Phase Two Environmental Site Assessment

1533 and 1541 St. Joseph Blvd, Orleans, Ontario

Sienna Senior Living

20 February 2026

→ **The Power of Commitment**

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1. Introduction

GHD Limited (GHD) was retained by Sienna Senior Living (Sienna) to complete a Phase Two Environmental Site Assessment (ESA) for the properties located at 1541 St. Joseph Blvd (the 1541 Property parcel) and the adjacent 1533 St. Joseph Blvd (the 1533 Property parcel) in Orleans, Ontario (collectively referred to as the "Property" or "Site"). A Site Location Map and Site Plan are presented in **Figure 1** and **Figure 2,** respectively.

GHD completed a Phase I ESA (CSA Standard Z768-01), and a Soil and Groundwater Quality Investigation (CSA Standard Z769) between September and December 2024, as well as a Phase One ESA of the Site in January 2026. The results of the Phase One ESA are summarized in the report entitled "*Phase One Environmental Site Assessment, 1533 and 1541 St. Joseph Boulevard, Orleans, Ontario*," prepared for Sienna, dated 11 February 2026.

The Phase Two ESA was undertaken in accordance with the requirements of Ontario Regulation 153/04, as amended (O. Reg. 153/04 or the Regulation). It is GHD's understanding that the Phase Two ESA was completed to aid in the completion of a Site Plan Control (SPC) application that will be submitted to the City of Ottawa for a new development application. Additionally, GHD understands that a Record of Site Condition (RSC) is not required to be filed as part of the new development, as there is no change in the current land use to a more sensitive land use.

The objective of this Phase Two ESA was to investigate soil and groundwater quality, as applicable, in areas of potential environmental concern (APECs) identified during the Phase One ESA. This report summarizes the investigative activities completed and presents the data generated therefrom.

1.1 Site Description

The Site is located in Orleans, a suburb of the City of Ottawa, Ontario, that has been developed for residential and/or agricultural purposes from prior to the 1950s.

The 1541 Property parcel is approximately 2.48 hectares in size and contains a 3-storey slab-on-grade long-term care building located on the southern portion of the property. Based on discussions with the Site representatives and the review of historical records, the building was constructed in 2007 and has a footprint of approximately 3,200 square metres (34,440 square feet). The 1541 Property parcel has been owned by Sienna since 2012, was owned by Season's Retirement Living from 2009 to 2012, and was owned by Chartwell Senior Housing REIT prior to 2009. The long-term care operations continued from 2007 until the summer of 2023, when the building was vacated. The site building contains 160 private and semi-private residential units (each containing a bedroom and washroom) located on floors one through three. Each floor also contains dining areas, sitting areas, activity rooms, nurse's stations, shower rooms, utility rooms, and office space. The first level also contains a commercial kitchen, a staff laundry room, storage rooms, mechanical/electrical rooms, a generator room, a maintenance room, staff rooms, and several common areas, including a hair salon, a chapel, a multi-purpose room, a café, and a reception area. A wooden shed is located northwest of the site building and was previously utilized for storage. Site conditions observed at the Site in January 2026 were generally similar to the September 2024 Phase I ESA, with the exception of the preliminary demolition work; many of the areas within the site building have been stripped of function. Electricity within the site building does not provide lighting for minor areas such as the generator room and many mechanical and utility closets. The entrance to the administration area is closed off with a tarp, citing the site building as an active construction zone.

The 1533 Property parcel is approximately 1.19 hectares and is currently vacant land (since 2005). The 1533 Property parcel has been owned by Sienna since 2025, was owned by Season's Retirement Living from 2009 to 2025, and was previously owned by Chartwell Senior Housing REIT prior to 2009. The 1533 Property parcel was developed with a 2-storey long-term care facility (former Madonna Nursing Home), which was constructed in 1958 and demolished in 2005. The building located on the 1533 Property parcel had a partial basement beneath the central and eastern portions of the building. The 1533 Property parcel consists of granular roadway material with sections of trees and vegetation interspersed between access roads.

1.2 Property Ownership

The 1541 Property parcel has been owned by Sienna since 2012, was owned by Season's Retirement Living from 2009 to 2012, and was owned by Chartwell Senior Housing REIT prior to 2009. The 1533 Property parcel has been owned by Sienna since 2025, was owned by Season's Retirement Living from 2009 to 2012, and was previously owned by Chartwell Senior Housing REIT prior to 2009.

Contact information for the representative of the Property owner is listed below:

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1.3 Current and Proposed Future Uses

Based on a review of historical records and aerial photograph records obtained by GHD, the Site was present as the Madonna Nursing Home in 1958 until the building demolition in 2005 (1533 Property Parcel) and a Long-Term care facility in 2007 until 2023 when the building was vacated (1541 Property Parcel). Since 2025, the site building has undergone preliminary demolition work in support of redevelopment.

It is GHD's understanding that the Site is proposed for redevelopment, which will include residential and parkland land use.

1.4 Applicable Site Condition Standards

Generic site condition standards are provided in the Ontario Ministry of the Environment (with a name change to the Ministry of Environment, Conservation of Parks [MECP]) document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act,*" dated April 15, 2011. The 2011 standards are referenced in O. Reg. 153/04 - Records of Site Condition, as amended (hereafter referred to as the 2011 MECP Standards).

The Standard provides site condition standards for certain chemicals, based on combinations of six different site-specific conditions, as follows:

- **Property use type:** Residential/Parkland/Institutional (RPI) or Industrial/Commercial/Community (ICC). The Site was historically utilized as a long-term care home and a retirement residence that is currently vacant. As there is no change in the current land use to a more sensitive land use, the standards for RPI property use are considered applicable to the Site.
- **Restoration of groundwater quality - Potable/Non-Potable:** Based on a review of the Source Protection Areas[1], the Site and the surrounding areas within 250 m of the Site are located in the Rideau Valley Source Water Protection Area but outside of an intake protection zone. The Ottawa River is the source of raw potable water for the City of Ottawa. There are no municipal groundwater well sources within a 250 m radius of the Site. No wellhead protection areas are located in the area of the Site. Therefore, non-potable groundwater conditions would apply at the Site.
- **Restoration depth - Full depth/Stratified depth:** For comparative purposes, results were compared to full depth Standards.
- **Soil Texture:** Grain size distribution analysis was carried out on five (5) select soil samples within the sand and gravel (fill) and native glacial till, comprising silty sand, sandy silt, and clayey silt. Under Section 42 of

[1] MECP Ontario Source Protection Information Atlas (https://www.gisapplication.lrc.gov.on.ca/SourceWaterProtection/Index.html?site=SourceWaterProtection&viewer=SWPViewer&locale=en-US)

O. Reg. 153/04, the soil is considered medium and fine-textured if it contains 50% or more by mass particles that are smaller than 75 microns in mean diameter. The grain size analysis results for four out of the five soil samples show that the soil samples contain greater than 50%, by mass, particles that are smaller than 75 micrometres in mean diameter (i.e., medium/fine textured soil).

– **Shallow Soil Property:** A shallow soil property means a property at which 1/3 or more of the area consists of soil equal to or less than 2.0 m in depth beneath the soil surface, excluding any non-soil surface treatment. Based on a review of the boreholes advanced at the Site, the overburden soils consist of sand and gravel (fill) underlain by native glacial till, comprising silty sand, sandy silt, and clayey silt. Bedrock was inferred to be between depths ranging from 2.5 to 5.4 metres below ground surface (mBGS). Therefore, the Site is not considered to be a shallow soil property.
– **Within 30 m of a Water Body:** The Site is not located within 30 metres (m) of a Water Body.

The generic 2011 MECP Standards are not applicable if the Site is considered to be an environmentally sensitive area. The conditions for the above are presented in Section 41 of O. Reg. 153/04. Based on these conditions, the generic Standards are considered applicable as:

– The Site is i) not located within an area of natural significance, ii) does not include or is not adjacent to an area of natural significance, nor is it a part of such area, and iii) does not include land that is within 30 m of an area of natural significance nor is part of such an area.

Based on the above, the applicable Site Condition Standard (SCS) was determined to be Table 3: Full Depth Generic Site Condition Standards for medium to fine textured soils in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional (RPI) Property Uses (MECP Table 3 Standards).

2. Background Information

2.1 Physical Setting

Review of historical records indicated that the Site is located in an area of Ottawa that has been developed for agricultural and residential purposes since prior to the 1950s.

The elevation of the Site ranges from approximately 76 to 78 metres above mean sea level (mAMSL)[2]. Regional topography generally slopes to the north towards the Ottawa River, located approximately 1.6 kilometres (km) north of the Site.

The Site is located in the broad physiographic region known as the Clay Plains. A review of the detailed soils survey provided by ERIS indicates that the overburden present on Site consists predominantly of a silty loam material. Beneath the overburden deposits is bedrock consisting of limestone, dolostone, shale, arkose, and sandstone of the Shadow Lake Formation. Based on a review of the 2004 Patterson Group geotechnical investigation, bedrock is expected to be encountered between approximately 1.9 mBGS and 4.7 mBGS.

No water bodies are located on the Site. The closest water body to the Site is the Ottawa River, which is located approximately 1.6 km north of the Site. The Site is not within or adjacent to an "area of natural significance" as defined by O. Reg. 153/04, and there are no areas of natural significance within the Phase One ESA study area. The following buildings or features were located on the properties surrounding the Site (**Figure 3**):

North: The Site is bounded to the north by a golf course (1485 St. Joseph Blvd), followed by The Queensway (Ottawa Road 174).

East: The Site is bounded to the east by wooded land and a golf course (1485 St. Joseph Blvd).

[2] Natural Resources Canada [map]. "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License – Canada. November 27, 2020. http://atlas.gc.ca/toporama/en/index.html

South: The Site is bounded to the south by St. Joseph Blvd followed by Forest Valley Terrace retirement residence (1510 St. Joseph Blvd). A Royal Canadian Mounted Police (RCMP) technical and protective operations facility is located approximately 75 m southwest of the Site at 1426 St. Joseph Blvd.

West: The Site is bounded to the west by agricultural land and farmstead structures (1501 St. Joseph Blvd).

The Site representative was not aware of any environmental impacts to the Site attributable to operations conducted on adjacent lands. No visual evidence of any adverse environmental impact to the Site attributable to operations conducted on adjacent properties was observed by GHD during the Site reconnaissance.

2.2 Past Investigations

A summary of previous environmental investigations conducted at the Site is summarized in GHD's Phase One ESA dated 11 February 2026.

3. Scope of the Investigation

3.1 Overview of Site Investigations

The objective of the Phase Two ESA was to investigate the APECs identified during the Phase One ESA. The Phase Two ESA Sampling and Analysis Plan (SAP) is provided in **Appendix A**. The following section provides a summary of the investigative activities that were completed during the Phase Two ESA.

3.2 Media Investigated

GHD completed soil and groundwater environmental field investigations at the Site in 2024 and 2026. Sediment sampling was not completed as no water bodies or associated sediment are present at the Site. The following field investigation activities were completed on-Site:

- Advancement of eight (8) test pits in October 2024 (TP-01 to TP-08)
- Advancement of six (6) boreholes in January 2026 (MW1-26 to BH6-26)
- Instrumentation of three (3) of the six (6) boreholes advanced in January 2026 as groundwater monitoring wells (MW1-26, MW2-26, and MW5-26).
- Sampling of the existing Geotech well BH3 in October 2024
- Field screening of soil and groundwater
- Hydraulic monitoring (groundwater level measurements and free-product measurements)
- Laboratory analysis of 19 soil samples (including three field duplicate samples), and one (1) groundwater sample.

Soil and groundwater samples were submitted for laboratory analysis of one or more of the following: Polychlorinated Biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX), volatile organic compounds (VOCs), organochlorine pesticides, petroleum hydrocarbons (PHCs), metals and inorganics.

A summary of soil and groundwater sampling locations and chemical analysis is provided in **Table 1**. The investigative locations are shown on **Figure 2**.

3.3 Phase One Conceptual Site Model

The Site is located in Orleans, a suburb of the City of Ottawa, Ontario, that has been developed for residential and/or agricultural purposes from prior to the 1950s.

The 1541 Property parcel is approximately 2.48 hectares in size and contains a 3-storey slab-on-grade long-term care building located on the southern portion of the property. Based on discussions with the Site representatives and the review of historical records, the building was constructed in 2007 and has a footprint of approximately 3,200 square metres (34,440 square feet). The 1541 Property parcel has been owned by Sienna since 2012, was owned by Season's Retirement Living from 2009 to 2012, and was owned by Chartwell Senior Housing REIT prior to 2009. The long-term care operations continued from 2007 until the summer of 2023, when the building was vacated. The site building contains 160 private and semi-private residential units (each containing a bedroom and washroom) located on floors one through three. Each floor also contains dining areas, sitting areas, activity rooms, nurse's stations, shower rooms, utility rooms, and office space. The first level also contains a commercial kitchen, a staff laundry room, storage rooms, mechanical/electrical rooms, a generator room, a maintenance room, staff rooms, and several common areas, including a hair salon, a chapel, a multi-purpose room, a café, and a reception area. A wooden shed is located northwest of the site building and was previously utilized for storage. Site conditions observed at the Site in January 2026 were generally similar to the September 2024 Phase I ESA, with the exception of the preliminary demolition work; many of the areas within the site building have been stripped of function. Electricity within the site building does not provide lighting for minor areas such as the generator room and many mechanical and utility closets. The entrance to the administration area is closed off with a tarp, citing the site building as an active construction zone.

The 1533 Property parcel is approximately 1.19 hectares and is currently vacant land (since 2005). The 1533 Property parcel has been owned by Sienna since 2025, was owned by Season's Retirement Living from 2009 to 2025, and was previously owned by Chartwell Senior Housing REIT prior to 2009. The 1533 Property parcel was developed with a 2-storey long-term care facility (former Madonna Nursing Home), which was constructed in 1958 and demolished in 2005. The building located on the 1533 Property parcel had a partial basement beneath the central and eastern portions of the building. The 1533 Property parcel consists of granular roadway material with sections of trees and vegetation interspersed between access roads.

The elevation of the Site ranges from approximately 76 to 78 metres above mean sea level (mAMSL)[3]. Regional topography generally slopes to the north towards the Ottawa River, located approximately 1.6 km north of the Site. The Site is located in the broad physiographic region known as the Clay Plains. A review of the detailed soils survey provided by ERIS indicates that the overburden present on Site consists predominantly of a silty loam material. Beneath the overburden deposits is bedrock consisting of limestone, dolostone, shale, arkose, and sandstone of the Shadow Lake Formation. Based on a review of the 2004 Patterson Group geotechnical investigation, bedrock is expected to be encountered between approximately 1.9 mBGS and 4.7 mBGS. The Site may be an area of natural significance, as defined in O. Reg. 153/04.

Electricity is supplied to the 1541 Property parcel by Hydro Ottawa via a pad-mounted electrical transformer located on the 1533 Property parcel. No other utility services are present at the 1533 Property parcel.

One diesel-powered backup generator is located in the generator room in the western portion of the site building (first level). Diesel for the backup generator is stored within the lower portion of the generator in an integrated 450-L steel-walled AST.

The 1541 Property parcel is serviced with natural gas supplied by Enbridge Gas. The site building is heated and cooled by a combination of electrical ductless mini-split units and natural gas-fired, roof-mounted HVAC units. The Site representatives reported that the site building has not been heated with heating oil in the past. Hot water heaters are located on the first level of the site building.

The 1541 Property parcel is serviced with municipally-supplied potable water and sanitary sewer services. The Site representatives were not aware of the presence of any water supply wells or septic systems at the Site. GHD did not observe evidence of any active or abandoned water supply wells or septic systems at the Site during the Site reconnaissance.

[3] Natural Resources Canada [map]. "The Atlas of Canada - Toporama", governed by version 2.3 of the Open Government License – Canada. November 27, 2020. http://atlas.gc.ca/toporama/en/index.html

The following APECs associated with the Site were identified by the Phase One ESA records review, interviews, and Site reconnaissance:

APEC	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #2 – Diesel Powered Backup Generator with Aboveground Storage Tank	The area surrounding the diesel generator AST (1541 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #3 – Former Fuel ASTs (off-site; 1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site
APEC #4 – Potential Pesticide Use	Southern portion of the 1533 and 1541 Property parcels	40. Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site
APEC #5 – Pad Mounted Transformer	The area surrounding the pad mount transformer on the 1533 Property parcel	55. Transformer Manufacturing, Processing and Use	On-Site
APEC #6 – Fill Materials of Unknown Quality	The entirety of the current and formerly developed areas of 1533 and 1541 Property parcels	30. Importation of Fill of Unknown Quality	On-Site
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site

Several off-Site PCAs were identified to be associated with properties located within the Phase One ESA study area (as noted on **Figure 4**) that were not interpreted to have the potential to contribute to an APEC at the Site. A summary of the off-Site PCAs is provided below:

Property Address(es)	Referenced Database(s)	PCA(s), in accordance with O. Reg. 153/04	PCA(s) contributing to an APEC at the Property (Yes/No/Rationale)
1426 St. Joseph Blvd	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site, and the spilled contaminant being gaseous, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.
Grant Gosselin Quarry (Limestone Quarry)	ERIS AMIS	PCA (35) – Mining, Smelting and Refining; Ore Processing; Tailings Storage	No – Due to the distance from Site and the type of operation (Limestone mining), this property was not identified as contributing to an APEC on Site.
1501 St. Joseph Blvd	ERIS FCS	PCA (C) – Federally Contaminated Site	Yes – The contaminated soil has been remediated according to the record. The record is listed as closed with no further action. The ASTs and related operations conducted on the 1501 St. Joseph Blvd. property are identified as PCA potentially contributing to APEC (**APEC #3**) on-Site.
Westbound Hwy 417	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site and the inferred groundwater flow direction in a northerly direction, this record is not anticipated

Property Address(es)	Referenced Database(s)	PCA(s), in accordance with O. Reg. 153/04	PCA(s) contributing to an APEC at the Property (Yes/No/Rationale)
			to have affected the environmental quality of Site and is therefore not contributing to an APEC.
Leitrim and Hawthorne	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site and the inferred groundwater flow direction in a northerly direction, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.
Blair Road, South of Regional Road 174	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site and the inferred groundwater flow direction in a northerly direction, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.
Near Hwy 174 and St. Joseph Blvd	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site, amount of hydraulic fluid released, and the inferred groundwater flow direction in a northerly direction, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.
Royal Canadian Mounted Police HQ	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site and the inferred groundwater flow direction in a northerly direction, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.
National Defence, St. Joseph Blvd	ERIS SPL	PCA (B) – Spill Incident	No – Due to the distance from Site and the inferred groundwater flow direction in a northerly direction, this record is not anticipated to have affected the environmental quality of Site and is therefore not contributing to an APEC.

Based on the results of the Phase One ESA, the contaminants of concern at the Site include metals, PHCs, VOCs, PAHs, PCBs, and OCs. The Phase One ESA Conceptual Site Model for the Site and the Phase One ESA study area are shown on **Figure 4**.

3.4 Deviations from Sampling and Analysis Plan

No deviations from the soil sampling procedures outlined in the SAP occurred during the Phase Two ESA. Groundwater was not encountered in the wells installed by GHD during the assessment; therefore, groundwater sampling and analysis of these wells were not conducted.

3.5 Impediments

No impediments were encountered by GHD during the 2024 Soil and Groundwater investigation and 2026 Phase Two ESA. Monitoring well BH3 could not be resampled as it was buried under a snow pile during the most recent investigation.

4. Investigation Methods

4.1 General

GHD completed soil and groundwater environmental field investigations at the Site in 2024 and 2026. Investigations completed included the following:

– Completion of public and private utility locates
– Advancement of test pits
– Advancement of boreholes
– Installation of groundwater monitoring wells
– Collection of field soil screening measurements and observations
– Collection of soil and groundwater samples
– Field measurements of groundwater quality parameters
– Hydraulic monitoring (groundwater level measurements and measurements for non-aqueous phase liquid [NAPL], if present)
– Quality assurance and quality control (QA/QC) measures
– Elevation Surveying
– Analytical testing
– Residue management

The field investigation activities were completed in accordance with MECP protocols, GHD's standard operating procedures (SOPs), and standard industry practice. These investigations are described in detail in the following sections.

Prior to completing the investigation activities undertaken by GHD, a Site-specific Health and Safety Plan (HASP) was prepared to provide specific guidelines and established procedures for the protection of personnel performing the Site investigation activities. In addition, the appropriate public utility notifications were completed, and a private utility locator was retained to assist with on-Site utility clearances.

4.2 Drilling and Excavating

Test pitting activities were completed on October 31, 2024. Tomlinson Environmental Services Ltd. (Tomlinson) was retained by GHD to advance the eight test pits to depths ranging from 0.91 mBGS to 2.4 mBGS. Tomlinson used a hydrovac truck to advance the test pits (denoted TP-01 to TP-08). Five soil samples (including one field duplicate sample) were collected for laboratory analysis of PHCs F_1 to F_4, and BTEX.

For the Phase Two ESA investigation, borehole and monitoring well installation activities were completed between January 12 and January 14, 2026. Aardvark Drilling Inc. (Aardvark) and Badger Inc. (Badger) were retained by GHD to advance six boreholes at depths ranging from 2.44 to 3.66 mBGS. Aardvark used a GeoProbe Drill Rig to advance three monitoring wells (MW1-26, MW2-26, and MW5-26) and one borehole (BH6-26). Badger used a hydrovac truck to advance two boreholes (BH3-26 and BH4-26). 14 soil samples (including two field duplicate samples) were collected for laboratory analysis of one or more of the following analytes: PCBs, PAHs, BTEX, VOCs, PHCs, OC pesticides, and/or metals and inorganics.

Prior to use, and between each borehole location, the drilling and sampling equipment was thoroughly cleaned using a hard bristled scrub brush with Alconox® soap and potable water, followed by a potable water rinse. A rinsed split-spoon was used for each sampling interval.

4.3 Soil Sampling

The sampling and analysis plan and rationale for the soil sampling locations are presented in **Appendix A**. Soils recovered from each borehole and test pit were logged using the Unified Soil Classification System (USCS), making special note of any visual or olfactory evidence of potential impacts. Soil samples were qualitatively and quantitatively screened in the field for the presence of impact. Qualitative screening was based on visual and olfactory observations, while quantitative screening was based on the measurement of undifferentiated volatile organic vapours in the headspace of the soil samples collected.

GHD field personnel screened the soil from the boreholes by placing a portion of the soil core in a Ziploc® bag and measuring relative concentrations of undifferentiated volatile organic vapour readings in the headspace inside the bag using a photoionization detector (PID). The soil sample exhibiting the strongest field evidence of impact (i.e., high PID readings and visual and/or olfactory evidence of impact) was submitted for laboratory analyses. Soil samples were collected in laboratory-supplied glass containers, which were placed in a cooler containing ice for sample preservation. Field screening measurement methods are described in **Section 4.4**. The geological conditions and qualitative and quantitative information (including PID measurements) collected at each investigative location are presented on stratigraphic and instrumentation logs provided in **Appendix B**. The borehole and test pit locations are shown on **Figure 2**.

4.4 Field Screening Measurements

Prior to use, the PID was inspected and calibrated according to the manufacturer's recommendations. Calibrating the RKI Eagle 2 is a two-point process using "fresh air" and the standard reference gas (also known as span gas). A "fresh air" calibration, which contained no detectable VOC (0.0 parts per million [ppm]), was used to set the zero point for the sensor. Then, a standard reference gas (isobutylene) of known concentration (100 ppm) was used to set the second point of reference.

The PID measurements from field screening the soil samples are presented on the borehole stratigraphic and instrumentation logs provided in **Appendix B**.

4.5 Groundwater Monitoring Well Installation

Groundwater monitoring wells were installed within three (3) of the six (6) boreholes that were advanced by GHD. Existing well BH3 was already installed during the geotechnical investigation conducted in 2024 by Sienna’s geotechnical consultant.

The monitoring wells were constructed with a 51-millimetre (2-inch) diameter, Sch. 40 polyvinyl chloride (PVC) riser and a 1.5-m (5-foot) long, no. 10 slot size well screen. The well screens were installed on the top of bedrock to straddle the perceived groundwater table based on wet/saturated soil conditions encountered during borehole advancement activities. A silica sand pack was placed in the annular space between the PVC screen/riser pipe and the borehole to a height of approximately 0.3 m above the top of well screen. A bentonite seal was placed directly above the sand pack and extended to within 0.3 m of the ground surface. To complete the instrumentation, an expandable J-plug was installed on the riser pipe. A protective flush-mount (MW2-26 and MW5-26) and stick-up casing (MW1-26) were placed around the wells upon completion. Each monitoring well was equipped with dedicated sampling equipment consisting of Waterra™ and inertial foot valves for monitoring well development and sampling.

In accordance with Ontario Regulation 903 (O. Reg. 903), the monitoring wells were registered with the MECP. A summary of monitoring well construction details, including ground surface, the top of riser, and screened interval elevations, is provided in **Table 2.** The locations of the monitoring wells are shown on **Figure 2**. The stratigraphic and instrumentation logs are provided in **Appendix B**.

4.6 Groundwater Field Measurements of Water Quality Parameters

No groundwater was observed in the wells MW1-26, MW2-26, and MW5-26 installed by GHD, despite multiple site visits following installation of the wells in January 2026. As noted above, the wells were installed on the top of bedrock where the water table was anticipated to be. GHD expects that groundwater will be present in the monitoring wells in the spring when melting snow and rain recharges the groundwater.

During the 2024 soil and groundwater investigation, an existing 1-inch diameter monitoring well (BH3), which was installed as part of a separate geotechnical investigation, was developed and sampled on October 31, 2024. GHD implemented the following protocols during well development activities:

– The groundwater monitoring well was equipped with dedicated Waterra™ tubing and an inertial foot valve for well development activities.
– The groundwater monitoring well was purged of a minimum of three well volumes to remove the standing groundwater volume in the well.

4.7 Groundwater Sampling

Prior to initiating groundwater sampling activities, depth to groundwater measurements and a NAPL or free product check were completed at the monitoring well.

As noted above, groundwater was not encountered in the newly installed GHD monitoring wells MW1-26, MW2-26, and MW5-26. During the 2024 soil and groundwater investigation, a groundwater sample was collected from well BH3 on October 31, 2024, using low flow purging technique. The groundwater sample was submitted for chemical analysis of PHCs and BTEX.

Groundwater samples were collected in laboratory-supplied sample containers specific to the analytical parameters, stored in coolers chilled with ice, and submitted under the chain-of-custody protocol for laboratory analysis. All groundwater samples were collected using the appropriate sampling techniques.

4.8 Sediment Sampling

Sediment sampling was not completed during the Phase Two ESA, as no surface water bodies are located on the Site.

4.9 Analytical Testing

All soil and groundwater samples from the 2024 and 2026 environmental field investigations were submitted under the chain-of-custody protocol to ALS Environmental Laboratories (ALS) for chemical analysis. ALS is accredited by the Canadian Association for Laboratory Accreditation (CALA), a MECP-approved accreditation body.

Copies of all the analytical laboratory reports are provided in **Appendix C**.

4.10 Residue Management Procedures

Soil cuttings from the drilling program, groundwater purge water (from monitoring well BH3), and equipment decontamination wash water generated during drilling and sampling activities were contained in 205-litre (55-gallon) metal or plastic drums and stored on-Site. The soil cuttings from the 2026 Phase Two ESA program will be disposed of in Spring 2026 in accordance with applicable regulations.

4.11 Elevation Surveying

The ground surface and top of riser pipe elevations of each of the groundwater monitoring wells and the ground surface of the test pits and boreholes were measured during the 2024 and 2026 environmental field investigations. The ground surface and top of riser elevations for the groundwater monitoring wells are presented in **Table 2**. The elevations of boreholes and test pits are included in the borehole logs presented in **Appendix B**.

4.12 Quality Assurance and Quality Control Measures

A QA/QC program was implemented during the Phase Two ESA to ensure quality data was generated.

This program involved both field and laboratory QA/QC measures. The QA/QC program was initiated to ensure that if any form of sample contamination occurs, or if any lack of precision in the analytical methods employed is evident, the potential source and degree of the contamination or analytical imprecision can be identified and adequately addressed.

Samples were collected in clean laboratory supplied sampling containers with the appropriate preservative and submitted under chain of custody protocol to ALS for chemical analysis. Soil samples that were submitted for analysis of volatile parameters (e.g., VOCs and PHC fraction F_1) were collected using the methanol preservation method. From the time of sample collection to the time of submission to the laboratory, samples were stored in a cooler with ice or ice packs to maintain sample integrity.

The following field measures were taken for QA purposes:

– Between the collection of each soil and groundwater sample, GHD field personnel donned a new pair of disposable nitrile gloves.
– Prior to use, and between each borehole location, the drilling and non-dedicated sampling equipment was scrubbed clean using a hard bristled brush (where needed), Alconox® soap, and potable water followed by a potable water rinse.
– Wherever possible, dedicated sampling equipment (e.g., low density polyethylene (LDPE) tubing, fittings, Ziploc® bags, etc.) was used to reduce the potential for cross contamination.
– Groundwater samples collected for metals analysis were field filtered using dedicated 0.45-micron filters during sample collection.

To validate the field analysis, a minimum of one QA/QC field duplicate sample was collected for every 10 samples for each analytical parameter of each media (soil and groundwater) and submitted for laboratory analysis. Trip blanks were also submitted (approximately one per laboratory submission), where analysis of volatile parameters was required.

5. Review and Evaluation

The review and evaluation of the analytical data includes both the current data collected from the 2026 Phase Two ESA and the historical analytical data collected during the GHD's 2024 Phase II Investigation.

5.1 Geology

The interpreted geological conditions at the Site are based on the review of the stratigraphic logs from the environmental investigations completed by GHD.

In general, the stratigraphy encountered at the Site consists of surficial asphalt or topsoil having a thickness of approximately 0.05 m and 0.1 m, respectively. Underlying the asphalt and topsoil was a fill material consisting of sand

and gravel ranging from the surface to approximately 2.1 mBGS. Underneath the fill soils, native soils consisted of native glacial till, comprising silty sand, sandy silt, and clayey silt. The glacial deposit is noted to contain more shale fragments with depth as it transitions from the soil to the shale bedrock interface. Bedrock was inferred to be between depths ranging from 2.5 to 5.4 mBGS.

Construction debris consisting of broken concrete, wood panels (lumber fragments), broken piping/cables, sheet metal was observed in the fill soils in test pit TP-04 advanced within the footprint of the former building foundation suggesting that some demolition debris has been used as fill at the Site. These soils will need to be disposed of off-Site as waste during future construction activities.

Two geologic cross-sections were prepared for the Site. These geologic cross-sections depict the generalized stratigraphy across the Site. The locations of the geologic cross-sections are shown on **Figure 5**. The elevations presented on the cross-sections are in mAMSL.

5.2 Groundwater Elevations and Flow Direction

Due to the GHD installed wells (MW1-26, MW2-26, and MW5-26) being dry during the January 19 and January 16, 2026, gauging events. Currently, there is not enough data to determine groundwater elevation and flow direction on-Site. Groundwater level was measured in monitoring well BH3 at 2.5 m on October 31, 2024, below the top of riser. No evidence of free product was observed in the monitoring well.

5.3 Soil Texture

Grain size distribution analysis was carried out on five (5) select soil samples within the sand and gravel fill and native glacial till, comprising silty sand, sandy silt, and clayey silt. Under Section 42 of O. Reg. 153/04, the soil is considered medium and fine-textured if it contains 50% or more by mass particles that are smaller than 75 microns in mean diameter. The grain size analysis results for four out of the five soil samples show that the soil samples contain greater than 50%, by mass, particles that are smaller than 75 micrometres in mean diameter (i.e., medium/fine textured soil).

The Qualified Person (QP_{ESA}) has determined from the grain size results that less than 1/3 of the soil at the Site, measured by volume, consists of coarse-textured soil. Therefore, when evaluating soil and groundwater analytical results, GHD applied the MECP Table 3 Standards.

Laboratory results are summarized below and laboratory reports are provided in **Appendix C**.

5.4 Soil Field Screening

During borehole advancement, GHD completed soil field screening by monitoring the soil samples for organic vapours with a PID and documenting any visual or olfactory evidence of potential impacts, as discussed in Section 4.4.

The results of the soil field screening and corresponding sample depth intervals are provided on the stratigraphic and instrumentation logs provided in **Appendix B**. Volatile organic vapour readings ranged from 0.0 to 0.3 ppm across the Site, and no olfactory odors were noted in the screened soil samples.

5.5 Soil Quality

A total of 19 soil samples (including three field duplicate samples) were collected and submitted for chemical analysis of one or more of the following parameters

- VOCs
- BTEX
- PAHs
- OC Pesticides
- PHCs

– Metals (including As, Sb, Se, Cr (VI), Hg, CN)
– Inorganics (EC, SAR, pH)

A summary of the investigative locations associated with each APEC is provided below and are also presented in the SAP in **Appendix A**:

Area of Potential Environmental Concern	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Sampling Location
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	TP-01, TP-05, TP-07, TP-08, BH3-26, and BH4-26
APEC #2 – Diesel Powered Backup Generator with Aboveground Storage Tank	The area surrounding the diesel generator AST (1541 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	MW1-26
APEC #3 – Former Fuel ASTs (1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, BTEX	MW2-26, BH6-26
APEC #4 – Potential Pesticide Use	Southern portion of the 1533 and 1541 Property parcels	40. Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	Organochlorine Pesticides (OCPs) and Metals, Arsenic (As), antimony (Sb), selenium (Se), Mercury (Hg), Chromium (hexavalent) [Cr (VI)]	MW2-26, MW5-26, and BH6-26
APEC #5 – Pad Mount Transformer	The area surrounding the pad mount transformer on the 1533 Property parcel	55. Transformer Manufacturing, Processing and Use	On-Site	PHCs, PCBs	BH6-26
APEC #6 – Fill Materials of Unknown Quality	The entirety of the current and formerly developed areas of 1533 and 1541 Property parcels	30. Importation of Fill of Unknown Quality	On-Site	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH	MW1-26, MW2-26, BH3-26, BH4-26, MW5-26, and BH6-26
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site	Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR)	BH3-26, BH4-26, MW5-26 and BH6-26

The following parameters had concentrations above the MECP Table 3 Standards and are identified as COCs at the Site:

– **Inorganics**: EC, SAR
– **PAHs**: Benzo(a)pyrene, Fluoranthene
– **Metals**: Cobalt

A summary of the lateral extents of the inorganics (EC/SAR), PAHs, and metal impacts in the soil are shown on **Figure 6**, **Figure 7**, and **Figure 8**, respectively. Coss-sections presenting the vertical extents of PAHs and metals exceedances are shown in **Figure 9A** and **9B**, and **Figure 10A** and **10B**, respectively.

A summary of the soil analytical data with respect to the APECs investigated as part of the phase Two ESA is provided below:

– PAHs benzo(a)pyrene, and fluoranthene were detected at concentrations exceeding the MECP Table 3 Standards in the soil sample from MW5-26 at a depth of 1.98-2.44 mBGS collected above the top of the inferred bedrock surface. The elevated PAHs impact in the soil at MW5-26 does not appear to be attributed to any APEC.
  - While benzo(a)pyrene was detected above its MECP Table 3 Standard, which is based on the Ontario background soil concentration, the benzo(a)pyrene soil concentration is not above any of the MECP risk-based component values (RBCVs), obtained from the MECP's Modified Generic Risk Assessment (MGRA) Model (MOECC, 2016 subsequent updates to May 2025 included)[4] protective of human health or ecological receptors based on the continued use of the Site for residential purposes. Therefore, benzo(a)pyrene is not expected to be a concern for human health or ecological receptors, and no risk management measures (RMMs) are required.
  - The detected concentration of fluoranthene is less than the MECP RBCVs protective of human health receptors based on the continued use of the Site for residential purposes. The fluoranthene concentration is greater than the MECP's RBCV protective of terrestrial wildlife (mammals and birds) in direct contact with soil. However, it is unlikely that these soils will result in unacceptable risks to terrestrial wildlife receptors. based on the following, and no RMMs are required:
    - In accordance with Ministry guidance (MOE, 2011)[5], ecological receptors are only exposed to surface soils, defined as soils located between 0 and 1.5 mBGS. The fluoranthene exceedance located at MW5-26 occurred in subsurface soils (1.98 – 2.44 mBGS), while surficial soils collected at the same sample location (0.91 – 1.52 mBGS) met the MECP Table 3 Standards. Furthermore, MW5-26 is located beneath an asphalt parking lot. Therefore, the presence of a clean soil cap and hard cap (i.e., asphalt) in the vicinity of MW5-26 would also prevent terrestrial wildlife from direct contact with the impacted soils under current Site conditions.
    - Terrestrial wildlife receptors are mobile and potentially exposed to an average fluoranthene concentration in soils across the entire Site rather than a single data point. Given that fluoranthene was detected above its MECP Table 3 Standard in only one of the ten soil samples collected at the Site, it is unlikely that these soils will result in unacceptable risks to terrestrial wildlife receptors in the event that they are redistributed during the redevelopment of the Site.

– Cobalt was detected at a concentration exceeding its MECP Table 3 Standard in the soil sample from BH6-26 at a depth of 1.52-2.44 mBGS, which is within the native clayey silt collected above the top of the inferred bedrock surface. The elevated cobalt impact in the soil at BH6-26 does not appear to be attributed to any APEC.
  - The concentration of cobalt (37.3 milligrams per kilogram [mg/kg]) marginally exceeded its MECP Table 3 Standard at the Site. The detected concentration of cobalt is less than the MECP's RBCVs protective of ecological receptors based on the continued use of the Site for residential purposes. The cobalt concentration is greater than the MECP's RBCV protective of residents in direct contact with soil. However, it is unlikely that these soils will result in unacceptable risks to residents at the Site, based on the following, and no RMMs are required:
    - In accordance with Ministry guidance (MOE, 2011) residents are only exposed to surface soils (0 – 1.5 mBGS); however, the cobalt exceedance detected at the Site at BH6-26 was in subsurface soils (1.52 – 2.44 mBGS) while the surficial soils (0.76 – 1.52 mBGS) collected at this location met the MECP Table 3

[4] MOECC, 2016. Modified Generic Risk Assessment (MGRA) (Tier 2) Approved Model (Version 2), dated November 2016 and subsequent updates.

[5] MOE, 2011. Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario, dated April 15, 2011.

Standard for cobalt. Therefore, under current conditions, these subsurface soils will not result in unacceptable risks to residents.

