluoromethane	U		0.00108	0.00328	1	10/09/2024 20:05	WG2377602
1,2,3-Trichloropropane	U		0.00212	0.0164	1	10/09/2024 20:05	WG2377602
1,2,4-Trimethylbenzene	U		0.00207	0.00655	1	10/09/2024 20:05	WG2377602
1,2,3-Trimethylbenzene	U		0.00207	0.00655	1	10/09/2024 20:05	WG2377602
1,3,5-Trimethylbenzene	U		0.00262	0.00655	1	10/09/2024 20:05	WG2377602
Vinyl chloride	U		0.00152	0.00328	1	10/09/2024 20:05	WG2377602
Xylenes, Total	U		0.00115	0.00852	1	10/09/2024 20:05	WG2377602
(S) Toluene-d8	108			75.0-131		10/09/2024 20:05	WG2377602
(S) 4-Bromofluorobenzene	102			67.0-138		10/09/2024 20:05	WG2377602
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		10/09/2024 20:05	WG2377602

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.53	4.61	1	10/14/2024 15:48	WG2380970
Residual Range Organics (RRO)	U		3.84	11.5	1	10/14/2024 15:48	WG2380970
(S) o-Terphenyl	69.6			18.0-148		10/14/2024 15:48	WG2380970

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		0.0136	0.0392	1	10/10/2024 17:44	WG2377814
PCB 1221	U		0.0136	0.0392	1	10/10/2024 17:44	WG2377814
PCB 1232	U		0.0136	0.0392	1	10/10/2024 17:44	WG2377814
PCB 1242	U		0.0136	0.0392	1	10/10/2024 17:44	WG2377814
PCB 1248	U		0.00851	0.0196	1	10/10/2024 17:44	WG2377814
PCB 1254	U		0.00851	0.0196	1	10/10/2024 17:44	WG2377814
PCB 1260	U		0.00851	0.0196	1	10/10/2024 17:44	WG2377814
(S) Decachlorobiphenyl	77.1			10.0-135		10/10/2024 17:44	WG2377814
(S) Tetrachloro-m-xylene	72.1			10.0-139		10/10/2024 17:44	WG2377814

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00265	0.00692	1	10/12/2024 19:23	WG2379660
Acenaphthene	U		0.00241	0.00692	1	10/12/2024 19:23	WG2379660
Acenaphthylene	U		0.00249	0.00692	1	10/12/2024 19:23	WG2379660
Benzo(a)anthracene	U		0.00199	0.00692	1	10/12/2024 19:23	WG2379660
Benzo(a)pyrene	U		0.00206	0.00692	1	10/12/2024 19:23	WG2379660
Benzo(b)fluoranthene	U		0.00176	0.00692	1	10/12/2024 19:23	WG2379660
Benzo(g,h,i)perylene	U		0.00204	0.00692	1	10/12/2024 19:23	WG2379660
Benzo(k)fluoranthene	U		0.00248	0.00692	1	10/12/2024 19:23	WG2379660
Chrysene	U		0.00267	0.00692	1	10/12/2024 19:23	WG2379660
Dibenz(a,h)anthracene	U		0.00198	0.00692	1	10/12/2024 19:23	WG2379660
Fluoranthene	U		0.00262	0.00692	1	10/12/2024 19:23	WG2379660
Fluorene	U		0.00236	0.00692	1	10/12/2024 19:23	WG2379660
Indeno(1,2,3-cd)pyrene	U		0.00209	0.00692	1	10/12/2024 19:23	WG2379660
Naphthalene	U		0.00470	0.0231	1	10/12/2024 19:23	WG2379660
Phenanthrene	U		0.00266	0.00692	1	10/12/2024 19:23	WG2379660
Pyrene	U		0.00231	0.00692	1	10/12/2024 19:23	WG2379660
1-Methylnaphthalene	U		0.00518	0.0231	1	10/12/2024 19:23	WG2379660
2-Methylnaphthalene	U		0.00492	0.0231	1	10/12/2024 19:23	WG2379660
2-Chloronaphthalene	U		0.00537	0.0231	1	10/12/2024 19:23	WG2379660
(S) p-Terphenyl-d14	124	J1		23.0-120		10/12/2024 19:23	WG2379660
(S) Nitrobenzene-d5	124			14.0-149		10/12/2024 19:23	WG2379660
(S) 2-Fluorobiphenyl	119			34.0-125		10/12/2024 19:23	WG2379660

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4129748-1 10/07/24 16:39

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1783949-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1783949-03 10/07/24 16:39 • (DUP) R4129748-3 10/07/24 16:39

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.4	85.6	1	0.239		10

Laboratory Control Sample (LCS)

(LCS) R4129748-2 10/07/24 16:39

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

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4129747-1 10/07/24 16:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00300			

L1783979-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1783979-04 10/07/24 16:33 • (DUP) R4129747-3 10/07/24 16:33

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	76.0	75.7	1	0.396		10

Laboratory Control Sample (LCS)

(LCS) R4129747-2 10/07/24 16:33

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130636-1 10/09/24 14:48

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

Laboratory Control Sample (LCS)

(LCS) R4130636-2 10/09/24 14:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.528	106	80.0-120	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/09/24 14:53 • (MS) R4130636-4 10/09/24 14:58 • (MSD) R4130636-5 10/09/24 15:01

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.578	U	0.551	0.548	95.3	94.8	1	75.0-125			0.527	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130558-1 10/09/24 14:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4130558-2 10/09/24 14:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	97.4	97.4	80.0-120	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/09/24 14:43 • (MS) R4130558-5 10/09/24 14:48 • (MSD) R4130558-6 10/09/24 14:50

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 %
Lead	116	13.7	139	127	108	97.9	1	75.0-125			9.10	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4130839-3 10/09/24 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	0.00738	U	0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4130839-3 10/09/24 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.00695	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	0.0112	U	0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	99.0			67.0-138
(S) 1,2-Dichloroethane-d4	85.3			70.0-130

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

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	0.625	0.841	0.758	135	121	10.0-160			10.4	31
Acrylonitrile	0.625	0.746	0.746	119	119	45.0-153			0.000	22
Benzene	0.125	0.133	0.138	106	110	70.0-123			3.69	20
Bromobenzene	0.125	0.138	0.144	110	115	73.0-121			4.26	20
Bromodichloromethane	0.125	0.138	0.148	110	118	73.0-121			6.99	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.146	0.147	117	118	64.0-132			0.683	20
Bromomethane	0.125	0.123	0.129	98.4	103	56.0-147			4.76	20
n-Butylbenzene	0.125	0.147	0.151	118	121	68.0-135			2.68	20
sec-Butylbenzene	0.125	0.145	0.153	116	122	74.0-130			5.37	20
tert-Butylbenzene	0.125	0.144	0.149	115	119	75.0-127			3.41	20
Carbon tetrachloride	0.125	0.134	0.144	107	115	66.0-128			7.19	20
Chlorobenzene	0.125	0.137	0.141	110	113	76.0-128			2.88	20
Chlorodibromomethane	0.125	0.147	0.151	118	121	74.0-127			2.68	20
Chloroethane	0.125	0.121	0.117	96.8	93.6	61.0-134			3.36	20
Chloroform	0.125	0.128	0.133	102	106	72.0-123			3.83	20
Chloromethane	0.125	0.119	0.131	95.2	105	51.0-138			9.60	20
2-Chlorotoluene	0.125	0.132	0.143	106	114	75.0-124			8.00	20
4-Chlorotoluene	0.125	0.143	0.153	114	122	75.0-124			6.76	20
1,2-Dibromo-3-Chloropropane	0.125	0.149	0.160	119	128	59.0-130			7.12	20
1,2-Dibromoethane	0.125	0.150	0.154	120	123	74.0-128			2.63	20
Dibromomethane	0.125	0.138	0.145	110	116	75.0-122			4.95	20
1,2-Dichlorobenzene	0.125	0.138	0.145	110	116	76.0-124			4.95	20
1,3-Dichlorobenzene	0.125	0.139	0.144	111	115	76.0-125			3.53	20
1,4-Dichlorobenzene	0.125	0.134	0.144	107	115	77.0-121			7.19	20
Dichlorodifluoromethane	0.125	0.143	0.152	114	122	43.0-156			6.10	20
1,1-Dichloroethane	0.125	0.133	0.140	106	112	70.0-127			5.13	20
1,2-Dichloroethane	0.125	0.127	0.131	102	105	65.0-131			3.10	20
1,1-Dichloroethene	0.125	0.132	0.138	106	110	65.0-131			4.44	20
cis-1,2-Dichloroethene	0.125	0.133	0.142	106	114	73.0-125			6.55	20
trans-1,2-Dichloroethene	0.125	0.135	0.145	108	116	71.0-125			7.14	20
1,2-Dichloropropane	0.125	0.139	0.144	111	115	74.0-125			3.53	20
1,1-Dichloropropene	0.125	0.128	0.135	102	108	73.0-125			5.32	20
1,3-Dichloropropane	0.125	0.140	0.145	112	116	80.0-125			3.51	20
cis-1,3-Dichloropropene	0.125	0.154	0.161	123	129	76.0-127		J4	4.44	20
trans-1,3-Dichloropropene	0.125	0.146	0.154	117	123	73.0-127			5.33	20
2,2-Dichloropropane	0.125	0.127	0.134	102	107	59.0-135			5.36	20
Di-isopropyl ether	0.125	0.140	0.148	112	118	60.0-136			5.56	20
Ethylbenzene	0.125	0.132	0.138	106	110	74.0-126			4.44	20
Hexachloro-1,3-butadiene	0.125	0.165	0.168	132	134	57.0-150			1.80	20
Isopropylbenzene	0.125	0.142	0.152	114	122	72.0-127			6.80	20
p-Isopropyltoluene	0.125	0.135	0.140	108	112	72.0-133			3.64	20
2-Butanone (MEK)	0.625	0.609	0.657	97.4	105	30.0-160			7.58	24
Methylene Chloride	0.125	0.137	0.146	110	117	68.0-123			6.36	20
4-Methyl-2-pentanone (MIBK)	0.625	0.746	0.770	119	123	56.0-143			3.17	20
Methyl tert-butyl ether	0.125	0.139	0.147	111	118	66.0-132			5.59	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4130839-1 10/09/24 11:11 • (LCSD) R4130839-2 10/09/24 11:30