- Residents are mobile receptors and potentially exposed to an average cobalt concentration in soils across the entire Site rather than a single data point. Given that cobalt was detected above its MECP Table 3 Standard in only one of the twelve soil samples collected at the Site. Therefore, unacceptable risks are not expected for residents in direct contact with soil if the Site soils are redistributed during the redevelopment of the Site.

– EC and/or SAR were detected at levels above the MECP Table 3 Standards in soil samples collected across the Site. The EC and SAR impacts are likely related to the application of road salt (**APEC #7**) on the parking area during the winter months for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Bulk salt has not been stored at the Site. In accordance with paragraph 1 of Section 49.1 of O. Reg. 153/04, any on-Site exceedances of EC and SAR associated with the application of road salt would be deemed as having met the applicable Site Condition Standards. As a result, EC and SAR were not identified as COCs in the Phase Two ESA.

Based on the investigation completed, there is no evidence of soil impacts related to any other APECs on-Site. A summary of the soil analytical data is presented in **Table 3,** and a summary of the maximum soil concentrations is presented in **Table 4**.

GHD notes that any soils exported from the Site must be assessed, handled and disposed of in accordance with the Soil Rules, O. Reg. 406/19 *On-Site and Excess Soil Management*. The reporting requirements under O. Reg. 406/19, such as preparation of Assessment of Past Uses, Sampling and Analysis Plan, Soil Characterization Report, Excess Soil Destination Assessment Report, and filing of Excess Soil Registry, should also be considered.

5.6 Groundwater Quality

One groundwater sample (BH3) was collected and submitted for chemical analysis for the following parameters:

– PHC F_1-F_4
– BTEX

A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Sampling Location
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	BH3
APEC #3 – Former Fuel ASTs (1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, BTEX	MW2-26 (See note below)
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site	Sodium (Na), Chloride Ion (Cl-)	MW2-26, MW5-26 (See note below)

The well screens were installed on the top of bedrock to straddle the perceived groundwater table. GHD installed wells were observed dry, as such, groundwater in the area of **APEC#3** and **APEC#7** could not be investigated. No evidence of any soil impacts related to **APEC #3**, was identified in the soils screened during the installation of monitoring well MW2-26.

A review of the groundwater analytical results indicates PHC F_3 (C_{16}-C_{34}) was detected in the groundwater sample collected from BH3 at 260 micrograms per litre (µg/L) below its MECP Table 3 Standard of 500 µg/L in the analyzed sample. All remaining analyzed parameters were not detected above the laboratory detection limits.

Analytical results are summarized in **Table 5**, since samples were only collected from BH3, the maximum groundwater concentrations are the concentrations is presented in **Table 5**. The certificates of analysis provided by the laboratory are presented in **Appendix C**.

5.7 Sediment Quality

Sediment sampling was not completed during the Phase Two ESA, as no surface water bodies are located on the Site.

5.8 Quality Assurance and Quality Control (QA/QC) Results

A total of three soil field duplicate samples were analyzed during the Phase Two ESA. One trip blank sample was submitted and analyzed for PHC fraction F_1 and/or VOCs. The QA/QC samples were also analyzed by the laboratory as required by their analytical methods. As noted previously in Section 4.12, copies of the data quality assessment and verification memoranda will be prepared by a GHD quality assurance officer to confirm that the analytical data generated during the Phase Two ESA are of acceptable precision and accuracy for their intended use.

Upon receipt of analytical data from the laboratory, the data were verified by a GHD chemist. Based on the validation assessment, the data is acceptable for use with the following qualifications noted below:

– Two samples (S-12683832-120126-MRW-004 and S-12683832-140126-MRW-014) were qualified for grain size due to low sample volume therefore the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
– Two samples (S-12683832-130126-MRW-006 and S-12683832-130126-MRW-007) were qualified for thallium due to field duplicate variability therefore the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

The data verification is provided in **Appendix C**.

5.9 Phase Two Conceptual Site Model

The following presents a CSM of the Phase Two ESA Property located at 1541 St. Joseph Blvd and 1533 St. Joseph Blvd in Orleans, Ontario.

The Site is located in Orleans, a suburb of the City of Ottawa, Ontario, that has been developed for residential and/or agricultural purposes from prior to the 1950s.

The 1541 Property parcel is approximately 2.48 hectares in size and contains a 3-storey slab-on-grade long-term care building located on the southern portion of the property. Based on discussions with the Site representatives and the review of historical records, the building was constructed in 2007 and has a footprint of approximately 3,200 square metres (34,440 square feet). The 1541 Property parcel has been owned by Sienna since 2012, was owned by Season's Retirement Living from 2009 to 2012, and was owned by Chartwell Senior Housing REIT prior to 2009. The long-term care operations continued from 2007 until the summer of 2023, when the building was vacated. The site building contains 160 private and semi-private residential units (each containing a bedroom and washroom) located on floors one through three. Each floor also contains dining areas, sitting areas, activity rooms, nurse's stations, shower rooms, utility rooms, and office space. The first level also contains a commercial kitchen, a staff laundry room, storage rooms, mechanical/electrical rooms, a generator room, a maintenance room, staff rooms, and several common areas, including a hair salon, a chapel, a multi-purpose room, a café, and a reception area. A wooden shed is located northwest of the site building and was previously utilized for storage. Site conditions observed at the Site in January 2026 were generally similar to the September 2024 Phase I ESA, with the exception of the preliminary demolition work; many of the areas within the site building have been stripped of function. Electricity within the site building does not provide lighting for minor areas such as the generator room and many mechanical and utility closets. The entrance to the administration area is closed off with a tarp, citing the site building as an active construction zone.

The 1533 Property parcel is approximately 1.19 hectares and is currently vacant land (since 2005). The 1533 Property parcel has been owned by Sienna since 2025, was owned by Season's Retirement Living from 2009 to 2025, and was previously owned by Chartwell Senior Housing REIT prior to 2009. The 1533 Property parcel was developed with a 2-storey long-term care facility (former Madonna Nursing Home), which was constructed in 1958 and demolished in 2005. The building located on the 1533 Property parcel had a partial basement beneath the central and eastern portions of the building. The 1533 Property parcel consists of granular roadway material with sections of trees and vegetation interspersed between access roads.

GHD completed a Phase I ESA (CSA Standard Z768-01), a Soil and Groundwater Quality Investigation (CSA Standard Z769) between September and December 2024, and a Phase One ESA of the Site in January 2026. The results of the Phase One ESA are summarized in the report entitled "*Phase One Environmental Site Assessment, 1533 and 1541 St. Joseph Boulevard, Orleans, Ontario*," prepared for Sienna, dated 11 February 2026.

The following APECs associated with the Site were identified by the Phase One ESA records review, interviews, and Site reconnaissance:

APEC	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #2 – Diesel Powered Backup Generator with Aboveground Storage Tank	The area surrounding the diesel generator AST (1541 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site
APEC #3 – Former Fuel ASTs (off-site; 1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site
APEC #4 – Potential Pesticide Use	Southern portion of the 1533 and 1541 Property parcels	40. Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk	On-Site

APEC	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)
		Storage and Large-Scale Applications	
APEC #5 – Pad Mounted Transformer	The area surrounding the pad mount transformer on the 1533 Property parcel	55. Transformer Manufacturing, Processing and Use	On-Site
APEC #6 – Fill Materials of Unknown Quality	The entirety of the current and formerly developed areas of 1533 and 1541 Property parcels	30. Importation of Fill of Unknown Quality	On-Site
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site

A Phase Two ESA was completed by GHD to investigate soil and groundwater quality at the Site associated with the APECs identified during the Phase One ESA.

The Phase Two ESA activities completed at the Site included the following:

– Completion of public and private utility locates
– Advancement of test pits
– Advancement of boreholes
– Installation of groundwater monitoring wells
– Collection of field measurements and observations for screening soil
– Collection of soil and groundwater samples
– Field measurements of groundwater quality parameters
– Hydraulic monitoring [groundwater level measurements and measurements for NAPL, if present
– QA/QC measures
– Elevation Surveying
– Analytical testing
– Residue management

The QP_{ESA} determined that the sampling program (including the QA/QC program) undertaken during the Phase Two ESA met the requirements of O. Reg. 153/04 and was sufficient to ensure the quality and reliability of the analytical results. A summary of the APECs identified at the Site and the associated PCAs is provided in the section below.

The purpose of the Phase Two ESA was to investigate the APECs identified in the Phase One ESA. The objective of the Phase Two ESA was to investigate soil and groundwater quality, as applicable, in the APECs identified at the Site. The locations of the APECs identified at the Site and the locations of PCAs identified within the Phase One ESA study area is shown on **Figure 4.** The Phase One CSM and the Phase Two CSM prepared for the Site incorporate the information and data collected as part of the Phase One and Phase Two ESAs. The following provides a narrative description and assessment of the information and data incorporated into the Phase Two CSM.

5.9.1 Physical Setting of the Phase Two Property

5.9.1.1 Geological Characteristics

The Site is located in the broad physiographic region known as the Clay Plains. A review of the detailed soils survey provided by ERIS indicates that the overburden present on Site consists predominantly of a silty loam material.

The interpreted geological conditions at the Site are based on the review of the stratigraphic logs from the environmental investigations completed by GHD. In general, the stratigraphy encountered at the Site consists of surficial asphalt or topsoil having a thickness of approximately 0.05 m and 0.1 m, respectively. Underlying the asphalt and topsoil was a fill material consisting of sand and gravel ranging from the surface to approximately 2.1 mBGS. Underneath the fill soils, native soils consisted of native glacial till, comprising silty sand, sandy silt, and clayey silt. The glacial deposit is noted to contain more shale fragments with depth as it transitions from the soil to the shale bedrock interface.

Construction debris consisting of broken concrete, wood panels (lumber fragments), broken piping/cables, sheet metal was observed in the fill soils in test pit TP-04 advanced within the footprint of the former building foundation suggesting that some demolition debris has been used as fill at the Site. These soils will need to be disposed of off-Site as waste during future construction activities.

5.9.1.2 Depth to Bedrock

Beneath the overburden deposits is bedrock consisting of limestone, dolostone, shale, arkose, and sandstone of the Shadow Lake Formation. Bedrock was inferred to be between depths ranging from 2.5 to 5.4 mBGS.

5.9.1.3 Depth to Water Table

Due to the GHD installed wells (MW1-26, MW2-26, and MW5-26) being dry during the January 19 and January 16, 2026, gauging events. Currently, there is not enough data to determine groundwater elevation and flow direction on-Site. Groundwater level was measured in monitoring well BH3 at 2.5 m on October 31, 2024, below the top of riser. No evidence of free product was observed in the monitoring well.

5.9.2 Application of Section 35, 41 or 43.1

Application of Section 35 – Non-Potable Site Condition Standards

Based on a review of the Source Protection Areas[6], the Site and the surrounding areas within 250 m of the Site are located in the Rideau Valley Source Water Protection Area but outside of an intake protection zone. The Ottawa River is the source of raw potable water for the City of Ottawa. There are no municipal groundwater well sources within a 250 m radius of the Site. No wellhead protection areas are located in the area of the Site. Therefore, non-potable groundwater conditions would apply at the Site.

Application of Section 41 – Site Condition Standards, Environmentally Sensitive Areas

The Site is: i) not located within an area of natural significance, ii) does not include or is not adjacent to an area of natural significance, nor is it a part of such area, and iii) does not include land that is within 30 m of an area of natural significance nor is part of such an area. The Ontario Ministry of Natural Resources and Forestry's "Natural Heritage Information Centre (NHIC)" database was reviewed to identify areas registered as Areas of Natural or Scientific Interest (ANSI) or for known occurrences of Species at Risk (NHIC Rare Occurrences) within a 1km radius of the Site. No records were identified in the ANSI database to be within 1km of the Site. The Site is not designated by the local municipality as an environmentally significant or sensitive area.

The soil pH in surface (0 to 1.5 mBGS) and subsurface (greater than 1.5 mBGS) soils was within the acceptable range of 5 and 9 for surface soils, and within an acceptable range of 5 and 11 for subsurface soils, as outlined in Section 41 of O. Reg. 153/04.

As a result, the Site is not considered to be an environmentally sensitive area, and Section 41 of O. Reg. 153/04 is not applicable to the Site.

[6] MECP Ontario Source Protection Information Atlas (https://www.gisapplication.lrc.gov.on.ca/SourceWaterProtection/Index.html?site=SourceWaterProtection&viewer=SWPViewer&locale=en-US)

Application of Section 43.1 – Site Condition Standards, Shallow Soil Property or Water Body

- Section 43.1 (3) of O. Reg. 153/04 defines a shallow soil property as "a property of which 1/3 or more of the area consists of soil equal to or less than 2 m in depth beneath the soil surface, excluding any non-soil surface treatment". Based on a review of the boreholes advanced at the Site, the overburden soils consist of sand and gravel (fill) underlain by native glacial till, comprising silty sand, sandy silt, and clayey silt. Bedrock was inferred to be between depths ranging from 2.5 to 5.4 mBGS. Therefore, the Site is not considered to be a shallow soil property.
- No water bodies were identified within 30 m of the Site/Property/Due Diligence Boundary. As such, the standards for use within 30 m of a water body were not considered for the analytical data.

5.9.3 Areas Where Excess Soil Has been Brought to the Phase Two Property

The Site was initially developed in the 1950s, including a parking area for the former Madonna Nursing Home and associated buildings on the 1533 Property parcel. It is expected that fill materials were used during the grading of the Site. The potential placement of fill materials located on the central portion of the Property was identified as a PCA. Site representatives were not aware of any other fill material being imported to the Site. No excess soil as defined in O. Reg. 406/19 has been imported to the Site.

5.9.4 Proposed Buildings or Structures

The existing site building has undergone preliminary demolition work in support of the redevelopment. The proposed development at the Site will include construction of a new building which will connect with the existing building.

5.9.5 Areas Where Impacts were Identified

GHD completed soil and groundwater environmental field investigations at the Site in 2024 and 2026. The soil and groundwater analytical results were compared to the generic standards provided in the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*", dated April 15, 2011.

Based on the results of the Phase Two ESA, the applicable Site Condition Standards were determined to be Table 3: Full Depth Generic Site Condition Standards for medium to fine textured soils in a Non-Potable Ground Water Condition for Residential/Parkland/Institutional (RPI) Property Uses (MECP Table 3 Standards). The groundwater analytical data was assessed with respect to the MECP Table 3 Standards for All Types of Property Use.

5.9.5.1 Soil Quality

A total of 19 soil samples (including three field duplicate samples) were collected and submitted for chemical analysis of one or more of the following parameters

- VOCs
- BTEX
- PAHs
- OC Pesticides
- PHCs
- Metals (including As, Sb, Se, Cr (VI), Hg, CN)
- Inorganics (EC, SAR, pH)

A summary of the investigative locations associated with each APEC is provided below and are also presented in the SAP in **Appendix A**:

Area of Potential Environmental Concern	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Sampling Location
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	TP-01, TP-05, TP-07, TP-08, BH3-26, and BH4-26
APEC #2 – Diesel Powered Backup Generator with Aboveground Storage Tank	The area surrounding the diesel generator AST (1541 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	MW1-26
APEC #3 – Former Fuel ASTs (1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, BTEX	MW2-26, BH6-26
APEC #4 – Potential Pesticide Use	Southern portion of the 1533 and 1541 Property parcels	40. Pesticides [including Herbicides, Fungicides and Anti-Fouling Agents] Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	Organochlorine Pesticides (OCPs) and Metals, Arsenic (As), antimony (Sb), selenium (Se), Mercury (Hg), Chromium (hexavalent) [Cr (VI)]	MW2-26, MW5-26, and BH6-26
APEC #5 – Pad Mount Transformer	The area surrounding the pad mount transformer on the 1533 Property parcel	55. Transformer Manufacturing, Processing and Use	On-Site	PHCs, PCBs	BH6-26
APEC #6 – Fill Materials of Unknown Quality	The entirety of the current and formerly developed areas of 1533 and 1541 Property parcels	30. Importation of Fill of Unknown Quality	On-Site	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH	MW1-26, MW2-26, BH3-26, BH4-26, MW5-26, and BH6-26
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site	Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR)	BH3-26, BH4-26, MW5-26 and BH6-26

The following parameters had concentrations above the MECP Table 3 Standards and are identified as COCs at the Site:

– **Inorganics**: EC, SAR
– **PAHs**: Benzo(a)pyrene, Fluoranthene
– **Metals**: Cobalt

5.9.5.2 Groundwater Quality

One groundwater sample (BH3) was collected and submitted for chemical analysis for the following parameters:

– PHC F_1-F_4

– BTEX
– A summary of the investigative locations associated with each APEC is provided below:

Area of Potential Environmental Concern	Location of the APEC on Phase One Property	PCA(s)	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Sampling Location
APEC #1 – Former Fuel Oil Underground Storage Tank	The area surrounding the former UST (1533 Property parcel)	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, BTEX	BH3
APEC #3 – Former Fuel ASTs (1501 St. Joseph Blvd)	Area along the western portion of 1533 Property parcel	28. Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	PHCs, BTEX	MW2-26 (See note below)
APEC #7 – Road Salt Use	Developed areas of 1533 and 1541 Property parcels	(A). Application of De-icing Agents	On-Site	Sodium (Na), Chloride Ion (Cl-)	MW2-26, MW5-26 (See note below)

The well screens were installed on the top of bedrock to straddle the perceived groundwater table. GHD installed wells were observed dry, as such, groundwater in the area of **APEC#3** and **APEC#7** could not be investigated. No evidence of any soil impacts related to **APEC #3**, was identified in the soils screened during the installation of monitoring well MW2-26.

A review of the groundwater analytical results indicates PHC F_3 (C_{16}-C_{34}) was detected in the groundwater sample collected from BH3 at 260 micrograms per litre (µg/L) below its MECP Table 3 Standard of 500 µg/L in the analyzed sample. All remaining analyzed parameters were not detected above the laboratory detection limits.

Remaining Analytes

The remaining analytes were detected at concentrations below the applicable MECP Table 3 Standards.

5.9.5.3 Sediment Quality

Sediment sampling was not completed during Phase Two ESA water bodies are not present at the Site and sediment was not identified as a potentially contaminated media in Phase One ESA.

5.9.5.4 Soil Remediation

No soil remediation work (to remove Benzo(a)pyrene, Fluoranthene and Cobalt impacts) has been completed or planned for this Site.

5.9.5.5 Potential for Vapour Intrusion into Site Building

Based on this investigation, hazardous vapour intrusion into the indoor air space of the existing building is not anticipated.

5.9.5.6 Potential Exposure Pathways for Human and Ecological Receptors

Potential human receptors, given the continued residential land use of the Site, include residents, indoor workers, outdoor workers, and subsurface workers conducting subsurface excavations at the Site. Potentially complete soil

exposure pathways include direct contact with soil, inhalation of soil vapour and particulates in ambient air, and inhalation of soil vapours in indoor air. Since there was no evidence of groundwater impacts related to any of the APECs, and no groundwater COCs were identified, the groundwater exposure pathways at the Site are considered to be incomplete for human health receptors.

Potential ecological receptors consist of vegetation, such as trees and grasses, invertebrates, such as earthworms, and wildlife, such as mammals and birds. It is expected that the ecological receptors present at the Site would be exposed to soils through direct contact, indirect food web interactions, and inhalation of particulates/volatiles. As noted above, as no groundwater COCs were identified, the groundwater exposure pathways for ecological receptors are considered to be incomplete.

5.9.6 Non-Standard Delineation – Section 7.1 of Schedule E

Non-standard delineation was not conducted as part of the Phase Two ESA.

5.9.7 Standards Deemed to be Met – Paragraph 1, 1.1 or 2 of Section 49.1

EC and SAR were also detected in fill and native soils across all borehole locations and at various depths at levels that were above the applicable MECP Table 3 Standards. Sodium and chloride were detected above their applicable MECP Table 3 Standards in groundwater across the Property.

For the purposes of RSC filing, the QP is relying on the exemption set out in paragraph 1 of Section 49.1 of O. Reg. 153/04 for EC and SAR detected in soils collected from fill and native soils across all borehole locations and at various depths at levels above the MECP Table 3 Standards. Sodium and chloride were detected above their applicable MECP Table 3 Standards in groundwater across the Property. As these soil and groundwater impacts at the Site are attributed to the application of de-icing agents/road salt to the ground surface on the Site and in the vicinity of the Site for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. The QP is not relying on any other exemptions from Section 49.1 of the regulation or subsection 6 (2) of Schedule E.

5.9.8 Standards Deemed to be Met – Paragraph 3 of Section 49.1

The exemption set out in paragraph 3 of Section 49.1 was not relied upon in the completion of the Phase Two ESA.

5.9.9 Sampling and Analysis of Groundwater Exemption – Subsection 6 (2) of Schedule E

The exemption set out in subsection 6 (2) of Schedule E was not relied upon in the completion of the Phase Two ESA.

6. Conclusions

In general, the stratigraphy encountered at the Site consists of surficial asphalt or topsoil having a thickness of approximately 0.05 m and 0.1 m, respectively. Underlying the asphalt and topsoil was a fill material consisting of sand and gravel ranging from the surface to approximately 2.1 mBGS. Underneath the fill soils, native soils consisted of native glacial till, comprising silty sand, sandy silt, and clayey silt. The glacial deposit is noted to contain more shale fragments with depth as it transitions from the soil to the shale bedrock interface. Bedrock was inferred to be between depths ranging from 2.5 to 5.4 mBGS. Construction debris consisting of broken concrete, wood panels (lumber fragments), broken piping/cables, sheet metal was observed in the fill soils in test pit TP-04 advanced within the footprint of the former building foundation suggesting that some demolition debris has been used as fill at the Site. These soils will need to be disposed of off-Site as waste during future construction activities.

The following parameters had concentrations above the MECP Table 3 Standards and are identified as COCs at the Site:

COCs in Soil

– Inorganics: EC, SAR
– PAHs: Benzo(a)pyrene, Fluoranthene
– Metals: Cobalt

A summary of the soil analytical data with respect to the APECs investigated as part of the phase Two ESA is provided below:

– PAHs benzo(a)pyrene, and fluoranthene were detected at concentrations exceeding the MECP Table 3 Standards in the soil sample from MW5-26 at a depth of 1.98-2.44 mBGS collected above the top of the inferred bedrock surface. The elevated PAHs impact in the soil at MW5-26 does not appear to be attributed to any APEC.
    - While benzo(a)pyrene was detected above its MECP Table 3 Standard, which is based on the Ontario background soil concentration, the benzo(a)pyrene soil concentration is not above any of the MECP risk-based component values (RBCVs), obtained from the MECP's Modified Generic Risk Assessment (MGRA) Model (MOECC, 2016 subsequent updates to May 2025 included)[7] protective of human health or ecological receptors based on the continued use of the Site for residential purposes. Therefore, benzo(a)pyrene is not expected to be a concern for human health or ecological receptors, and no risk management measures (RMMs) are required.
    - The detected concentration of fluoranthene is less than the MECP RBCVs protective of human health receptors based on the continued use of the Site for residential purposes. The fluoranthene concentration is greater than the MECP's RBCV protective of terrestrial wildlife (mammals and birds) in direct contact with soil. However, it is unlikely that these soils will result in unacceptable risks to terrestrial wildlife receptors. based on the following, and no RMMs are required:
        - In accordance with Ministry guidance (MOE, 2011)[8], ecological receptors are only exposed to surface soils, defined as soils located between 0 and 1.5 mBGS. The fluoranthene exceedance located at MW5-26 occurred in subsurface soils (1.98 – 2.44 mBGS), while surficial soils collected at the same sample location (0.91 - 1.52 mBGS) met the MECP Table 3 Standards. Furthermore, MW5-26 is located beneath an asphalt parking lot. Therefore, the presence of a clean soil cap and hard cap (i.e., asphalt) in the vicinity of MW5-26 would also prevent terrestrial wildlife from direct contact with the impacted soils under current Site conditions.

[7] MOECC, 2016. Modified Generic Risk Assessment (MGRA) (Tier 2) Approved Model (Version 2), dated November 2016 and subsequent updates.
[8] MOE, 2011. Rationale for the Development of Soil and Ground Water Standards for Use at Contaminated Sites in Ontario, dated April 15, 2011.

    - Terrestrial wildlife receptors are mobile and potentially exposed to an average fluoranthene concentration in soils across the entire Site rather than a single data point. Given that fluoranthene was detected above its MECP Table 3 Standard in only one of the ten soil samples collected at the Site, it is unlikely that these soils will result in unacceptable risks to terrestrial wildlife receptors in the event that they are redistributed during the redevelopment of the Site.

– Cobalt was detected at a concentration exceeding its MECP Table 3 Standard in the soil sample from BH6-26 at a depth of 1.52-2.44 mBGS, which is within the native clayey silt collected above the top of the inferred bedrock surface. The elevated cobalt impact in the soil at BH6-26 does not appear to be attributed to any APEC.
    - The concentration of cobalt (37.3 milligrams per kilogram [mg/kg]) marginally exceeded its MECP Table 3 Standard at the Site. The detected concentration of cobalt is less than the MECP's RBCVs protective of ecological receptors based on the continued use of the Site for residential purposes. The cobalt concentration is greater than the MECP's RBCV protective of residents in direct contact with soil. However, it is unlikely that these soils will result in unacceptable risks to residents at the Site, based on the following, and no RMMs are required:
        - In accordance with Ministry guidance (MOE, 2011) residents are only exposed to surface soils (0 – 1.5 mBGS); however, the cobalt exceedance detected at the Site at BH6-26 was in subsurface soils (1.52 – 2.44 mBGS) while the surficial soils (0.76 – 1.52 mBGS) collected at this location met its MECP Table 3 Standard for cobalt. Therefore, under current conditions, these subsurface soils will not result in unacceptable risks to residents.
        - Residents are mobile receptors and potentially exposed to an average cobalt concentration in soils across the entire Site rather than a single data point. Given that cobalt was detected above its MECP Table 3 Standard in only one of the twelve soil samples collected at the Site. Therefore, unacceptable risks are not expected for residents in direct contact with soil if the Site soils are redistributed during the redevelopment of the Site.

– EC and/or SAR were detected at levels above the Table 3 Standards in soil samples collected across the Site. The EC and SAR impacts are likely related to the application of road salt (**APEC #7**) on the parking area during the winter months for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. Bulk salt has not been stored at the Site. In accordance with paragraph 1 of Section 49.1 of O. Reg. 153/04, any on-Site exceedances of EC and SAR associated with the application of road salt would be deemed as having met the applicable Site Condition Standards. As a result, EC and SAR were not identified as COCs in the Phase Two ESA.

A summary of the lateral extents of the inorganics (EC/SAR), PAHs, and metal impacts in the soil are shown on **Figure 6**, **Figure 7**, and **Figure 8**, respectively. Coss-sections presenting the vertical extents of PAHs and metals exceedances are shown in **Figure 9A** and **9B**, and **Figure 10A** and **10B**, respectively.

GHD notes that any soils exported from the Site must be assessed, handled and disposed of in accordance with the Soil Rules, O. Reg. 406/19 *On-Site and Excess Soil Management*. The reporting requirements under O. Reg. 406/19, such as preparation of Assessment of Past Uses, Sampling and Analysis Plan, Soil Characterization Report, Excess Soil Destination Assessment Report, and filing of Excess Soil Registry, should also be considered.

COCs in Groundwater

– A review of the groundwater analytical results indicates PHC F_3 (C_{16}-C_{34}) was detected in the groundwater sample collected from BH3 at 260 micrograms per litre (µg/L) below its MECP Table 3 Standard of 500 µg/L in the analyzed sample. All remaining analyzed parameters were not detected above the laboratory detection limits.

GHD understands that a Record of Site Condition (RSC) is not required to be filed as part of the new development, as there is no change in the current land use to a more sensitive land use.

All of Which is Respectfully Submitted,

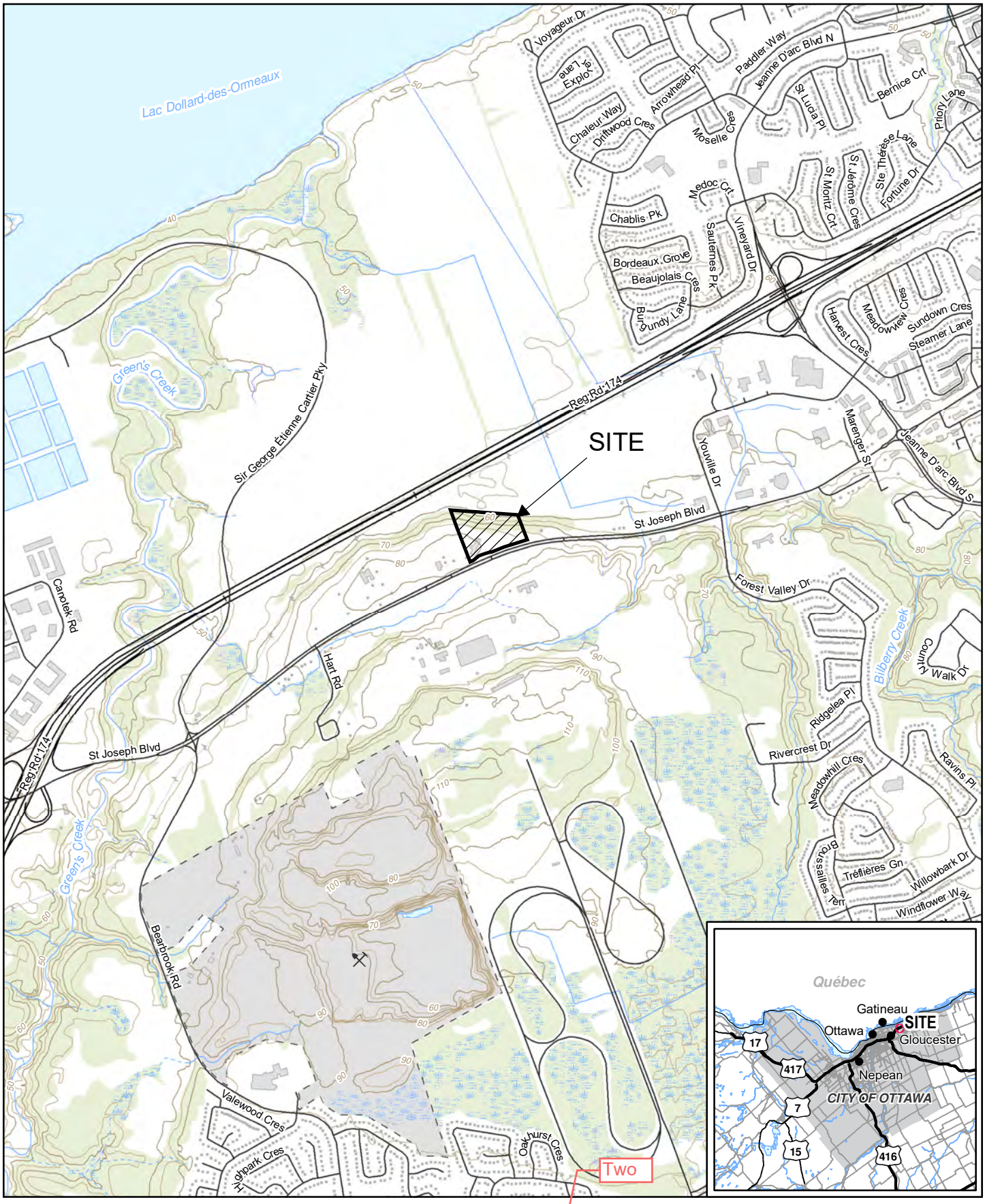
GHD

Jordan Reeves

Aditya Khandekar, P.Eng., QP$_{ESA}$

Gregory R. Brooks, P.Eng.

Figures



Scale 1:20,000

0 200 400 600

Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 18N

N

GHD

SIENNA SENIOR LIVING
1533 AND 1541 ST. JOESPH BOULEVARD
ORLEANS, ONTARIO
PHASE 2 ENVIRONMENTAL SITE ASSESSMENT

Project No. **12683832**
Revision No. **-**
Date **Jan 27, 2026**

SITE LOCATION MAP

FIGURE 1

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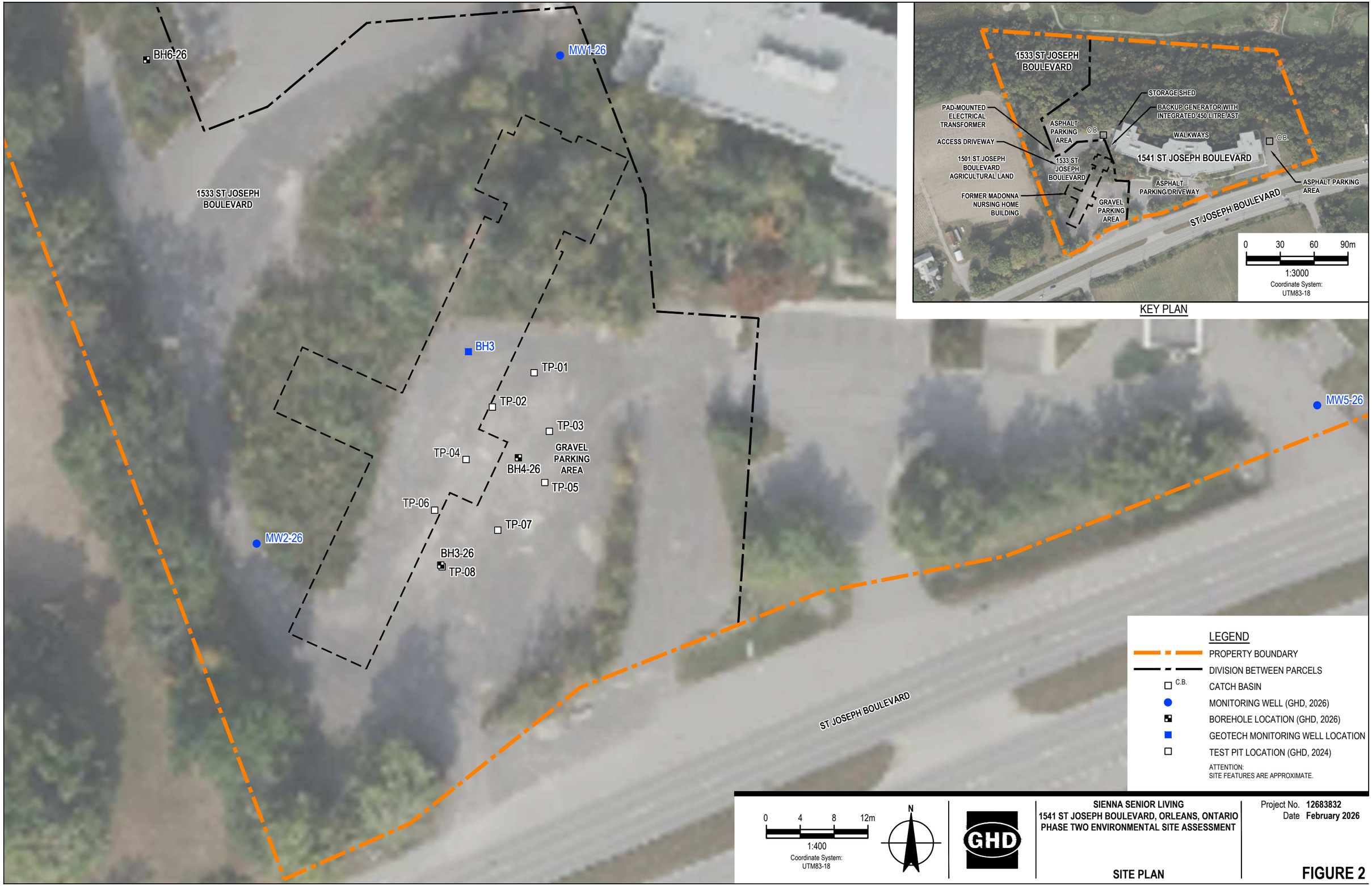

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

Project No. **12683832**
Date **February 2026**

SITE PLAN

FIGURE 2

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D101_WA-002.dwg
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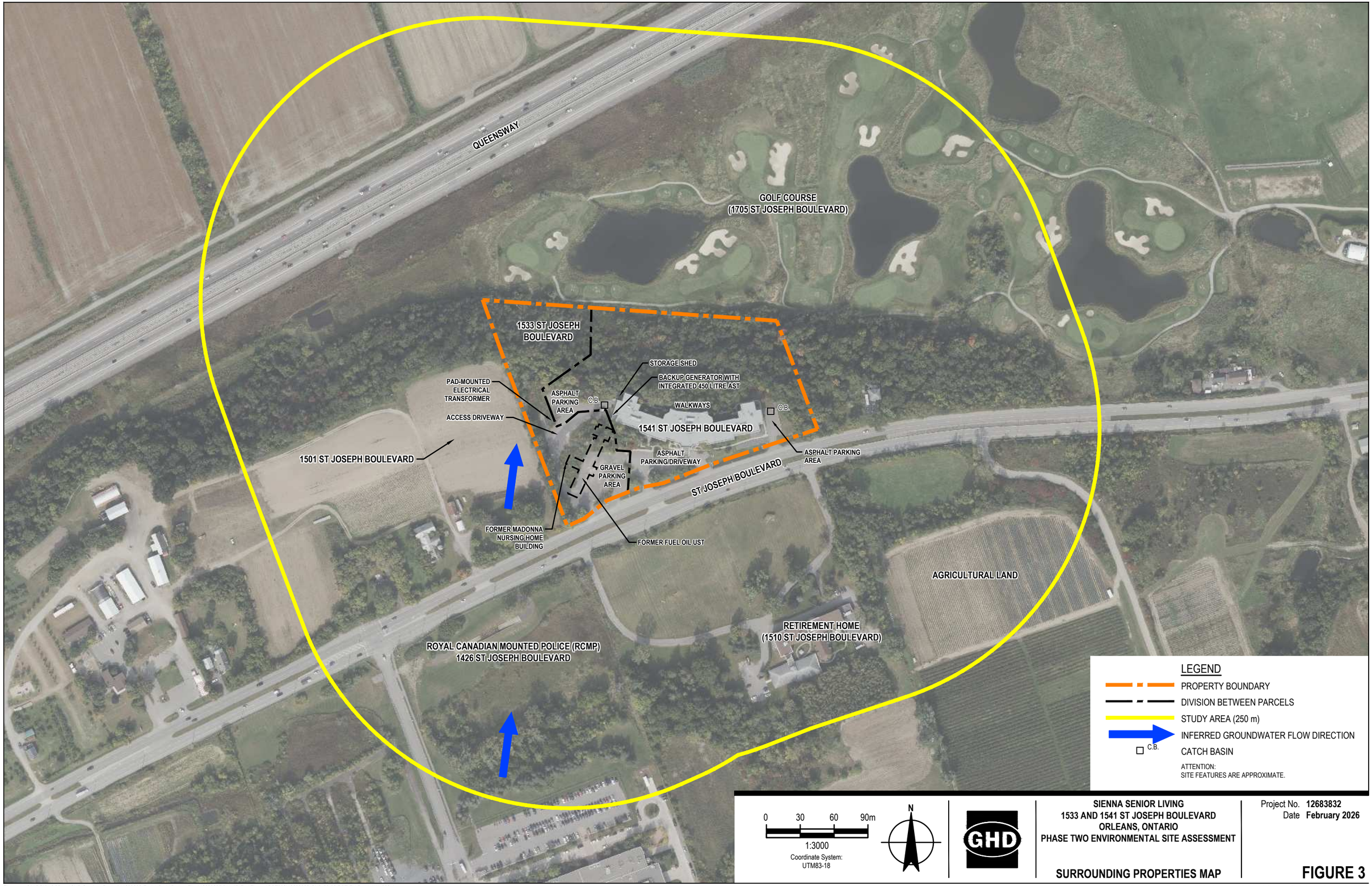

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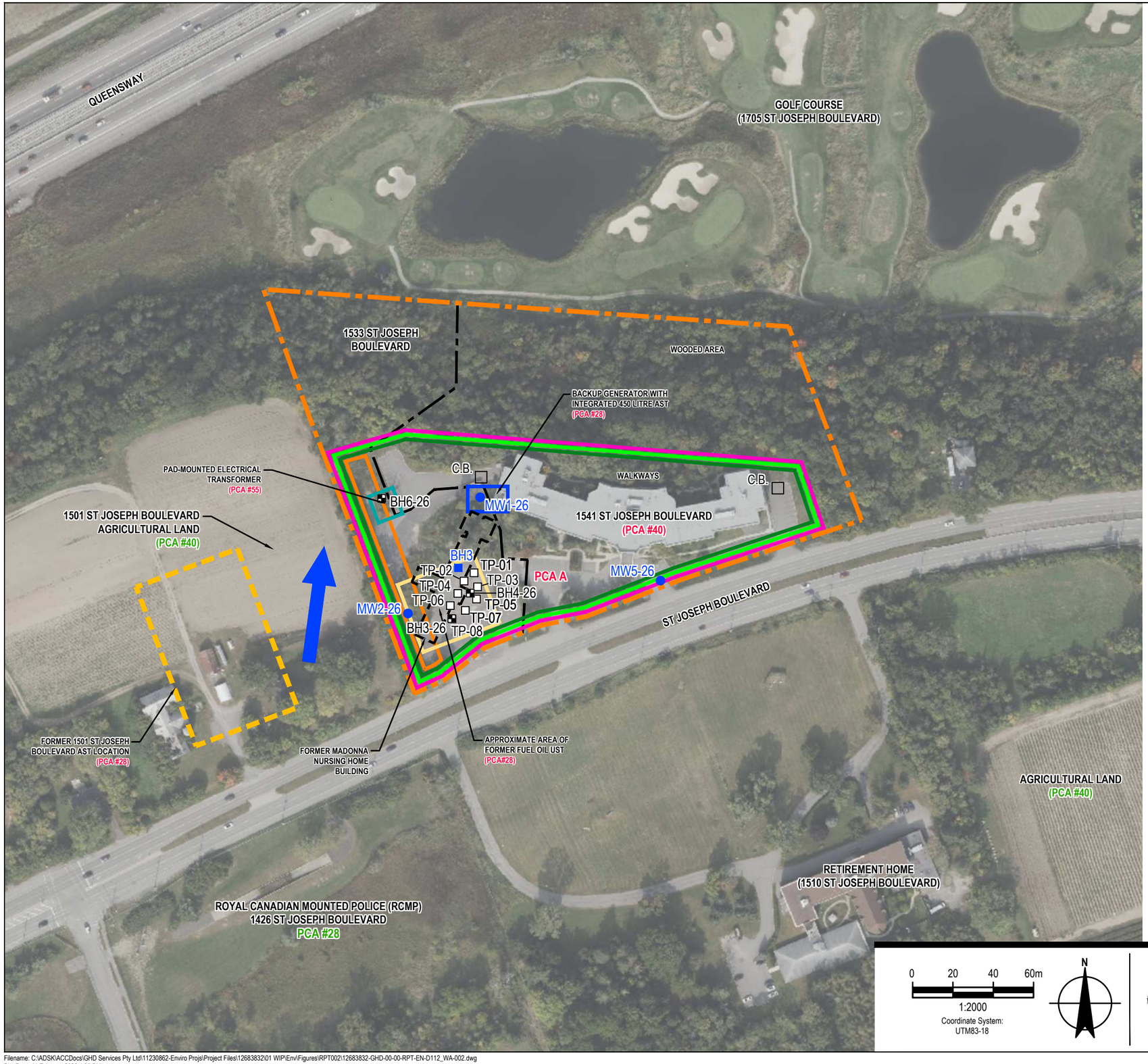
Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2026.



LEGEND

- PROPERTY BOUNDARY
- DIVISION BETWEEN PARCELS
- C.B. CATCH BASIN
- MONITORING WELL (GHD, 2026)
- BOREHOLE LOCATION (GHD, 2026)
- GEOTECH MONITORING WELL LOCATION
- TEST PIT LOCATION (GHD, 2024)
- INFERRED GROUNDWATER FLOW DIRECTION
- PCA #28 CONTRIBUTING PCA
- PCA #40 NON-CONTRIBUTING PCA
- **APEC #1** FORMER FUEL OIL UNDERGROUND STORAGE TANK (1533 PROPERTY PARCEL; PCA #28)
- **APEC #2** DIESEL POWERED BACKUP GENERATOR WITH ABOVEGROUND STORAGE TANK (1541 PROPERTY PARCEL; PCA #28)
- **APEC #3** FORMER FUEL ASTs (1501 ST JOSEPH BOULEVARD) (PCA #28)
- **APEC #4** POTENTIAL PESTICIDE USE (PCA #40)
- **APEC #5** PAD MOUNTED TRANSFORMER (1533 PROPERTY PARCEL; PCA #55)
- **APEC #6** FILL MATERIALS OF UNKNOWN QUALITY (PCA #30)
- **APEC #7** ROAD SALT USE (PCA A)

ATTENTION:
SITE FEATURES ARE APPROXIMATE.

PCAs POTENTIALLY CONTRIBUTING TO APECs ON THE SITE

28 - GASOLINE AND ASSOCIATED PRODUCTS STORAGE IN FIXED TANKS
30 - IMPORTATION OF FILL OF UNKNOWN QUALITY
40 - PESTICIDES [INCLUDING HERBICIDES, FUNGICIDES AND ANTI-FOULING AGENTS] MANUFACTURING, PROCESSING, BULK STORAGE AND LARGE-SCALE APPLICATIONS
55 - TRANSFORMER MANUFACTURING PROCESSING AND USE
A - APPLICATION OF DE-ICING AGENTS

0 20 40 60m
1:2000
Coordinate System: UTM83-18

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GHD

SIENNA SENIOR LIVING
1533 AND 1541 ST JOSEPH BOULEVARD
ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE CONCEPTUAL SITE MODEL

Project No. **12683832**
Date **February 2026**

FIGURE 4

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Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2026.

A

A'

B

B'

BH6-26

MW1-26

1533 ST JOSEPH BOULEVARD

BH3

TP-01

TP-02

TP-03

TP-04

GRAVEL PARKING AREA

BH4-26

TP-05

TP-06

TP-07

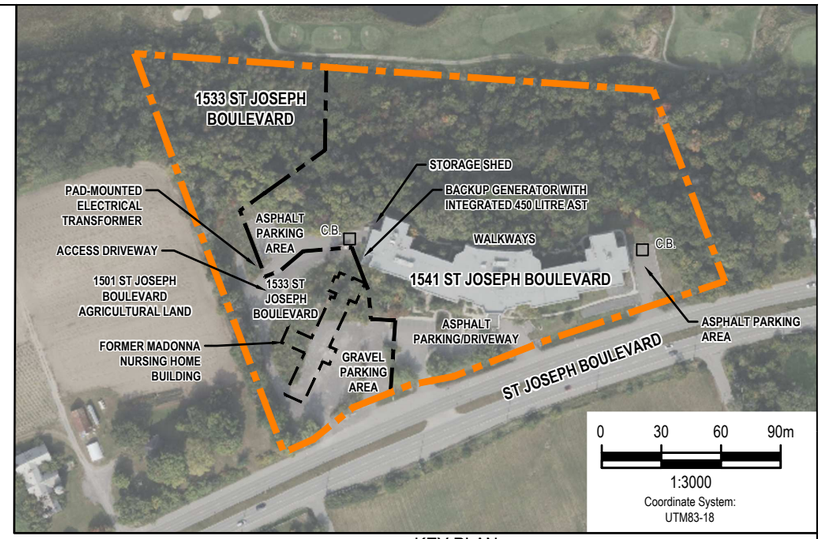
MW2-26

BH3-26

TP-08

MW5-26

ST JOSEPH BOULEVARD



KEY PLAN

LEGEND

- PROPERTY BOUNDARY
- DIVISION BETWEEN PARCELS
- C.B. CATCH BASIN
- MONITORING WELL (GHD, 2026)
- BOREHOLE LOCATION (GHD, 2026)
- GEOTECH MONITORING WELL LOCATION
- TEST PIT LOCATION (GHD, 2024)
- A — A' LOCATION OF CROSS-SECTION

ATTENTION:
SITE FEATURES ARE APPROXIMATE.

0 4 8 12m
1:400
Coordinate System: UTM83-18

N

GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CROSS-SECTION LOCATIONS

Project No. **12683832**
Date **February 2026**

FIGURE 5

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D106_WA-002.dwg
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Data Source: CAN_ON_ESRI_Assessment_Parcel, Orleans, Ontario, September 17, 2024
Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2024

KEY PLAN

BH4-26	1/14/2026 0.00-0.75	1/14/2026 0.75-1.50
EC	0.702	0.247
SAR	6.68	1.58

MW2-26	1/13/2026 0.00-0.76	1/13/2026 3.35-3.66
EC	0.615	0.148/0.159
SAR	7.21	1.01/0.92

MW5-26	1/13/2026 0.91-1.52	1/13/2026 1.98-2.44
EC	0.710	0.663
SAR	12.7	5.93

		Table 3
Parameters	Units	RPI Med/Fine
EC	mS/cm	0.7
SAR	none	5

LEGEND

- PROPERTY BOUNDARY
- DIVISION BETWEEN PARCELS
- C.B. CATCH BASIN
- MONITORING WELL (GHD, 2026)
- BOREHOLE LOCATION (GHD, 2026)
- GEOTECH MONITORING WELL LOCATION
- TEST PIT LOCATION (GHD, 2024)

ATTENTION:
SITE FEATURES ARE APPROXIMATE.

10 CONCENTRATION EXCEEDS STANDARDS (SEE NOTE 1)

MEETS STANDARDS

MW5-26	1/13/2026	1/13/2026	← SAMPLE LOCATION
	0.91-1.52	1.98-2.44	← SAMPLE DATE (mm/dd/yyyy) / DEPTH (m BGS)
EC	0.710	0.663	
SAR	12.7	5.93	← RESULT (ug/g)

← PARAMETER

NOTES:

1) IN ACCORDANCE WITH PARAGRAPH 1 OF SECTION 49.1 OF O. REG. 153/04, ANY ON-SITE EXCEEDANCES OF ELECTRICAL CONDUCTIVITY (EC) AND SODIUM ADSORPTION RATIO (SAR) ASSOCIATED WITH THE APPLICATION OF THE ROAD SALT WOULD BE DEEMED AS HAVING MET THE APPLICABLE SITE CONDITION STANDARDS FOR RSC FILING PURPOSES

2) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

0 4 8 12m
1:400
Coordinate System: UTM83-18

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GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

LATERAL EXTENT OF SOIL IMPACTS EC & SAR

Project No. **12683832**
Date **February 2026**

FIGURE 6

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D103_WA-002.dwg
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Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2024

KEY PLAN

MW5-26	1/13/2026 0.91-1.52	1/13/2026 1.98-2.44
Benzo(a)pyrene	ND(0.050)	**0.485**
Fluoranthene	0.072	**1.10**

		Table 3
Parameters	Units	RPI Med/Fine
Benzo(a)pyrene	mg/kg	0.3
Fluoranthene	mg/kg	0.69

LEGEND

- PROPERTY BOUNDARY
- DIVISION BETWEEN PARCELS
- C.B. CATCH BASIN
- MONITORING WELL (GHD, 2026)
- BOREHOLE LOCATION (GHD, 2026)
- GEOTECH MONITORING WELL LOCATION
- TEST PIT LOCATION (GHD, 2024)

ATTENTION:
SITE FEATURES ARE APPROXIMATE.

10 CONCENTRATION EXCEEDS STANDARDS
EXCEEDS STANDARDS
MEETS STANDARDS

MW5-26	1/13/2026	1/13/2026	SAMPLE LOCATION
	0.91-1.52	1.98-2.44	SAMPLE DATE (mm/dd/yyyy)
Benzo(a)pyrene	ND(0.050)	**0.485**	DEPTH (m BGS)
Fluoranthene	0.072	**1.10**	RESULT (ug/g)
			PARAMETER

0 4 8 12m
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Coordinate System: UTM83-18

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GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

LATERAL EXTENT OF SOIL IMPACTS
PAHs

Project No. **12683832**
Date **February 2026**

FIGURE 7

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

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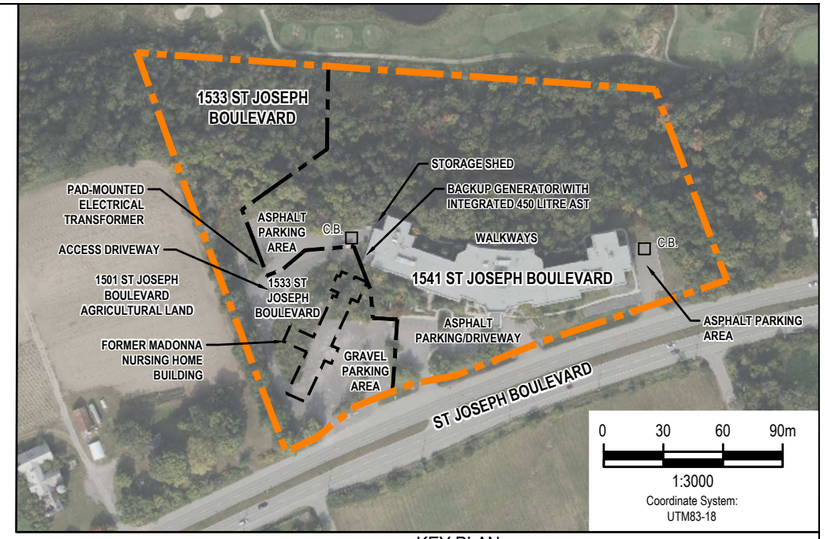
Plot Date: 09 February 2026 3:54 PM

BH6-26	1/12/2026 0.76-1.52	1/12/2026 1.52-2.44
Cobalt	9.20	37.3



KEY PLAN

		Table 3
Parameters	Units	RPI Med/Fine
Cobalt	mg/kg	22

LEGEND

- PROPERTY BOUNDARY
- DIVISION BETWEEN PARCELS
- C.B. CATCH BASIN
- MONITORING WELL (GHD, 2026)
- BOREHOLE LOCATION (GHD, 2026)
- GEOTECH MONITORING WELL LOCATION
- TEST PIT LOCATION (GHD, 2024)

ATTENTION:
SITE FEATURES ARE APPROXIMATE.

- 10 CONCENTRATION EXCEEDS STANDARDS
- EXCEEDS STANDARDS
- MEETS STANDARDS

			SAMPLE LOCATION
BH6-26	1/12/2026	1/12/2026	SAMPLE DATE (mm/dd/yyyy)
	0.76-1.52	1.52-2.44	DEPTH (m BGS)
Cobalt	9.20	37.3	RESULT (ug/g)
			PARAMETER

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

0 4 8 12m
1:400
Coordinate System: UTM83-18

N

GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

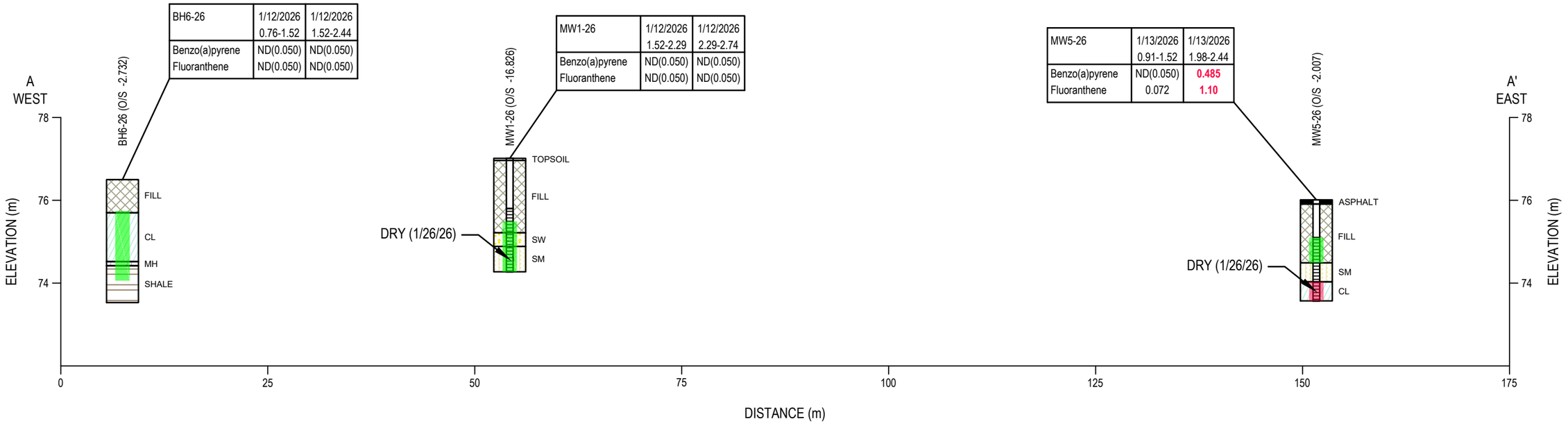
LATERAL EXTENT OF SOIL IMPACTS METALS

Project No. **12683832**
Date **February 2026**

FIGURE 8

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D105_WA-002.dwg
Plot Date: 09 February 2026 3:51 PM

Data Source: CAN_ON_ESRI_Assessment_Parcel, Orleans, Ontario, September 17, 2024
Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2024



MW1-26 (O/S -16.826)

- BORING/MONITORING WELL LOCATION
- GROUND SURFACE ELEVATION
- SCREENED INTERVAL
- END OF BOREHOLE

ASPHALT
TOPSOIL
FILL
SW
SM
CL
MH
SHALE

MW5-26	1/13/2026	1/13/2026	SAMPLE LOCATION
	0.91-1.52	1.98-2.44	SAMPLE DATE / SAMPLE DEPTH
Benzo(a)pyrene	ND(0.050)	0.485	RESULT
Fluoranthene	0.072	1.10	RESULT

PARAMETER

BOLD SAMPLE EXCEEDS TABLE 3 CRITERIA

EXCEEDS STANDARDS

MEETS STANDARDS

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

Parameters	Table 3 SCS
	RPI MED/FINE
Benzo(a)pyrene	0.3
Fluoranthene	0.69

HORIZONTAL
1:500
0 5 10 15

VERTICAL
1:100
0 1 2 3

GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

VERTICAL EXTENT OF SOIL IMPACTS (PAHs) CROSS-SECTION A-A'

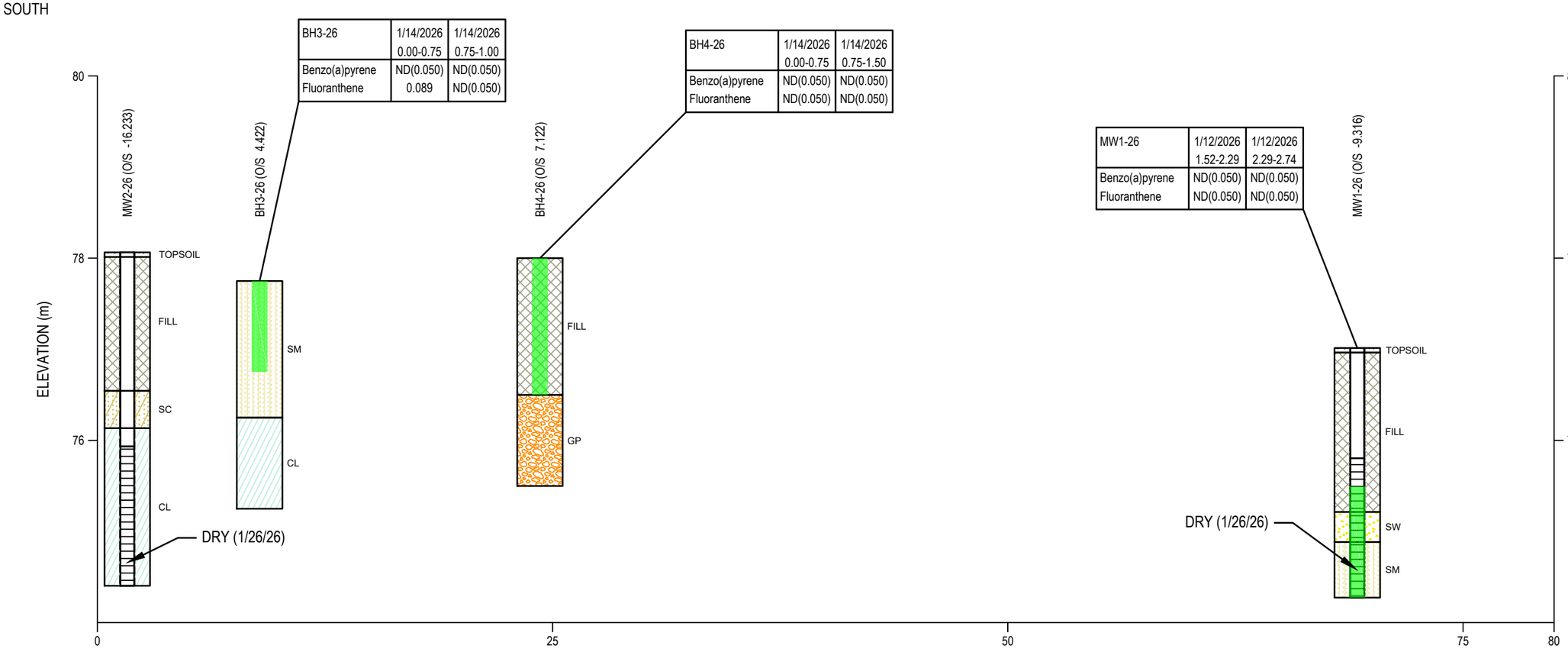
Project No. **12683832**
Date **February 2026**

FIGURE 9A

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D107_WA-002.dwg
Plot Date: 09 February 2026 1:41 PM

B
SOUTH

B'
NORTH



BH3-26	1/14/2026 0.00-0.75	1/14/2026 0.75-1.00
Benzo(a)pyrene	ND(0.050)	ND(0.050)
Fluoranthene	0.089	ND(0.050)

BH4-26	1/14/2026 0.00-0.75	1/14/2026 0.75-1.50
Benzo(a)pyrene	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.050)	ND(0.050)

MW1-26	1/12/2026 1.52-2.29	1/12/2026 2.29-2.74
Benzo(a)pyrene	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.050)	ND(0.050)

MW1-26 (O/S -16.826)
BORING/MONITORING WELL LOCATION
GROUND SURFACE ELEVATION
SCREENED INTERVAL
END OF BOREHOLE

ASPHALT
TOPSOIL
FILL
SW
SM
SC
CL
MH
GP
SHALE
TILL

MW1-26	1/12/2026 1.52-2.29	1/12/2026 2.29-2.74
Benzo(a)pyrene	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.050)	ND(0.050)

SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
RESULT
PARAMETER

MEETS STANDARDS

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

Parameters	Table 3 SCS
	RPI MED/FINE
Benzo(a)pyrene	0.3
Fluoranthene	0.69

HORIZONTAL
1:250
0 2.5 5 7.5
0 0.5 1 1.5
VERTICAL
1:50

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

VERTICAL EXTENT OF SOIL IMPACTS (PAHs)
CROSS-SECTION B-B'

Project No. **12683832**
Date **February 2026**

FIGURE 9B

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D108_WA-002.dwg
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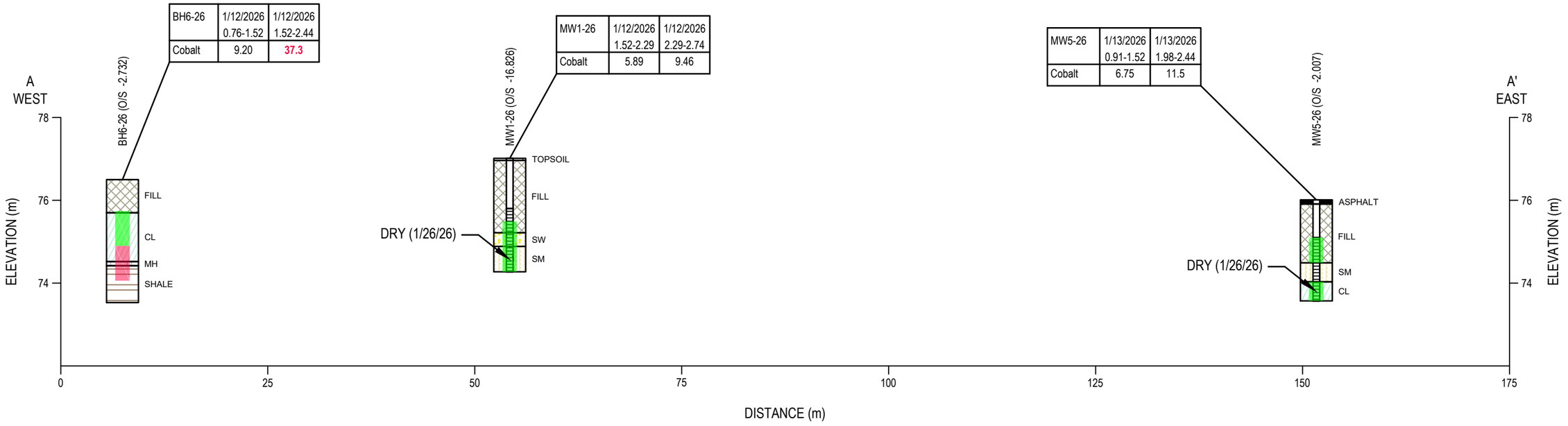


MW1-26 (O/S -16.826)

- BORING/MONITORING WELL LOCATION
- GROUND SURFACE ELEVATION
- SCREENED INTERVAL
- END OF BOREHOLE

ASPHALT
TOPSOIL
FILL
SW
SM
CL
MH
SHALE

BH6-26	1/12/2026	1/12/2026
	0.76-1.52	1.52-2.44
Cobalt	9.20	**37.3**

SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
RESULT
PARAMETER

BOLD SAMPLE EXCEEDS TABLE 3 CRITERIA
EXCEEDS STANDARDS
MEETS STANDARDS

Parameters	Table 3 SCS
	RPI MED/FINE
Cobalt	22

HORIZONTAL
1:500
0 5 10 15
0 1 2 3
VERTICAL
1:100

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

VERTICAL EXTENT OF SOIL IMPACTS (METALS)
CROSS-SECTION A-A'

Project No. **12683832**
Date **February 2026**

FIGURE 10A

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D109_WA-002.dwg
Plot Date: 09 February 2026 1:40 PM

B
SOUTH

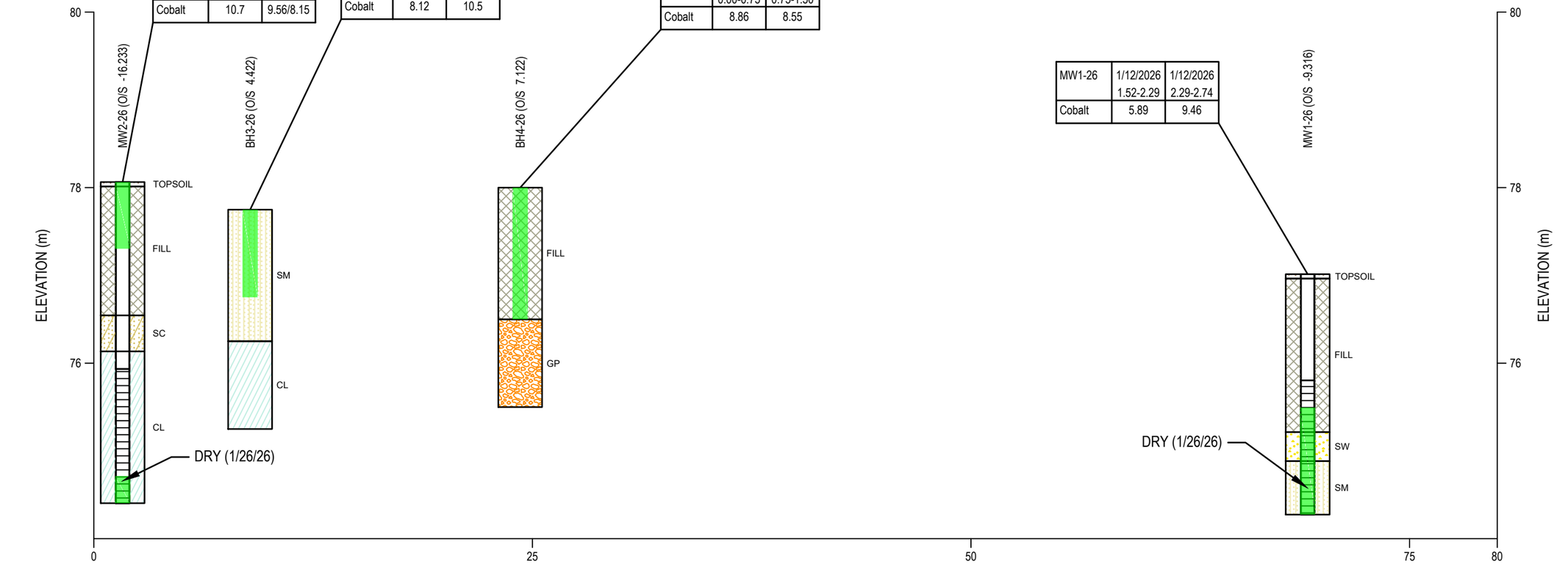
B'
NORTH

MW2-26	1/13/2026 0.00-0.76	1/13/2026 3.35-3.66
Cobalt	10.7	9.56/8.15

BH3-26	1/14/2026 0.00-0.75	1/14/2026 0.75-1.00
Cobalt	8.12	10.5

BH4-26	1/14/2026 0.00-0.75	1/14/2026 0.75-1.50
Cobalt	8.86	8.55

MW1-26	1/12/2026 1.52-2.29	1/12/2026 2.29-2.74
Cobalt	5.89	9.46



MW1-26 (O/S -16.826)

BORING/MONITORING WELL LOCATION

GROUND SURFACE ELEVATION

SCREENED INTERVAL

END OF BOREHOLE

TOPSOIL
TOPSOIL
FILL
SW
SM
SC
CL
MH
GP
SHALE
TILL

BH3-26	1/14/2026	1/14/2026	SAMPLE LOCATION
	0.00-0.75	0.75-1.00	SAMPLE DATE / SAMPLE DEPTH
Cobalt	8.12	10.5	RESULT
			PARAMETER

MEETS STANDARDS

NOTE:

1) "SOIL, GROUNDWATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", DATED APRIL 15, 2011. TABLE 3: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A NON-POTABLE GROUND WATER CONDITION, RESIDENTIAL/PARKLAND/INSTITUTIONAL PROPERTY USE, FOR MEDIUM/FINE-TEXTURED SOILS (MECP TABLE 3 STANDARDS)

Parameters	Table 3 SCS
	RPI MED/FINE
Cobalt	22

HORIZONTAL
1:250
0 2.5 5 7.5
0 0.5 1 1.5
VERTICAL
1:50

GHD

SIENNA SENIOR LIVING
1541 ST JOSEPH BOULEVARD, ORLEANS, ONTARIO
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

VERTICAL EXTENT OF SOIL IMPACTS (METALS)
CROSS-SECTION B-B'

Project No. **12683832**
Date **February 2026**

FIGURE 10B

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\12683832\01 WIP\Env\Figures\RPT002\12683832-GHD-00-00-RPT-EN-D110_WA-002.dwg
Plot Date: 09 February 2026 1:40 PM

Tables

Table 1

Sample Identification Key and Analytical Parameter List
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location	Sample Date	Sample ID	Depth (mBGS)	Laboratory Certificate of Analysis	Sample Analysis										
					VOC/BTEX	*PHC F_1-F_4*	*PAHs*	*Metals and Inogrcanics*	*PCBs*	*Electrical Conductivity and Sodium Adsorption Ratio*	*pH*	*Trip Blank VOC/F1 BTEX*	*Grain Size*	*O.Reg 153 + 406 OCPs*	*F_1/BTEX*
Soil Samples															
MW1-26	1/12/2026	S-12683832-120126-MRW-001	1.52-2.29	WT2600875	X	X	X	X							
MW1-26	1/12/2026	S-12683832-120126-MRW-002	2.29-2.74	WT2600875	X	X	X	X					X		
BH6-26	1/12/2026	S-12683832-120126-MRW-003	0.76-1.52	WT2600875	X	X	X	X	X						
BH6-26	1/12/2026	S-12683832-120126-MRW-004	1.52-2.44	WT2600875	X	X	X	X	X				X	X	
MW2-26	1/13/2026	S-12683832-130126-MRW-005	0-0.76	WT2600875	X			X							
MW2-26	1/13/2026	S-12683832-130126-MRW-006	3.35-3.66	WT2600875	X			X					X	X	
MW2-26 (Field Duplicate)	1/13/2026	S-12683832-130126-MRW-007	3.35-3.66	WT2600875	X			X							
MW5-26	1/13/2026	S-12683832-130126-MRW-008	0.91-1.52	WT2600875	X	X	X	X							
MW5-26	1/13/2026	S-12683832-130126-MRW-009	1.98-2.44	WT2600875	X	X	X	X						X	
MW5-26 (Field Duplicate)	1/13/2026	S-12683832-130126-MRW-010	1.98-2.44	WT2600875	X										
BH4-26	1/14/2026	S-12683832-140126-MRW-011	0-0.75	WT2600875	X	X	X	X					X		
BH4-26	1/14/2026	S-12683832-140126-MRW-012	0.75-1.5	WT2600875	X	X	X	X							
BH3-26	1/14/2026	S-12683832-140126-MRW-013	0-0.75	WT2600875	X	X	X	X		X	X				
BH3-26	1/14/2026	S-12683832-140126-MRW-014	0.75-1.0	WT2600875	X	X	X	X		X	X		X		
TP-01	10/31/2024	S-12650439-102924-MRW-TP01	1.22-1.37	WT2432758	X	X									
TP-01 (Field Duplicate)	10/31/2024	S-12650439-102924-MRW-TP09	1.22-1.37	WT2432758	X	X									
TP-05	10/31/2024	S-12650439-102924-MRW-TP05	1.22-1.37	WT2432758	X	X									
TP-07	10/31/2024	S-12650439-102924-MRW-TP07	1.22-1.37	WT2432758	X	X									
TP-08	10/31/2024	S-12650439-102924-MRW-TP08	0.91-1.22	WT2432758	X	X									
Trip Blank	1/14/2026	TRIP BLANK	--	WT2600875								X			
Groundwater Samples															
BH3	10/31/2024	GW-12650439-103124-BH3	--	WT2432757		X									X

Notes:
BTEX - benzene, toluene, ethylbenzene, and xylenes
mBGS- metres Below Ground Surface
PHCs- Petroleum Hydrocarbon Fractions F1 to F4
PAHs- Polycyclic Aromatic Hydrocarbons
PCBs- Polychlorinated Biphenyls
VOCs -Volatile Organic Compounds
- Not applicable

Summary of Monitoring Well Completion Details
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Well No.	Completion Date	Ground Elevation	Top of Riser Elevation	UTM-18 NAD 83 (2010)CSRS		Total Depth Drilled	Screened Interval				Sand Pack Interval				Screened Geologic Material
				Northings (Y)	Eastings (X)		Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
		(mAMSL)	(mAMSL)	(m)	(m)	(mBGS)	(mBGS)		(mAMSL)		(mBGS)		(mAMSL)		
GHD Monitoring Wells															
MW1-26	13-Jan-26	77.010	77.840	5034262.305	456133.7022	2.74	1.21	2.74	75.80	74.27	0.91	2.74	76.10	74.27	Sand/Clay (Native)
MW2-26	13-Jan-26	78.06	78.06	5034204.64	456097.8503	3.66	2.13	3.66	75.93	74.4	1.83	2.13	76.23	75.93	Clayey Silt (Fill) Sand/Silty Sand (Native)
MW5-26	13-Jan-26	76.01	76.01	5034220.981	456223.1662	2.44	0.91	2.44	75.10	73.57	0.61	2.44	75.40	73.57	Silt (Fill) Silty Sand/Silty Clay (Native)