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	0.125	0.143	0.147	114	118	59.0-130			2.76	20
n-Propylbenzene	0.125	0.139	0.144	111	115	74.0-126			3.53	20
Styrene	0.125	0.137	0.147	110	118	72.0-127			7.04	20
1,1,1,2-Tetrachloroethane	0.125	0.140	0.147	112	118	74.0-129			4.88	20
1,1,2,2-Tetrachloroethane	0.125	0.142	0.141	114	113	68.0-128			0.707	20
1,1,2-Trichlorotrifluoroethane	0.125	0.120	0.143	96.0	114	61.0-139			17.5	20
Tetrachloroethene	0.125	0.138	0.145	110	116	70.0-136			4.95	20
Toluene	0.125	0.137	0.145	110	116	75.0-121			5.67	20
1,2,3-Trichlorobenzene	0.125	0.175	0.169	140	135	59.0-139	J4		3.49	20
1,2,4-Trichlorobenzene	0.125	0.172	0.165	138	132	62.0-137	J4		4.15	20
1,1,1-Trichloroethane	0.125	0.130	0.141	104	113	69.0-126			8.12	20
1,1,2-Trichloroethane	0.125	0.137	0.145	110	116	78.0-123			5.67	20
Trichloroethene	0.125	0.138	0.146	110	117	76.0-126			5.63	20
Trichlorofluoromethane	0.125	0.121	0.126	96.8	101	61.0-142			4.05	20
1,2,3-Trichloropropane	0.125	0.146	0.152	117	122	67.0-129			4.03	20
1,2,4-Trimethylbenzene	0.125	0.147	0.158	118	126	70.0-126			7.21	20
1,2,3-Trimethylbenzene	0.125	0.138	0.146	110	117	74.0-124			5.63	20
1,3,5-Trimethylbenzene	0.125	0.139	0.143	111	114	73.0-127			2.84	20
Vinyl chloride	0.125	0.130	0.137	104	110	63.0-134			5.24	20
Xylenes, Total	0.375	0.439	0.469	117	125	72.0-127			6.61	20
(S) Toluene-d8				106	105	75.0-131				
(S) 4-Bromofluorobenzene				104	105	67.0-138				
(S) 1,2-Dichloroethane-d4				95.6	94.8	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4132554-1 10/14/24 11:54

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	72.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4132554-2 10/14/24 12:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Diesel Range Organics (DRO)	50.0	37.4	74.8	50.0-150	
(S) o-Terphenyl			80.6	18.0-148	

L1783979-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783979-04 10/14/24 14:30 • (MS) R4132554-3 10/14/24 14:43 • (MSD) R4132554-4 10/14/24 14:56

	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
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Diesel Range Organics (DRO)	65.1	U	50.1	45.8	77.0	69.9	1	50.0-150			9.05	20
(S) o-Terphenyl					78.9	77.0		18.0-148				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4131221-1 10/10/24 11:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	85.1			10.0-135
(S) Tetrachloro-m-xylene	81.4			10.0-139

Laboratory Control Sample (LCS)

(LCS) R4131221-2 10/10/24 11:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.167	0.103	61.7	36.0-141	
PCB 1260	0.167	0.108	64.7	37.0-145	
(S) Decachlorobiphenyl			85.4	10.0-135	
(S) Tetrachloro-m-xylene			79.7	10.0-139	

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/10/24 12:58 • (MS) R4131221-3 10/10/24 15:11 • (MSD) R4131221-4 10/10/24 15:21

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 %
PCB 1016	0.193	U	0.107	0.117	55.4	60.5	1	10.0-160			8.79	37
PCB 1260	0.193	U	0.101	0.115	52.2	59.6	1	10.0-160			13.3	38
(S) Decachlorobiphenyl					60.4	67.7		10.0-135				
(S) Tetrachloro-m-xylene					65.8	71.0		10.0-139				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4132874-2 10/12/24 12:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	0.00527	U	0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	133	U1		23.0-120
(S) Nitrobenzene-d5	116			14.0-149
(S) 2-Fluorobiphenyl	122			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4132874-1 10/12/24 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0771	96.4	50.0-126	
Acenaphthene	0.0800	0.0692	86.5	50.0-120	
Acenaphthylene	0.0800	0.0754	94.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0739	92.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0675	84.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0738	92.3	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0676	84.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0827	103	49.0-125	
Chrysene	0.0800	0.0818	102	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0612	76.5	47.0-125	
Fluoranthene	0.0800	0.0829	104	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4132874-1 10/12/24 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0762	95.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0632	79.0	46.0-125	
Naphthalene	0.0800	0.0674	84.3	50.0-120	
Phenanthrene	0.0800	0.0757	94.6	47.0-120	
Pyrene	0.0800	0.0744	93.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0708	88.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0670	83.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0743	92.9	50.0-120	
(S) p-Terphenyl-d14			137	23.0-120	J1
(S) Nitrobenzene-d5			134	14.0-149	
(S) 2-Fluorobiphenyl			134	34.0-125	J1

L1783949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1783949-01 10/12/24 14:41 • (MS) R4132874-3 10/12/24 14:58 • (MSD) R4132874-4 10/12/24 15:16

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 %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0916	U	0.0928	0.0881	101	95.7	1	10.0-145			5.12	30
Acenaphthene	0.0916	U	0.0709	0.0704	77.4	76.5	1	14.0-127			0.655	27
Acenaphthylene	0.0916	U	0.0848	0.0847	92.6	92.0	1	21.0-124			0.137	25
Benzo(a)anthracene	0.0916	U	0.0898	0.0872	98.0	94.7	1	10.0-139			2.88	30
Benzo(a)pyrene	0.0916	U	0.0765	0.0779	83.5	84.5	1	10.0-141			1.80	31
Benzo(b)fluoranthene	0.0916	U	0.0670	0.0679	73.1	73.7	1	10.0-140			1.37	36
Benzo(g,h,i)perylene	0.0916	U	0.0648	0.0658	70.7	71.5	1	10.0-140			1.59	33
Benzo(k)fluoranthene	0.0916	U	0.0706	0.0714	77.0	77.5	1	10.0-137			1.14	31
Chrysene	0.0916	U	0.0829	0.0840	90.5	91.2	1	10.0-145			1.25	30
Dibenz(a,h)anthracene	0.0916	U	0.0641	0.0644	69.9	70.0	1	10.0-132			0.540	31
Fluoranthene	0.0916	U	0.0932	0.0909	102	98.7	1	10.0-153			2.51	33
Fluorene	0.0916	U	0.0819	0.0826	89.4	89.7	1	11.0-130			0.844	29
Indeno(1,2,3-cd)pyrene	0.0916	U	0.0663	0.0686	72.3	74.5	1	10.0-137			3.43	32
Naphthalene	0.0916	U	0.0673	0.0664	73.5	72.1	1	10.0-135			1.38	27
Phenanthrene	0.0916	U	0.0767	0.0754	83.7	81.9	1	10.0-144			1.67	31
Pyrene	0.0916	U	0.0704	0.0703	76.9	76.4	1	10.0-148			0.164	35
1-Methylnaphthalene	0.0916	U	0.0733	0.0718	80.1	78.0	1	10.0-142			2.07	28
2-Methylnaphthalene	0.0916	U	0.0692	0.0688	75.5	74.7	1	10.0-137			0.503	28
2-Chloronaphthalene	0.0916	U	0.0753	0.0747	82.2	81.2	1	29.0-120			0.771	24
(S) p-Terphenyl-d14					113	111		23.0-120				
(S) Nitrobenzene-d5					127	143		14.0-149				
(S) 2-Fluorobiphenyl					114	116		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

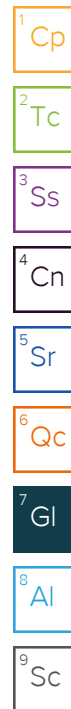
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

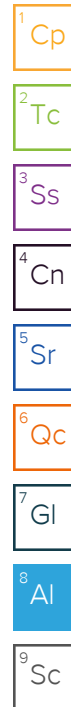
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



APPENDIX D

RECORD OF IMPACTED SOIL DISPOSAL



LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

WASHOUGAL, WA 98671

Balance Forward:

08/13/2024	22695	WC-24-213	SWA FEE		1.00	SWA APPLICATION
08/15/2024	527416	WC-24-213		TAYLOR 7979	32.16	OTHER SOILS
08/15/2024	527417	WC-24-213		TAYLOR 8344	24.31	OTHER SOILS
08/15/2024	527421	WC-24-213		DIETRICH 8402	33.88	OTHER SOILS
08/15/2024	527423	WC-24-213		DIETRICH 8414	27.79	OTHER SOILS
08/15/2024	527425	WC-24-213		TAYLOR 7977	23.65	OTHER SOILS
08/15/2024	527432	WC-24-213		DIETRICH 8411	27.89	OTHER SOILS
08/15/2024	527437	WC-24-213		DIETRICH 8401	27.14	OTHER SOILS
08/15/2024	527441	WC-24-213		TAYLOR 2145	30.27	OTHER SOILS
08/15/2024	527444	WC-24-213		TAYLOR 4090	33.59	OTHER SOILS
08/15/2024	527481	WC-24-213		DIETRICH 8415	32.73	OTHER SOILS
08/15/2024	527521	WC-24-213		DIETRICH 8414	30.28	OTHER SOILS
08/15/2024	527523	WC-24-213		DIETRICH 8402	28.90	OTHER SOILS
08/15/2024	527525	WC-24-213		TAYLOR 7977	23.97	OTHER SOILS
08/15/2024	527530	WC-24-213		TAYLOR 8344	29.74	OTHER SOILS
08/15/2024	527539	WC-24-213		TAYLOR 7979	31.66	OTHER SOILS
08/15/2024	527542	WC-24-213		TAYLOR 2145	31.86	OTHER SOILS
08/15/2024	527546	WC-24-213		TAYLOR 4090	25.36	OTHER SOILS

Total Units: 496.18



REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
08/24/2024	2042-395
Invoice Number	INVOICE TOTAL
25055B042	
AMOUNT DUE	PAYMENT DUE
	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
08/22/2024	22805					1.00	PAYMENT - THANK	
Balance Forward:								
08/16/2024	527595	WC-24-213			DIETRICH 8401	37.62	OTHER SOILS	
08/16/2024	527624	WC-24-213			DIETRICH 8411	26.71	OTHER SOILS	
08/16/2024	527640	WC-24-213			TAYLOR 8344	28.66	OTHER SOILS	
08/16/2024	527643	WC-24-213			TAYLOR 7977	31.05	OTHER SOILS	
08/16/2024	527649	WC-24-213			DIETRICH 8402	31.29	OTHER SOILS	
08/16/2024	527650	WC-24-213			DIETRICH 8408	29.08	OTHER SOILS	
08/16/2024	527651	WC-24-213			TAYLOR 7979	33.26	OTHER SOILS	
08/16/2024	527655	WC-24-213			DIETRICH 8412	30.66	OTHER SOILS	
08/16/2024	527656	WC-24-213			DIETRICH 8414	31.02	OTHER SOILS	
08/16/2024	527657	WC-24-213			TAYLOR 2145	32.84	OTHER SOILS	
08/16/2024	527668	WC-24-213			TAYLOR 3734	42.86	OTHER SOILS	
08/16/2024	527706	WC-24-213			DIETRICH 8407	30.79	OTHER SOILS	
08/16/2024	527713	WC-24-213			DIETRICH 8401	32.62	OTHER SOILS	
08/16/2024	527727	WC-24-213			TAYLOR 7979	31.37	OTHER SOILS	
08/16/2024	527728	WC-24-213			DIETRICH 8411	29.46	OTHER SOILS	
08/16/2024	527729	WC-24-213			TAYLOR 7977	36.10	OTHER SOILS	
08/16/2024	527737	WC-24-213			DIETRICH 8402	32.55	OTHER SOILS	
08/16/2024	527743	WC-24-213			DIETRICH 8408	31.83	OTHER SOILS	
08/16/2024	527744	WC-24-213			TAYLOR 2145	30.23	OTHER SOILS	
08/19/2024	527814	WC-24-213			TAYLOR 2149	33.22	OTHER SOILS	
08/19/2024	527815	WC-24-213			DIETRICH 8407	31.49	OTHER SOILS	
08/19/2024	527816	WC-24-213			DIETRICH 8409	37.56	OTHER SOILS	
08/19/2024	527820	WC-24-213			NEW LIFE TRUCKI	22.13	OTHER SOILS	
08/19/2024	527824	WC-24-213			DIETRICH 8415	30.40	OTHER SOILS	
08/19/2024	527831	WC-24-213			TAYLOR 2148	36.79	OTHER SOILS	
08/19/2024	527832	WC-24-213			TAYLOR 2919	29.16	OTHER SOILS	
08/19/2024	527833	WC-24-213			TAYLOR 7979	32.29	OTHER SOILS	
08/19/2024	527834	WC-24-213			TAYLOR 8247	29.94	OTHER SOILS	
08/19/2024	527835	WC-24-213			TAYLOR 7977	37.62	OTHER SOILS	
08/19/2024	527837	WC-24-213			DIETRICH 8408	33.44	OTHER SOILS	
08/19/2024	527839	WC-24-213			TAYLOR 8248	24.66	OTHER SOILS	