Notes:
mAMSL metres Above Mean Sea Level
mBGS metres Below Ground Surface

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			TP-01	TP-01	TP-05	TP-07	TP-08	MW1-26	MW1-26	MW2-26
Sample ID:			S-12650439-102924-MRW-TP01	S-12650439-102924-MRW-TP09	S-12650439-102924-MRW-TP05	S-12650439-102924-MRW-TP07	S-12650439-102924-MRW-TP08	S-12683832-120126-MRW-001	S-12683832-120126-MRW-002	S-12683832-130126-MRW-005
Sample Date:			10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	1/12/2026	1/12/2026	1/13/2026
Sample Depth:			1.22-1.37	1.22-1.37	1.22-1.37	1.22-1.37	0.91-1.22	1.52-2.29	2.29-2.74	0.00-0.76
		Table 3	WT2432758	WT2432758	WT2432758	WT2432758	WT2432758			
Parameters	**Units**	**RPI Med/Fine**		**Duplicate**						
Polychlorinated Biphenyls			-	-	-	-	-			
Aroclor-1016 (PCB-1016)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	mg/kg	ng	-	-	-	-	-	-	-	-
Total PCBs	mg/kg	0.35	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	3.4	-	-	-	-	-	ND(0.030)	ND(0.030)	-
1-Methylnaphthalene/2-Methylnaphthalene	mg/kg	3.4	-	-	-	-	-	ND(0.050)	ND(0.050)	-
2-Methylnaphthalene	mg/kg	3.4	-	-	-	-	-	ND(0.030)	ND(0.030)	-
Acenaphthene	mg/kg	58	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Acenaphthylene	mg/kg	0.17	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Anthracene	mg/kg	0.74	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Benzo(a)anthracene	mg/kg	0.63	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Benzo(a)pyrene	mg/kg	0.3	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Benzo(b)fluoranthene/Benzo(j)fluoranthene	mg/kg	0.78	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Benzo(g,h,i)perylene	mg/kg	7.8	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Benzo(k)fluoranthene	mg/kg	0.78	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Chrysene	mg/kg	7.8	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Dibenz(a,h)anthracene	mg/kg	0.1	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Fluoranthene	mg/kg	0.69	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Fluorene	mg/kg	69	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.48	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Naphthalene	mg/kg	0.75	-	-	-	-	-	ND(0.010)	ND(0.010)	-
Phenanthrene	mg/kg	7.8	-	-	-	-	-	ND(0.050)	ND(0.050)	-
Pyrene	mg/kg	78	-	-	-	-	-	ND(0.050)	ND(0.050)	-
BTEX										
Benzene	mg/kg	0.17	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	mg/kg	15	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Toluene	mg/kg	6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	mg/kg	ng	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
o-Xylene	mg/kg	ng	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Xylenes (total)	mg/kg	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	mg/kg	ng	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Volatile Organic Compounds					-	-	-			
1,1,1,2-Tetrachloroethane	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	mg/kg	3.4	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	mg/kg	11	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	mg/kg	4.3	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	mg/kg	0.085	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	mg/kg	6	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	mg/kg	0.097	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	44	-	-	-	-	-	ND(0.50)	ND(0.50)	ND(0.50)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	4.3	-	-	-	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	mg/kg	28	-	-	-	-	-	ND(0.50)	ND(0.50)	ND(0.50)
Bromodichloromethane	mg/kg	13	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	mg/kg	0.26	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	mg/kg	0.05	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	mg/kg	0.12	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/kg	2.7	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	mg/kg	0.18	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	mg/kg	30	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	mg/kg	ng	-	-	-	-	-	ND(0.030)	ND(0.030)	ND(0.030)
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene	mg/kg	0.083	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			TP-01	TP-01	TP-05	TP-07	TP-08	MW1-26	MW1-26	MW2-26
Sample ID:			S-12650439-102924-MRW-TP01	S-12650439-102924-MRW-TP09	S-12650439-102924-MRW-TP05	S-12650439-102924-MRW-TP07	S-12650439-102924-MRW-TP08	S-12683832-120126-MRW-001	S-12683832-120126-MRW-002	S-12683832-130126-MRW-005
Sample Date:			10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	1/12/2026	1/12/2026	1/13/2026
Sample Depth:			1.22-1.37	1.22-1.37	1.22-1.37	1.22-1.37	0.91-1.22	1.52-2.29	2.29-2.74	0.00-0.76
		Table 3	WT2432758	WT2432758	WT2432758	WT2432758	WT2432758			
Parameters	**Units**	**RPI Med/Fine**		**Duplicate**						
Dibromochloromethane	mg/kg	9.4	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	mg/kg	25	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Hexane	mg/kg	34	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Methyl tert butyl ether (MTBE)	mg/kg	1.4	-	-	-	-	-	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	mg/kg	0.96	-	-	-	-	-	ND(0.045)	ND(0.045)	ND(0.045)
Styrene	mg/kg	2.2	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	mg/kg	2.3	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,2-Dichloroethene	mg/kg	0.75	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	mg/kg	ng	-	-	-	-	-	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	mg/kg	0.52	-	-	-	-	-	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	mg/kg	5.8	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	mg/kg	0.022	-	-	-	-	-	ND(0.020)	ND(0.020)	ND(0.020)
Pesticides										
2,4'-DDD	mg/kg	ng	-	-	-	-	-	-	-	-
2,4'-DDE	mg/kg	ng	-	-	-	-	-	-	-	-
2,4'-DDT	mg/kg	ng	-	-	-	-	-	-	-	-
4,4'-DDD	mg/kg	ng	-	-	-	-	-	-	-	-
4,4'-DDE	mg/kg	ng	-	-	-	-	-	-	-	-
4,4'-DDT	mg/kg	ng	-	-	-	-	-	-	-	-
Aldrin	mg/kg	0.05	-	-	-	-	-	-	-	-
alpha-Chlordane	mg/kg	ng	-	-	-	-	-	-	-	-
Chlordane	mg/kg	0.05	-	-	-	-	-	-	-	-
Chlordane, technical	mg/kg	ng	-	-	-	-	-	-	-	-
Dieldrin	mg/kg	0.05	-	-	-	-	-	-	-	-
Endosulfan	mg/kg	0.04	-	-	-	-	-	-	-	-
Endosulfan I	mg/kg	ng	-	-	-	-	-	-	-	-
Endosulfan II	mg/kg	ng	-	-	-	-	-	-	-	-
Endrin	mg/kg	0.04	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	mg/kg	0.063	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.15	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.05	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.52	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.014	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	0.071	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.13	-	-	-	-	-	-	-	-
Total DDD	mg/kg	3.3	-	-	-	-	-	-	-	-
Total DDE	mg/kg	0.33	-	-	-	-	-	-	-	-
Total DDT	mg/kg	1.4	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons										
Chromatogram to baseline at nC50	none	ng	YES	YES	YES	YES	YES	YES	YES	YES
Petroleum hydrocarbons F1 (C6-C10)	mg/kg	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Petroleum hydrocarbons F1 minus BTEX	mg/kg	65	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Petroleum hydrocarbons F2 (C10-C16)	mg/kg	150	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 minus Naphthalene	mg/kg	150	-	-	-	-	-	ND(25)	ND(25)	-
Petroleum hydrocarbons F3 (C16-C34)	mg/kg	1300	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Petroleum hydrocarbons F3 minus PAH	mg/kg	1300	-	-	-	-	-	ND(50)	ND(50)	-
Petroleum hydrocarbons F4 (C34-C50)	mg/kg	5600	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Total Petroleum Hydrocarbons (C6-C50)	mg/kg	ng	ND(80)	ND(80)	ND(80)	ND(80)	ND(80)	ND(80)	ND(80)	ND(80)
Metals										
Antimony	mg/kg	7.5	-	-	-	-	-	ND(0.10)	ND(0.10)	ND(0.10)
Arsenic	mg/kg	18	-	-	-	-	-	2.98	3.53	4.85
Barium	mg/kg	390	-	-	-	-	-	109	83.3	130
Beryllium	mg/kg	5	-	-	-	-	-	0.47	0.49	0.51
Boron	mg/kg	120	-	-	-	-	-	37.5	14.2	10.3
Boron (hot water soluble)	mg/kg	1.5	-	-	-	-	-	ND(0.10)	ND(0.10)	ND(0.10)
Cadmium	mg/kg	1.2	-	-	-	-	-	ND(0.200)	ND(0.200)	ND(0.200)
Chromium	mg/kg	160	-	-	-	-	-	16.8	21.4	31.4
Chromium VI (hexavalent)	mg/kg	10	-	-	-	-	-	0.12	0.11	0.11
Cobalt	mg/kg	22	-	-	-	-	-	5.89	9.46	10.7
Copper	mg/kg	180	-	-	-	-	-	13.5	18.8	21.7
Lead	mg/kg	120	-	-	-	-	-	8.95	10.8	10.9
Mercury	mg/kg	1.8	-	-	-	-	-	0.0140	0.0129	0.0158
Molybdenum	mg/kg	6.9	-	-	-	-	-	0.91	1.69	1.27
Nickel	mg/kg	130	-	-	-	-	-	12.5	16.9	21.5

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			TP-01	TP-01	TP-05	TP-07	TP-08	MW1-26	MW1-26	MW2-26
Sample ID:			S-12650439-102924-MRW-TP01	S-12650439-102924-MRW-TP09	S-12650439-102924-MRW-TP05	S-12650439-102924-MRW-TP07	S-12650439-102924-MRW-TP08	S-12683832-120126-MRW-001	S-12683832-120126-MRW-002	S-12683832-130126-MRW-005
Sample Date:			10/31/2024	10/31/2024	10/31/2024	10/31/2024	10/31/2024	1/12/2026	1/12/2026	1/13/2026
Sample Depth:			1.22-1.37	1.22-1.37	1.22-1.37	1.22-1.37	0.91-1.22	1.52-2.29	2.29-2.74	0.00-0.76
		Table 3	WT2432758	WT2432758	WT2432758	WT2432758	WT2432758			
Parameters	**Units**	**RPI Med/Fine**		**Duplicate**						
Selenium	mg/kg	2.4	-	-	-	-	-	ND(0.20)	ND(0.20)	ND(0.20)
Silver	mg/kg	25	-	-	-	-	-	ND(0.10)	ND(0.10)	ND(0.10)
Thallium	mg/kg	1	-	-	-	-	-	0.158	0.224	0.278
Uranium	mg/kg	23	-	-	-	-	-	0.455	0.539	0.610
Vanadium	mg/kg	86	-	-	-	-	-	24.2	31.8	44.2
Zinc	mg/kg	340	-	-	-	-	-	ND(33.0)	ND(33.0)	39.2
			-	-	-	-	-			
SAR Metals			-	-	-	-	-			
Calcium (soluble)	mg/L	ng	-	-	-	-	-	2.46	2.82	11.2
Magnesium (soluble)	mg/L	ng	-	-	-	-	-	13.0	2.43	1.87
Sodium (soluble)	mg/L	ng	-	-	-	-	-	68.6	36.6	99.0
General Chemistry										
Conductivity	mS/cm	0.7	-	-	-	-	-	0.383	0.242	0.615
Cyanide, weak acid dissociable	mg/kg	0.051	-	-	-	-	-	ND(0.050)	ND(0.050)	ND(0.050)
Grain size >75um	%	ng	-	-	-	-	-	-	48.4	-
Grain Size 0.005-0.075	%	ng	-	-	-	-	-	-	51.6	-
Moisture	%	ng	17.3	14.8	9.77	13.7	26.6	10.2	9.22	11.4
pH, soluble (1:2)	s.u.	(5-11) 5-9	-	-	-	-	-	7.77	7.75	7.54
Sodium adsorption ratio (SAR)	none	5	-	-	-	-	-	3.86	3.86	**7.21**
Texture	none	ng	-	-	-	-	-	-	F	-

Notes:

[a] Table 3: Full Depth Generic Site Condition Standards for medium to fine-textured soils in a Non-Potable Ground Water Condition for RPI Property Uses (2011 MECP Table 3 Standards).

- Not applicable
mg/g - Milligram per kilogram
ng -No Guideline
ND - Not detected
J -The result is an estimated quantity. The associated numerical value is the approximate concentration of theanalyte in the sample.

0.702 Parameter exceeds guidelines

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			MW2-26	MW2-26	BH3-26	BH3-26	BH4-26	BH4-26	MW5-26	MW5-26
Sample ID:			S-12683832-130126-MRW-006	S-12683832-130126-MRW-007	S-12683832-140126-MRW-013	S-12683832-140126-MRW-014	S-12683832-140126-MRW-011	S-12683832-140126-MRW-012	S-12683832-130126-MRW-008	S-12683832-130126-MRW-009
Sample Date:			1/13/2026	1/13/2026	1/14/2026	1/14/2026	1/14/2026	1/14/2026	1/13/2026	1/13/2026
Sample Depth:			3.35-3.66	3.35-3.66	0.00-0.75	0.75-1.00	0.00-0.75	0.75-1.50	0.91-1.52	1.98-2.44
Parameters	Units	Table 3 RPI Med/Fine		Duplicate						
Polychlorinated Biphenyls										
Aroclor-1016 (PCB-1016)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	mg/kg	ng	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	mg/kg	ng	-	-	-	-	-	-	-	-
Total PCBs	mg/kg	0.35	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons										
1-Methylnaphthalene	mg/kg	3.4	-	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
1-Methylnaphthalene/2-Methylnaphthalene	mg/kg	3.4	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Methylnaphthalene	mg/kg	3.4	-	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Acenaphthene	mg/kg	58	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Acenaphthylene	mg/kg	0.17	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.051
Anthracene	mg/kg	0.74	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.099
Benzo(a)anthracene	mg/kg	0.63	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.422
Benzo(a)pyrene	mg/kg	0.3	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	**0.485**
Benzo(b)fluoranthene/Benzo(j)fluoranthene	mg/kg	0.78	-	-	0.066	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.650
Benzo(g,h,i)perylene	mg/kg	7.8	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.293
Benzo(k)fluoranthene	mg/kg	0.78	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.241
Chrysene	mg/kg	7.8	-	-	0.053	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.525
Dibenz(a,h)anthracene	mg/kg	0.1	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.075
Fluoranthene	mg/kg	0.69	-	-	0.089	ND(0.050)	ND(0.050)	ND(0.050)	0.072	**1.10**
Fluorene	mg/kg	69	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Indeno(1,2,3-cd)pyrene	mg/kg	0.48	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.325
Naphthalene	mg/kg	0.75	-	-	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	mg/kg	7.8	-	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.516
Pyrene	mg/kg	78	-	-	0.074	ND(0.050)	ND(0.050)	ND(0.050)	0.057	0.863
BTEX										
Benzene	mg/kg	0.17	ND(0.0050)	-	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	mg/kg	15	ND(0.015)	-	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Toluene	mg/kg	6	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	mg/kg	ng	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
o-Xylene	mg/kg	ng	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Xylenes (total)	mg/kg	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Total BTEX	mg/kg	ng	ND(0.10)	-	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	mg/kg	3.4	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	mg/kg	11	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	mg/kg	4.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	mg/kg	0.085	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	mg/kg	6	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	mg/kg	0.097	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	44	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	4.3	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	mg/kg	28	ND(0.50)	-	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromodichloromethane	mg/kg	13	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	mg/kg	0.26	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	mg/kg	0.05	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	mg/kg	0.12	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/kg	2.7	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	mg/kg	0.18	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	mg/kg	30	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	mg/kg	ng	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene	mg/kg	0.083	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			**MW2-26**	**MW2-26**	**BH3-26**	**BH3-26**	**BH4-26**	**BH4-26**	**MW5-26**	**MW5-26**
Sample ID:			**S-12683832-130126-MRW-006**	**S-12683832-130126-MRW-007**	**S-12683832-140126-MRW-013**	**S-12683832-140126-MRW-014**	**S-12683832-140126-MRW-011**	**S-12683832-140126-MRW-012**	**S-12683832-130126-MRW-008**	**S-12683832-130126-MRW-009**
Sample Date:			**1/13/2026**	**1/13/2026**	**1/14/2026**	**1/14/2026**	**1/14/2026**	**1/14/2026**	**1/13/2026**	**1/13/2026**
Sample Depth:			**3.35-3.66**	**3.35-3.66**	**0.00-0.75**	**0.75-1.00**	**0.00-0.75**	**0.75-1.50**	**0.91-1.52**	**1.98-2.44**
		Table 3		**Duplicate**						
Parameters	**Units**	**RPI Med/Fine**								
Dibromochloromethane	mg/kg	9.4	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	mg/kg	25	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Hexane	mg/kg	34	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Methyl tert butyl ether (MTBE)	mg/kg	1.4	ND(0.040)	-	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	mg/kg	0.96	ND(0.045)	-	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
Styrene	mg/kg	2.2	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	mg/kg	2.3	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,2-Dichloroethene	mg/kg	0.75	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	mg/kg	ng	ND(0.030)	-	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	mg/kg	0.52	ND(0.010)	-	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	mg/kg	5.8	ND(0.050)	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	mg/kg	0.022	ND(0.020)	-	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Pesticides										
2,4'-DDD	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
2,4'-DDE	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
2,4'-DDT	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
4,4'-DDD	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	0.00214
4,4'-DDE	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	0.00961
4,4'-DDT	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	0.00169
Aldrin	mg/kg	0.05	ND(0.00020)	-	-	-	-	-	-	ND(0.00052) DLM
alpha-Chlordane	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
Chlordane	mg/kg	0.05	ND(0.00042)	-	-	-	-	-	-	ND(0.00148)
Chlordane, technical	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
Dieldrin	mg/kg	0.05	ND(0.00020)	-	-	-	-	-	-	0.00107
Endosulfan	mg/kg	0.04	ND(0.00042)	-	-	-	-	-	-	ND(0.00148)
Endosulfan I	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
Endosulfan II	mg/kg	ng	ND(0.00030)	-	-	-	-	-	-	ND(0.00105) DLM
Endrin	mg/kg	0.04	ND(0.00050)	-	-	-	-	-	-	ND(0.00105) DLM
gamma-BHC (lindane)	mg/kg	0.063	ND(0.00020)	-	-	-	-	-	-	ND(0.00026) DLM
Heptachlor	mg/kg	0.15	ND(0.00020)	-	-	-	-	-	-	ND(0.00026) DLM
Heptachlor epoxide	mg/kg	0.05	ND(0.00020)	-	-	-	-	-	-	ND(0.00052) DLM
Hexachlorobenzene	mg/kg	0.52	ND(0.00050)	-	-	-	-	-	-	ND(0.00105) DLM
Hexachlorobutadiene	mg/kg	0.014	ND(0.00050)	-	-	-	-	-	-	ND(0.00105) DLM
Hexachloroethane	mg/kg	0.071	ND(0.00050)	-	-	-	-	-	-	ND(0.00105) DLM
Methoxychlor	mg/kg	0.13	ND(0.00050)	-	-	-	-	-	-	ND(0.00105) DLM
Total DDD	mg/kg	3.3	ND(0.00042)	-	-	-	-	-	-	0.00214
Total DDE	mg/kg	0.33	ND(0.00042)	-	-	-	-	-	-	0.00961
Total DDT	mg/kg	1.4	ND(0.00042)	-	-	-	-	-	-	0.00169
Petroleum Hydrocarbons										
Chromatogram to baseline at nC50	none	ng	YES	-	YES	YES	YES	YES	YES	YES
Petroleum hydrocarbons F1 (C6-C10)	mg/kg	65	ND(5.0)	-	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Petroleum hydrocarbons F1 minus BTEX	mg/kg	65	ND(5.0)	-	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Petroleum hydrocarbons F2 (C10-C16)	mg/kg	150	ND(10)	-	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Petroleum hydrocarbons F2 minus Naphthalene	mg/kg	150	-	-	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
Petroleum hydrocarbons F3 (C16-C34)	mg/kg	1300	ND(50)	-	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Petroleum hydrocarbons F3 minus PAH	mg/kg	1300	-	-	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Petroleum hydrocarbons F4 (C34-C50)	mg/kg	5600	ND(50)	-	101	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Total Petroleum Hydrocarbons (C6-C50)	mg/kg	ng	ND(80)	-	101	ND(80)	ND(80)	ND(80)	ND(80)	ND(80)
Metals										
Antimony	mg/kg	7.5	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	0.23
Arsenic	mg/kg	18	4.52	3.67	4.16	3.52	3.58	3.24	2.97	11.0
Barium	mg/kg	390	151	158	118	150	63.8	167	95.2	192
Beryllium	mg/kg	5	0.43	0.36	0.40	0.48	0.44	0.34	0.38	0.73
Boron	mg/kg	120	12.6	11.0	7.5	12.7	10.9	8.5	11.0	11.7
Boron (hot water soluble)	mg/kg	1.5	ND(0.10)	ND(0.10)	0.89	0.11	0.14	ND(0.10)	0.59	0.42
Cadmium	mg/kg	1.2	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	0.373
Chromium	mg/kg	160	21.0	18.1	35.2	23.0	22.1	17.7	24.0	36.9
Chromium VI (hexavalent)	mg/kg	10	ND(0.10)	ND(0.10)	0.24	ND(0.10)	0.11	ND(0.10)	ND(0.10)	ND(0.10)
Cobalt	mg/kg	22	9.56	8.15	8.12	10.5	8.86	8.55	6.75	11.5
Copper	mg/kg	180	15.7	12.8	17.2	16.3	15.8	15.2	11.7	16.2
Lead	mg/kg	120	12.0	8.64	15.5	8.60	9.24	8.49	8.73	21.0
Mercury	mg/kg	1.8	0.0106	0.0138	0.0698	0.0171	0.0180	0.0081	0.0216	0.0669
Molybdenum	mg/kg	6.9	2.11	1.68	0.52	1.28	1.28	1.71	0.89	1.34
Nickel	mg/kg	130	19.0	15.8	19.4	18.6	16.7	14.8	15.1	23.2

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			MW2-26	MW2-26	BH3-26	BH3-26	BH4-26	BH4-26	MW5-26	MW5-26
Sample ID:			S-12683832-130126-MRW-006	S-12683832-130126-MRW-007	S-12683832-140126-MRW-013	S-12683832-140126-MRW-014	S-12683832-140126-MRW-011	S-12683832-140126-MRW-012	S-12683832-130126-MRW-008	S-12683832-130126-MRW-009
Sample Date:			1/13/2026	1/13/2026	1/14/2026	1/14/2026	1/14/2026	1/14/2026	1/13/2026	1/13/2026
Sample Depth:			3.35-3.66	3.35-3.66	0.00-0.75	0.75-1.00	0.00-0.75	0.75-1.50	0.91-1.52	1.98-2.44
				Duplicate						
Parameters	**Units**	**Table 3 RPI Med/Fine**								
Selenium	mg/kg	2.4	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.41
Silver	mg/kg	25	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	0.14
Thallium	mg/kg	1	0.335	0.239	0.136	0.227	0.221	0.239	0.147	0.239
Uranium	mg/kg	23	0.586	0.500	0.581	0.548	0.540	0.491	0.493	0.969
Vanadium	mg/kg	86	29.8	25.6	39.9	31.6	31.7	28.4	26.8	44.8
Zinc	mg/kg	340	ND(33.0)	19.0	57.7	ND(33.0)	ND(33.0)	ND(33.0)	ND(33.0)	66.2
SAR Metals										
Calcium (soluble)	mg/L	ng	3.22	3.34	72.4	15.5	15.2	9.40	6.32	14.1
Magnesium (soluble)	mg/L	ng	1.50	1.46	3.43	3.78	2.36	1.83	1.15	4.79
Sodium (soluble)	mg/L	ng	8.71	7.99	33.5	19.4	106	20.2	132	101
General Chemistry										
Conductivity	mS/cm	0.7	0.148	0.159	0.577	0.264	**0.702**	0.247	**0.710**	0.663
Cyanide, weak acid dissociable	mg/kg	0.051	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Grain size >75um	%	ng	42.5	-	-	48.7 J	49.1	-	-	-
Grain Size 0.005-0.075	%	ng	57.5	-	-	51.3 J	50.9	-	-	-
Moisture	%	ng	8.72	9.41	20.8	11.6	10.3	10.3	12.9	21.3
pH, soluble (1:2)	s.u.	(5-11) 5-9	7.92	7.93	7.66	7.95	7.90	7.87	7.42	6.89
Sodium adsorption ratio (SAR)	none	5	1.01	0.92	1.04	1.15	6.68	1.58	**12.7**	**5.93**
Texture	none	ng	F	-	-	F	F	-	-	-

Notes:

[a] Table 3: Full Depth Generic Site Condition Standards for medium to fine-textured soils in a Non-Potable Ground Water Condition for RPI Property Uses (2011 MECP Table 3 Standards).

- Not applicable
mg/g - Milligram per kilogram
ng -No Guideline
ND - Not detected
J -The result is an estimated quantity. The associated numerical value is the approximate concentration of theanalyte in the sample.

0.702 Parameter exceeds guidelir

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			MW5-26	BH6-26	BH6-26	TRIPBLANK
Sample ID:			S-12683832-130126-MRW-010	S-12683832-120126-MRW-003	S-12683832-120126-MRW-004	TRIP BLANK
Sample Date:			1/13/2026	1/12/2026	1/12/2026	1/14/2026
Sample Depth:			1.98-2.44	0.76-1.52	1.52-2.44	-
Parameters	Units	Table 3 RPI Med/Fine	Duplicate			
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1221 (PCB-1221)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1232 (PCB-1232)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1242 (PCB-1242)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1248 (PCB-1248)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1254 (PCB-1254)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1260 (PCB-1260)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1262 (PCB-1262)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Aroclor-1268 (PCB-1268)	mg/kg	ng	-	ND(0.010)	ND(0.010)	-
Total PCBs	mg/kg	0.35	-	ND(0.030)	ND(0.030)	-
Polycyclic Aromatic Hydrocarbons						
1-Methylnaphthalene	mg/kg	3.4	-	ND(0.030)	ND(0.030)	-
1-Methylnaphthalene/2-Methylnaphthalene	mg/kg	3.4	-	ND(0.050)	ND(0.050)	-
2-Methylnaphthalene	mg/kg	3.4	-	ND(0.030)	ND(0.030)	-
Acenaphthene	mg/kg	58	-	ND(0.050)	ND(0.050)	-
Acenaphthylene	mg/kg	0.17	-	ND(0.050)	ND(0.050)	-
Anthracene	mg/kg	0.74	-	ND(0.050)	ND(0.050)	-
Benzo(a)anthracene	mg/kg	0.63	-	ND(0.050)	ND(0.050)	-
Benzo(a)pyrene	mg/kg	0.3	-	ND(0.050)	ND(0.050)	-
Benzo(b)fluoranthene/Benzo(j)fluoranthene	mg/kg	0.78	-	ND(0.050)	ND(0.050)	-
Benzo(g,h,i)perylene	mg/kg	7.8	-	ND(0.050)	ND(0.050)	-
Benzo(k)fluoranthene	mg/kg	0.78	-	ND(0.050)	ND(0.050)	-
Chrysene	mg/kg	7.8	-	ND(0.050)	ND(0.050)	-
Dibenz(a,h)anthracene	mg/kg	0.1	-	ND(0.050)	ND(0.050)	-
Fluoranthene	mg/kg	0.69	-	ND(0.050)	ND(0.050)	-
Fluorene	mg/kg	69	-	ND(0.050)	ND(0.050)	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.48	-	ND(0.050)	ND(0.050)	-
Naphthalene	mg/kg	0.75	-	ND(0.010)	ND(0.010)	-
Phenanthrene	mg/kg	7.8	-	ND(0.050)	ND(0.050)	-
Pyrene	mg/kg	78	-	ND(0.050)	ND(0.050)	-
BTEX						
Benzene	mg/kg	0.17	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	mg/kg	15	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Toluene	mg/kg	6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
m&p-Xylenes	mg/kg	ng	ND(0.030)	ND(0.030)	0.055	ND(0.030)
o-Xylene	mg/kg	ng	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Xylenes (total)	mg/kg	25	ND(0.050)	ND(0.050)	0.055	ND(0.050)
Total BTEX	mg/kg	ng	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,1-Trichloroethane	mg/kg	3.4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2,2-Tetrachloroethane	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1,2-Trichloroethane	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethane	mg/kg	11	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,1-Dichloroethene	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichlorobenzene	mg/kg	4.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloroethane	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,2-Dichloropropane	mg/kg	0.085	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	mg/kg	6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,4-Dichlorobenzene	mg/kg	0.097	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	44	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	4.3	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Acetone	mg/kg	28	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Bromodichloromethane	mg/kg	13	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromoform	mg/kg	0.26	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Bromomethane (Methyl bromide)	mg/kg	0.05	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Carbon tetrachloride	mg/kg	0.12	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chlorobenzene	mg/kg	2.7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Chloroform (Trichloromethane)	mg/kg	0.18	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,2-Dichloroethene	mg/kg	30	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
cis-1,3-Dichloropropene	mg/kg	ng	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene	mg/kg	0.083	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			MW5-26	BH6-26	BH6-26	TRIPBLANK
Sample ID:			S-12683832-130126-MRW-010	S-12683832-120126-MRW-003	S-12683832-120126-MRW-004	TRIP BLANK
Sample Date:			1/13/2026	1/12/2026	1/12/2026	1/14/2026
Sample Depth:			1.98-2.44	0.76-1.52	1.52-2.44	-
Parameters	Units	Table 3 RPI Med/Fine	Duplicate			
Dibromochloromethane	mg/kg	9.4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dichlorodifluoromethane (CFC-12)	mg/kg	25	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Hexane	mg/kg	34	ND(0.050)	ND(0.050)	0.934	ND(0.050)
Methyl tert butyl ether (MTBE)	mg/kg	1.4	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Methylene chloride	mg/kg	0.96	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
Styrene	mg/kg	2.2	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Tetrachloroethene	mg/kg	2.3	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,2-Dichloroethene	mg/kg	0.75	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
trans-1,3-Dichloropropene	mg/kg	ng	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Trichloroethene	mg/kg	0.52	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichlorofluoromethane (CFC-11)	mg/kg	5.8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Vinyl chloride	mg/kg	0.022	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Pesticides						
2,4'-DDD	mg/kg	ng	-	-	ND(0.00030)	-
2,4'-DDE	mg/kg	ng	-	-	ND(0.00030)	-
2,4'-DDT	mg/kg	ng	-	-	ND(0.00030)	-
4,4'-DDD	mg/kg	ng	-	-	ND(0.00030)	-
4,4'-DDE	mg/kg	ng	-	-	ND(0.00030)	-
4,4'-DDT	mg/kg	ng	-	-	ND(0.00030)	-
Aldrin	mg/kg	0.05	-	-	ND(0.00020)	-
alpha-Chlordane	mg/kg	ng	-	-	ND(0.00030)	-
Chlordane	mg/kg	0.05	-	-	ND(0.00042)	-
Chlordane, technical	mg/kg	ng	-	-	ND(0.00030)	-
Dieldrin	mg/kg	0.05	-	-	ND(0.00020)	-
Endosulfan	mg/kg	0.04	-	-	ND(0.00042)	-
Endosulfan I	mg/kg	ng	-	-	ND(0.00030)	-
Endosulfan II	mg/kg	ng	-	-	ND(0.00030)	-
Endrin	mg/kg	0.04	-	-	ND(0.00050)	-
gamma-BHC (lindane)	mg/kg	0.063	-	-	ND(0.00020)	-
Heptachlor	mg/kg	0.15	-	-	ND(0.00020)	-
Heptachlor epoxide	mg/kg	0.05	-	-	ND(0.00020)	-
Hexachlorobenzene	mg/kg	0.52	-	-	ND(0.00050)	-
Hexachlorobutadiene	mg/kg	0.014	-	-	ND(0.00050)	-
Hexachloroethane	mg/kg	0.071	-	-	ND(0.00050)	-
Methoxychlor	mg/kg	0.13	-	-	ND(0.00050)	-
Total DDD	mg/kg	3.3	-	-	ND(0.00042)	-
Total DDE	mg/kg	0.33	-	-	ND(0.00042)	-
Total DDT	mg/kg	1.4	-	-	ND(0.00042)	-
Petroleum Hydrocarbons						
Chromatogram to baseline at nC50	none	ng	-	YES	YES	-
Petroleum hydrocarbons F1 (C6-C10)	mg/kg	65	ND(5.0)	ND(5.0)	18.9	ND(5.0)
Petroleum hydrocarbons F1 minus BTEX	mg/kg	65	ND(5.0)	ND(5.0)	18.9	ND(5.0)
Petroleum hydrocarbons F2 (C10-C16)	mg/kg	150	-	ND(10)	ND(10)	-
Petroleum hydrocarbons F2 minus Naphthalene	mg/kg	150	-	ND(25)	ND(25)	-
Petroleum hydrocarbons F3 (C16-C34)	mg/kg	1300	-	ND(50)	ND(50)	-
Petroleum hydrocarbons F3 minus PAH	mg/kg	1300	-	ND(50)	ND(50)	-
Petroleum hydrocarbons F4 (C34-C50)	mg/kg	5600	-	ND(50)	ND(50)	-
Total Petroleum Hydrocarbons (C6-C50)	mg/kg	ng	-	ND(80)	ND(80)	-
Metals						
Antimony	mg/kg	7.5	-	ND(0.10)	ND(0.10)	-
Arsenic	mg/kg	18	-	3.28	5.28	-
Barium	mg/kg	390	-	63.3	191	-
Beryllium	mg/kg	5	-	0.41	1.13	-
Boron	mg/kg	120	-	11.3	44.2	-
Boron (hot water soluble)	mg/kg	1.5	-	0.14	0.41	-
Cadmium	mg/kg	1.2	-	ND(0.200)	ND(0.200)	-
Chromium	mg/kg	160	-	21.3	40.7	-
Chromium VI (hexavalent)	mg/kg	10	-	0.10	0.12	-
Cobalt	mg/kg	22	-	9.20	**37.3**	-
Copper	mg/kg	180	-	15.0	65.3	-
Lead	mg/kg	120	-	10.2	44.8	-
Mercury	mg/kg	1.8	-	0.0097	0.110	-
Molybdenum	mg/kg	6.9	-	1.29	2.45	-
Nickel	mg/kg	130	-	17.1	64.8	-

Table 3

Summary of Soil Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			**MW5-26**	**BH6-26**	**BH6-26**	**TRIPBLANK**
Sample ID:			**S-12683832-130126-MRW-010**	**S-12683832-120126-MRW-003**	**S-12683832-120126-MRW-004**	**TRIP BLANK**
Sample Date:			**1/13/2026**	**1/12/2026**	**1/12/2026**	**1/14/2026**
Sample Depth:			**1.98-2.44**	**0.76-1.52**	**1.52-2.44**	**-**
Parameters	**Units**	**Table 3 RPI Med/Fine**	**Duplicate**			
Selenium	mg/kg	2.4	-	ND(0.20)	ND(0.20)	-
Silver	mg/kg	25	-	ND(0.10)	0.32	-
Thallium	mg/kg	1	-	0.246	0.591	-
Uranium	mg/kg	23	-	0.574	0.485	-
Vanadium	mg/kg	86	-	32.0	38.0	-
Zinc	mg/kg	340	-	ND(33.0)	37.5	-
SAR Metals						
Calcium (soluble)	mg/L	ng	-	4.50	13.0	-
Magnesium (soluble)	mg/L	ng	-	1.28	3.67	-
Sodium (soluble)	mg/L	ng	-	1.28	12.9	-
General Chemistry						
Conductivity	mS/cm	0.7	-	0.118	0.226	-
Cyanide, weak acid dissociable	mg/kg	0.051	-	ND(0.050)	ND(0.050)	-
Grain size >75um	%	ng	-	-	63.1J	-
Grain Size 0.005-0.075	%	ng	-	-	36.9 J	-
Moisture	%	ng	21.4	11.3	12.3	ND(0.25)
pH, soluble (1:2)	s.u.	(5-11) 5-9	-	7.71	7.68	-
Sodium adsorption ratio (SAR)	none	5	-	0.14	0.81	-
Texture	none	ng	-	-	C	-

Notes:

[a] Table 3: Full Depth Generic Site Condition Standards for medium to fine-textured soils in a Non-Potable Ground Water Condition for RPI Property Uses (2011 MECP Table 3 Standards).

- Not applicable
mg/g - Milligram per kilogram
ng -No Guideline
ND - Not detected
J -The result is an estimated quantity. The associated numerical value is the approximate concentration of theanalyte in the sample.