08/19/2024	527842	WC-24-213	TAYLOR 2145	31.78	OTHER SOILS
08/19/2024	527933	WC-24-213	DIETRICH 8407	30.91	OTHER SOILS
08/19/2024	527937	WC-24-213	DIETRICH 8409	31.72	OTHER SOILS
08/19/2024	527938	WC-24-213	DIETRICH 8412	31.69	OTHER SOILS
08/19/2024	527942	WC-24-213	TAYLOR 2148	26.31	OTHER SOILS
08/19/2024	527943	WC-24-213	TAYLOR 7979	32.03	OTHER SOILS
08/19/2024	527944	WC-24-213	DIETRICH 8415	31.25	OTHER SOILS
08/19/2024	527949	WC-24-213	TAYLOR 2145	29.26	OTHER SOILS
08/19/2024	527950	WC-24-213	TAYLOR 8248	23.93	OTHER SOILS
08/19/2024	527952	WC-24-213	TAYLOR 2919	30.55	OTHER SOILS
08/19/2024	527958	WC-24-213	TAYLOR 8247	33.57	OTHER SOILS
08/19/2024	527959	WC-24-213	TAYLOR 7977	30.51	OTHER SOILS
08/20/2024	528051	WC-24-213	TAYLOR 7979	32.11	OTHER SOILS
08/20/2024	528054	WC-24-213	TAYLOR 7977	35.31	OTHER SOILS
08/20/2024	528059	WC-24-213	TAYLOR 2148	31.14	OTHER SOILS
08/20/2024	528060	WC-24-213	TAYLOR 8344	29.29	OTHER SOILS
08/20/2024	528062	WC-24-213	TAYLOR 2149	30.61	OTHER SOILS
08/20/2024	528064	WC-24-213	DIETRICH 8409	30.61	OTHER SOILS
08/20/2024	528065	WC-24-213	DIETRICH 8406	32.47	OTHER SOILS
08/20/2024	528066	WC-24-213	DIETRICH 8412	33.35	OTHER SOILS
08/20/2024	528072	WC-24-213	DIETRICH 8408	29.18	OTHER SOILS
08/20/2024	528074	WC-24-213	TAYLOR 7978	31.95	OTHER SOILS
08/20/2024	528076	WC-24-213	TAYLOR 0488	32.02	OTHER SOILS
08/20/2024	528163	WC-24-213	TAYLOR 7979	31.35	OTHER SOILS
08/20/2024	528164	WC-24-213	TAYLOR 7977	31.09	OTHER SOILS
08/20/2024	528166	WC-24-213	TAYLOR 2149	31.15	OTHER SOILS
08/20/2024	528172	WC-24-213	DIETRICH 8410	27.94	OTHER SOILS
08/20/2024	528174	WC-24-213	DIETRICH 8409	31.52	OTHER SOILS
08/20/2024	528175	WC-24-213	DIETRICH 8406	30.92	OTHER SOILS
08/20/2024	528178	WC-24-213	DIETRICH 8408	31.50	OTHER SOILS
08/20/2024	528186	WC-24-213	TAYLOR 2148	25.44	OTHER SOILS
08/20/2024	528187	WC-24-213	DIETRICH 8412	31.32	OTHER SOILS
08/20/2024	528188	WC-24-213	TAYLOR 8344	31.68	OTHER SOILS
08/20/2024	528189	WC-24-213	TAYLOR 7978	32.90	OTHER SOILS
08/20/2024	528190	WC-24-213	TAYLOR 0488	29.15	OTHER SOILS
08/21/2024	528263	WC-24-213	TAYLOR 2149	28.16	OTHER SOILS
08/21/2024	528265	WC-24-213	DIETRICH 8408	29.86	OTHER SOILS
08/21/2024	528266	WC-24-213	DIETRICH 8409	32.51	OTHER SOILS
08/21/2024	528268	WC-24-213	DIETRICH 8406	31.49	OTHER SOILS
08/21/2024	528273	WC-24-213	DIETRICH 8407	31.35	OTHER SOILS
08/21/2024	528276	WC-24-213	DIETRICH 8412	26.80	OTHER SOILS
08/21/2024	528279	WC-24-213	TAYLOR 2148	28.23	OTHER SOILS
08/21/2024	528280	WC-24-213	TAYLOR 8344	27.85	OTHER SOILS
08/21/2024	528283	WC-24-213	TAYLOR 7979	32.54	OTHER SOILS
08/21/2024	528291	WC-24-213	TAYLOR 2145	28.31	OTHER SOILS
08/21/2024	528367	WC-24-213	TAYLOR 2149	30.85	OTHER SOILS
08/21/2024	528378	WC-24-213	DIETRICH 8406	31.46	OTHER SOILS
08/21/2024	528379	WC-24-213	DIETRICH 8409	31.36	OTHER SOILS
08/21/2024	528380	WC-24-213	DIETRICH 8412	31.32	OTHER SOILS
08/21/2024	528381	WC-24-213	DIETRICH 8407	30.08	OTHER SOILS
08/21/2024	528386	WC-24-213	TAYLOR 7979	32.88	OTHER SOILS
08/21/2024	528389	WC-24-213	DIETRICH 8408	31.03	OTHER SOILS
08/21/2024	528401	WC-24-213	TAYLOR 2148	30.99	OTHER SOILS
08/22/2024	528474	WC-24-213	DIETRICH 8409	30.61	OTHER SOILS
08/22/2024	528476	WC-24-213	DIETRICH 8417	29.07	OTHER SOILS
08/22/2024	528479	WC-24-213	DIETRICH 8407	32.32	OTHER SOILS
08/22/2024	528482	WC-24-213	TAYLOR 0488	30.70	OTHER SOILS
08/22/2024	528483	WC-24-213	TAYLOR 7979	31.23	OTHER SOILS

08/22/2024	528489	WC-24-213	DIETRICH 8412	32.27	OTHER SOILS
08/22/2024	528490	WC-24-213	TAYLOR 2148	31.23	OTHER SOILS
08/22/2024	528494	WC-24-213	TAYLOR 8344	31.41	OTHER SOILS
08/22/2024	528495	WC-24-213	TAYLOR 6811	30.67	OTHER SOILS
08/22/2024	528497	WC-24-213	TAYLOR 2149	34.92	OTHER SOILS
08/22/2024	528498	WC-24-213	TAYLOR 6808	31.15	OTHER SOILS
08/22/2024	528503	WC-24-213	TAYLOR 4090	32.00	OTHER SOILS
08/22/2024	528505	WC-24-213	TAYLOR 2145	29.38	OTHER SOILS
08/22/2024	528584	WC-24-213	DIETRICH 8412	29.88	OTHER SOILS
08/22/2024	528587	WC-24-213	DIETRICH 8417	27.73	OTHER SOILS
08/22/2024	528589	WC-24-213	DIETRICH 8409	36.08	OTHER SOILS
08/22/2024	528591	WC-24-213	DIETRICH 8407	28.29	OTHER SOILS
08/22/2024	528594	WC-24-213	TAYLOR 7979	31.97	OTHER SOILS
08/22/2024	528598	WC-24-213	TAYLOR 6811	30.69	OTHER SOILS
08/22/2024	528602	WC-24-213	TAYLOR 2148	27.45	OTHER SOILS
08/22/2024	528603	WC-24-213	TAYLOR 8344	24.63	OTHER SOILS
08/22/2024	528608	WC-24-213	TAYLOR 2145	30.21	OTHER SOILS
08/22/2024	528610	WC-24-213	TAYLOR 4090	29.81	OTHER SOILS
08/23/2024	528633	WC-24-213	TAYLOR 0488	33.43	OTHER SOILS

Total Units: 3350.41





REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
08/31/2024	2042-395
Invoice Number	INVOICE TOTAL
25155B042	
AMOUNT DUE	PAYMENT DUE
	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
08/22/2024	22805					1.00	PAYMENT - THANK	
Balance Forward:								
08/26/2024	528843	WC-24-213			DIETRICH 8409	32.42	OTHER SOILS	
08/26/2024	528844	WC-24-213			DIETRICH 8406	30.93	OTHER SOILS	
08/26/2024	528846	WC-24-213			DIETRICH 8412	30.21	OTHER SOILS	
08/26/2024	528848	WC-24-213			TAYLOR 2149	34.40	OTHER SOILS	
08/26/2024	528849	WC-24-213			DIETRICH 8407	29.54	OTHER SOILS	
08/26/2024	528854	WC-24-213			TAYLOR 2148	35.18	OTHER SOILS	
08/26/2024	528857	WC-24-213			TAYLOR 6188	29.37	OTHER SOILS	
08/26/2024	528860	WC-24-213			TAYLOR 2918	31.19	OTHER SOILS	
08/26/2024	528863	WC-24-213			TAYLOR 7979	34.67	OTHER SOILS	
08/26/2024	528932	WC-24-213			DIETRICH 8410	29.68	OTHER SOILS	
08/26/2024	528955	WC-24-213			TAYLOR 4090	30.15	OTHER SOILS	
08/26/2024	528960	WC-24-213			DIETRICH 8409	30.53	OTHER SOILS	
08/26/2024	528963	WC-24-213			DIETRICH 8406	31.91	OTHER SOILS	
08/26/2024	528965	WC-24-213			TAYLOR 2149	34.45	OTHER SOILS	
08/26/2024	528970	WC-24-213			DIETRICH 8412	30.12	OTHER SOILS	
08/26/2024	528973	WC-24-213			TAYLOR 2148	32.31	OTHER SOILS	
08/26/2024	528974	WC-24-213			TAYLOR 2918	28.26	OTHER SOILS	
08/26/2024	528984	WC-24-213			TAYLOR 7979	31.49	OTHER SOILS	
08/27/2024	528996	WC-24-213			DIRT HUGGER 510	33.04	OTHER SOILS	
08/27/2024	529015	WC-24-213			DIETRICH 8407	30.11	OTHER SOILS	
08/27/2024	529022	WC-395		480236	TAYLOR 6186/480	11.94	OTHER SPECIAL WA	
08/27/2024	529061	WC-24-213			DIETRICH 8409	31.77	OTHER SOILS	
08/27/2024	529062	WC-24-213			DIETRICH 8406	31.20	OTHER SOILS	
08/27/2024	529070	WC-24-213			TAYLOR 7979	31.64	OTHER SOILS	
08/27/2024	529078	WC-24-213			TAYLOR 2148	30.84	OTHER SOILS	
08/27/2024	529080	WC-24-213			TAYLOR 6188	27.95	OTHER SOILS	
08/27/2024	529081	WC-24-213			TAYLOR 6185	26.32	OTHER SOILS	
08/27/2024	529088	WC-24-213			TAYLOR 2145	32.99	OTHER SOILS	
08/27/2024	529089	WC-24-213			TAYLOR 7978	30.09	OTHER SOILS	
08/27/2024	529120	WC-24-213			DIRT HUGGER 510	30.16	OTHER SOILS	
08/27/2024	529141	WC-24-213			DIETRICH 8407	30.46	OTHER SOILS	

08/27/2024	529162	WC-24-213			TAYLOR 2206	29.21	OTHER SOILS
08/27/2024	529172	WC-395	456268	480193	TAYLOR 5264/480	18.53	OTHER SPECIAL WA
08/27/2024	529184	WC-24-213			DIETRICH 8409	31.90	OTHER SOILS
08/27/2024	529186	WC-24-213			DIETRICH 8406	31.26	OTHER SOILS
08/27/2024	529188	WC-24-213			TAYLOR 7979	32.63	OTHER SOILS
08/27/2024	529190	WC-24-213			TAYLOR 2148	29.61	OTHER SOILS
08/27/2024	529201	WC-24-213			TAYLOR 2145	30.16	OTHER SOILS
08/27/2024	529202	WC-24-213			TAYLOR 6188	22.09	OTHER SOILS
08/27/2024	529204	WC-24-213			TAYLOR 7978	32.38	OTHER SOILS
08/27/2024	529205	WC-24-213			TAYLOR 6185	21.58	OTHER SOILS
08/28/2024	529220	WC-24-213			DIRT HUGGER 510	24.81	OTHER SOILS
08/28/2024	529243	WC-24-213			DIETRICH 8407	30.59	OTHER SOILS
08/28/2024	529287	WC-24-213			DIETRICH 8409	32.12	OTHER SOILS
08/28/2024	529288	WC-24-213			TAYLOR 2149	29.09	OTHER SOILS
08/28/2024	529290	WC-24-213			DIETRICH 8406	29.45	OTHER SOILS
08/28/2024	529291	WC-24-213			DIETRICH 8417	25.82	OTHER SOILS
08/28/2024	529295	WC-24-213			TAYLOR 2207	27.02	OTHER SOILS
08/28/2024	529298	WC-24-213			DIETRICH 8412	26.97	OTHER SOILS
08/28/2024	529299	WC-24-213			TAYLOR 8345	27.85	OTHER SOILS
08/28/2024	529308	WC-24-213			TAYLOR 2145	33.91	OTHER SOILS
08/28/2024	529312	WC-24-213			TAYLOR 6188	29.95	OTHER SOILS
08/28/2024	529313	WC-24-213			TAYLOR 6185	30.79	OTHER SOILS
08/28/2024	529328	WC-24-213			DIETRICH 8544	31.96	OTHER SOILS
08/28/2024	529338	WC-24-213			DIRT HUGGER 510	34.45	OTHER SOILS
08/28/2024	529356	WC-24-213			DIETRICH 8407	30.02	OTHER SOILS
08/28/2024	529412	WC-24-213			DIETRICH 8417	28.71	OTHER SOILS
08/28/2024	529413	WC-24-213			DIETRICH 8409	32.73	OTHER SOILS
08/28/2024	529414	WC-24-213			DIETRICH 8406	33.39	OTHER SOILS
08/28/2024	529419	WC-24-213			TAYLOR 2149	30.79	OTHER SOILS
08/28/2024	529420	WC-24-213			TAYLOR 2207	32.23	OTHER SOILS
08/28/2024	529421	WC-24-213			TAYLOR 8345	31.99	OTHER SOILS
08/28/2024	529423	WC-24-213			DIETRICH 8412	29.48	OTHER SOILS
08/28/2024	529429	WC-24-213			TAYLOR 2145	30.95	OTHER SOILS
08/29/2024	529442	WC-24-213			DIETRICH 8544	31.86	OTHER SOILS
08/29/2024	529447	WC-24-213			DIRT HUGGER 510	34.84	OTHER SOILS
08/29/2024	529506	WC-24-213			TAYLOR 2149	30.96	OTHER SOILS
08/29/2024	529508	WC-24-213			DIETRICH 8414	29.53	OTHER SOILS
08/29/2024	529513	WC-24-213			DIETRICH 8412	30.55	OTHER SOILS
08/29/2024	529516	WC-24-213			DIETRICH 8406	29.77	OTHER SOILS
08/29/2024	529527	WC-24-213			TAYLOR 2207	32.72	OTHER SOILS
08/29/2024	529529	WC-24-213			TAYLOR 6188	32.62	OTHER SOILS
08/29/2024	529530	WC-24-213			TAYLOR 6185	32.33	OTHER SOILS
08/29/2024	529534	WC-24-213			TAYLOR 2145	32.99	OTHER SOILS
08/29/2024	529572	WC-24-213			DIETRICH 8544	33.31	OTHER SOILS
08/29/2024	529621	WC-24-213			TAYLOR 2149	32.30	OTHER SOILS
08/29/2024	529627	WC-24-213			DIETRICH 8414	30.43	OTHER SOILS
08/29/2024	529636	WC-24-213			DIETRICH 8412	29.19	OTHER SOILS
08/29/2024	529638	WC-24-213			TAYLOR 2207	28.64	OTHER SOILS
08/29/2024	529640	WC-24-213			DIETRICH 8406	32.08	OTHER SOILS
08/29/2024	529646	WC-24-213			TAYLOR 6185	31.78	OTHER SOILS
08/29/2024	529651	WC-24-213			TAYLOR 2145	31.84	OTHER SOILS

Total Units: 2487.48



REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
09/06/2024	2042-395
Invoice Number	INVOICE TOTAL
25180B042	
AMOUNT DUE	PAYMENT DUE
	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
08/22/2024	22805					1.00	PAYMENT - THANK	
Balance Forward:								
09/03/2024	530013	WC-24-213			DIETRICH 8544	31.73	OTHER SOILS	
09/03/2024	530023	WC-24-213			DIETRICH 8412	29.35	OTHER SOILS	
09/03/2024	530026	WC-24-213			TAYLOR 2920	26.66	OTHER SOILS	
09/03/2024	530031	WC-24-213			DIETRICH 8407	29.96	OTHER SOILS	
09/03/2024	530032	WC-24-213			DIETRICH 8405	28.98	OTHER SOILS	
09/03/2024	530034	WC-24-213			DIETRICH 8415	31.44	OTHER SOILS	
09/03/2024	530037	WC-24-213			TAYLOR 2207	36.09	OTHER SOILS	
09/03/2024	530040	WC-24-213			TAYLOR 7979	31.66	OTHER SOILS	
09/03/2024	530041	WC-24-213			TAYLOR 2206	32.85	OTHER SOILS	
09/03/2024	530083	WC-24-213			DIRT HUGGER 510	35.70	OTHER SOILS	
09/03/2024	530085	WC-24-213			TAYLOR 2147	28.73	OTHER SOILS	
09/03/2024	530125	WC-24-213			DIETRICH 8544	32.70	OTHER SOILS	
09/03/2024	530127	WC-24-213			DIETRICH 8412	30.32	OTHER SOILS	
09/03/2024	530129	WC-24-213			DIETRICH 8407	32.38	OTHER SOILS	
09/03/2024	530130	WC-24-213			TAYLOR 2207	32.54	OTHER SOILS	
09/03/2024	530137	WC-24-213			TAYLOR 7979	32.05	OTHER SOILS	
09/03/2024	530139	WC-24-213			TAYLOR 2206	32.30	OTHER SOILS	
09/03/2024	530144	WC-24-213			DIETRICH 8405	30.03	OTHER SOILS	
09/03/2024	530147	WC-24-213			DIETRICH 8415	30.55	OTHER SOILS	
09/04/2024	530218	WC-24-213			DIETRICH 8409	32.13	OTHER SOILS	
09/04/2024	530219	WC-24-213			DIETRICH 8407	30.17	OTHER SOILS	
09/04/2024	530220	WC-24-213			TAYLOR 6811	32.90	OTHER SOILS	
09/04/2024	530222	WC-24-213			DIETRICH 8412	30.12	OTHER SOILS	
09/04/2024	530226	WC-24-213			DIETRICH 8415	30.23	OTHER SOILS	
09/04/2024	530229	WC-24-213			TAYLOR 2207	31.98	OTHER SOILS	
09/04/2024	530233	WC-24-213			DIRT HUGGER 510	31.73	OTHER SOILS	
09/04/2024	530234	WC-24-213			TAYLOR 2206	30.48	OTHER SOILS	
09/04/2024	530235	WC-24-213			TAYLOR 7979	31.86	OTHER SOILS	
09/04/2024	530244	WC-24-213			TAYLOR 2149	29.84	OTHER SOILS	
09/04/2024	530248	WC-24-213			TAYLOR 2920	26.76	OTHER SOILS	
09/04/2024	530324	WC-24-213			DIETRICH 8402	35.74	OTHER SOILS	



REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
09/13/2024	2042-395
Invoice Number	INVOICE TOTAL
25202B042	
AMOUNT DUE	PAYMENT DUE
	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
08/22/2024	22805					1.00	PAYMENT - THANK	
09/13/2024	23098					1.00	PAYMENT - THANK	
Balance Forward:								
09/09/2024	530814	WC-24-213			DIETRICH 8407	31.20	OTHER SOILS	
09/09/2024	530815	WC-24-213			DIETRICH 8409	31.84	OTHER SOILS	
09/09/2024	530830	WC-24-213			DIETRICH 8413	32.02	OTHER SOILS	
09/09/2024	530834	WC-24-213			DIETRICH 8404	29.22	OTHER SOILS	
09/09/2024	530835	WC-24-213			DIETRICH 8405	30.53	OTHER SOILS	
09/09/2024	530837	WC-24-213			TAYLOR 8345	30.06	OTHER SOILS	
09/09/2024	530840	WC-24-213			TAYLOR 2149	32.52	OTHER SOILS	
09/09/2024	530845	WC-24-213			DIRT HUGGER 510	33.39	OTHER SOILS	
09/09/2024	530899	WC-24-213			TAYLOR 7977	25.70	OTHER SOILS	
09/09/2024	530905	WC-24-213			TAYLOR 2152	31.18	OTHER SOILS	
09/09/2024	530929	WC-24-213			DIETRICH 8407	30.64	OTHER SOILS	
09/09/2024	530941	WC-24-213			DIETRICH 8404	33.37	OTHER SOILS	
09/09/2024	530943	WC-24-213			DIETRICH 8409	30.90	OTHER SOILS	
09/09/2024	530944	WC-24-213			DIETRICH 8405	28.25	OTHER SOILS	
09/09/2024	530950	WC-24-213			DIETRICH 8413	32.86	OTHER SOILS	
09/09/2024	530953	WC-24-213			TAYLOR 8345	33.11	OTHER SOILS	
09/09/2024	530956	WC-24-213			TAYLOR 2149	32.58	OTHER SOILS	
09/09/2024	530962	WC-24-213			DIRT HUGGER 510	31.48	OTHER SOILS	
09/10/2024	531040	WC-24-213			DIETRICH 8409	32.06	OTHER SOILS	
09/10/2024	531041	WC-24-213			DIETRICH 8407	31.19	OTHER SOILS	
09/10/2024	531045	WC-24-213			DIETRICH 8408	30.80	OTHER SOILS	
09/10/2024	531046	WC-24-213			TAYLOR 2149	33.58	OTHER SOILS	
09/10/2024	531050	WC-24-213			DIETRICH 8413	29.76	OTHER SOILS	
09/10/2024	531054	WC-24-213			TAYLOR 7977	36.32	OTHER SOILS	
09/10/2024	531057	WC-24-213			DIRT HUGGER 510	29.33	OTHER SOILS	
09/10/2024	531074	WC-24-213			TAYLOR 3732	33.50	OTHER SOILS	
09/10/2024	531076	WC-24-213			TAYLOR 8345	32.44	OTHER SOILS	
09/10/2024	531166	WC-24-213			DIETRICH 8409	32.23	OTHER SOILS	
09/10/2024	531169	WC-24-213			DIETRICH 8407	29.65	OTHER SOILS	
09/10/2024	531174	WC-24-213			DIETRICH 8413	31.38	OTHER SOILS	

09/10/2024	531175	WC-24-213	TAYLOR 2149	35.56	OTHER SOILS
09/10/2024	531176	WC-24-213	DIETRICH 8408	30.04	OTHER SOILS
09/10/2024	531184	WC-24-213	TAYLOR 7977	31.28	OTHER SOILS
09/10/2024	531192	WC-24-213	TAYLOR 8345	29.56	OTHER SOILS
09/10/2024	531193	WC-24-213	TAYLOR 3732	32.58	OTHER SOILS
09/11/2024	531263	WC-24-213	DIETRICH 8407	30.94	OTHER SOILS
09/11/2024	531267	WC-24-213	TAYLOR 2149	29.65	OTHER SOILS
09/11/2024	531271	WC-24-213	DIETRICH 8413	31.32	OTHER SOILS
09/11/2024	531275	WC-24-213	DIETRICH 8414	30.94	OTHER SOILS
09/11/2024	531276	WC-24-213	TAYLOR 7977	29.91	OTHER SOILS
09/11/2024	531278	WC-24-213	TAYLOR 8345	31.71	OTHER SOILS
09/11/2024	531291	WC-24-213	TAYLOR 3732	31.92	OTHER SOILS
09/11/2024	531298	WC-24-213	DIETRICH 8409	31.66	OTHER SOILS
09/11/2024	531310	WC-24-213	TAYLOR 7979	36.12	OTHER SOILS
09/11/2024	531363	WC-24-213	DIETRICH 8411	26.17	OTHER SOILS
09/11/2024	531371	WC-24-213	TAYLOR 2149	30.06	OTHER SOILS
09/11/2024	531372	WC-24-213	DIRT HUGGER 510	32.58	OTHER SOILS
09/11/2024	531373	WC-24-213	DIETRICH 8407	30.14	OTHER SOILS
09/11/2024	531381	WC-24-213	TAYLOR 8345	30.39	OTHER SOILS
09/11/2024	531382	WC-24-213	DIETRICH 8414	29.88	OTHER SOILS
09/11/2024	531384	WC-24-213	DIETRICH 8413	29.64	OTHER SOILS
09/11/2024	531392	WC-24-213	TAYLOR 7977	31.76	OTHER SOILS
09/12/2024	531445	WC-24-213	TAYLOR 7979	38.51	OTHER SOILS
09/12/2024	531459	WC-24-213	DIETRICH 8409	32.09	OTHER SOILS
09/12/2024	531475	WC-24-213	DIETRICH 8407	30.79	OTHER SOILS
09/12/2024	531481	WC-24-213	DIETRICH 8413	31.26	OTHER SOILS
09/12/2024	531485	WC-24-213	TAYLOR 2149	33.23	OTHER SOILS
09/12/2024	531488	WC-24-213	TAYLOR 8345	31.13	OTHER SOILS
09/12/2024	531496	WC-24-213	TAYLOR 7977	34.80	OTHER SOILS
09/12/2024	531503	WC-24-213	DIRT HUGGER 510	33.97	OTHER SOILS
09/12/2024	531575	WC-24-213	DIETRICH 8408	31.84	OTHER SOILS
09/12/2024	531581	WC-24-213	DIETRICH 8409	33.69	OTHER SOILS
09/12/2024	531583	WC-24-213	TAYLOR 7979	31.99	OTHER SOILS
09/12/2024	531584	WC-24-213	DIETRICH 8407	29.99	OTHER SOILS
09/12/2024	531598	WC-24-213	TAYLOR 2149	30.70	OTHER SOILS
09/12/2024	531601	WC-24-213	TAYLOR 8345	29.35	OTHER SOILS
09/12/2024	531613	WC-24-213	DIETRICH 8413	28.89	OTHER SOILS
09/12/2024	531619	WC-24-213	TAYLOR 7977	27.37	OTHER SOILS
09/13/2024	531696	WC-24-213	DIRT HUGGER 510	34.20	OTHER SOILS
09/13/2024	531800	WC-24-213	DIRT HUGGER 510	33.52	OTHER SOILS