0.702 Parameter exceeds guidelir

Maximum Concentrations in Soil
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Parameters	Units	Table 3 RPI Med/Fine	Max Concentration	Sample Location	Sample ID	Sample Date	Sample Depth (mBGS)
Polychlorinated Biphenyls		-				1/13/2026	
Aroclor-1016 (PCB-1016)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1221 (PCB-1221)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1232 (PCB-1232)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1242 (PCB-1242)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1248 (PCB-1248)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1254 (PCB-1254)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1260 (PCB-1260)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1262 (PCB-1262)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Aroclor-1268 (PCB-1268)	mg/kg	-	ND(0.010)	-	-	1/13/2026	-
Total PCBs	mg/kg	0.35	ND(0.030)	-	-	1/13/2026	-
BTEX							
Benzene	mg/kg	0.21	ND(0.0050)	-	-	-	-
Ethylbenzene	mg/kg	2	ND(0.015)	-	-	-	-
Toluene	mg/kg	2.3	ND(0.050)	-	-	1/14/2026	-
m&p-Xylenes	mg/kg	-	0.055	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
o-Xylene	mg/kg	-	ND(0.030)	-	-	1/14/2026	-
Xylenes (total)	mg/kg	3.1	0.055	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Total BTEX	mg/kg	-	ND(0.10)	-	-	1/14/2026	-
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/kg	0.058	ND(0.050)	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.38	ND(0.050)	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.05	ND(0.050)	-	-	-	-
1,1,2-Trichloroethane	mg/kg	0.05	ND(0.050)	-	-	-	-
1,1-Dichloroethane	mg/kg	3.5	ND(0.050)	-	-	-	-
1,1-Dichloroethene	mg/kg	0.05	ND(0.050)	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.05	ND(0.050)	-	-	-	-
1,2-Dichlorobenzene	mg/kg	3.4	ND(0.050)	-	-	-	-
1,2-Dichloroethane	mg/kg	0.05	ND(0.050)	-	-	-	-
1,2-Dichloropropane	mg/kg	0.05	ND(0.050)	-	-	-	-
1,3-Dichlorobenzene	mg/kg	4.8	ND(0.050)	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.083	ND(0.050)	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	16	ND(0.50)	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	1.7	ND(0.50)	-	-	-	-
Acetone	mg/kg	16	ND(0.50)	-	-	-	-
Bromodichloromethane	mg/kg	13	ND(0.050)	-	-	-	-
Bromoform	mg/kg	0.27	ND(0.050)	-	-	-	-
Bromomethane (Methyl bromide)	mg/kg	0.05	ND(0.050)	-	-	-	-
Carbon tetrachloride	mg/kg	0.05	ND(0.050)	-	-	-	-
Chlorobenzene	mg/kg	2.4	ND(0.050)	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	0.05	ND(0.050)	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	3.4	ND(0.050)	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	ND(0.030)	-	-	-	-
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene	mg/kg	0.05	ND(0.050)	-	-	-	-
Dibromochloromethane	mg/kg	9.4	ND(0.050)	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	16	ND(0.050)	-	-	-	-
Hexane	mg/kg	2.8	0.934	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Methyl tert butyl ether (MTBE)	mg/kg	0.75	ND(0.040)	-	-	1/14/2026	-
Methylene chloride	mg/kg	0.1	ND(0.045)	-	-	1/14/2026	-
Styrene	mg/kg	0.7	ND(0.050)	-	-	1/14/2026	-
Tetrachloroethene	mg/kg	0.28	ND(0.050)	-	-	1/14/2026	-
trans-1,2-Dichloroethene	mg/kg	0.084	ND(0.050)	-	-	1/14/2026	-
trans-1,3-Dichloropropene	mg/kg	-	ND(0.030)	-	-	1/14/2026	-
Trichloroethene	mg/kg	0.061	ND(0.010)	-	-	1/14/2026	-
Trichlorofluoromethane (CFC-11)	mg/kg	4	ND(0.050)	-	-	1/14/2026	-
Vinyl chloride	mg/kg	0.02	ND(0.020)	-	-	1/14/2026	-
Polycyclic Aromatic Hydrocarbons							
1-Methylnaphthalene	mg/kg	0.99	ND(0.030)	-	-	-	-
1-Methylnaphthalene/2-Methylnaphthalene	mg/kg	0.99	ND(0.050)	-	-	-	-
2-Methylnaphthalene	mg/kg	0.99	ND(0.030)	-	-	-	-
Acenaphthene	mg/kg	7.9	ND(0.050)	-	-	-	-
Acenaphthylene	mg/kg	0.15	0.051	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Anthracene	mg/kg	0.67	0.099	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Benzo(a)anthracene	mg/kg	0.5	0.422	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Benzo(a)pyrene	mg/kg	0.3	**0.485**	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Benzo(b)fluoranthene/Benzo(j)fluoranthene	mg/kg	0.78	0.650	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Benzo(g,h,i)perylene	mg/kg	6.6	0.293	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Benzo(k)fluoranthene	mg/kg	0.78	0.241	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Chrysene	mg/kg	7	0.525	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Dibenz(a,h)anthracene	mg/kg	0.1	0.075	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Fluoranthene	mg/kg	0.69	**1.10**	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Fluorene	mg/kg	62	ND(0.050)	-	-	1/13/2026	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.38	0.325	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Naphthalene	mg/kg	0.6	ND(0.010)	-	-	1/13/2026	-
Phenanthrene	mg/kg	6.2	0.516	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Pyrene	mg/kg	78	0.863	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
						1/13/2026	
Pesticides						1/13/2026	
2,4'-DDD	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
2,4'-DDE	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
2,4'-DDT	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
4,4'-DDD	mg/kg	-	0.00214	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
4,4'-DDE	mg/kg	-	0.00961	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
4,4'-DDT	mg/kg	-	0.00169	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Aldrin	mg/kg	0.05	ND(0.00052) DLM	-	-	1/13/2026	-
alpha-Chlordane	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
Chlordane	mg/kg	0.05	ND(0.00148)	-	-	1/13/2026	-
Chlordane, technical	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
Dieldrin	mg/kg	0.05	0.00107	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Endosulfan	mg/kg	0.04	ND(0.00148)	-	-	1/13/2026	-
Endosulfan I	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
Endosulfan II	mg/kg	-	ND(0.00105) DLM	-	-	1/13/2026	-
Endrin	mg/kg	0.04	ND(0.00105) DLM	-	-	1/13/2026	-
gamma-BHC (lindane)	mg/kg	0.056	ND(0.00026) DLM	-	-	1/13/2026	-
Heptachlor	mg/kg	0.15	ND(0.00026) DLM	-	-	1/13/2026	-
Heptachlor epoxide	mg/kg	0.05	ND(0.00052) DLM	-	-	1/13/2026	-
Hexachlorobenzene	mg/kg	0.52	ND(0.00105) DLM	-	-	1/13/2026	-
Hexachlorobutadiene	mg/kg	0.012	ND(0.00105) DLM	-	-	1/13/2026	-
Hexachloroethane	mg/kg	0.089	ND(0.00105) DLM	-	-	1/13/2026	-
Methoxychlor	mg/kg	0.13	ND(0.00105) DLM	-	-	1/13/2026	-
Total DDD	mg/kg	3.3	0.00214	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Total DDE	mg/kg	0.26	0.00961	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Total DDT	mg/kg	1.4	0.00169	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44

Table 4

Maximum Concentrations in Soil
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Parameters	Units	Table 3 RPI Med/Fine	Max Concentration	Sample Location	Sample ID	Sample Date	Sample Depth (mBGS)
Metals						1/13/2026	
Antimony	mg/kg	7.5	0.23	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Arsenic	mg/kg	18	11.0	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Barium	mg/kg	390	192	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Beryllium	mg/kg	4	1.13	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Boron	mg/kg	120	44.2	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Boron (hot water soluble)	mg/kg	1.5	0.89	BH3-26	S-12683832-140126-MRW-013	1/14/2026	0.00-0.75
Cadmium	mg/kg	1.2	0.373	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Chromium	mg/kg	160	40.7	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Chromium VI (hexavalent)	mg/kg	8	0.24	BH3-26	S-12683832-140126-MRW-013	1/14/2026	0.00-0.75
Cobalt	mg/kg	22	**37.3**	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Copper	mg/kg	140	65.3	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Lead	mg/kg	120	44.8	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Mercury	mg/kg	0.27	0.110	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Molybdenum	mg/kg	6.9	2.45	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Nickel	mg/kg	100	64.8	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Selenium	mg/kg	2.4	0.41	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Silver	mg/kg	20	0.32	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Thallium	mg/kg	1	0.591	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Uranium	mg/kg	23	0.969	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Vanadium	mg/kg	86	44.8	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Zinc	mg/kg	340	66.2	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44
Petroleum Hydrocarbons							
Petroleum hydrocarbons F1 (C6-C10)	mg/kg	55	18.9	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Petroleum hydrocarbons F1 minus BTEX	mg/kg	55	18.9	BH6-26	S-12683832-120126-MRW-004	1/14/2026	1.52-2.44
Petroleum hydrocarbons F2 (C10-C16)	mg/kg	98	ND(10)	-	-	-	-
Petroleum hydrocarbons F2 minus Naphthalene	mg/kg	98	ND(25)	-	-	-	-
Petroleum hydrocarbons F3 (C16-C34)	mg/kg	300	ND(50)	-	-	-	-
Petroleum hydrocarbons F3 minus PAH	mg/kg	300	ND(50)	-	-	-	-
Petroleum hydrocarbons F4 (C34-C50)	mg/kg	2800	ND(50)	-	-	-	-
Total Petroleum Hydrocarbons (C6-C50)	mg/kg	-	ND(80)	-	-	-	-
General Chemistry							
Conductivity	mS/cm	0.7	**0.702**	BH4-26	S-12683832-140126-MRW-011	1/14/2026	0.00-0.75
Cyanide, weak acid dissociable	mg/kg	0.051	ND(0.050)	-	-	-	-
pH, soluble (1:2)	s.u.	(5-11) 5-9	7.95	BH3-26	S-12683832-140126-MRW-014	1/14/2026	0.75-1.00
Sodium adsorption ratio (SAR)	none	5	**12.7**	MW5-26	S-12683832-130126-MRW-009	1/13/2026	1.98-2.44

Notes:

[a] Table 3: Full Depth Generic Site Condition Standards for medium to fine textured soils in a
- Not applicable
mg/g - Milligram per kilogram
ng -No Guideline
ND - Not detected
0.702 exceeds guideline

Summary of Groundwater Analytical Results
Phase Two Environmental Site Assessment
1533 and 1541 St. Joesph Boulevard, Orleans, Ontario
Sienna Senior Living

Sample Location:			**BH3**
Sample ID:			**GW-12650439-103124-BH3**
Sample Date:			**10/31/2024**
LAB_COA:			**WT2432757**
Parameters	**Units**	**Table 3 Med/Fine**	
Volatiles			
Benzene	ug/L	430	ND(0.50)
Ethylbenzene	ug/L	2300	ND(0.50)
m&p-Xylenes	ug/L	n/a	ND(0.40)
o-Xylene	ug/L	n/a	ND(0.30)
Toluene	ug/L	18000	ND(0.50)
Total BTEX	ug/L	n/a	ND(1.0)
Xylenes (total)	ug/L	4200	ND(0.50)
Petroleum Hydrocarbons			
Chromatogram to baseline at nC50	none	n/a	YES
Petroleum hydrocarbons F1 (C6-C10)	ug/L	750	ND(25)
Petroleum hydrocarbons F1 minus BTEX	ug/L	750	ND(25)
Petroleum hydrocarbons F2 (C10-C16)	ug/L	150	ND(100)
Petroleum hydrocarbons F3 (C16-C34)	ug/L	500	260
Petroleum hydrocarbons F4 (C34-C50)	ug/L	500	ND(250)
Total Petroleum Hydrocarbons (C6-C50)	ug/L	n/a	ND(370)

Footnotes:

1) Analytical results are presented in micrograms per litre (ug/L).
2) ND() - analyte was not detected at or above the detection limit
3) n/a - not applicable
4) MECP Standard compared above include the following:

Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Appendices

Appendix A

Sampling and Analysis Plan

455 Phillip Street, Unit 100A
Waterloo, Ontario N2L 3X2
Canada
www.ghd.com

GHD Reference No.: 12683832

16 December 2025

Mr. Rudy Hanel
Senior Director, Planning
Sienna Senior Living
302 Town Centre Boulevard, Suite 300
Markham, Ontario L3R 0E8

Scope of Work and Cost Estimate
Phase One & Phase Two Environmental Site Assessment (ESA) & Statement of Work (SOW)
1533-1541 St. Joseph Blvd, Orleans, Ontario

Dear Mr. Hanel:

1. Introduction

GHD Limited (GHD) is pleased to submit this proposal to Sienna Senior Living (Sienna) for a due diligence assessment for the long-term care facility located at 1541 St. Joseph Blvd (1541 Property Parcel) and the vacant property located at 1533 St. Joseph Blvd (1533 Property Parcel), in Orleans, Ontario (hereinafter collectively referred to as the "Property" or "Site").

The following reports were previously prepared for the Site by GHD in general accordance with CSA Z768-01 and CSA Z769-00 Standards, respectively:

– Phase I ESA Report, 1533 and 1541 St. Joseph Blvd., Orleans, Ontario, prepared for Sienna Senior Living, dated December 17, 2024 (2024 Phase I ESA Report)
– Phase II ESA Report, 1533 St. Joseph Blvd., Orleans, Ontario, prepared for Sienna Senior Living, dated December 17, 2024 (2024 Phase II ESA Report)

The 1533 Property Parcel is approximately 1.19 hectares and has been vacant since 2005. It is currently owned by Season's Retirement Living (since 2009) and was previously owned by Chartwell Senior Housing REIT prior to 2009. Historically, this parcel was developed with the former Madonna Nursing Home, a two-story long-term care facility constructed in 1958 and demolished in 2005. The building was initially heated by a fuel oil-fired boiler connected to an underground storage tank (UST) located on the south side of the former building. The UST was reportedly removed around 1992-1993. The precise location of the UST is unknown.

The 1541 Property Parcel is approximately 2.48 hectares and contains a three-story slab-on-grade long-term care building located on the southern portion of the property. This parcel has been owned by Sienna since 2012, previously by Season's Retirement Living (2009-2012), and by Chartwell Senior Housing REIT prior to 2009. No potential environmental concerns were identified for the 1541 Property parcel in the Phase I ESA.

As a historic UST was identified on 1533 St. Joseph Blvd., GHD conducted a field investigation on October 31, 2024, to determine the soil quality on the south side of the former building that maybe in the area of the former UST. The field investigation involved the advancement of eight (8) hydro-excavated test pits to depths ranging from 0.91 to 2.44 metres below ground surface (mBGS). A monitoring well (BH3), installed

during the geotechnical investigation conducted by Sienna's geotechnical consultant, was utilized to collect groundwater level measurements and determine groundwater depth. Soil and groundwater samples were collected and submitted for laboratory analysis.

Gravel with sand (fill) was encountered in all locations below the surface. Construction debris consisting of broken concrete, wood panels (lumber fragments), broken piping/cables, sheet metal was observed in the fill soils in test pit TP-04 advanced within the footprint of the former building foundation suggesting that some demolition debris has been used as fill at the Site. Site stratigraphy consisted of gravel with sand fill, underlain by silty sand fill to approximately 1.52 mBGS, below which native glacial till with cobbles and boulders was encountered. The applicable Site Condition Standard (SCS) was determined to be Table 3: Full Depth Generic Site Condition Standards for coarse-textured soils in a Non-Potable Groundwater Condition for RPI property uses (2011 MECP Table 3 Standards). Soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and petroleum hydrocarbons [PHCs F_1-F_4], and all concentrations were below the applicable standards. The soil and groundwater investigation did not identify any environmental impacts related to the former fuel oil UST reportedly located along the south side of the former building at 1533 St. Joseph Boulevard.

Based on discussions with Sienna, a Site Plan Control (SPC) application is going to be submitted in future to the City of Ottawa for a new development application. Section 5 of the SPC requires the above studies to be completed in accordance with the requirements of Ontario Regulation (O. Reg.)153/04. Additionally, GHD understands that a Record of Site Condition (RSC) is not required to be filed as part of the new development as there is no change in the current land use to a sensitive land use is anticipated for the Site.

As GHD's previous studies were completed in accordance with CSA Z768-01/CSA Z769-00 standards as per the scope of work outlined with Sienna, the following updates are required:

– Update the existing Phase I ESA report to a Phase One ESA report to meet the O. Reg. 153/04 requirements.
– Conduct additional field investigation to fill in the data gaps identified as part of the preparation of O. Reg. 153/04 Phase One ESA report, including installation of three (3) groundwater monitoring wells to confirm the groundwater elevations and groundwater flow direction as outlined in O.Reg.153/04. Proposed Scope of Work

The Proposed Scope of work for the investigation is provided in the following sections.

1.1 Conversion of Existing Phase I ESA Report (CSA) to Phase One ESA (O. Reg. 153/04)

In support of the submission of an SPC application to the City of Ottawa, a Phase One ESA must be prepared for the Property in accordance with O. Reg. 153/04. **GHD will prepare a single Phase One ESA report, which includes the information presented on 1533-1541 Property Parcels**.

Where practical, GHD will incorporate the historical information provided in GHD's 2024 Phase I ESA Report into the new Phase One ESA report. Based on GHD's understanding, there have been no changes in the Site condition/land use since the completion of GHD's 2024 Phase I ESA Report. As such, Site inspection will be conducted concurrent with the Phase Two ESA activities and limited to select portions of the Site building where previous chemical storage and fuel handling was identified.

The Phase One ESA will consist of the following elements.

1. A review of historical information regarding current and prior use of the Site and adjacent properties. **A new database search will be conducted as part of the updated Phase One ESA report.**
2. Site inspection, including review of the former and ongoing operations, waste/chemical handling, and waste/chemical storage practices associated with the facility and a walkover of the Site. **The Site inspection will be conducted concurrently with the Phase Two ESA.**

3. Review of available records regarding environmental conditions at the Site.
4. Interviews of individuals, to the extent practicable, familiar with the historical and current Site conditions. **If required, an additional interview may be conducted.**
5. Contact with regulatory agencies and/or review of reasonably ascertainable agency files and databases.
6. Reporting.

The Phase One ESA will identify any Potential Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) that are associated with the Property from both on-Site and off-Site sources. In accordance with O. Reg. 153/04, the Phase One ESA must identify any PCAs located within a 250 m radius of the subject property boundary. The Phase One ESA report will include the mandatory headings included in O. Reg. 153/04 and will identify any PCAs on the Phase One Property, and any PCAs within the Phase One Study area that have the potential to contribute to APECs on the Site. The Phase One ESA report will include a Conceptual Site Model that summarizes the locations of APECs, relevant Site features, and surface or subsurface features that have the potential to influence contaminant migration.

Based on a review of GHD's 2024 Phase I ESA Report, GHD anticipates the following APECs <u>are likely</u> to be identified and will need to be investigated as part of a Phase Two ESA.

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Sampling Location
APEC #1 – Former Fuel Oil Underground Storage Tank (See Note 1)	1533 Property Parcel	#28 – Gasoline and Associated Products Storage in Fixed Tanks	1533 St. Joseph Blvd (On-Site)	PHCs, BTEX	Soil	TP-01, TP-05, TP-07, and TP-08 (existing test pit dataset from 2024 Phase II ESA Report)
					Groundwater	BH3 (existing groundwater data from 2024 Phase II ESA Report)
APEC #2 – Diesel Powered Backup Generator with Aboveground Storage Tank	1541 St. Joseph Blvd	#28 – Gasoline and Associated Products Storage in Fixed Tanks	1541 St. Joseph Blvd (On-Site)	PHCs, BTEX	Soil	MW1-26
APEC #3 – Former Fuel ASTs (1501 St. Joseph Blvd)	1501 St. Joseph Blvd	#28 – Gasoline and Associated Products Storage in Fixed Tanks	1501 St. Joseph Blvd (off-site)	PHCs, BTEX	Soil	MW2-26
					Groundwater	

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)	Sampling Location
APEC #4 – Potential Pesticide Use	1533-1541 Property Parcels	#40 – Pesticides (Including Herbicides, Fungicides and anti-fouling Agents), Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	Organochlorine Pesticides (OCPs) and Metals, Arsenic (As), antimony (Sb), selenium (Se), Mercury (Hg), Chromium (hexavalent) [Cr (VI)]	Soil	MW2-26, MW5-26, and BH6-26
APEC #5 – Pad Mount Transformer	1533 Property Parcel	#55 – Transformer Manufacturing, Processing and Use	1533 St. Joseph Blvd (On-Site)	PHCs, PCBs	Soil	BH6-26
APEC #6 – Fill Materials of Unknown Quality	1533-1541 Property Parcels	#30 – Importation of Fill Material of Unknown Quality	On-Site	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH	Soil	MW1-26, BH3-26, BH4-26, BH6-26, and MW5-26
APEC #7 – Road Salt Use	1533-1541 Property Parcels	# A – Other – Application of Road Salt	On-Site	Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR)	Soil	BH3-26, BH4-26, BH6-26, and MW5-26
				Sodium (Na), Chloride Ion (Cl-)	Groundwater	MW2-26, MW5-26

Note 1: APEC #1 was investigated by GHD as part of the October 2024 investigation.

1.2 Phase Two ESA Scope

The Phase Two ESA scope of work will be to investigate any APECs that are identified in the Phase One ESA. All Phase Two ESA activities will be completed in accordance with the requirements of O. Reg. 153/04. The Phase Two ESA scope of work will be confirmed based on the Phase One ESA findings.

Based on the information from the previously completed GHD's 2024 Phase I ESA Report, GHD has included a cost to advance six (6) boreholes as noted below and shown on **Figure**. The depth of boreholes will range between 3 mBGS to 5 mBGS and three (3) out of the six (6) monitoring wells will be instrumented as monitoring wells for potential groundwater sampling and to measure groundwater flow direction. The monitoring wells would be constructed with a 10-foot well screen. Based on previous investigations conducted at the Site, sand and gravel fill is underlain by glacial till, further underlain by inferred bedrock at 5.3 mBGS. Depth to groundwater is approximately 2.5 mBGS as observed in the monitoring BH3 installed during the geotechnical investigation. The proposed Phase Two scope of work may be revised based on the review of the updated database search.

The following table shows the depth and relevant sample analysis anticipated to be conducted as part of the Phase Two ESA scope of work:

Borehole ID	APEC Investigated	Depth of Borehole/Monitoring Well (mBGS)	Soil Sample Analysis	Groundwater Sample Analysis
MW1-26	APEC #2 and 6	5 (Screen interval from 2- 5 m)	VOCs (includes BTEX), PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH collected from fill and native soil (2 samples)	N/A (If field evidence of staining or odour are noted, groundwater will be sampled from the monitoring well MW1-26).
MW2-26	APECs #3, 4, and 7	5 (Screen interval from 2- 5 m)	PHCs, BTEX, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH collected from fill and native soil (2 samples + 1 duplicate) OCPs (native soil only)	PHCs, BTEX, Na, Cl-
BH3-26 (See Section 1.2.1)	APECs #6 and 7	3	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH, EC and SAR collected from fill and native soil (2 samples)	N/A
BH4-26 (See Section 1.2.1)	APECs #6 and 7	3	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH, EC and SAR collected from fill and native soil (2 samples)	N/A
MW5-26	APECs #4, 6, and 7	5 (Screen interval from 2- 5 m)	VOCs, PHCs, PAHs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH collected from fill and native soil (2 samples + 1 duplicate) OCPs (native soil only)	Na, Cl-
BH6-26	APECs #4, 5, 6 and 7	3	VOCs, PHCs, PAHs, PCBs, Metals, As, Sb, Se, Hg, Cr (VI), B-HWS, CN-, low or high pH, EC and SAR collected from fill and native soil (2 samples) OCPs (native soil only)	N/A

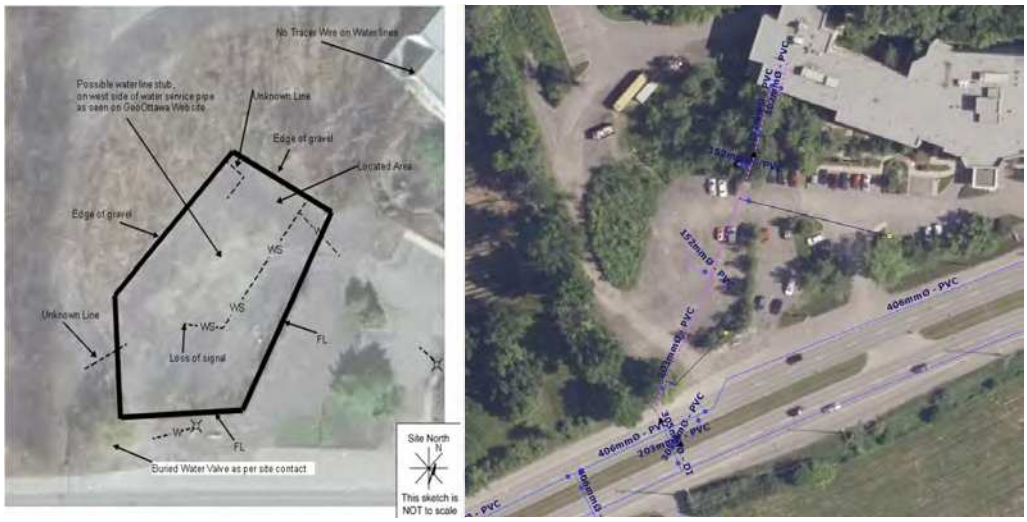
N/A – Not Applicable

1.2.1 Field Program Preparation

Prior to drilling program initiation, a Site-specific Health and Safety Plan (HASP) will be developed by GHD for implementation during the field investigation program. The HASP will present the visually observed Site conditions and identify potential physical and chemical hazards to field personnel. Any required personal protective equipment, equipment/personnel decontamination procedures, and environmental monitoring requirements would be listed in the HASP.

Prior to the advancement of boreholes at the Site, GHD will contact local utility companies to locate any buried utility mains or services (i.e., water, gas or pressurized air pipes, telephone lines, etc.). If any borehole location corresponds to a buried underground utility, the borehole will be relocated. It is assumed that Sienna will provide appropriate access to the Site for the drilling equipment, and select parking spots will need to be blocked during completion of field activities. A private utility locator will also be retained by GHD to clear the borehole locations on the Property from any private service lines or installations. Additionally, GHD has assumed that as-built drawings will be provided for the Site for GHD's review.

Previous private locates completed in October 2024 identified a possible water line connecting from the 1541 Site building going along the east perimeter of the parking lot towards St. Joseph Street as noted below. There was also an untraceable PVC pipe connected to a valve in the main line and runs adjacent to the east-west orientation. Previous test pits were advanced using hydrovac methodology to ensure that there was no possible strikes to the untraceable water line.



Where fill soils were identified in the former building footprint, GHD plans to advance boreholes BH3-26 and BH4-26, in the locations of previous advanced hydrovac test pit locations TP-08 and TP-01. **For costing, GHD has included a contingency cost of $8,500 (includes soil disposal fees) to be confirmed with Sienna based on the completion of public and private locates.**

1.2.2 Drilling and Groundwater Well Installation

A licensed well driller will advance the boreholes using a Geoprobe drill rig equipped with hollow stem augers, and soil samples were retrieved continuously using macrocore liners. Soil recovered from each borehole will be logged using the United Soil Classification System to document geological conditions and stratigraphy at the Site. Also, the soil will be qualitatively and quantitatively screened for any evidence of impact. Qualitative screening will be based on visual and olfactory observations, while quantitative screening will be based on measurement of undifferentiated volatile organic vapours in the headspace of the soil samples using a photoionization detector (PID). Soil samples exhibiting the strongest field evidence of impact will be submitted for laboratory analyses.

Groundwater monitoring wells will be instrumented in three (3) borehole locations (MW1-26, MW2-26, and MW5-26), in accordance with O. Reg. 903.

The monitoring wells will be constructed with a 51-millimetre (2-inch) diameter, Sch. 40 polyvinyl chloride (PVC) riser and a 3.0-m (10-foot) long, no. 10 slot size well screen. The well screens will be installed to straddle the perceived groundwater table based on wet/saturated soil conditions encountered during borehole advancement activities. A silica sand pack will be placed in the annular space between the PVC screen/riser pipe and the

borehole to a height of approximately 0.3 m above the top of screen. A bentonite seal will be placed directly above the sand pack and extended to within 0.3 m of the ground surface. To complete the instrumentation, an expandable J-plug will be installed on the riser pipe. A protective flush-mount will be placed around each of the wells upon completion. Each monitoring well will be equipped with dedicated sampling equipment consisting of Waterra™ and inertial foot valves for monitoring well development and sampling.

In accordance with O. Reg. 903, the monitoring wells will be registered with the MECP. In order to ensure that samples representative of on-site groundwater conditions is obtained, each monitoring well will be developed upon completion of installation. GHD will implement the following protocol during well development activities:

– The groundwater monitoring wells will be equipped with dedicated Waterra™ tubing and an inertial foot valve for well development activities.
– The groundwater monitoring wells will be purged at a minimum of five to ten well volumes to remove the standing groundwater volume in the well.
– Field measurements of temperature, pH, and electrical conductivity will be recorded after each purged well volume using a Horiba water quality meter until consistent field measurements will be recorded, indicating stabilization that the water in the well was representative of groundwater conditions.

Prior to initiating groundwater sampling activities, groundwater measurements and a NAPL check will be completed at each of the monitoring wells. Subsequent to well development activities, each monitoring well will be purged in order to ensure that samples representative of groundwater conditions is obtained.

Samples will be collected in laboratory-supplied containers specific to the analytical parameter, transported in coolers with ice, and submitted under chain-of-custody protocol to a CALA accredited laboratory. To validate the field analysis, a minimum of one field duplicate sample for QA/QC purposes will be collected and submitted for every ten samples. QA/QC samples will also include trip blank samples (one per laboratory submission) for PHC fraction F_1 and VOCs. All soil and groundwater samples will be submitted for laboratory analysis on a 5-business day turn-around time. Soil cuttings and well development/purge water will be temporarily stored on-Site in drums pending results from laboratory analyses. An allowance for the disposal of soil cuttings and purge water has been included in the cost estimate.

1.2.3 Phase Two ESA Report

Upon receipt and review of all analytical results, the findings of the soil and groundwater quality investigation will be documented in a Phase Two ESA report that will include, but is not limited to, the following.

– Introduction, including the rationale for the selection of the applicable regulatory standard.
– Review of the available background information.
– Scope of the investigation.
– Investigation methodologies.
  - Review and evaluation including:
  - Summary of field activities undertaken including evaluation of soil and groundwater chemistry data with respect to the MECP document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", April 15, 2011, and supporting documentation.
  - Documentation of the soil and groundwater quality.
– Scale drawing(s) of Site boundaries, adjacent property boundaries/land uses, investigative locations, parameter concentrations above applicable criteria/standard, groundwater contours, etc.
– Quality Assurance/Quality Control description and results.
– Figures and data tables for soil and groundwater datasets.
– Appendices including borehole stratigraphic and instrumentation logs, and a copy of the completed well record submitted by the driller to the MECP.


MW1-26
BH6-26
BH3 (Existing Well)
BH4-26 (TP-01)
MW5-26
MW2-26
BH3-26 (TP-08)
St Joseph Blvd
St Joseph Blvd
34
34
N

Appendix B

Stratigraphic and Instrumentation Logs

Kollaard Associates
Engineers

BOREHOLE BH3

PROJECT: Proposed Long Term Care Facility Addition
CLIENT: Sienna Senior Living
LOCATION: 1541 St. Joseph Boulevard, Orleans
PENETRATION TEST HAMMER: 63.5 kg, Drop, 0.76m

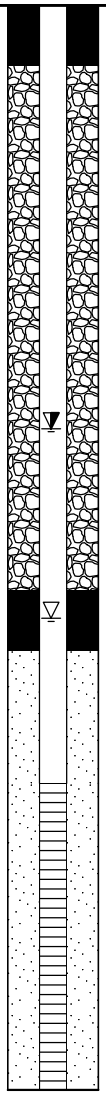
PROJECT NUMBER: 240798
DATE OF BORING: 2024-09-12
SHEET: 1 of 1
DATUM:

DEPTH SCALE (meters)	DESCRIPTION	DEPTH (m)	ELEV. (m)	NUMBER	TYPE	BLOWS/0.3m	MOISTURE CONTENT (%)
	Grey crushed stone (FILL)	0.00	80.09				
	Yellow brown sand and gravel (FILL)	0.03	80.06	1	SS	10	5
	Grey brown silty sand, some gravel, cobbles, boulders, trace clay (GLACIAL TILL)	0.55	79.54	2	SS	23	8
1.0				3	SS	24	
2.0				4	SS	26	9
3.0				5	SS	25	10
	Grey silty sand, some gravel, cobbles, boulders, trace clay (GLACIAL TILL)	3.04	77.05	6	SS	24	9
4.0				7	SS	15	8
				8	SS	22	12
5.0				9	SS	100	
	Practical refusal on bedrock or large boulder	5.38	74.71				11

UNDIST SHEAR STRENGTH (x, Cu. kPa) / REM SHEAR STRENGTH (o, Cu. kPa): 0 20 40 60 80 100

DYNAMIC CONE PENETRATION TEST, blows/300 mm: 0 20 40 60 80 100

PIEZOMETER OR STANDPIPE INSTALLATION



Groundwater encountered at about 3.0 metres below the existing surface Sept 12, 2024. Ground water measured in standpipe at about 2.1 metres, below ground surface Sept 19,2024.

DEPTH SCALE: 1 to 37.5
LOGGED: KH

BORING METHOD: Power Auger
AUGER TYPE: Hollow Stem
CHECKED: SD

TEST PIT STRATIGRAPHIC RECORD

TP-01

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034224.82 m
Easting: 456130.64 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.94 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.44 m
Dimension: 0.8 x 0.8 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	● SPT N-Value ▼ DCPT Value (blows 100mm) Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual ○ Moisture Content (%) PL w LL (20 40 60 80)	Water Level(s)	Backfill Details
0	0.00 79.94			GRAVEL (FILL), some sand, well graded, loose, grey															
	0.76 79.18	Hydrovac		SANDY SILT (FILL), some gravel and cobbles, grey-brown, compact		2		TP-01	☒										
1	1.52 78.42			(NATIVE GLACIAL TILL), SILTY SAND, some gravel, boulders and cobbles, grey															
2	2.44 77.50			End of Test Pit at 2.44 m BGS															
3																			
4																			

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-02

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034220.78 m
Easting: 456125.70 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 80.00 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.44 m
Dimension: 0.6 x 0.8 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	● SPT N-Value ▼ DCPT Value (blows 100mm) Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual ○ Moisture Content (%) PL w LL (20 40 60 80)	Water Level(s)	Backfill Details
0	0.00 80.00																		
1		Hydrovac		GRAVEL (FILL), some sand, well graded, loose, grey - exposed metallic wire at 1.20 m BGS															
	1.50 78.50			(NATIVE GLACIAL TILL) SILTY SAND, some gravel, boulders and cobbles, grey															
2																			
	2.44 77.56			End of Test Pit at 2.44 m BGS Termination Note: Test pit terminated on the top of boulders at 2.44 mBGS.															
3																			
4																			

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-03

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034217.91 m
Easting: 456132.44 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.86 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.13 m
Dimension: 1.3 x 0.8 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	● SPT N-Value ▼ DCPT Value (blows 100mm) Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual ○ Moisture Content (%) PL w LL (20 40 60 80)	Water Level(s)	Backfill Details
	0.00 / 79.86																		
	0.10 / 79.76			GRAVEL (FILL), sand, loose, well graded, grey															
	0.30 / 79.56			SANDY SILT (FILL), some gravel, loose, grey-brown															
1		Hydrovac		GRAVEL (FILL), some sand, trace silt, cobbles, trace boulders, grey-brown															
	1.22 / 78.64			(NATIVE GLACIAL TILL), SILTY SAND, some gravel, boulders and cobbles, grey															
2	2.13 / 77.73			End of Test Pit at 2.13 m BGS Termination Note: Test pit terminated on the top of boulders at 2.13 mBGS; unable to advance with hydrovac.															
3																			
4																			

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-04

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034214.58 m
Easting: 456122.59 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.96 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 0.91 m
Dimension: 1.3 x 0.5 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	● SPT N-Value ▼ DCPT Value (blows 100mm) Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual ○ Moisture Content (%) PL w LL (20 40 60 80)	Water Level(s)	Backfill Details
	0.00 / 79.96	Hydrovac		GRAVEL AND COBBLES (FILL), trace construction debris including broken concrete, wood panels (lumber fragments), broken piping/ cables, sheet metal, some sand, trace silt, loose-compact, grey-brown															
1	0.91 / 79.05			End of Test Pit at 0.91 m BGS Termination Note: Test pit terminated on the top of construction debris (concrete pieces and boulders) at 0.91 mBGS; unable to advance with hydrovac.															
2																			
3																			
4																			

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-05

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034211.87 m
Easting: 456131.90 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.84 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.44 m
Dimension: 0.8 x 0.5 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	Water Level(s)	Backfill Details
1	0.00 / 79.84	Hydrovac		GRAVEL (FILL), some sand, loose, well graded, grey-brown		1		TP-05	☒									
	1.52 / 78.32			(NATIVE GLACIAL TILL), SILTY SAND, some gravel, boulders and cobbles, grey-brown														
2	2.44 / 77.40			End of Test Pit at 2.44 m BGS														
3																		
4																		

Grain Size Analysis

● SPT N-Value
▼ DCPT Value (blows 100mm)
Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak
□ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual
○ Moisture Content (%)
PL w LL
20 40 60 80

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-06

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034208.59 m
Easting: 456118.89 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.90 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.39 m
Dimension: 0.5 x 0.5 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel % / Sand % / Silt % / Clay % / Fines %	Moisture Content %	● SPT N-Value; ▼ DCPT Value (blows 100mm); Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak; □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual; ○ Moisture Content (%); PL w LL; 20 40 60 80	Water Level(s)	Backfill Details
0	0.00 79.90	Hydrovac		GRAVEL (FILL), some sand, trace cobbles, loose, grey											
1															
2	2.10 77.80			(NATIVE GLACIAL TILL) SILTY SAND, some gravel, boulders and cobbles, grey - large boulder at 2.13 m BGS											
	2.39 77.51			End of Test Pit at 2.39 m BGS											
3															
4															

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-07

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034206.23 m
Easting: 456126.34 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.79 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.13 m
Dimension: 0.8 x 0.8 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	Water Level(s)	Backfill Details
	0.00 / 79.79																	
1		Hydrovac		GRAVEL (FILL), some sand, trace silt, well graded, loose, brown-grey - exposed metallic wire at 0.10 m BGS														
	1.22 / 78.57			(NATIVE GLACIAL TILL) SILTY SAND, some gravel, boulders and cobbles, loose, brown-grey		2		TP-07	☒									
2	2.13 / 77.66			End of Test Pit at 2.13 m BGS														
3																		
4																		

Grain Size Analysis

● SPT N-Value
▼ DCPT Value (blows 100mm)
Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak
□ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual
○ Moisture Content (%)
PL w LL
20 40 60 80

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

TEST PIT STRATIGRAPHIC RECORD

TP-08

Project Number: 12650439

Client: Sienna Senior Living
Project: Soil and Groundwater Investigation
Location: 1533 St. Joseph Boulevard, Orleans, ON
Date (dd/mm/yyyy): 31/10/2024
Excavation Company: Tomlinson

Northing: 5034201.91 m
Easting: 456119.77 m
Horizontal Datum: NAD83 / UTM zone 18N
Elevation: 79.76 m
Elevation Datum:

Logged By: Matthew Rousina-Webb
Reviewed By: A. Khandekar
Final Depth: 2.13 m
Dimension: 0.7 x 0.7 m

Coordinates and Elevation Values are Surveyed

Depth Scale (m)	Depth (m) / Elev. (m)	Drilling Method	Strata	Description	Remarks	PID (ppm)	Hand Penetrometer (kPa)	Sample Number	Chem. Analysis	Grain Size Analysis	Grain Size Analysis: Gravel %	Sand %	Silt %	Clay %	Fines %	Moisture Content %	● SPT N-Value ▼ DCPT Value (blows 100mm) Δ Peak Undrained Shear Strength (vane), C_u (kPa)-Peak □ Remoulded Undrained Shear Strength (Vane), C_u (kPa)-Residual ○ Moisture Content (%) PL w LL (20 40 60 80)	Water Level(s)	Backfill Details
0	0.00 79.76																		
1		Hydrovac		GRAVEL (FILL), some sand, loose, grey		1		TP-08											
	1.22 78.54			(NATIVE GLACIAL TILL) SILTY SAND, some gravel, boulders and cobbles, loose, grey															
2	2.13 77.63			End of Test Pit at 2.13 m BGS															
3																			
4																			

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ **At Time of Excavation:**
▼ **Upon Completion of Excavation:**

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

MW1-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: Geoprobe
Drilling Method(s): Power Auger

Northing: 5034262.31 m
Easting: 456133.70 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 78.08 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 2.74 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis / Water Level(s)	Monitoring Well
	0.00 / 78.08									
	0.05 / 78.03		TOPSOIL-trace organics, trace gravel, dark brown, moist							
	0.28 / 77.80		FILL - sandy silt, with gravel, brown, moist			0				
	0.43 / 77.65		FILL- sand, trace organics, borwn, moist							
1			FILL - clayey silt with sand, trace rootlets, treace gravel, brown, moist	1HS	57	0				Bentontie; 0.91 / 77.17 T.O.S.; 1.21 / 76.87
	1.80 / 76.28		SW - sand with gravel, brown, moist			0		1.52-2.25		Sand Screen
2	2.13 / 75.95		SM - silty sand, with gravel, brown, moist	2HS	98					
	2.74 / 75.34					0		2.24-2.74		B.O.S.; 2.74 / 75.34
3			End of Hole at 2.74 m BGS Termination Note: refusal.							