Total Units: 2204.22



REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
09/20/2024	2042-395
Invoice Number	INVOICE TOTAL
25289B042	\$46,827.40
AMOUNT DUE	PAYMENT DUE
\$187,017.24	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
08/22/2024	22805					1.00	PAYMENT - THANK	-9953.60
09/13/2024	23098					1.00	PAYMENT - THANK	-67008.20
Balance Forward:								\$140,189.84
09/16/2024	531879	WC-24-213			DIETRICH 8409	31.53	OTHER SOILS	630.60
09/16/2024	531880	WC-24-213			DIETRICH 8407	30.52	OTHER SOILS	610.40
09/16/2024	531894	WC-24-213			DIETRICH 8408	31.16	OTHER SOILS	623.20
09/16/2024	531895	WC-24-213			DIETRICH 8402	26.02	OTHER SOILS	520.40
09/16/2024	531898	WC-24-213			TAYLOR 2918	27.49	OTHER SOILS	549.80
09/16/2024	531900	WC-24-213			TAYLOR 2153	33.79	OTHER SOILS	675.80
09/16/2024	531901	WC-24-213			TAYLOR 2151	32.22	OTHER SOILS	644.40
09/16/2024	531905	WC-24-213			TAYLOR 7980	30.54	OTHER SOILS	610.80
09/16/2024	532027	WC-24-213			DIETRICH 8409	32.17	OTHER SOILS	643.40
09/16/2024	532028	WC-24-213			DIETRICH 8407	30.40	OTHER SOILS	608.00
09/16/2024	532040	WC-24-213			TAYLOR 2153	29.11	OTHER SOILS	582.20
09/16/2024	532042	WC-24-213			TAYLOR 2151	32.81	OTHER SOILS	656.20
09/16/2024	532044	WC-24-213			DIETRICH 8408	30.76	OTHER SOILS	615.20
09/16/2024	532051	WC-24-213			TAYLOR 7980	30.19	OTHER SOILS	603.80
09/17/2024	23170	WC-24-213			DIETRICH 8405	30.30	OTHER SOILS	606.00
09/17/2024	532127	WC-24-213			DIETRICH 8409	32.59	OTHER SOILS	651.80
09/17/2024	532131	WC-24-213			DIETRICH 8407	31.55	OTHER SOILS	631.00
09/17/2024	532133	WC-24-213			DIETRICH 8408	30.90	OTHER SOILS	618.00
09/17/2024	532134	WC-24-213			TAYLOR 2153	30.83	OTHER SOILS	616.60
09/17/2024	532137	WC-24-213			DIETRICH 8405	26.02	OTHER SOILS	520.40
09/17/2024	532145	WC-24-213			TAYLOR 2152	26.91	OTHER SOILS	538.20
09/17/2024	532147	WC-24-213			TAYLOR 2151	30.82	OTHER SOILS	616.40
09/17/2024	532270	WC-24-213			DIETRICH 8409	32.61	OTHER SOILS	652.20
09/17/2024	532278	WC-24-213			TAYLOR 2153	29.56	OTHER SOILS	591.20
09/17/2024	532283	WC-24-213			DIETRICH 8408	32.06	OTHER SOILS	641.20
09/17/2024	532288	WC-24-213			TAYLOR 2151	35.29	OTHER SOILS	705.80
09/17/2024	532289	WC-24-213			TAYLOR 2152	30.50	OTHER SOILS	610.00
09/18/2024	532364	WC-24-213		9111	DIETRICH 8633/9	29.82	OTHER SOILS	596.40
09/18/2024	532373	WC-24-213		9023	DIETRICH 8623/9	31.41	OTHER SOILS	628.20
09/18/2024	532374	WC-24-213		8969	DIETRICH 8631/8	31.15	OTHER SOILS	623.00

09/18/2024	532375	WC-24-213		TAYLOR 2207	27.22	OTHER SOILS	544.40
09/18/2024	532378	WC-24-213		TAYLOR 2151	32.15	OTHER SOILS	643.00
09/18/2024	532379	WC-24-213		TAYLOR 2153	33.00	OTHER SOILS	660.00
09/18/2024	532435	WC-24-213		TAYLOR 8248	28.26	OTHER SOILS	565.20
09/18/2024	532439	WC-24-213	9065	DIETRICH 8628/9	28.72	OTHER SOILS	574.40
09/18/2024	532483	WC-24-213		DIETRICH 8417	26.05	OTHER SOILS	521.00
09/18/2024	532485	WC-24-213	9111	DIETRICH 8633/9	30.35	OTHER SOILS	607.00
09/18/2024	532490	WC-24-213	9023	DIETRICH 8623/9	32.31	OTHER SOILS	646.20
09/18/2024	532493	WC-24-213	8969	DIETRICH 8631/8	29.48	OTHER SOILS	589.60
09/18/2024	532496	WC-24-213		DIETRICH 8402	21.16	OTHER SOILS	423.20
09/18/2024	532499	WC-24-213		TAYLOR 2207	26.01	OTHER SOILS	520.20
09/18/2024	532500	WC-24-213		TAYLOR 2153	24.34	OTHER SOILS	486.80
09/19/2024	532524	WC-24-213		TAYLOR 2151	30.60	OTHER SOILS	612.00
09/19/2024	532573	WC-24-213	9065	DIETRICH 8628/9	31.91	OTHER SOILS	638.20
09/19/2024	532579	WC-24-213	9069	DIETRICH 8653/9	30.26	OTHER SOILS	605.20
09/19/2024	532580	WC-24-213	8969	DIETRICH 8631/8	27.55	OTHER SOILS	551.00
09/19/2024	532582	WC-24-213	9111	DIETRICH 8633/9	26.53	OTHER SOILS	530.60
09/19/2024	532590	WC-24-213		DIETRICH 8406	28.94	OTHER SOILS	578.80
09/19/2024	532593	WC-24-213		TAYLOR 2149	30.23	OTHER SOILS	604.60
09/19/2024	532595	WC-24-213	9023	DIETRICH 8623/9	30.25	OTHER SOILS	605.00
09/19/2024	532596	WC-24-213		TAYLOR 2153	31.09	OTHER SOILS	621.80
09/19/2024	532603	WC-24-213		TAYLOR 2207	31.96	OTHER SOILS	639.20
09/19/2024	532658	WC-24-213		TAYLOR 2151	32.00	OTHER SOILS	640.00
09/19/2024	532703	WC-24-213	8969	DIETRICH 8631/8	31.67	OTHER SOILS	633.40
09/19/2024	532717	WC-24-213	9065	DIETRICH 8628/9	28.01	OTHER SOILS	560.20
09/19/2024	532722	WC-24-213	9023	DIETRICH 8623/9	31.40	OTHER SOILS	628.00
09/19/2024	532724	WC-24-213	9111	DIETRICH 8633/9	31.09	OTHER SOILS	621.80
09/19/2024	532730	WC-24-213		TAYLOR 2149	31.12	OTHER SOILS	622.40
09/19/2024	532734	WC-24-213	9069	DIETRICH 8653/9	31.93	OTHER SOILS	638.60
09/19/2024	532745	WC-24-213		TAYLOR 2153	31.10	OTHER SOILS	622.00
09/19/2024	532751	WC-24-213		TAYLOR 2207	23.45	OTHER SOILS	469.00
09/20/2024	532822	WC-24-213	8969	DIETRICH 8631/8	27.62	OTHER SOILS	552.40
09/20/2024	532829	WC-24-213		DIETRICH 8416	31.05	OTHER SOILS	621.00
09/20/2024	532830	WC-24-213	9111	DIETRICH 8633/9	30.30	OTHER SOILS	606.00
09/20/2024	532836	WC-24-213		TAYLOR 2149	28.08	OTHER SOILS	561.60
09/20/2024	532838	WC-24-213		DIETRICH 8547	31.25	OTHER SOILS	625.00
09/20/2024	532840	WC-24-213		TAYLOR 2153	25.58	OTHER SOILS	511.60
09/20/2024	532842	WC-24-213		TAYLOR 2151	31.23	OTHER SOILS	624.60
09/20/2024	532844	WC-24-213	9069	DIETRICH 8653/9	28.31	OTHER SOILS	566.20
09/20/2024	532849	WC-24-213		TAYLOR 2207	30.69	OTHER SOILS	613.80
09/20/2024	532851	WC-24-213	9023	DIETRICH 8623/9	31.04	OTHER SOILS	620.80
09/20/2024	532954	WC-24-213	8969	DIETRICH 8631/8	30.52	OTHER SOILS	610.40
09/20/2024	532957	WC-24-213		DIETRICH 8416	31.08	OTHER SOILS	621.60
09/20/2024	532958	WC-24-213	9111	DIETRICH 8633/9	31.72	OTHER SOILS	634.40
09/20/2024	532961	WC-24-213		TAYLOR 2149	31.14	OTHER SOILS	622.80
09/20/2024	532969	WC-24-213		TAYLOR 2151	31.87	OTHER SOILS	637.40
09/20/2024	532979	WC-24-213		TAYLOR 2153	26.91	OTHER SOILS	538.20
09/20/2024	532982	WC-24-213		DIETRICH 8547	31.81	OTHER SOILS	636.20

Total Units: 2341.37	Invoice Total: \$46,827.40
Total Balance Due: \$187,017.24	

ACCOUNT AGING

0 - 30 Days	31 - 60 Days	61 - 90 Days	Over 90 Days	Total
-------------	--------------	--------------	--------------	-------

\$187,017.24	\$0.00	\$0.00	\$0.00	\$187,017.24
---------------------	---------------	---------------	---------------	---------------------



REMIT TO:
WASCO COUNTY LANDFILL, INC.
A WASTE CONNECTIONS COMPANY
2550 STEELE RD
THE DALLES, OR 97058
541-296-4082

Date	Account Number
09/30/2024	2042-395
Invoice Number	INVOICE TOTAL
25401B042	
AMOUNT DUE	PAYMENT DUE
	Upon Receipt

BILL TO:
SWOFFORD EXCAVATING LLC

WASHOUGAL, WA 98671

LATE PAYMENT MAY RESULT IN AN INTERRUPTION OF SERVICE.
PAST DUE INVOICES MAY BE SUBJECT TO A LATE CHARGE
FOR EACH MONTH OR PART THEREOF THAT THE INVOICE IS
PAST DUE.

DATE	TICKET	MANIFEST	PO#	TRAILER ID	CONTAINER	TON/YARD	DESCRIPTION	DOLLARS
09/13/2024	23098					1.00	PAYMENT - THANK	-67008 20
Balance Forward:								
09/23/2024	533052	WC-24-213			DIETRICH 8409	33.30	OTHER SOILS	
09/23/2024	533055	WC-24-213			DIETRICH 8415	29.51	OTHER SOILS	
09/23/2024	533057	WC-24-213			DIETRICH 8406	33.05	OTHER SOILS	
09/23/2024	533058	WC-24-213			DIETRICH 8407	31.45	OTHER SOILS	
09/23/2024	533061	WC-24-213			TAYLOR 2149	33.04	OTHER SOILS	
09/23/2024	533064	WC-24-213			TAYLOR 2153	27.92	OTHER SOILS	
09/23/2024	533079	WC-24-213			TAYLOR 7979	32.10	OTHER SOILS	
09/23/2024	533081	WC-24-213			DIETRICH 8402	23.65	OTHER SOILS	
09/23/2024	533096	WC-24-213			TAYLOR 2151	33.72	OTHER SOILS	
09/23/2024	533145	WC-24-213			DIETRICH 8408	30.79	OTHER SOILS	
09/23/2024	533189	WC-24-213			DIETRICH 8409	31.14	OTHER SOILS	
09/23/2024	533192	WC-24-213			DIETRICH 8407	30.49	OTHER SOILS	
09/23/2024	533199	WC-24-213			TAYLOR 2149	30.76	OTHER SOILS	
09/23/2024	533204	WC-24-213			DIETRICH 8406	32.20	OTHER SOILS	
09/23/2024	533205	WC-24-213			DIETRICH 8415	31.57	OTHER SOILS	
09/23/2024	533216	WC-24-213			TAYLOR 2153	32.40	OTHER SOILS	
09/23/2024	533221	WC-24-213			TAYLOR 7979	31.98	OTHER SOILS	
09/24/2024	533248	WC-24-213			DIETRICH 8402	27.58	OTHER SOILS	
09/24/2024	533300	WC-24-213			DIETRICH 8406	26.00	OTHER SOILS	
09/24/2024	533303	WC-24-213			DIETRICH 8409	32.76	OTHER SOILS	
09/24/2024	533310	WC-24-213			DIETRICH 8407	32.09	OTHER SOILS	
09/24/2024	533312	WC-24-213			DIETRICH 8415	30.68	OTHER SOILS	
09/24/2024	533318	WC-24-213			TAYLOR 2151	32.93	OTHER SOILS	
09/24/2024	533320	WC-24-213			TAYLOR 2149	30.05	OTHER SOILS	
09/24/2024	533322	WC-24-213			TAYLOR 7979	32.62	OTHER SOILS	
09/24/2024	533428	WC-24-213			DIETRICH 8407	31.26	OTHER SOILS	
09/24/2024	533430	WC-24-213			DIETRICH 8409	31.70	OTHER SOILS	
09/24/2024	533439	WC-24-213			DIETRICH 8406	31.30	OTHER SOILS	
09/24/2024	533440	WC-24-213			DIETRICH 8415	31.65	OTHER SOILS	
09/24/2024	533443	WC-24-213			TAYLOR 2149	31.46	OTHER SOILS	
09/24/2024	533449	WC-24-213			TAYLOR 7979	31.24	OTHER SOILS	

09/24/2024	533451	WC-24-213	TAYLOR 2151	33.65	OTHER SOILS
09/25/2024	533544	WC-24-213	DIETRICH 8409	32.33	OTHER SOILS
09/25/2024	533547	WC-24-213	DIETRICH 8406	31.71	OTHER SOILS
09/25/2024	533555	WC-24-213	TAYLOR 2149	31.84	OTHER SOILS
09/25/2024	533556	WC-24-213	DIETRICH 8407	31.97	OTHER SOILS
09/25/2024	533560	WC-24-213	TAYLOR 2207	27.25	OTHER SOILS
09/25/2024	533562	WC-24-213	TAYLOR 7979	31.69	OTHER SOILS
09/25/2024	533564	WC-24-213	TAYLOR 2151	28.73	OTHER SOILS
09/25/2024	533663	WC-24-213	DIETRICH 8409	32.01	OTHER SOILS
09/25/2024	533668	WC-24-213	TAYLOR 2149	29.50	OTHER SOILS
09/25/2024	533669	WC-24-213	TAYLOR 2207	29.39	OTHER SOILS
09/25/2024	533675	WC-24-213	DIETRICH 8406	32.95	OTHER SOILS
09/25/2024	533682	WC-24-213	TAYLOR 7979	32.45	OTHER SOILS
09/25/2024	533690	WC-24-213	TAYLOR 2151	31.34	OTHER SOILS
09/25/2024	533691	WC-24-213	DIETRICH 8415	31.82	OTHER SOILS
09/26/2024	533768	WC-24-213	DIETRICH 8409	32.26	OTHER SOILS
09/26/2024	533769	WC-24-213	DIETRICH 8407	30.70	OTHER SOILS
09/26/2024	533774	WC-24-213	TAYLOR 2149	31.18	OTHER SOILS
09/26/2024	533785	WC-24-213	DIRT HUGGER 510	28.33	OTHER SOILS
09/26/2024	533788	WC-24-213	TAYLOR 7979	32.04	OTHER SOILS
09/26/2024	533794	WC-24-213	TAYLOR 7978	32.18	OTHER SOILS
09/26/2024	533800	WC-24-213	TAYLOR 2146	30.80	OTHER SOILS
09/26/2024	533849	WC-24-213	TAYLOR 2151	30.39	OTHER SOILS
09/26/2024	533887	WC-24-213	DIETRICH 8407	31.52	OTHER SOILS
09/27/2024	533977	WC-24-213	DIETRICH 8409	34.12	OTHER SOILS

Total Units: 1744.54

Invoice Total:

Total Balance Due:

ACCOUNT AGING

0 - 30 Days	31 - 60 Days	61 - 90 Days	Over 90 Days	Total
	\$0.00	\$0.00	\$0.00	

APPENDIX E SURVEY RESULTS