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)
MW1-26	78.91

T.O.S.: Top of Screen
B.O.S.: Bottom of Screen
Screen Diameter: mm
Screen Slot Size:
Material:

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

MW2-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: Geoprobe
Drilling Method(s): Power Auger

Northing: 5034204.64 m
Easting: 456097.85 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 80.07 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 3.66 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis	Water Level(s)	Monitoring Well
	0.00 / 80.07										
1	0.05 / 80.02		TOPSOIL-trace organics, trace gravel, dark brown, moist								
	0.28 / 79.79		FILL- gravel with sand, trace silt, dark brown, moist								
	0.61 / 79.46		FILL - silty clay, some sand, some greval, bbrown, moist			0		0.0-0.76			
	1.52		FILL-silty sand, with gravel, trace plastic debris, brown, moist	1HS	82	0					Bentontie
2	78.55 / 1.93		SC- sand some clay some gravel, brown, moist			0					
	78.14		CL-clay with gravel, trace silt, malleable, brown, wet,	2HS	88	0					1.83 / 78.24 T.O.S. / 2.13 / 77.94
3						0					Sand Screen
				3HS	221	0		3.35-3.66			
	3.66 / 76.41		End of Hole at 3.66 m BGS Termination Note: refusal.								B.O.S. 3.66 / 76.41
4											
5											
6											
7											
8											
9											

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)
MW2-26	80.07

T.O.S.: Top of Screen
B.O.S.: Bottom of Screen
Screen Diameter: mm
Screen Slot Size:
Material:

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

BH3-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: HydroVac
Drilling Method(s): Power Auger

Northing: 5034202.11 m
Easting: 456119.60 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 79.77 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 2.50 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00 / 79.77										
1			SM-sand with silt, with gravel, brown, moist,	1HV		0.1		0.0-0.75			
				2HV		0.1		0.75-1.00			Granular
	1.50 / 78.27		CL-clayey silt, with gravel, brown, moist								
2	2.50 / 77.27		End of Hole at 2.50 m BGS								
3											
4											
5											
6											
7											
8											
9											

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)

Screen Diameter: mm
Screen Slot Size:
Material:

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

BH4-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: HydroVac
Drilling Method(s): Power Auger

Northing: 5034214.79 m
Easting: 456128.78 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 79.95 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 2.50 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00 / 79.95										
1			FILL-gravel, some silt, some clay, moist, trace construction debris (plastic)	1HV		0.1		0.0-0.75			
				2HV		0.1		0.75-1.5			Granlular
	1.50 / 78.45		GP-gravel, large cobbles								
2	2.50 / 77.45		End of Hole at 2.50 m BGS								
3											
4											
5											
6											
7											
8											
9											

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)

Screen Diameter: mm
Screen Slot Size:
Material:

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

MW5-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: Geoprobe
Drilling Method(s): Power Auger

Northing: 5034220.98 m
Easting: 456223.17 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 77.99 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 2.44 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis	Water Level(s)	Monitoring Well
	0.00 / 77.99										
	0.10 / 77.89		Asphalt								
			FILL-gravel, with sand, blakc to grey, moist	1HS	68	0.3					
	0.91 / 77.08		FILL-silt, some sand, with gravel, geotextile present			0.1		0.91-1.52			
	1.52 / 76.47		SM-silty sand, with gravel, grey, moist	2HS	99	0					
	1.98 / 76.01		CL- silty clay, trace gravel, trace organics, malleable, dark brown, moist			0.3		1.98-2.44			
	2.44 / 75.55		End of Hole at 2.44 m BGS Termination Note: refusal.								

Monitoring Well: Bentontie; 0.61 / 77.38; T.O.S. 0.91 / 77.08; Sand Screen; B.O.S. 2.44 / 75.55

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)
MW5-26	77.99

T.O.S.: Top of Screen
B.O.S.: Bottom of Screen
Screen Diameter: mm
Screen Slot Size:
Material:

STRATIGRAPHIC AND INSTRUMENTATION RECORD

(Overburden)

BH6-26

Project Number: 12683832

Client: Sienna Senior Living
Project: 1533-1541 St Joseph Phase Two
Location: 1533-1541 St Joesph Blvd Orleans Onatrio
Date (dd/mm/yyyy): 13/01/2026
Drilling Co. (Driller): Aardvark Drilling Inc.(Kyle)
Equipment Used: Geoprobe
Drilling Method(s): Power Auger

Northing: 5034261.78 m
Easting: 456084.85 m
Horizontal Datum: NAD83(CSRS98) / UTM zone 18N
Elevation: 78.36 m
Elevation Datum:
Coordinates and Elevation Values are Surveyed

Logged By: Matthew Rousina-Webb
Reviewed By: Jordan Reeves
Final Depth: 2.97 m

Depth Scale (m)	Depth (m) / Elev. (m)	Strata	Description	Run Number	Recovery %	PID (ppm)	Methane (ppm)	Sample Number	Chem. Analysis	Water Level(s)	Backfill Details
	0.00 / 78.36										
1	0.75 / 77.61		FILL-gravel, granular material with organics, with sand, geotextile material present, grey, moist	1HS	79	0					
	0.80 / 77.56		FILL - sand, coarse, dark brown, moist CL - clayey silt, with gravel, brown, moist			0		0.76-1.52			Bentonite
2	1.98 / 76.38		MH - sandy silt, grey, dry to moist	2HS	99	0		1.52-2.44			
	2.08 / 76.28		SHALE-fissured rock, black, no odour, some rusty colouring, dry								2.57 / 75.79
3	2.97 / 75.39		End of Hole at 2.97 m BGS								

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
Upon Completion of Drilling:

Well - Reference Elevation(s)	
Location	Elevation (m)

Screen Diameter: mm
Screen Slot Size:
Material:

Appendix C

Analytical Data Reports and Analytical Data Verification Memorandum

Data Verification Report

29 January 2026

To	Greg Brooks, Aditya Khandekar	**Project No.**	12683832
Copy to	Jordan Reeves, Rehoboth Mubedi, Jesse Demaries-Smith, Matthew Rousina-Webb	**DVR No.**	DVR-01
From	Pascal Renella	**Contact No.**	+1 450-902-4349
Project Name	Additional Due Diligence - 1541 St Joseph Blvd, Orleans ON	**Email**	pascal.renella@ghd.com
Subject	Data Quality Assessment and Verification Due dilligence Ottawa, Ontario Sienna Senior Living		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

Laboratory:	ALS Canada Ltd.
Lab Job No.:	WT2432757, WT2432758, WT2600875
Date(s) Sampled:	October 2024 and January 2026
Media Sampled:	Groundwater and soil

QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	☒	☐	☐	☐
Temperature	<10ºC at receipt	☒	☐	☐	☐
Sample Preservation	Required container/preservatives	☒	☐	☐	☐
Field Duplicate (blind)	Within 50%/1xRL for water, 100%/2xRL for soil	☐	☒	☐	☐
Field Blank (blind)	Non detect	☐	☐	☐	☒
Trip Blank	Non detect	☐	☐	☐	☒
Lab QA/QC	Within standard recoveries	☐	☒	☐	☐

The following results are qualified due to low sample volume for analysis:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2600875	01/12/2026	S-12683832-120126-MRW-004	Grain size >75 µm	63.1	J	%
WT2600875	01/14/2026	S-12683832-140126-MRW-014	Grain size >75 µm	48.7	J	%
WT2600875	01/12/2026	S-12683832-120126-MRW-004	Grain Size 0.005-0.075 µm	36.9	J	%
WT2600875	01/14/2026	S-12683832-140126-MRW-014	Grain Size 0.005-0.075 µm	51.3	J	%

The following results are qualified due to field duplicate variability:

Lab Report #	Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
WT2600875	01/13/2026	S-12683832-130126-MRW-006	Thallium	0.335	J	mg/kg
WT2600875	01/13/2026	S-12683832-130126-MRW-007	Thallium	0.239	J	mg/kg

Conclusion:

Based on the assessment detailed in the foregoing, the data summarized are acceptable with the specific qualifications noted above.

Notes:

N/A - Not Applicable

QA/QC - Quality Assurance/Quality Control

RL - Reporting Limit

J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Data verification reference documents:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, September 2016.
2. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, September 2016.
3. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", Laboratory Services Branch, Ministry of the Environment, March 9, 2004, amended as of July 1, 2011.

Regards

Pascal Renella
Chemistry Data Validator / Analytical Coordinator

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2432757**	Page	: 1 of 3
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Date Analysis Commenced	: 05-Nov-2024
C-O-C number	: ----	Issue Date	: 08-Nov-2024 15:51
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
µg/L	micrograms per litre

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
OWP	*Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment.*

Analytical Results

WT2432757-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: GW-12650439-103124-BH3
Client sampling date / time: 31-Oct-2024 16:00

Analyte	CAS Number	Result		LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds									
Benzene	71-43-2	<0.50		0.50	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Ethylbenzene	100-41-4	<0.50		0.50	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Toluene	108-88-3	<0.50		0.50	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Xylene, m+p-	179601-23-1	<0.40		0.40	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Xylene, o-	95-47-6	<0.30		0.30	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Xylenes, total	1330-20-7	<0.50		0.50	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
BTEX, total	----	<1.0		1.0	µg/L	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Hydrocarbons									
F1 (C6-C10)	----	<25		25	µg/L	E581.F1-L/WT	05-Nov-2024	05-Nov-2024	1750405
F2 (C10-C16)	----	<100		100	µg/L	E601.SG/WT	06-Nov-2024	08-Nov-2024	1752169
F3 (C16-C34)	----	260	OWP,	250	µg/L	E601.SG/WT	06-Nov-2024	08-Nov-2024	1752169
F4 (C34-C50)	----	<250		250	µg/L	E601.SG/WT	06-Nov-2024	08-Nov-2024	1752169
F1-BTEX	----	<25		25	µg/L	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<370		370	µg/L	EC581SG/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES		-	-	E601.SG/WT	06-Nov-2024	08-Nov-2024	1752169
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	79.4		1.0	%	E601.SG/WT	06-Nov-2024	08-Nov-2024	1752169
Dichlorotoluene, 3,4-	95-75-0	122		1.0	%	E581.F1-L/WT	05-Nov-2024	05-Nov-2024	1750405
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	101		1.0	%	E611A/WT	05-Nov-2024	05-Nov-2024	1750406
Difluorobenzene, 1,4-	540-36-3	98.6		1.0	%	E611A/WT	05-Nov-2024	05-Nov-2024	1750406

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2432757**	Page	: 1 of 5
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Issue Date	: 08-Nov-2024 15:52
C-O-C number	: ----		
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) GW-12650439-103124-BH3	E581.F1-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	14 days	5 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) GW-12650439-103124-BH3	E601.SG	31-Oct-2024	06-Nov-2024	14 days	6 days	✓	08-Nov-2024	40 days	2 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate) GW-12650439-103124-BH3	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	14 days	5 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	1750406	1	15	6.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1750405	1	15	6.6	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	1750406	1	15	6.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1750405	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1752169	1	14	7.1	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	1750406	1	15	6.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1750405	1	15	6.6	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1752169	1	14	7.1	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	1750406	1	15	6.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1750405	1	15	6.6	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1 (mod)	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BTEX by Headspace GC-MS	E611A ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
F1-BTEX	EC580 ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
SUM F1 to F4 where F2-F4 is SG treated	EC581SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fraction F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50), where F2-F4 have been treated with silica gel. F4G-sg is not used within this calculation due to overlap with other fractions.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: **WT2432757**	Page	: 1 of 5
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Date Analysis Commenced	: 05-Nov-2024
C-O-C number	: ----	Issue Date	: 08-Nov-2024 15:51
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 1		
No. of samples analysed	: 1		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Volatile Organic Compounds (QC Lot: 1750406)											
TY2412341-005	Anonymous	Benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1750405)											
TY2412341-005	Anonymous	F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	<25	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1750406)						
Benzene	71-43-2	E611A	0.5	µg/L	<0.50	----
Ethylbenzene	100-41-4	E611A	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611A	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611A	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611A	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1750405)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1752169)						
F2 (C10-C16)	----	E601.SG	100	µg/L	<100	----
F3 (C16-C34)	----	E601.SG	250	µg/L	<250	----
F4 (C34-C50)	----	E601.SG	250	µg/L	<250	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1750406)									
Benzene	71-43-2	E611A	0.5	µg/L	100 µg/L	100	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.5	µg/L	100 µg/L	98.5	70.0	130	----
Toluene	108-88-3	E611A	0.5	µg/L	100 µg/L	96.7	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.4	µg/L	200 µg/L	106	70.0	130	----
Xylene, o-	95-47-6	E611A	0.3	µg/L	100 µg/L	107	70.0	130	----
Hydrocarbons (QCLot: 1750405)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	107	80.0	120	----
Hydrocarbons (QCLot: 1752169)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3920 µg/L	95.7	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	8200 µg/L	97.9	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4550 µg/L	102	70.0	130	----

Matrix Spike (MS) Report

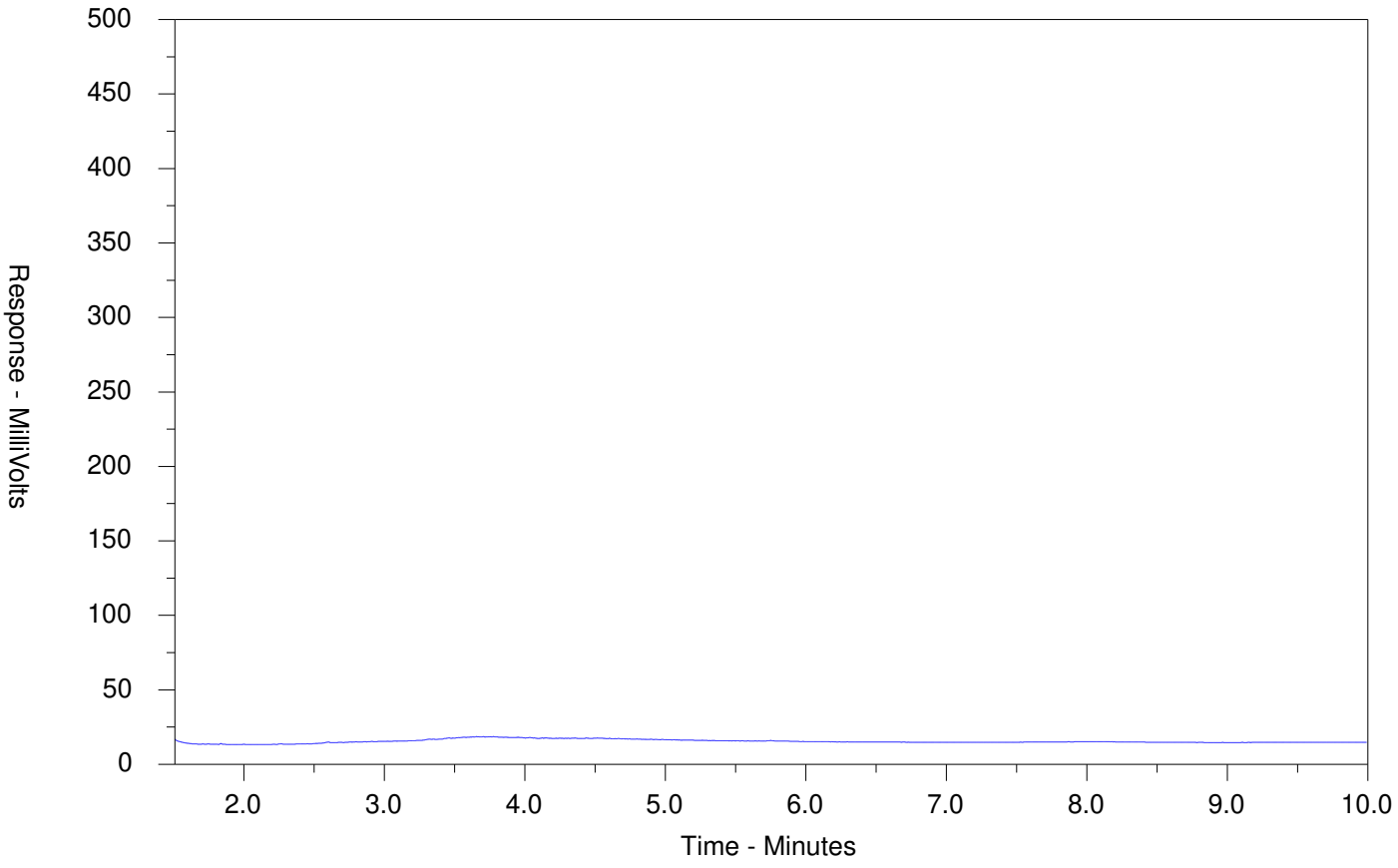
A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1750406)										
TY2412341-005	Anonymous	Benzene	71-43-2	E611A	98.6 µg/L	100 µg/L	98.6	60.0	140	----
		Ethylbenzene	100-41-4	E611A	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Toluene	108-88-3	E611A	93.4 µg/L	100 µg/L	93.4	60.0	140	----
		Xylene, m+p-	179601-23-1	E611A	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611A	104 µg/L	100 µg/L	104	60.0	140	----
Hydrocarbons (QCLot: 1750405)										
TY2412341-005	Anonymous	F1 (C6-C10)	----	E581.F1-L	2100 µg/L	2000 µg/L	105	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432757-001-E601.SG
Client Sample ID: GW-12650439-103124-BH3



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	GHD Ltd. (Acct GHDL100)
Contact:	Pascal Renella
Phone:	519-884-0510
	Company address below will appear on the final report
Street:	455 Phillip St.
City/Province:	Waterloo, ON
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☑ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	GHD Ltd. (GHDL100)
Contact:	

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax pascal.renella@ghd.com
Email 2 See SSOW/PO
Email 3

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax accountspayableCDN@ghd.com
Email 2

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minir
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge mini
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge mini
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge mini
☐ Same day [E2] if received by 10am M-S - 200% rush surchar
fees may apply to rush resuests on weekends, statutory holiday
routine tests

Date and Time Required for all E&P TATs:

For tests that can not be performed according t

Environmental Division
Waterloo
Work Order Reference
WT2432757

Telephone : +1 519 886 6910

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	WT2024GHDL1000175	AFE/Cost Center:	PO#
Job #:	12650439	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): WT2432757 **ALS Contact:** Rick H **Sampler:** MRW

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Analysis Request: Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) — BTEX,F1	F2-F4	SAMPLES ON HOLD	EXTENDED STORAGE	SUSPECTED HAZARD
	GW-12650439-103124-BH3	31-10-24	16:00	WATER	4	X	X			
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					
				WATER	4					

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ YES ☑ NO
Are samples for human consumption/ use?
☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
1.2				8.5			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Matthew Rasina-Wells	31-10-2024	17:00

INITIAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
Tammy Cartrand	NOV 1st/24	9AM

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
	02-Nov-24	10:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

OR029, VW246

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2432758**	Page	: 1 of 6
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Date Analysis Commenced	: 04-Nov-2024
C-O-C number	: ----	Issue Date	: 07-Nov-2024 09:59
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 8		
No. of samples analysed	: 8		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Josphin Masihi	Analyst	Centralized Prep, Waterloo, Ontario
Pauline Vorachack	Project Manager Assistant	Administration, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	VOC, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
%	percent
mg/kg	milligrams per kilogram

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

WT2432758-001

Sub-Matrix:**Soil/Solid** (Matrix: **Soil/Solid**)

Client sample ID: S-12650439-102924-MRW-TP01

Client sampling date / time: 31-Oct-2024 09:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	17.3	0.25	%	E144/WT	-	04-Nov-2024	1749594
Volatile Organic Compounds								
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Toluene	108-88-3	<0.050	0.050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
BTEX, total	----	<0.10	0.1	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F1-BTEX	----	<5.0	5	mg/kg	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.7	1.0	%	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Dichlorotoluene, 3,4-	95-75-0	97.8	1.0	%	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	137	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Difluorobenzene, 1,4-	540-36-3	95.7	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2432758-003

Sub-Matrix:**Soil/Solid** (Matrix: **Soil/Solid**)

Client sample ID: S-12650439-102924-MRW-TP08

Client sampling date / time: 31-Oct-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.6	0.25	%	E144/WT	-	04-Nov-2024	1749594
Volatile Organic Compounds								
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Toluene	108-88-3	<0.050	0.050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
BTEX, total	----	<0.10	0.1	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694

Analytical Results

WT2432758-003

Sub-Matrix:**Soil/Solid**
(Matrix: **Soil/Solid**)

Client sample ID: S-12650439-102924-MRW-TP08
Client sampling date / time: 31-Oct-2024 09:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F1-BTEX	----	<5.0	5	mg/kg	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.4	1.0	%	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Dichlorotoluene, 3,4-	95-75-0	94.9	1.0	%	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	87.2	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Difluorobenzene, 1,4-	540-36-3	91.8	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2432758-004

Sub-Matrix:**Soil/Solid**
(Matrix: **Soil/Solid**)

Client sample ID: S-12650439-102924-MRW-TP05
Client sampling date / time: 31-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	9.77	0.25	%	E144/WT	-	04-Nov-2024	1749594
Volatile Organic Compounds								
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Toluene	108-88-3	<0.050	0.050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
BTEX, total	----	<0.10	0.1	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F1-BTEX	----	<5.0	5	mg/kg	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.4	1.0	%	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Dichlorotoluene, 3,4-	95-75-0	101	1.0	%	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.9	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Analytical Results

WT2432758-004

Sub-Matrix:**Soil/Solid** *Client sample ID:* S-12650439-102924-MRW-TP05

(Matrix: **Soil/Solid**) *Client sampling date / time:* 31-Oct-2024 10:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Difluorobenzene, 1,4-	540-36-3	95.9	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2432758-006

Sub-Matrix:**Soil/Solid** *Client sample ID:* S-12650439-102924-MRW-TP09

(Matrix: **Soil/Solid**) *Client sampling date / time:* 31-Oct-2024 09:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	14.8	0.25	%	E144/WT	-	04-Nov-2024	1749594
Volatile Organic Compounds								
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Toluene	108-88-3	<0.050	0.050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
BTEX, total	----	<0.10	0.1	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F1-BTEX	----	<5.0	5	mg/kg	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.1	1.0	%	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Dichlorotoluene, 3,4-	95-75-0	93.4	1.0	%	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.4	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Difluorobenzene, 1,4-	540-36-3	97.4	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

WT2432758-007

Sub-Matrix:**Soil/Solid** *Client sample ID:* S-12650439-102924-MRW-TP07

(Matrix: **Soil/Solid**) *Client sampling date / time:* 31-Oct-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot

Analytical Results

WT2432758-007

Sub-Matrix:**Soil/Solid**

(Matrix: **Soil/Solid**)

Client sample ID: S-12650439-102924-MRW-TP07

Client sampling date / time: 31-Oct-2024 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	13.7	0.25	%	E144/WT	-	04-Nov-2024	1749594
Volatile Organic Compounds								
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Toluene	108-88-3	<0.050	0.050	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Xylenes, total	1330-20-7	<0.050	0.05	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
BTEX, total	----	<0.10	0.1	mg/kg	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
F1-BTEX	----	<5.0	5	mg/kg	EC580/WT	-	06-Nov-2024	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	06-Nov-2024	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	84.1	1.0	%	E601.SG-L/WT	05-Nov-2024	07-Nov-2024	1749780
Dichlorotoluene, 3,4-	95-75-0	101	1.0	%	E581.F1/WT	05-Nov-2024	05-Nov-2024	1749694
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	91.2	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693
Difluorobenzene, 1,4-	540-36-3	95.9	0.10	%	E611A/WT	05-Nov-2024	05-Nov-2024	1749693

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2432758**	Page	: 1 of 8
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Issue Date	: 07-Nov-2024 09:59
C-O-C number	: ----		
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 8		
No. of samples analysed	: 8		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12650439-102924-MRW-TP01	E581.F1	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12650439-102924-MRW-TP05	E581.F1	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12650439-102924-MRW-TP07	E581.F1	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12650439-102924-MRW-TP08	E581.F1	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12650439-102924-MRW-TP09	E581.F1	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP01	E601.SG-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	07-Nov-2024	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP05	E601.SG-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	07-Nov-2024	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP07	E601.SG-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	07-Nov-2024	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP08	E601.SG-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	07-Nov-2024	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP09	E601.SG-L	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	07-Nov-2024	40 days	2 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP07	E144	31-Oct-2024	----	----	----		04-Nov-2024	----	4 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP01	E144	31-Oct-2024	----	----	----		04-Nov-2024	----	5 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP05	E144	31-Oct-2024	----	----	----		04-Nov-2024	----	5 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP08	E144	31-Oct-2024	----	----	----		04-Nov-2024	----	5 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP09	E144	31-Oct-2024	----	----	----		04-Nov-2024	----	5 days	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap [ON MECP] S-12650439-102924-MRW-TP01-2	HOLD	31-Oct-2024	----	----	----		04-Nov-2024	----	4 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12650439-102924-MRW-TP05-2	HOLD	31-Oct-2024	----	----	----		04-Nov-2024	----	4 days	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12650439-102924-MRW-TP07-2	HOLD	31-Oct-2024	----	----	----		04-Nov-2024	----	4 days	
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12650439-102924-MRW-TP01	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12650439-102924-MRW-TP05	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12650439-102924-MRW-TP07	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12650439-102924-MRW-TP08	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12650439-102924-MRW-TP09	E611A	31-Oct-2024	05-Nov-2024	14 days	5 days	✓	05-Nov-2024	40 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	1749693	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1749694	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1749780	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1749594	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	1749693	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1749694	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1749780	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1749594	1	20	5.0	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	1749693	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1749694	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1749780	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1749594	1	20	5.0	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	1749693	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1749694	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1749780	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BTEX by Headspace GC-MS	E611A ALS Environmental - Waterloo	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
F1-BTEX	EC580 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
Sample Hold Fee for Soil/Solid	HOLD ALS Environmental - Waterloo	Soil/Solid		Fee for storing sample to meet sample integrity requirements and holding times.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Waterloo	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.

QUALITY CONTROL REPORT

Work Order	: **WT2432758**	Page	: 1 of 6
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip Street Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 725 3313	Telephone	: +1 519 886 6910
Project	: 12650439	Date Samples Received	: 01-Nov-2024 09:00
PO	: 735-012056	Date Analysis Commenced	: 04-Nov-2024
C-O-C number	: ----	Issue Date	: 07-Nov-2024 09:59
Sampler	: MRW		
Site	: ----		
Quote number	: 12650439-110-110-10-2024-735-012056		
No. of samples received	: 8		
No. of samples analysed	: 8		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Josphin Masihi	Analyst	Waterloo Centralized Prep, Waterloo, Ontario
Pauline Vorachack	Project Manager Assistant	Waterloo Administration, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 1749594)											
WT2432587-001	Anonymous	Moisture	----	E144	0.25	%	11.7	11.8	1.16%	20%	----
Volatile Organic Compounds (QC Lot: 1749693)											
HA2402686-015	Anonymous	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1749694)											
HA2402686-015	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1749780)											
WT2432732-021	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1749594)						
Moisture	----	E144	0.25	%	<0.25	----
Volatile Organic Compounds (QCLot: 1749693)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 1749694)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 1749780)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1749594)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Volatile Organic Compounds (QCLot: 1749693)									
Benzene	71-43-2	E611A	0.005	mg/kg	3.48 mg/kg	100.0	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	3.48 mg/kg	90.1	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	3.48 mg/kg	91.6	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	6.95 mg/kg	95.7	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	3.48 mg/kg	93.9	70.0	130	----
Hydrocarbons (QCLot: 1749694)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.2 mg/kg	97.2	80.0	120	----
Hydrocarbons (QCLot: 1749780)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	699 mg/kg	98.1	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1460 mg/kg	94.1	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	810 mg/kg	98.6	70.0	130	----

Matrix Spike (MS) Report

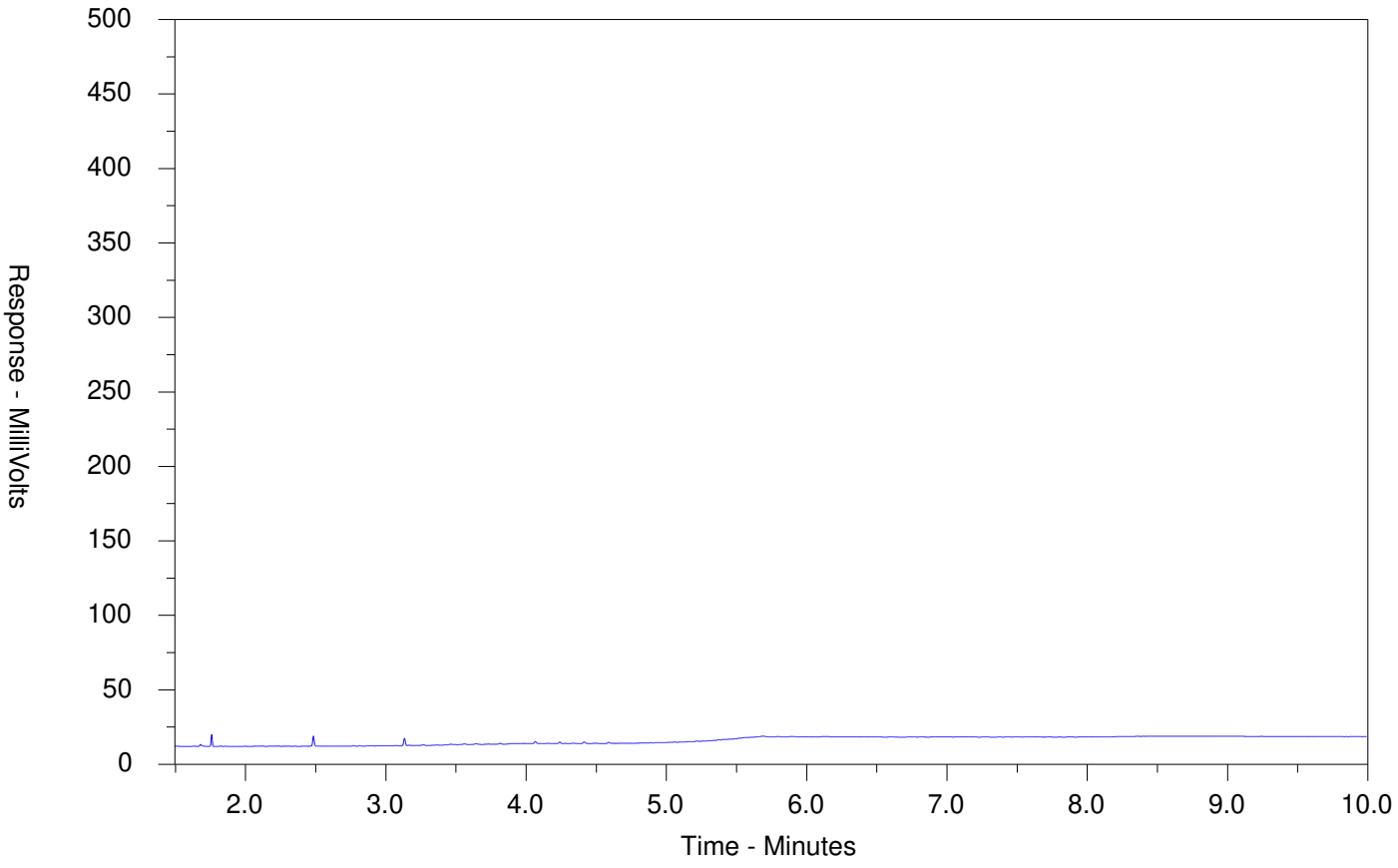
A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1749693)										
HA2402686-015	Anonymous	Benzene	71-43-2	E611A	3.44 mg/kg	3.32 mg/kg	104	60.0	140	----
		Ethylbenzene	100-41-4	E611A	3.10 mg/kg	3.32 mg/kg	93.4	60.0	140	----
		Toluene	108-88-3	E611A	3.14 mg/kg	3.32 mg/kg	94.6	60.0	140	----
		Xylene, m+p-	179601-23-1	E611A	6.60 mg/kg	6.63 mg/kg	99.4	60.0	140	----
		Xylene, o-	95-47-6	E611A	3.22 mg/kg	3.32 mg/kg	97.0	60.0	140	----
Hydrocarbons (QCLot: 1749694)										
HA2402686-015	Anonymous	F1 (C6-C10)	----	E581.F1	68.1 mg/kg	66.3 mg/kg	103	60.0	140	----
Hydrocarbons (QCLot: 1749780)										
WT2432732-021	Anonymous	F2 (C10-C16)	----	E601.SG-L	539 mg/kg	531 mg/kg	102	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	1100 mg/kg	1110 mg/kg	99.4	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	631 mg/kg	616 mg/kg	102	60.0	140	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432758-001-E601.SG-L
Client Sample ID: S-12650439-102924-MRW-TP01



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

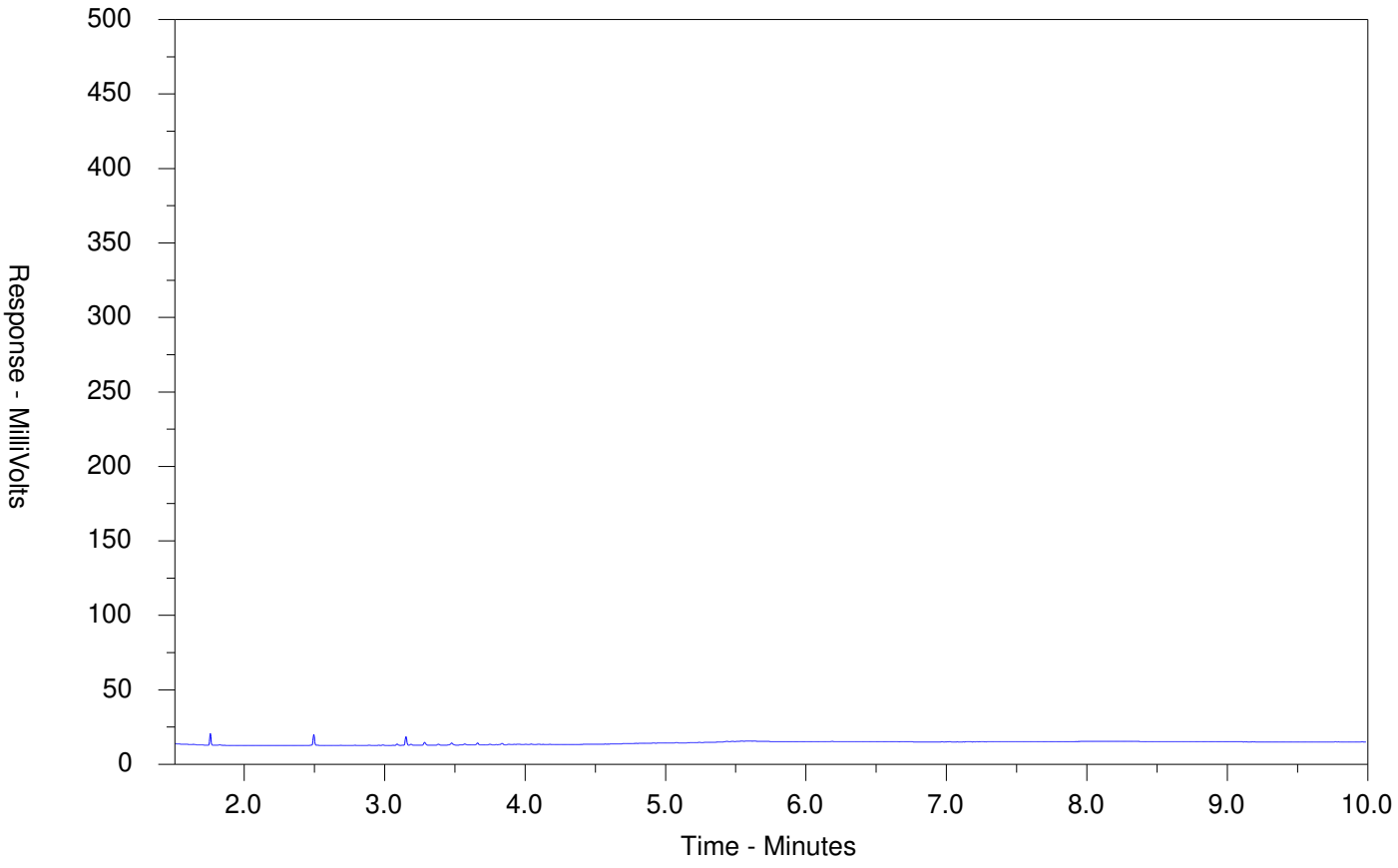
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432758-003-E601.SG-L
Client Sample ID: S-12650439-102924-MRW-TP08



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

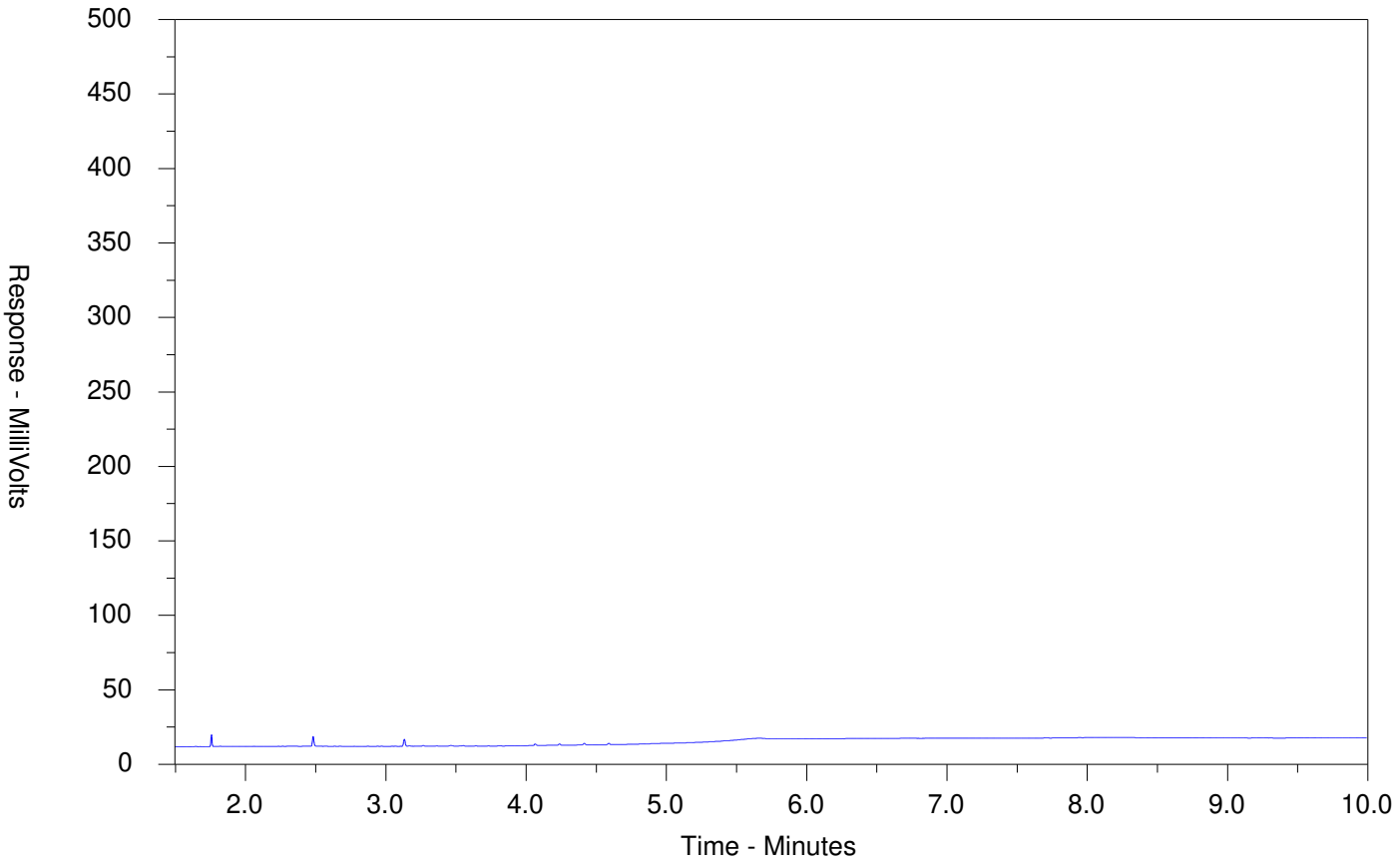
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432758-004-E601.SG-L
Client Sample ID: S-12650439-102924-MRW-TP05



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

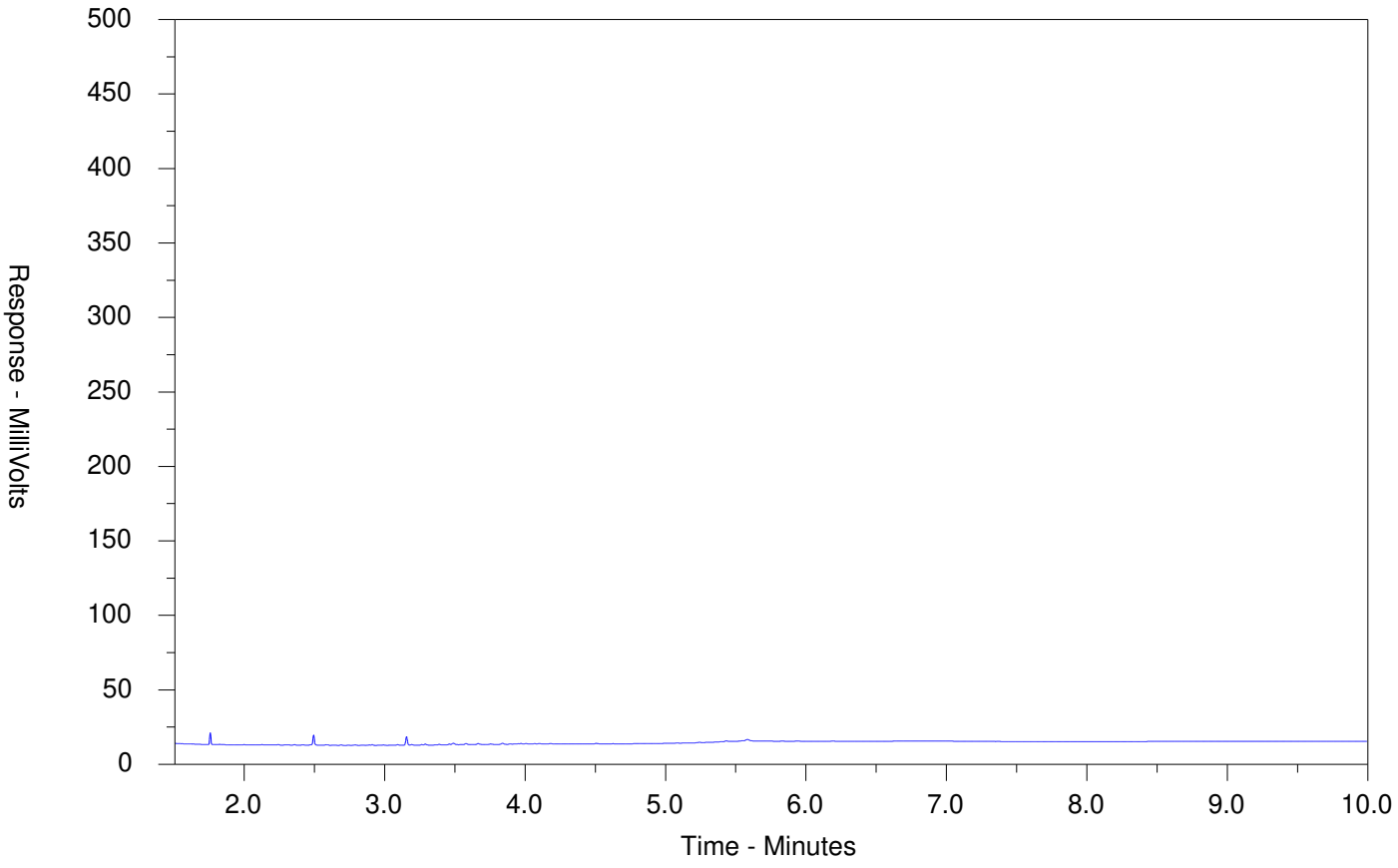
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432758-006-E601.SG-L
Client Sample ID: S-12650439-102924-MRW-TP09



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

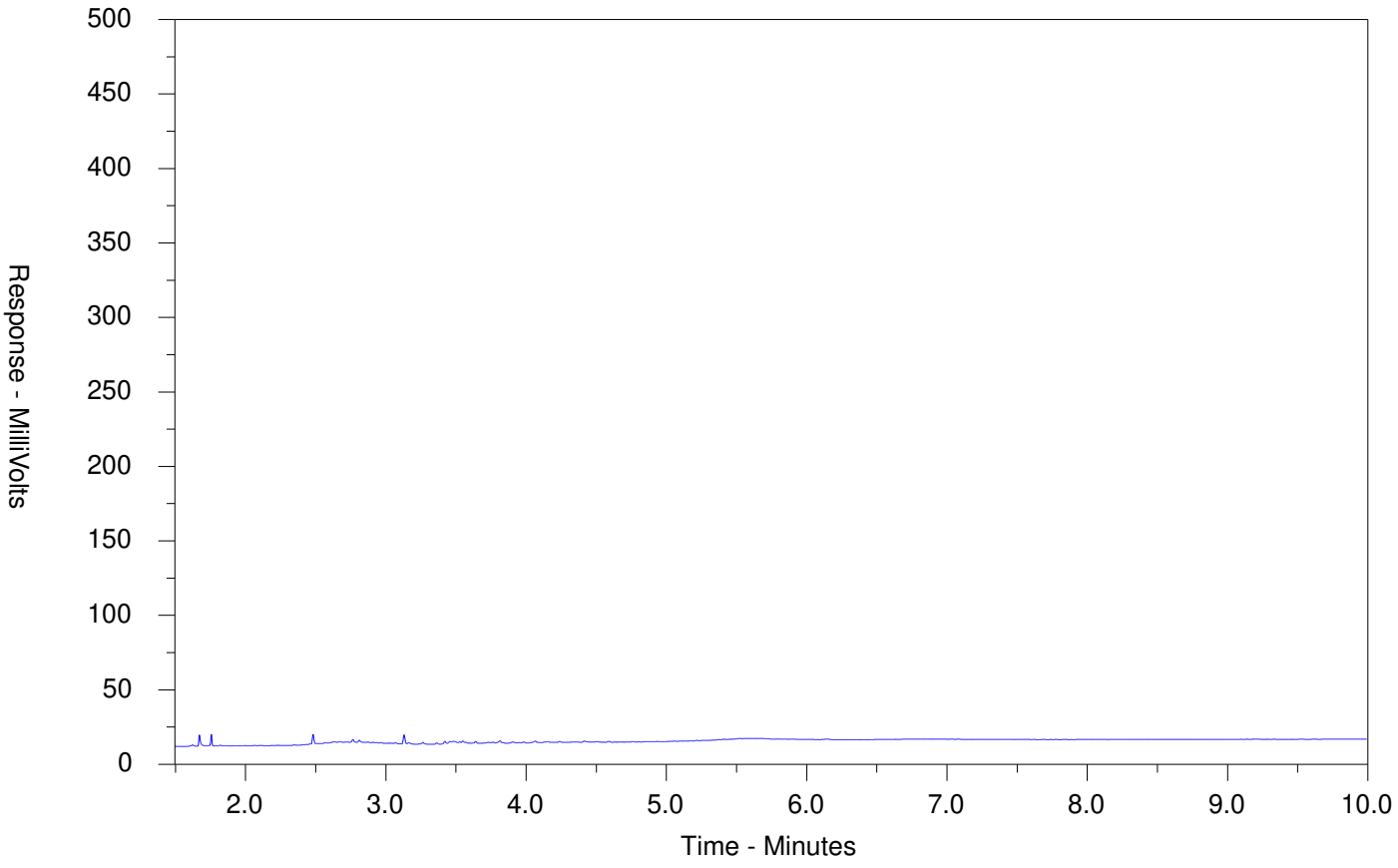
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2432758-007-E601.SG-L
Client Sample ID: S-12650439-102924-MRW-TP07



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Canada Toll Free: 1 800 668 9878

Page 1 of 1

www.alsglobal.com

Environmental Division Waterloo
Work Order Reference
WT2432758

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	GHD Ltd. (Acct GHDL100)	Select Report Format: ☑ PDF ☑ EXCEL ☑ EDD (DIGITAL)	☑ Routine [R] if received by 3pm M-F - no surcharges app.
Contact:	Pascal Renella	Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge
Phone:	519-884-0510	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge
	Company address below will appear on the final report	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge
Street:	455 Phillip St.	Email 1 or Fax pascal.renella@ghd.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge
City/Province:	Waterloo, ON	Email 2 See SSOW/PO	☐ Same day [E2] if received by 10am M-S - 200% rush surc
Postal Code:	N2L 3X2	Email 3	☐ fees may apply to rush resuests on weekends, statutory hol
Invoice To	Same as Report To ☑ YES ☐ NO	**Invoice Recipients**	☐ routine tests
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	Date and Time Required for all E&P TATs:
Company:	GHD Ltd. (GHDL100)	Email 1 or Fax accountspayableCDN@ghd.com	For tests that can not be performed accordin
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	WT2024GHDL1000175	AFE/Cost Center:	PO#
Job #:	12650439	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): WT2432758 **ALS Contact:** Rick H **Sampler:** MRW

Analysis — Indicate Filtered (F), Preserved (P) or Filtere

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX,F1	F2-F4	Metals	SAMPLES ON HOLD	EXTENDED STORAGE REQUIR	SUSPECTED HAZARD (see note
	S-12650439-102924-MRW-TP01	31-10-24	09:35	SOIL	3	X	X				
	S-12650439-102924-MRW-TP01-2		09:35	SOIL	1			X	X		
	S-12650439-102924-MRW-TP08		09:15	SOIL	3	X	X				
	S-12650439-102924-MRW-TP05		10:30	SOIL	3	X	X				
	S-12650439-102924-MRW-TP05-2		10:30	SOIL	1			X	X		
	S-12650439-102924-MRW-TP09		09:55	SOIL	3	X	X				
	S-12650439-102924-MRW-TP07		13:30	SOIL	3	X	X				
	S-12650439-102924-MRW-TP07-2		13:30	SOIL	1			X	X		

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☒ NO	
Are samples for human consumption/ use? ☐ YES ☒ NO	

SAMPLE RECEIPT DETAILS (lab use only)

Cooling Method: ☐ NONE ☑ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
1.3				8.5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Matthew Rousing-Wells	31-10-2024	17:00	Tammy Chartrand	Nov 1st/24	9AM		02-Nov-24	10:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

VS019, SA070

ALS Canada Ltd.

right solutions. right partner.

CERTIFICATE OF ANALYSIS

Work Order	: **WT2600875**	Page	: 1 of 42
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip St. Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 450 902 4349	Telephone	: +1 519 886 6910
Project	: 12683832	Date Samples Received	: 14-Jan-2026 12:45
PO	: 735-	Date Analysis Commenced	: 15-Jan-2026
C-O-C number	: 20-1044224, 20-1044223	Issue Date	: 22-Jan-2026 17:09
Sampler	: ----		
Site	: ----		
Quote number	: 12683832		
No. of samples received	: 15		
No. of samples analysed	: 15		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Jon Fisher	Laboratory Manager - Environmental	Inorganics, Waterloo, Ontario
Jon Fisher	Laboratory Manager - Environmental	Metals, Waterloo, Ontario
Josphin Masihi	Supervisor I	Centralized Prep, Waterloo, Ontario
Stella Chen	Laboratory Assistant	Inorganics, Saskatoon, Saskatchewan

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Unit	*Description*
-	no units
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
mS/cm	millisiemens per centimetre
pH units	pH units

>: greater than.
<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

S-12683832-MRW-002, -011, -013, -014: Container for Grain Size not received at laboratory, but requested on Chain of Custody / analytical request form; subsample may not be obtained from other containers to meet request due to limited volume.

PSAL:Sample 004,014: Limited sample was available for PSA (100g minimum is standard). Measurement Uncertainty for PSA results may be higher than usual.

Qualifiers

Qualifier	*Description*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*

Analytical Results

WT2600875-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-001
Client sampling date / time: 12-Jan-2026 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.383	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	10.2	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.77	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	2.46	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	13.0	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	68.6	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	3.86	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	2.98	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	109	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.47	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	37.5	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	16.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	5.89	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	13.5	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	8.95	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0140	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	0.91	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	12.5	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.158	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.455	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	24.2	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.12	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-001
Client sampling date / time: 12-Jan-2026 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	16-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	16-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	91.5	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	83.9	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710

Analytical Results

WT2600875-001

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-001
Client sampling date / time: 12-Jan-2026 11:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	108	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	109	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	95.8	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	94.3	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	99.5	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-002

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-002
Client sampling date / time: 12-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.242	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	9.22	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.75	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Particle Size								
Sand (>0.075mm)	----	48.4	1.0	%	E178/SK	-	19-Jan-2026	2421753
Fines (<0.075mm)	----	51.6	1.0	%	E178/SK	-	19-Jan-2026	2421753
Texture class	----	Fine	-	-	E178/SK	-	19-Jan-2026	2421753
Cyanides								

Analytical Results

WT2600875-002

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-002
Client sampling date / time: 12-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	2.82	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	2.43	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	36.6	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	3.86	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	3.53	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	83.3	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.49	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	14.2	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	21.4	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	9.46	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	18.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	10.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0129	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.69	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	16.9	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.224	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.539	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	31.8	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.11	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-002

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-002
Client sampling date / time: 12-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	21-Jan-2026	22-Jan-2026	2424256
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	21-Jan-2026	22-Jan-2026	2424256
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	21-Jan-2026	22-Jan-2026	2424256
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	21-Jan-2026	22-Jan-2026	2424256
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.2	1.0	%	E601.SG-L/WT	21-Jan-2026	22-Jan-2026	2424256
Dichlorotoluene, 3,4-	95-75-0	92.7	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	106	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2600875-002

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-002

Client sampling date / time: 12-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	90.5	0.1	%	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Chrysene-d12	1719-03-5	98.8	0.1	%	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Naphthalene-d8	1146-65-2	110	0.1	%	E641A/WT	21-Jan-2026	21-Jan-2026	2424257
Phenanthrene-d10	1517-22-2	100	0.1	%	E641A/WT	21-Jan-2026	21-Jan-2026	2424257

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-003

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-003

Client sampling date / time: 12-Jan-2026 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.118	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	11.3	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.71	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	4.50	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	1.28	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	1.28	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	0.14	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								

Analytical Results

WT2600875-003

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-003
Client sampling date / time: 12-Jan-2026 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	3.28	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	63.3	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.41	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	11.3	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.14	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	21.3	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	9.20	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	15.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	10.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0097	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.29	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	17.1	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.246	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.574	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	32.0	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-003

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-003
Client sampling date / time: 12-Jan-2026 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	16-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	16-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.7	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	84.6	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	104	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	104	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Analytical Results

WT2600875-003

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-003

Client sampling date / time: 12-Jan-2026 15:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	88.5	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	89.4	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	100	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	93.1	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1254	11097-69-1	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1260	11096-82-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Polychlorinated biphenyls [PCBs], total	1336-36-3	<0.030	0.030	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Polychlorinated Biphenyls Surrogates								
Decachlorobiphenyl	2051-24-3	102	0.1	%	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Tetrachloro-m-xylene	877-09-8	92.3	0.1	%	E687/WT	20-Jan-2026	21-Jan-2026	2423062

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-004

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-004

Client sampling date / time: 12-Jan-2026 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.226	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	12.3	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.68	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Particle Size								

Analytical Results

WT2600875-004

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-004
Client sampling date / time: 12-Jan-2026 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Particle Size								
Sand (>0.075mm)	----	63.1	1.0	%	E178/SK	-	19-Jan-2026	2421753
Fines (<0.075mm)	----	36.9	1.0	%	E178/SK	-	19-Jan-2026	2421753
Texture class	----	Coarse	-	-	E178/SK	-	19-Jan-2026	2421753
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	13.0	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	3.67	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	12.9	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	0.81	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	5.28	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	191	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	1.13	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	44.2	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.41	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	40.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	37.3	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	65.3	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	44.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.110	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	2.45	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	64.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	0.32	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.591	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.485	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	38.0	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	37.5	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.12	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-004

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-004
Client sampling date / time: 12-Jan-2026 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	0.934	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	0.055	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	0.055	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	18.9	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	18.9	5.6	mg/kg	EC580/WT	-	16-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	16-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.4	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	91.6	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710

Analytical Results

WT2600875-004

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-120126-MRW-004
Client sampling date / time: 12-Jan-2026 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	114	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	113	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	91.4	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	93.4	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	111	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	101	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polychlorinated Biphenyls								
Aroclor 1016	12674-11-2	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1221	11104-28-2	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1232	11141-16-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1242	53469-21-9	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1248	12672-29-6	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1254	11097-69-1	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1260	11096-82-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1262	37324-23-5	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Aroclor 1268	11100-14-4	<0.010	0.010	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Polychlorinated biphenyls [PCBs], total	1336-36-3	<0.030	0.030	mg/kg	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Polychlorinated Biphenyls Surrogates								
Decachlorobiphenyl	2051-24-3	99.1	0.1	%	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Tetrachloro-m-xylene	877-09-8	89.9	0.1	%	E687/WT	20-Jan-2026	21-Jan-2026	2423062
Organochlorine Pesticides								
Aldrin	309-00-2	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, cis- (alpha)	5103-71-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, total	57-74-9	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063

Analytical Results

WT2600875-004

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-120126-MRW-004

(Matrix: **Soil/Solid**) *Client sampling date / time:* 12-Jan-2026 15:10

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Organochlorine Pesticides								
Chlordane, trans- (gamma)	5103-74-2	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 2,4'-	53-19-0	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 4,4'-	72-54-8	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 2,4'-	3424-82-6	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 4,4'-	72-55-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 2,4'-	789-02-6	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 4,4'-	50-29-3	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Dieldrin	60-57-1	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, alpha-	959-98-8	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, beta-	33213-65-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endrin	72-20-8	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor	76-44-8	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor epoxide	1024-57-3	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobenzene	118-74-1	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobutadiene	87-68-3	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachloroethane	67-72-1	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Methoxychlor	72-43-5	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	98.7	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Tetrachloro-m-xylene	877-09-8	69.2	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-005

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-005

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.615	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	11.4	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.54	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	11.2	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	1.87	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	99.0	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	7.21	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555

Analytical Results

WT2600875-005

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-005
Client sampling date / time: 13-Jan-2026 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	4.85	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	130	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.51	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	10.3	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	31.4	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	10.7	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	21.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	10.9	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0158	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.27	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	21.5	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.278	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.610	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	44.2	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	39.2	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.11	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-005

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-005

Client sampling date / time: 13-Jan-2026 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	16-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	16-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.7	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	91.5	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	111	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	110	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-006

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-006

Client sampling date / time: 13-Jan-2026 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								

Analytical Results

WT2600875-006

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-006
Client sampling date / time: 13-Jan-2026 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.148	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	8.72	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.92	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Particle Size								
Sand (>0.075mm)	----	42.5	1.0	%	E178/SK	-	19-Jan-2026	2421753
Fines (<0.075mm)	----	57.5	1.0	%	E178/SK	-	19-Jan-2026	2421753
Texture class	----	Fine	-	-	E178/SK	-	19-Jan-2026	2421753
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	3.22	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	1.50	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	8.71	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	1.01	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	4.52	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	151	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.43	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	12.6	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	21.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	9.56	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	15.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	12.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0106	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	2.11	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	19.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.335	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.586	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	29.8	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-006

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-006
Client sampling date / time: 13-Jan-2026 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	16-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	16-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								

Analytical Results

WT2600875-006

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-006

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 12:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.3	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	84.0	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	101	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	101	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Organochlorine Pesticides								
Aldrin	309-00-2	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, cis- (alpha)	5103-71-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, total	57-74-9	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, trans- (gamma)	5103-74-2	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 2,4'-	53-19-0	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 4,4'-	72-54-8	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 2,4'-	3424-82-6	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 4,4'-	72-55-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 2,4'-	789-02-6	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 4,4'-	50-29-3	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Dieldrin	60-57-1	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, alpha-	959-98-8	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, beta-	33213-65-9	<0.00030	0.00030	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, total	----	<0.00042	0.00042	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endrin	72-20-8	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor	76-44-8	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor epoxide	1024-57-3	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobenzene	118-74-1	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobutadiene	87-68-3	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.00020	0.00020	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachloroethane	67-72-1	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Methoxychlor	72-43-5	<0.00050	0.00050	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	86.9	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Tetrachloro-m-xylene	877-09-8	68.5	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-007

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-007

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.159	0.00500	mS/cm	E100-L/WT	20-Jan-2026	21-Jan-2026	2422840

Analytical Results

WT2600875-007

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-007
Client sampling date / time: 13-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	9.41	0.25	%	E144/WT	-	16-Jan-2026	2419194
pH (1:2 soil:CaCl2-aq)	----	7.93	0.10	pH units	E108A/WT	20-Jan-2026	21-Jan-2026	2422823
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	20-Jan-2026	21-Jan-2026	2422821
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	3.34	0.50	mg/L	E484/WT	20-Jan-2026	21-Jan-2026	2422841
Magnesium, soluble ion content	7439-95-4	1.46	0.50	mg/L	E484/WT	20-Jan-2026	21-Jan-2026	2422841
Sodium, soluble ion content	17341-25-2	7.99	0.50	mg/L	E484/WT	20-Jan-2026	21-Jan-2026	2422841
Sodium adsorption ratio [SAR]	----	0.92	0.10	-	E484/WT	20-Jan-2026	21-Jan-2026	2422841
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Arsenic	7440-38-2	3.67	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Barium	7440-39-3	158	0.50	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Boron	7440-42-8	11.0	5.0	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	20-Jan-2026	21-Jan-2026	2422842
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Chromium	7440-47-3	18.1	0.50	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Cobalt	7440-48-4	8.15	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Copper	7440-50-8	12.8	0.50	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Lead	7439-92-1	8.64	0.50	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Mercury	7439-97-6	0.0138	0.0050	mg/kg	E510C/WT	20-Jan-2026	21-Jan-2026	2422844
Molybdenum	7439-98-7	1.68	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Nickel	7440-02-0	15.8	0.50	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Thallium	7440-28-0	0.239	0.050	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Uranium	7440-61-1	0.500	0.050	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Vanadium	7440-62-2	25.6	0.20	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Zinc	7440-66-6	19.0	2.0	mg/kg	E440C/WT	20-Jan-2026	21-Jan-2026	2422843
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	20-Jan-2026	21-Jan-2026	2422822

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-008

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-008
Client sampling date / time: 13-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.710	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	12.9	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.42	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554

Analytical Results

WT2600875-008

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-008
Client sampling date / time: 13-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	6.32	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	1.15	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	132	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	12.7	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	2.97	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	95.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.38	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	11.0	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.59	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	24.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	6.75	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	11.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	8.73	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0216	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	0.89	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	15.1	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.147	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.493	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	26.8	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-008

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-008
Client sampling date / time: 13-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	93.0	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	82.2	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	102	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	102	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								

Analytical Results

WT2600875-008

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-008

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 13:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	0.072	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	0.057	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	92.8	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	92.6	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	105	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	97.6	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-009

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-009

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.663	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	21.3	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	6.89	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	14.1	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	4.79	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	101	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	5.93	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								

Analytical Results

WT2600875-009

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-009
Client sampling date / time: 13-Jan-2026 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Antimony	7440-36-0	0.23	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	11.0	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	192	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.73	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	11.7	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.42	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	0.373	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	36.9	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	11.5	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	16.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	21.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0669	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.34	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	23.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	0.41	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	0.14	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.239	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.969	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	44.8	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	66.2	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-009

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-009
Client sampling date / time: 13-Jan-2026 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.6	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	78.2	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.1	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	100	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	0.051	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	0.099	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	0.422	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	0.485	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	0.650	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	0.293	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Analytical Results

WT2600875-009

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-130126-MRW-009
Client sampling date / time: 13-Jan-2026 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(k)fluoranthene	207-08-9	0.241	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	0.525	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	0.075	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	1.10	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	0.325	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	0.516	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	0.863	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	94.7	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	96.5	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	106	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	99.9	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Organochlorine Pesticides								
Aldrin	309-00-2	<0.00052 DLM,	0.00052	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, cis- (alpha)	5103-71-9	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, total	57-74-9	<0.00148	0.00148	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Chlordane, trans- (gamma)	5103-74-2	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 2,4'-	53-19-0	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, 4,4'-	72-54-8	0.00214	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDD, total	----	0.00214	0.00148	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 2,4'-	3424-82-6	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, 4,4'-	72-55-9	0.00961	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDE, total	----	0.00961	0.00148	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 2,4'-	789-02-6	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, 4,4'-	50-29-3	0.00169	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
DDT, total	----	0.00169	0.00148	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Dieldrin	60-57-1	0.00107	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, alpha-	959-98-8	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, beta-	33213-65-9	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endosulfan, total	----	<0.00148	0.00148	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Endrin	72-20-8	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor	76-44-8	<0.00026 DLM,	0.00026	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Heptachlor epoxide	1024-57-3	<0.00052 DLM,	0.00052	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobenzene	118-74-1	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorobutadiene	87-68-3	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.00026 DLM,	0.00026	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Hexachloroethane	67-72-1	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Methoxychlor	72-43-5	<0.00105 DLM,	0.00105	mg/kg	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	114	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063

Analytical Results

WT2600875-009

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-009

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 13:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Organochlorine Pesticides Surrogates								
Tetrachloro-m-xylene	877-09-8	52.6	0.1	%	E660F-T/WT	20-Jan-2026	21-Jan-2026	2423063

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-010

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-130126-MRW-010

(Matrix: **Soil/Solid**) *Client sampling date / time:* 13-Jan-2026 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	21.4	0.25	%	E144/WT	-	19-Jan-2026	2422103
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-010

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12683832-130126-MRW-010
Client sampling date / time: 13-Jan-2026 13:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	80.5	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	96.2	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	95.8	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-011

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: S-12683832-140126-MRW-011
Client sampling date / time: 14-Jan-2026 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.702	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	10.3	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.90	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Particle Size								
Sand (>0.075mm)	----	49.1	1.0	%	E178/SK	-	19-Jan-2026	2421753
Fines (<0.075mm)	----	50.9	1.0	%	E178/SK	-	19-Jan-2026	2421753
Texture class	----	Fine	-	-	E178/SK	-	19-Jan-2026	2421753
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	15.2	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	2.36	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	106	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	6.68	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559

Analytical Results

WT2600875-011

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-011
Client sampling date / time: 14-Jan-2026 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Arsenic	7440-38-2	3.58	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	63.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.44	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	10.9	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.14	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	22.1	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	8.86	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	15.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	9.24	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0180	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.28	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	16.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.221	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.540	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	31.7	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.11	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-011

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-011
Client sampling date / time: 14-Jan-2026 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.9	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	86.5	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	106	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	107	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Analytical Results

WT2600875-011

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-140126-MRW-011

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jan-2026 10:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	99.0	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	99.6	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	112	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	104	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-012

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-140126-MRW-012

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jan-2026 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.247	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	10.3	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.87	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	9.40	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	1.83	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	20.2	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	1.58	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	3.24	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	167	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.34	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	8.5	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	<0.10	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	17.7	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559

Analytical Results

WT2600875-012

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-012
Client sampling date / time: 14-Jan-2026 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Cobalt	7440-48-4	8.55	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	15.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	8.49	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0081	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.71	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	14.8	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.239	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.491	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	28.4	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-012

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-012
Client sampling date / time: 14-Jan-2026 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.7	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	78.8	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	102	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	102	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Analytical Results

WT2600875-012

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-012

Client sampling date / time: 14-Jan-2026 10:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	90.7	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	93.4	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	104	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	96.1	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-013

Sub-Matrix:**Soil** (Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-013

Client sampling date / time: 14-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.577	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	20.8	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.66	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	72.4	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	3.43	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	33.5	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	1.04	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	4.16	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	118	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.40	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	7.5	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.89	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	35.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	8.12	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	17.2	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	15.5	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0698	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	0.52	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	19.4	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559

Analytical Results

WT2600875-013

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-013
Client sampling date / time: 14-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.136	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.581	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Vanadium	7440-62-2	39.9	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	57.7	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	0.24	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709

Analytical Results

WT2600875-013

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-013
Client sampling date / time: 14-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	101	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	101	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.2	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	73.8	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	98.6	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	101	0.10	%	E611D/WT	15-Jan-2026	15-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	0.066	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	0.053	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	0.089	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	0.074	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	93.6	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	95.2	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Analytical Results

WT2600875-013

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-140126-MRW-013

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jan-2026 12:25

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons Surrogates								
Naphthalene-d8	1146-65-2	108	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	100	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-014

Sub-Matrix:**Soil** *Client sample ID:* S-12683832-140126-MRW-014

(Matrix: **Soil/Solid**) *Client sampling date / time:* 14-Jan-2026 12:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Conductivity (1:2 leachate)	----	0.264	0.00500	mS/cm	E100-L/WT	19-Jan-2026	20-Jan-2026	2421556
Moisture	----	11.6	0.25	%	E144/WT	-	19-Jan-2026	2422103
pH (1:2 soil:CaCl2-aq)	----	7.95	0.10	pH units	E108A/WT	19-Jan-2026	21-Jan-2026	2421554
Particle Size								
Sand (>0.075mm)	----	48.7	1.0	%	E178/SK	-	19-Jan-2026	2421753
Fines (<0.075mm)	----	51.3	1.0	%	E178/SK	-	19-Jan-2026	2421753
Texture class	----	Fine	-	-	E178/SK	-	19-Jan-2026	2421753
Cyanides								
Cyanide, weak acid dissociable	----	<0.050	0.050	mg/kg	E336A/WT	19-Jan-2026	20-Jan-2026	2421550
Fixed-Ratio Extractables								
Calcium, soluble ion content	7440-70-2	15.5	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Magnesium, soluble ion content	7439-95-4	3.78	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium, soluble ion content	17341-25-2	19.4	0.50	mg/L	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Sodium adsorption ratio [SAR]	----	1.15	0.10	-	E484/WT	19-Jan-2026	20-Jan-2026	2421555
Metals								
Antimony	7440-36-0	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Arsenic	7440-38-2	3.52	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Barium	7440-39-3	150	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Beryllium	7440-41-7	0.48	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron	7440-42-8	12.7	5.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Boron, hot water soluble	7440-42-8	0.11	0.10	mg/kg	E487/WT	19-Jan-2026	20-Jan-2026	2421557
Cadmium	7440-43-9	<0.200	0.200	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Chromium	7440-47-3	23.0	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Cobalt	7440-48-4	10.5	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Copper	7440-50-8	16.3	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Lead	7439-92-1	8.60	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Mercury	7439-97-6	0.0171	0.0050	mg/kg	E510C/WT	19-Jan-2026	20-Jan-2026	2421558
Molybdenum	7439-98-7	1.28	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Nickel	7440-02-0	18.6	0.50	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Selenium	7782-49-2	<0.20	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Silver	7440-22-4	<0.10	0.10	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Thallium	7440-28-0	0.227	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Uranium	7440-61-1	0.548	0.050	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559

Analytical Results

WT2600875-014

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-014
Client sampling date / time: 14-Jan-2026 12:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Vanadium	7440-62-2	31.6	0.20	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Zinc	7440-66-6	<33.0	33.0	mg/kg	E440C/WT	19-Jan-2026	20-Jan-2026	2421559
Speciated Metals								
Chromium, hexavalent [Cr VI]	18540-29-9	<0.10	0.10	mg/kg	E532/WT	18-Jan-2026	21-Jan-2026	2421553
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709

Analytical Results

WT2600875-014

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: S-12683832-140126-MRW-014
Client sampling date / time: 14-Jan-2026 12:35

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds								
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F2 (C10-C16)	----	<10	10	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F2-Naphthalene	----	<25	25	mg/kg	EC600/WT	-	21-Jan-2026	-
F3 (C16-C34)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F3-PAH	n/a	<50	50	mg/kg	EC600/WT	-	21-Jan-2026	-
F4 (C34-C50)	----	<50	50	mg/kg	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons, total (C6-C50)	n/a	<80	80	mg/kg	EC581/WT	-	20-Jan-2026	-
Chromatogram to baseline at nC50	n/a	YES	-	-	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.7	1.0	%	E601.SG-L/WT	20-Jan-2026	21-Jan-2026	2421552
Dichlorotoluene, 3,4-	95-75-0	84.3	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	109	0.10	%	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	109	0.10	%	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Acenaphthylene	208-96-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Anthracene	120-12-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benz(a)anthracene	56-55-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(a)pyrene	50-32-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(b+j)fluoranthene	n/a	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(g,h,i)perylene	191-24-2	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Benzo(k)fluoranthene	207-08-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene	218-01-9	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Dibenz(a,h)anthracene	53-70-3	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluoranthene	206-44-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Fluorene	86-73-7	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Indeno(1,2,3-cd)pyrene	193-39-5	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1-	90-12-0	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 1+2-	----	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Methylnaphthalene, 2-	91-57-6	<0.030	0.030	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene	91-20-3	<0.010	0.010	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene	85-01-8	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Pyrene	129-00-0	<0.050	0.050	mg/kg	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Polycyclic Aromatic Hydrocarbons Surrogates								
Acridine-d9	34749-75-2	91.8	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Chrysene-d12	1719-03-5	93.2	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Naphthalene-d8	1146-65-2	103	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551
Phenanthrene-d10	1517-22-2	96.3	0.1	%	E641A/WT	20-Jan-2026	21-Jan-2026	2421551

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

WT2600875-015

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid**)

Client sample ID: TRIP BLANK
Client sampling date / time: 14-Jan-2026 00:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	<0.25	0.25	%	E144/WT	-	19-Jan-2026	2422103
Volatile Organic Compounds								
Acetone	67-64-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Benzene	71-43-2	<0.0050	0.0050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromodichloromethane	75-27-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromoform	75-25-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Bromomethane	74-83-9	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Carbon tetrachloride	56-23-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Chlorobenzene	108-90-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Chloroform	67-66-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dibromochloromethane	124-48-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dibromoethane, 1,2-	106-93-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,2-	95-50-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,3-	541-73-1	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorobenzene, 1,4-	106-46-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichlorodifluoromethane	75-71-8	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethane, 1,1-	75-34-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethane, 1,2-	107-06-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, 1,1-	75-35-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, cis-1,2-	156-59-2	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloroethylene, trans-1,2-	156-60-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloromethane	75-09-2	<0.045	0.045	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropane, 1,2-	78-87-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, cis+trans-1,3-	542-75-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, cis-1,3-	10061-01-5	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Dichloropropylene, trans-1,3-	10061-02-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Ethylbenzene	100-41-4	<0.015	0.015	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Hexane, n-	110-54-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl ethyl ketone [MEK]	78-93-3	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl isobutyl ketone [MIBK]	108-10-1	<0.50	0.50	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.040	0.040	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Styrene	100-42-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethane, 1,1,1,2-	630-20-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethane, 1,1,2,2-	79-34-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Tetrachloroethylene	127-18-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Toluene	108-88-3	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethane, 1,1,1-	71-55-6	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethane, 1,1,2-	79-00-5	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichloroethylene	79-01-6	<0.010	0.010	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Trichlorofluoromethane	75-69-4	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Vinyl chloride	75-01-4	<0.020	0.020	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Xylene, m+p-	179601-23-1	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Xylene, o-	95-47-6	<0.030	0.030	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Xylenes, total	1330-20-7	<0.050	0.050	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
BTEX, total	----	<0.10	0.10	mg/kg	E611D/WT	15-Jan-2026	16-Jan-2026	2418709

Analytical Results

WT2600875-015

Sub-Matrix:**Soil**
(Matrix: **Soil/Solid)**

Client sample ID: TRIP BLANK
Client sampling date / time: 14-Jan-2026 00:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Hydrocarbons								
F1 (C6-C10)	----	<5.0	5.0	mg/kg	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
F1-BTEX	----	<5.0	5.0	mg/kg	EC580/WT	-	20-Jan-2026	-
Hydrocarbons Surrogates								
Dichlorotoluene, 3,4-	95-75-0	83.8	1.0	%	E581.F1/WT	15-Jan-2026	15-Jan-2026	2418710
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	114	0.10	%	E611D/WT	15-Jan-2026	16-Jan-2026	2418709
Difluorobenzene, 1,4-	540-36-3	117	0.10	%	E611D/WT	15-Jan-2026	16-Jan-2026	2418709

Please refer to the General Comments section for an explanation of any result qualifiers detected.

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2600875**	Page	: 1 of 29
Client	: **GHD Limited**	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip St. Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 450 902 4349	Telephone	: +1 519 886 6910
Project	: 12683832	Date Samples Received	: 14-Jan-2026 12:45
PO	: 735-	Issue Date	: 22-Jan-2026 17:09
C-O-C number	: 20-1044224, 20-1044223		
Sampler	: ----		
Site	: ----		
Quote number	: 12683832		
No. of samples received	: 15		
No. of samples analysed	: 15		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E336A	14-Jan-2026	19-Jan-2026	14 days	4 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E336A	14-Jan-2026	19-Jan-2026	14 days	4 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E336A	13-Jan-2026	19-Jan-2026	14 days	5 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E336A	13-Jan-2026	19-Jan-2026	14 days	5 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-009	E336A	13-Jan-2026	19-Jan-2026	14 days	5 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E336A	14-Jan-2026	19-Jan-2026	14 days	5 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E336A	14-Jan-2026	19-Jan-2026	14 days	5 days	✓	20-Jan-2026	14 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E336A	12-Jan-2026	19-Jan-2026	14 days	6 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E336A	12-Jan-2026	19-Jan-2026	14 days	6 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E336A	12-Jan-2026	19-Jan-2026	14 days	6 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-005	E336A	13-Jan-2026	19-Jan-2026	14 days	6 days	✓	20-Jan-2026	14 days	2 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E336A	13-Jan-2026	20-Jan-2026	14 days	7 days	✓	21-Jan-2026	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-001	E336A	12-Jan-2026	19-Jan-2026	14 days	7 days	✓	20-Jan-2026	14 days	2 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12683832-140126-MRW-011	E581.F1	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12683832-140126-MRW-012	E581.F1	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
S-12683832-140126-MRW-013	E581.F1	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-140126-MRW-014	E581.F1	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-005	E581.F1	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-006	E581.F1	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-008	E581.F1	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-009	E581.F1	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-010	E581.F1	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] TRIP BLANK	E581.F1	14-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-001	E581.F1	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-002	E581.F1	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-003	E581.F1	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-004	E581.F1	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E601.SG-L	14-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E601.SG-L	14-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E601.SG-L	14-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E601.SG-L	14-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-005	E601.SG-L	13-Jan-2026	20-Jan-2026	14 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E601.SG-L	13-Jan-2026	20-Jan-2026	14 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E601.SG-L	13-Jan-2026	20-Jan-2026	14 days	7 days	✓	21-Jan-2026	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E601.SG-L	13-Jan-2026	20-Jan-2026	14 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-001	E601.SG-L	12-Jan-2026	20-Jan-2026	14 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E601.SG-L	12-Jan-2026	20-Jan-2026	14 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E601.SG-L	12-Jan-2026	20-Jan-2026	14 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E601.SG-L	12-Jan-2026	21-Jan-2026	14 days	9 days	✓	22-Jan-2026	40 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-013	E487	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-014	E487	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-005	E487	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-006	E487	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-008	E487	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E487	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-011	E487	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-012	E487	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-001	E487	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E487	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E487	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E487	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E487	13-Jan-2026	20-Jan-2026	180 days	7 days	✓	21-Jan-2026	180 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E510C	14-Jan-2026	19-Jan-2026	28 days	5 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E510C	14-Jan-2026	19-Jan-2026	28 days	5 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-005	E510C	13-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E510C	13-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E510C	13-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-009	E510C	13-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E510C	14-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E510C	14-Jan-2026	19-Jan-2026	28 days	6 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E510C	12-Jan-2026	19-Jan-2026	28 days	7 days	✓	20-Jan-2026	28 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E510C	12-Jan-2026	19-Jan-2026	28 days	7 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E510C	12-Jan-2026	19-Jan-2026	28 days	7 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E510C	12-Jan-2026	19-Jan-2026	28 days	7 days	✓	20-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E510C	13-Jan-2026	20-Jan-2026	28 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-013	E440C	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	5 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-014	E440C	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	5 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-005	E440C	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-006	E440C	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-008	E440C	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E440C	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-011	E440C	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-012	E440C	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-001	E440C	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E440C	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E440C	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E440C	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E440C	13-Jan-2026	20-Jan-2026	180 days	7 days	✓	21-Jan-2026	180 days	7 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-013	E484	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E484	14-Jan-2026	19-Jan-2026	180 days	5 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-005	E484	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E484	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E484	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-009	E484	13-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E484	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E484	14-Jan-2026	19-Jan-2026	180 days	6 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E484	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-002	E484	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E484	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E484	12-Jan-2026	19-Jan-2026	180 days	7 days	✓	20-Jan-2026	180 days	0 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E484	13-Jan-2026	20-Jan-2026	180 days	7 days	✓	21-Jan-2026	180 days	1 days	✓
Organochlorine Pesticides : OCPs by GC-MS-MS (Trace Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-006	E660F-T	13-Jan-2026	20-Jan-2026	60 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Organochlorine Pesticides : OCPs by GC-MS-MS (Trace Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E660F-T	13-Jan-2026	20-Jan-2026	60 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Organochlorine Pesticides : OCPs by GC-MS-MS (Trace Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E660F-T	12-Jan-2026	20-Jan-2026	60 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve										
Glass soil jar/Teflon lined cap										
S-12683832-140126-MRW-011	E178	14-Jan-2026	----	----	----		19-Jan-2026	180 days	5 days	✓
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve										
Glass soil jar/Teflon lined cap										
S-12683832-140126-MRW-014	E178	14-Jan-2026	----	----	----		19-Jan-2026	180 days	5 days	✓
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve										
Glass soil jar/Teflon lined cap										
S-12683832-130126-MRW-006	E178	13-Jan-2026	----	----	----		19-Jan-2026	180 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve										
Glass soil jar/Teflon lined cap										
S-12683832-120126-MRW-002	E178	12-Jan-2026	----	----	----		19-Jan-2026	180 days	7 days	✓
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve										
Glass soil jar/Teflon lined cap										
S-12683832-120126-MRW-004	E178	12-Jan-2026	----	----	----		19-Jan-2026	180 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-013	E100-L	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	20-Jan-2026	30 days	5 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-014	E100-L	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	20-Jan-2026	30 days	5 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-005	E100-L	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-006	E100-L	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-008	E100-L	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E100-L	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-011	E100-L	14-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E100-L	14-Jan-2026	19-Jan-2026	30 days	6 days	✓	20-Jan-2026	30 days	6 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E100-L	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	20-Jan-2026	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-002	E100-L	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	20-Jan-2026	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-003	E100-L	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	20-Jan-2026	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-004	E100-L	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	20-Jan-2026	30 days	7 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-007	E100-L	13-Jan-2026	20-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E144	12-Jan-2026	----	----	----		16-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-002	E144	12-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-003	E144	12-Jan-2026	----	----	----		16-Jan-2026	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E144	12-Jan-2026	----	----	----		16-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-005	E144	13-Jan-2026	----	----	----		16-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-006	E144	13-Jan-2026	----	----	----		16-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E144	13-Jan-2026	----	----	----		16-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-008	E144	13-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E144	13-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-010	E144	13-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-011	E144	14-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-140126-MRW-012	E144	14-Jan-2026	----	----	----		19-Jan-2026	----	----	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E144	14-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E144	14-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil methanol vial [ON MECP] TRIP BLANK	E144	14-Jan-2026	----	----	----		19-Jan-2026	----	----	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E108A	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	21-Jan-2026	30 days	5 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E108A	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	21-Jan-2026	30 days	5 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E108A	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	21-Jan-2026	30 days	5 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E108A	14-Jan-2026	19-Jan-2026	30 days	5 days	✓	21-Jan-2026	30 days	5 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-005	E108A	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E108A	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-008	E108A	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-009	E108A	13-Jan-2026	19-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-001	E108A	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-002	E108A	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E108A	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E108A	12-Jan-2026	19-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-130126-MRW-007	E108A	13-Jan-2026	20-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-003	E687	12-Jan-2026	20-Jan-2026	365 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
S-12683832-120126-MRW-004	E687	12-Jan-2026	20-Jan-2026	365 days	8 days	✓	21-Jan-2026	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E641A	14-Jan-2026	20-Jan-2026	60 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E641A	14-Jan-2026	20-Jan-2026	60 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E641A	14-Jan-2026	20-Jan-2026	60 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E641A	14-Jan-2026	20-Jan-2026	60 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E641A	13-Jan-2026	20-Jan-2026	60 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-009	E641A	13-Jan-2026	20-Jan-2026	60 days	7 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E641A	12-Jan-2026	20-Jan-2026	60 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-003	E641A	12-Jan-2026	20-Jan-2026	60 days	8 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-004	E641A	12-Jan-2026	20-Jan-2026	60 days	8 days	✓	21-Jan-2026	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-002	E641A	12-Jan-2026	21-Jan-2026	60 days	9 days	✓	21-Jan-2026	40 days	0 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-013	E532	14-Jan-2026	18-Jan-2026	30 days	4 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-014	E532	14-Jan-2026	18-Jan-2026	30 days	4 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-005	E532	13-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-006	E532	13-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-008	E532	13-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-009	E532	13-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-011	E532	14-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-140126-MRW-012	E532	14-Jan-2026	18-Jan-2026	30 days	5 days	✓	21-Jan-2026	7 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-001	E532	12-Jan-2026	18-Jan-2026	30 days	6 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-002	E532	12-Jan-2026	18-Jan-2026	30 days	6 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-003	E532	12-Jan-2026	18-Jan-2026	30 days	6 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-120126-MRW-004	E532	12-Jan-2026	18-Jan-2026	30 days	6 days	✓	21-Jan-2026	7 days	2 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] S-12683832-130126-MRW-007	E532	13-Jan-2026	20-Jan-2026	30 days	7 days	✓	21-Jan-2026	7 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-140126-MRW-011	E611D	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-140126-MRW-012	E611D	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-140126-MRW-013	E611D	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-140126-MRW-014	E611D	14-Jan-2026	15-Jan-2026	14 days	1 days	✓	16-Jan-2026	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-005	E611D	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-006	E611D	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-008	E611D	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-009	E611D	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-130126-MRW-010	E611D	13-Jan-2026	15-Jan-2026	14 days	2 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] TRIP BLANK	E611D	14-Jan-2026	15-Jan-2026	14 days	2 days	✓	16-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-001	E611D	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-002	E611D	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] S-12683832-120126-MRW-003	E611D	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
S-12683832-120126-MRW-004	E611D	12-Jan-2026	15-Jan-2026	14 days	3 days	✓	15-Jan-2026	40 days	0 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = QC frequency outside specification; ✓ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	2421556	2	40	5.0	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2421554	2	35	5.7	5.0	✓
Moisture Content by Gravimetry	E144	2419194	2	40	5.0	5.0	✓
CCME fine/coarse Particle Size Analysis by wet sieve	E178	2421753	1	8	12.5	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	2421550	2	40	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2421559	2	40	5.0	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	2421555	2	40	5.0	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2421557	2	40	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2421558	2	40	5.0	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	2421553	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	2418710	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	2421552	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2418709	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	2421551	2	23	8.7	5.0	✓
OCPs by GC-MS-MS (Trace Level)	E660F-T	2423063	1	3	33.3	5.0	✓
PCB Aroclors by GC-MS	E687	2423062	1	6	16.6	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	2421556	4	40	10.0	10.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	2421554	2	35	5.7	5.0	✓
Moisture Content by Gravimetry	E144	2419194	2	40	5.0	5.0	✓
CCME fine/coarse Particle Size Analysis by wet sieve	E178	2421753	1	8	12.5	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	2421550	2	40	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2421559	4	40	10.0	10.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	2421555	4	40	10.0	10.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2421557	4	40	10.0	10.0	✓
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2421558	4	40	10.0	10.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	2421553	4	40	10.0	10.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	2418710	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	2421552	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2418709	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	2421551	2	23	8.7	5.0	✓
OCPs by GC-MS-MS (Trace Level)	E660F-T	2423063	1	3	33.3	5.0	✓
PCB Aroclors by GC-MS	E687	2423062	1	6	16.6	5.0	✓
Method Blanks (MB)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	2421556	2	40	5.0	5.0	✓

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Method Blanks (MB) - Continued							
Moisture Content by Gravimetry	E144	2419194	2	40	5.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	2421550	2	40	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	2421559	2	40	5.0	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	2421555	2	40	5.0	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2421557	2	40	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	2421558	2	40	5.0	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	2421553	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	2418710	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	2421552	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2418709	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	2421551	2	23	8.7	5.0	✓
OCPs by GC-MS-MS (Trace Level)	E660F-T	2423063	1	3	33.3	5.0	✓
PCB Aroclors by GC-MS	E687	2423062	1	6	16.6	5.0	✓
Matrix Spikes (MS)							
WAD Cyanide (0.01M NaOH Extraction)	E336A	2421550	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	2418710	1	20	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	2421552	2	26	7.6	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	2418709	1	20	5.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	2421551	2	23	8.7	5.0	✓
OCPs by GC-MS-MS (Trace Level)	E660F-T	2423063	1	3	33.3	5.0	✓
PCB Aroclors by GC-MS	E687	2423062	1	6	16.6	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L ALS Environmental - Waterloo	Soil/Solid	CSSS Ch. 15 (mod)/APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a soil sample that has been added in a defined ratio of soil to deionized water, then shaken well and allowed to settle. Conductance is measured in the fluid that is observed in the upper layer.
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A ALS Environmental - Waterloo	Soil/Solid	MECP E3530	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C) and is carried out in accordance with procedures described in the Analytical Protocol (prescriptive method). A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling, or decanting and then analyzed using a pH meter and electrode. This method is equivalent to ASTM D4972 and is acceptable for topsoil analysis.
Moisture Content by Gravimetry	E144 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
CCME fine/coarse Particle Size Analysis by wet sieve	E178 ALS Environmental - Saskatoon	Soil/Solid	CCME Vol 4 Analytical Methods	An air-dried sample is reduced to < 2 mm size and mixed with a dispersing agent (sodium hexametaphosphate). The sample is washed through a 200 mesh (0.075 mm) sieve. The retained mass of sample is used to determine % sand fraction. If the percentage of sand is >50%, the soil is considered to be coarse textured soil. If the percentage of sand is <50%, the soil is considered to be fine textured.
WAD Cyanide (0.01M NaOH Extraction)	E336A ALS Environmental - Waterloo	Soil/Solid	ON MECP E3015 (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 355 µm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484 ALS Environmental - Waterloo	Soil/Solid	SW846 6010C	A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.
Boron-Hot Water Extractable by ICPOES	E487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO_3 and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
PAHs in Soil/solid by Hex:Ace GC-MS	E641A ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with hexane/acetone and analyzed by GC-MS. Benzo(b+j+k)fluoranthene is reported as the arithmetic sum of Benzo(b+j)fluoranthene and Benzo(k)fluoranthene; the limit of reporting (LOR) for this sum is calculated by the root-sum-of-squares (RSS) of the component LORs (per CCME Vol. 4). Where reported, the Index of Additive Cancer Risk (IACR; unitless) and Benzo[a]pyrene toxic potency equivalents (B[a]P-TEQ; in soil concentration units) are calculated per the CCME PAH Soil Quality Guidelines fact sheet (2010) and/or AB Tier 1 using the individually measured PAH results (not pre-summed groupings). For these calculations, any included PAH that is not detected is assigned one-half of its limit of reporting (LOR).
OCPs by GC-MS-MS (Trace Level)	E660F-T ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	OCPs are analyzed by GC-MS-MS.
PCB Aroclors by GC-MS	E687 ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS. Total PCBs are reported as the sum of all detected Aroclors. The detection limit for the total is determined using the root-sum-of-squares (RSS) approach, as defined in CCME, Volume 4: Analytical Methods.
F1-BTEX	EC580 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.
F2 to F3 minus PAH	EC600 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1	F2-Naphthalene = CCME Fraction 2 (C10-C16) minus Naphthalene F3-PAH = CCME Fraction 3 (C16-C34) minus sPhenanthrene, Fluoranthene, Pyrene, Benz(a)anthracene, benzo(b+j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, and Dibenz(a,h)anthracene.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 ALS Environmental - Waterloo	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Leach 1:2 Soil : 0.01CaCl2 - As Received for pH	EP108A ALS Environmental - Waterloo	Soil/Solid	MOEE E3137A	A minimum 10g portion of the sample, as received, is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil by centrifuging, settling or decanting and then analyzed using a pH meter and electrode.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Cyanide Extraction for CFA (0.01M NaOH)	EP333A ALS Environmental - Waterloo	Soil/Solid	ON MECP E3015 (mod)	Extraction for various cyanide analysis is by rotary extraction of the soil with 0.01M Sodium Hydroxide.
Digestion for Metals and Mercury (355 µm Sieve)	EP440C ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are sieved through a 355 µm sieve, and digested with HNO_3 and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 ALS Environmental - Waterloo	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Waterloo	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Waterloo	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.
Pesticides, PCB, PAH, and Neutral Extractable Chlorinated Hydrocarbons Extraction	EP660 ALS Environmental - Waterloo	Soil/Solid	EPA 3570 (mod)	A homogenized subsample is extracted with organic solvents using a mechanical shaker.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Saskatoon	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and reservation of wet subsamples a portion of homogenized sample is set in a tray and dried at less than 60°C until dry. The sample is then particle size reduced with an automated crusher or mortar and pestle, typically to <2 mm. Further size reduction may be needed for particular tests.

ALS Canada Ltd.

QUALITY CONTROL REPORT

Work Order	: **WT2600875**		
Client	: GHD Limited	Laboratory	: ALS Environmental - Waterloo
Contact	: Pascal Renella	Account Manager	: Rick Hawthorne
Address	: 455 Phillip St. Waterloo ON Canada N2L 3X2	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 450 902 4349	Telephone	: +1 519 886 6910
Project	: 12683832	Date Samples Received	: 14-Jan-2026 12:45
PO	: 735-	Date Analysis Commenced	: 15-Jan-2026
C-O-C number	: 20-1044224, 20-1044223	Issue Date	: 22-Jan-2026 17:10
Sampler	: ----		
Site	: ----		
Quote number	: 12683832		
No. of samples received	: 15		
No. of samples analysed	: 15		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- @ReferenceMaterial!
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
David Tremblett	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Jon Fisher	Laboratory Manager - Environmental	Waterloo Metals, Waterloo, Ontario
Jon Fisher	Laboratory Manager - Environmental	Waterloo Inorganics, Waterloo, Ontario
Josphin Masihi	Supervisor I	Waterloo Centralized Prep, Waterloo, Ontario
Stella Chen	Laboratory Assistant	Saskatoon Inorganics, Saskatoon, Saskatchewan

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

Anonymous=Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number=Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO=Data Quality Objective.
LOR=Limit of Reporting (detection limit).
RPD=Relative Percent Difference
# =Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Soil

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2419194)											
HA2600161-001	Anonymous	Moisture	----	E144	0.25	%	6.29	5.83	7.59 %	20%	---
Physical Tests(QC Lot: 2421554)											
WT2600808-001	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.95	8.01	0.752 %	5%	---
Physical Tests(QC Lot: 2421556)											
WT2600808-002	Anonymous	Conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	2.17 mS/cm	2050	5.69 %	20%	---
Physical Tests(QC Lot: 2422103)											
WT2600876-001	Anonymous	Moisture	----	E144	0.25	%	3.01	2.84	5.87 %	20%	---
Physical Tests(QC Lot: 2422823)											
WT2600808-007	Anonymous	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	7.98	7.98	0.00 %	5%	---
Physical Tests(QC Lot: 2422840)											
WT2600808-004	Anonymous	Conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	0.260 mS/cm	257	1.16 %	20%	---
Particle Size(QC Lot: 2421753)											
HA2600161-001	Anonymous	Sand (>0.075mm)	----	E178	1.0	%	54.5	56.6	3.91 %	20%	---
Cyanides(QC Lot: 2421550)											
WT2600808-001	Anonymous	Cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
Cyanides(QC Lot: 2422821)											
WT2600808-006	Anonymous	Cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
Metals(QC Lot: 2421555)											
WT2600808-002	Anonymous	Calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	98.0	93.7	4.49 %	30%	---
		Magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	11.9	11.2	6.06 %	30%	---
		Sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	300	277	7.97 %	30%	---
Metals(QC Lot: 2421557)											
WT2600808-001	Anonymous	Boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.62	0.59	5.01 %	40%	---
Metals(QC Lot: 2421558)											
WT2600808-001	Anonymous	Mercury	7439-97-6	E510C	0.0050	mg/kg	0.0084	0.0083	0.0001	Diff <2x LOR	---
Metals(QC Lot: 2421559)											
WT2600808-001	Anonymous	Antimony	7440-36-0	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Arsenic	7440-38-2	E440C	0.10	mg/kg	1.64	1.70	3.56 %	30%	---
		Barium	7440-39-3	E440C	0.50	mg/kg	15.6	15.9	1.92 %	40%	---
		Beryllium	7440-41-7	E440C	0.10	mg/kg	0.13	0.14	0.01	Diff <2x LOR	---
		Boron	7440-42-8	E440C	5.0	mg/kg	7.3	8.2	1.0	Diff <2x LOR	---
		Cadmium	7440-43-9	E440C	0.200	mg/kg	<0.200	<0.200	0	Diff <2x LOR	---
		Chromium	7440-47-3	E440C	0.50	mg/kg	10.8	11.0	1.49 %	30%	---
		Cobalt	7440-48-4	E440C	0.10	mg/kg	2.65	2.81	5.90 %	30%	---
		Copper	7440-50-8	E440C	0.50	mg/kg	14.3	14.2	0.289 %	30%	---

Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals(QC Lot: 2421559)											
		Lead	7439-92-1	E440C	0.50	mg/kg	4.95	5.32	7.21 %	40%	---
		Molybdenum	7439-98-7	E440C	0.10	mg/kg	0.93	0.96	2.62 %	40%	---
		Nickel	7440-02-0	E440C	0.50	mg/kg	6.41	6.44	0.384 %	30%	---
		Selenium	7782-49-2	E440C	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Silver	7440-22-4	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Thallium	7440-28-0	E440C	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Uranium	7440-61-1	E440C	0.050	mg/kg	0.682	0.740	8.22 %	30%	---
		Vanadium	7440-62-2	E440C	0.20	mg/kg	15.3	16.4	7.00 %	30%	---
		Zinc	7440-66-6	E440C	33.0	mg/kg	<33.0	<33.0	0	Diff <2x LOR	---
Metals(QC Lot: 2422841)											
WT2600808-004	Anonymous	Calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	3.49	3.34	4.39 %	30%	---
		Magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	0.75	0.72	0.03	Diff <2x LOR	---
		Sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	29.8	28.0	6.23 %	30%	---
Metals(QC Lot: 2422842)											
WT2600792-024	Anonymous	Boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.28	0.27	0.010	Diff <2x LOR	---
Metals(QC Lot: 2422843)											
WT2600792-024	Anonymous	Antimony	7440-36-0	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Arsenic	7440-38-2	E440C	0.10	mg/kg	3.23	3.08	4.46 %	30%	---
		Barium	7440-39-3	E440C	0.50	mg/kg	62.0	63.4	2.09 %	40%	---
		Beryllium	7440-41-7	E440C	0.10	mg/kg	0.23	0.21	0.02	Diff <2x LOR	---
		Boron	7440-42-8	E440C	5.0	mg/kg	5.4	5.3	0.1	Diff <2x LOR	---
		Cadmium	7440-43-9	E440C	0.200	mg/kg	<0.200	<0.200	0	Diff <2x LOR	---
		Chromium	7440-47-3	E440C	0.50	mg/kg	8.57	8.70	1.48 %	30%	---
		Cobalt	7440-48-4	E440C	0.10	mg/kg	4.09	3.99	2.27 %	30%	---
		Copper	7440-50-8	E440C	0.50	mg/kg	31.0	30.3	2.34 %	30%	---
		Lead	7439-92-1	E440C	0.50	mg/kg	6.22	6.05	2.77 %	40%	---
		Molybdenum	7439-98-7	E440C	0.10	mg/kg	0.40	0.37	0.03	Diff <2x LOR	---
		Nickel	7440-02-0	E440C	0.50	mg/kg	8.72	8.69	0.323 %	30%	---
		Selenium	7782-49-2	E440C	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Silver	7440-22-4	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Thallium	7440-28-0	E440C	0.050	mg/kg	0.052	0.050	0.001	Diff <2x LOR	---
		Uranium	7440-61-1	E440C	0.050	mg/kg	0.332	0.303	0.029	Diff <2x LOR	---
		Vanadium	7440-62-2	E440C	0.20	mg/kg	14.3	16.0	11.5 %	30%	---
		Zinc	7440-66-6	E440C	2.0	mg/kg	22.3	23.9	6.71 %	30%	---
Metals(QC Lot: 2422844)											
WT2600792-024	Anonymous	Mercury	7439-97-6	E510C	0.0050	mg/kg	0.0089	0.0081	0.0008	Diff <2x LOR	---

Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Speciated Metals(QC Lot: 2421553)											
WT2600808-001	Anonymous	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	<0.10	0.14	0.04	Diff <2x LOR	---
Speciated Metals(QC Lot: 2422822)											
WT2600808-006	Anonymous	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
Volatile Organic Compounds(QC Lot: 2418709)											
WT2600875-001	S-12683832-120126-	Acetone	67-64-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	---
		Bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Bromoform	75-25-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chloroform	67-66-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	---
		Dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
		Ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	---
		Hexane, n-	110-54-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	---
		Styrene	100-42-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Toluene	108-88-3	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---

Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds(QC Lot: 2418709)											
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	---
		Xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
		Xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
Hydrocarbons(QC Lot: 2418710)											
WT2600875-001	S-12683832-120126-	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	---
Hydrocarbons(QC Lot: 2421552)											
WT2600829-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	314	270	15.2 %	40%	---
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	99	84	15	Diff <2x LOR	---
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	---
Hydrocarbons(QC Lot: 2424256)											
WT2600816-005	Anonymous	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	<10	0	Diff <2x LOR	---
		F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	---
		F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	<50	0	Diff <2x LOR	---
Polycyclic Aromatic Hydrocarbons(QC Lot: 2421551)											
WT2600829-001	Anonymous	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	0.083	0.105	0.023	Diff <2x LOR	J
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	0.183	0.208	12.7 %	50%	---
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	0.357	0.398	11.0 %	50%	---
		Naphthalene	91-20-3	E641A	0.010	mg/kg	1.13	1.31	14.7 %	50%	---
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	0.084	0.109	0.025	Diff <2x LOR	J
		Pyrene	129-00-0	E641A	0.050	mg/kg	0.076	0.094	0.017	Diff <2x LOR	J

Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2424257)											
WT2600875-002	S-12683832-120126-	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	---
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
Polychlorinated Biphenyls(QC Lot: 2423062)											
WT2600875-004	S-12683832-120126-	Aroclor 1016	12674-11-2	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1221	11104-28-2	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1232	11141-16-5	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1242	53469-21-9	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1248	12672-29-6	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1254	11097-69-1	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1260	11096-82-5	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1262	37324-23-5	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Aroclor 1268	11100-14-4	E687	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
Organochlorine Pesticides(QC Lot: 2423063)											
WT2600875-004	S-12683832-120126-	Aldrin	309-00-2	E660F-T	0.00020	mg/kg	<0.00020	<0.00020	0	Diff <2x LOR	---
		Chlordane, cis- (alpha)	5103-71-9	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		Chlordane, trans- (gamma)	5103-74-2	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		DDD, 2,4'-	53-19-0	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		DDD, 4,4'-	72-54-8	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		DDE, 2,4'-	3424-82-6	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		DDE, 4,4'-	72-55-9	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---

Sub-Matrix: Soil

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate (DUP) Report						
					LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Organochlorine Pesticides(QC Lot: 2423063)											
		DDT, 2,4'-	789-02-6	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		DDT, 4,4'-	50-29-3	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		Dieldrin	60-57-1	E660F-T	0.00020	mg/kg	<0.00020	<0.00020	0	Diff <2x LOR	---
		Endosulfan, alpha-	959-98-8	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		Endosulfan, beta-	33213-65-9	E660F-T	0.00030	mg/kg	<0.00030	<0.00030	0	Diff <2x LOR	---
		Endrin	72-20-8	E660F-T	0.00050	mg/kg	<0.00050	<0.00050	0	Diff <2x LOR	---
		Heptachlor	76-44-8	E660F-T	0.00020	mg/kg	<0.00020	<0.00020	0	Diff <2x LOR	---
		Heptachlor epoxide	1024-57-3	E660F-T	0.00020	mg/kg	<0.00020	<0.00020	0	Diff <2x LOR	---
		Hexachlorobenzene	118-74-1	E660F-T	0.00050	mg/kg	<0.00050	<0.00050	0	Diff <2x LOR	---
		Hexachlorobutadiene	87-68-3	E660F-T	0.00050	mg/kg	<0.00050	<0.00050	0	Diff <2x LOR	---
		Hexachlorocyclohexane, gamma-	58-89-9	E660F-T	0.00020	mg/kg	<0.00020	<0.00020	0	Diff <2x LOR	---
		Hexachloroethane	67-72-1	E660F-T	0.00050	mg/kg	<0.00050	<0.00050	0	Diff <2x LOR	---
		Methoxychlor	72-43-5	E660F-T	0.00050	mg/kg	<0.00050	<0.00050	0	Diff <2x LOR	---

Qualifiers

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2419194)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests(QC Lot: 2421554)						
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	----	----
Physical Tests(QC Lot: 2421556)						
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Physical Tests(QC Lot: 2422103)						
Moisture	----	E144	0.25	%	<0.25	----

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2422823)						
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	----	----
Physical Tests(QC Lot: 2422840)						
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Cyanides(QC Lot: 2421550)						
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Cyanides(QC Lot: 2422821)						
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Metals(QC Lot: 2421555)						
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	----
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	----
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	----
Metals(QC Lot: 2421557)						
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Metals(QC Lot: 2421558)						
Mercury	7439-97-6	E510C	0.005	mg/kg	<0.0050	----
Metals(QC Lot: 2421559)						
Antimony	7440-36-0	E440C	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440C	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440C	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440C	0.1	mg/kg	<0.10	----
Boron	7440-42-8	E440C	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440C	0.02	mg/kg	<0.020	----
Chromium	7440-47-3	E440C	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440C	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440C	0.5	mg/kg	<0.50	----
Lead	7439-92-1	E440C	0.5	mg/kg	<0.50	----
Molybdenum	7439-98-7	E440C	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440C	0.5	mg/kg	<0.50	----
Selenium	7782-49-2	E440C	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440C	0.1	mg/kg	<0.10	----
Thallium	7440-28-0	E440C	0.05	mg/kg	<0.050	----
Uranium	7440-61-1	E440C	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440C	2	mg/kg	<2.0	----
Metals(QC Lot: 2422841)						
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	<0.50	----

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2422841)						
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	<0.50	----
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	<0.50	----
Metals(QC Lot: 2422842)						
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Metals(QC Lot: 2422843)						
Antimony	7440-36-0	E440C	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440C	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440C	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440C	0.1	mg/kg	<0.10	----
Boron	7440-42-8	E440C	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440C	0.02	mg/kg	<0.020	----
Chromium	7440-47-3	E440C	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440C	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440C	0.5	mg/kg	<0.50	----
Lead	7439-92-1	E440C	0.5	mg/kg	<0.50	----
Molybdenum	7439-98-7	E440C	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440C	0.5	mg/kg	<0.50	----
Selenium	7782-49-2	E440C	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440C	0.1	mg/kg	<0.10	----
Thallium	7440-28-0	E440C	0.05	mg/kg	<0.050	----
Uranium	7440-61-1	E440C	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440C	2	mg/kg	<2.0	----
Metals(QC Lot: 2422844)						
Mercury	7439-97-6	E510C	0.005	mg/kg	<0.0050	----
Speciated Metals(QC Lot: 2421553)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Speciated Metals(QC Lot: 2422822)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds(QC Lot: 2418709)						
Acetone	67-64-1	E611D	0.5	mg/kg	<0.50	----
Benzene	71-43-2	E611D	0.005	mg/kg	<0.0050	----
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	<0.050	----
Bromoform	75-25-2	E611D	0.05	mg/kg	<0.050	----
Bromomethane	74-83-9	E611D	0.05	mg/kg	<0.050	----
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	<0.050	----
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds(QC Lot: 2418709)						
Chloroform	67-66-3	E611D	0.05	mg/kg	<0.050	----
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	<0.050	----
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	<0.050	----
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	<0.050	----
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	<0.050	----
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	<0.050	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	<0.050	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	<0.050	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	<0.050	----
Dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045	----
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	<0.050	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	<0.030	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	<0.030	----
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015	----
Hexane, n-	110-54-3	E611D	0.05	mg/kg	<0.050	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	<0.50	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	<0.50	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	<0.040	----
Styrene	100-42-5	E611D	0.05	mg/kg	<0.050	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	<0.050	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	<0.050	----
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	<0.050	----
Toluene	108-88-3	E611D	0.05	mg/kg	<0.050	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	<0.050	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	<0.050	----
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	<0.010	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	<0.050	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	<0.020	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	<0.030	----
Hydrocarbons(QC Lot: 2418710)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons(QC Lot: 2421552)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons(QC Lot: 2421552)						
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Hydrocarbons(QC Lot: 2424256)						
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	<10	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	<50	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2421551)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2424257)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2424257)						
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Polychlorinated Biphenyls(QC Lot: 2423062)						
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	<0.010	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	<0.010	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	<0.010	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	<0.010	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	<0.010	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	<0.010	----
Organochlorine Pesticides(QC Lot: 2423063)						
Aldrin	309-00-2	E660F-T	0.0002	mg/kg	<0.00025	----
Chlordane, cis- (alpha)	5103-71-9	E660F-T	0.0003	mg/kg	<0.00030	----
Chlordane, trans- (gamma)	5103-74-2	E660F-T	0.0003	mg/kg	<0.00030	----
DDD, 2,4'-	53-19-0	E660F-T	0.0003	mg/kg	<0.00030	----
DDD, 4,4'-	72-54-8	E660F-T	0.0003	mg/kg	<0.00030	----
DDE, 2,4'-	3424-82-6	E660F-T	0.0003	mg/kg	<0.00030	----
DDE, 4,4'-	72-55-9	E660F-T	0.0003	mg/kg	<0.00030	----
DDT, 2,4'-	789-02-6	E660F-T	0.0003	mg/kg	<0.00030	----
DDT, 4,4'-	50-29-3	E660F-T	0.0003	mg/kg	<0.00030	----
Dieldrin	60-57-1	E660F-T	0.0002	mg/kg	<0.00025	----
Endosulfan, alpha-	959-98-8	E660F-T	0.0003	mg/kg	<0.00030	----
Endosulfan, beta-	33213-65-9	E660F-T	0.0003	mg/kg	<0.00030	----
Endrin	72-20-8	E660F-T	0.0005	mg/kg	<0.00050	----
Heptachlor	76-44-8	E660F-T	0.0002	mg/kg	<0.00025	----
Heptachlor epoxide	1024-57-3	E660F-T	0.0002	mg/kg	<0.00025	----
Hexachlorobenzene	118-74-1	E660F-T	0.0005	mg/kg	<0.00050	----
Hexachlorobutadiene	87-68-3	E660F-T	0.0005	mg/kg	<0.00050	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F-T	0.0002	mg/kg	<0.00025	----
Hexachloroethane	67-72-1	E660F-T	0.0005	mg/kg	<0.00050	----
Methoxychlor	72-43-5	E660F-T	0.0005	mg/kg	<0.00050	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests(QC Lot: 2419194)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Physical Tests(QC Lot: 2421554)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	101	98.0	102	----
Physical Tests(QC Lot: 2421556)									
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1409 µS/cm	101	90.0	110	----
Physical Tests(QC Lot: 2422103)									
Moisture	----	E144	0.25	%	50 %	99.0	90.0	110	----
Physical Tests(QC Lot: 2422823)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	101	98.0	102	----
Physical Tests(QC Lot: 2422840)									
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1409 µS/cm	98.6	90.0	110	----
Cyanides(QC Lot: 2421550)									
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	1.25 mg/kg	95.3	80.0	120	----
Cyanides(QC Lot: 2422821)									
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	1.25 mg/kg	102	80.0	120	----
Metals(QC Lot: 2421555)									
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	104	80.0	120	----
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	101	80.0	120	----
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	100	80.0	120	----
Metals(QC Lot: 2421557)									
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	2 mg/kg	104	70.0	130	----
Metals(QC Lot: 2421558)									
Mercury	7439-97-6	E510C	0.005	mg/kg	0.1 mg/kg	106	80.0	120	----
Metals(QC Lot: 2421559)									
Antimony	7440-36-0	E440C	0.1	mg/kg	100 mg/kg	99.0	80.0	120	----
Arsenic	7440-38-2	E440C	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Barium	7440-39-3	E440C	0.5	mg/kg	25 mg/kg	102	80.0	120	----
Beryllium	7440-41-7	E440C	0.1	mg/kg	10 mg/kg	98.9	80.0	120	----
Boron	7440-42-8	E440C	5	mg/kg	100 mg/kg	100	80.0	120	----
Cadmium	7440-43-9	E440C	0.02	mg/kg	10 mg/kg	98.8	80.0	120	----
Chromium	7440-47-3	E440C	0.5	mg/kg	25 mg/kg	102	80.0	120	----
Cobalt	7440-48-4	E440C	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Copper	7440-50-8	E440C	0.5	mg/kg	25 mg/kg	100	80.0	120	----
Lead	7439-92-1	E440C	0.5	mg/kg	50 mg/kg	99.9	80.0	120	----

Sub-Matrix: Soil

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2421559)									
Molybdenum	7439-98-7	E440C	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440C	0.5	mg/kg	50 mg/kg	100	80.0	120	----
Selenium	7782-49-2	E440C	0.2	mg/kg	100 mg/kg	107	80.0	120	----
Silver	7440-22-4	E440C	0.1	mg/kg	10 mg/kg	104	80.0	120	----
Thallium	7440-28-0	E440C	0.05	mg/kg	100 mg/kg	99.8	80.0	120	----
Uranium	7440-61-1	E440C	0.05	mg/kg	0.5 mg/kg	106	80.0	120	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	50 mg/kg	103	80.0	120	----
Zinc	7440-66-6	E440C	2	mg/kg	50 mg/kg	99.7	80.0	120	----
Metals(QC Lot: 2422841)									
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	104	80.0	120	----
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	101	80.0	120	----
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	99.6	80.0	120	----
Metals(QC Lot: 2422842)									
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	2 mg/kg	98.2	70.0	130	----
Metals(QC Lot: 2422843)									
Antimony	7440-36-0	E440C	0.1	mg/kg	100 mg/kg	95.5	80.0	120	----
Arsenic	7440-38-2	E440C	0.1	mg/kg	100 mg/kg	99.6	80.0	120	----
Barium	7440-39-3	E440C	0.5	mg/kg	25 mg/kg	102	80.0	120	----
Beryllium	7440-41-7	E440C	0.1	mg/kg	10 mg/kg	94.1	80.0	120	----
Boron	7440-42-8	E440C	5	mg/kg	100 mg/kg	90.0	80.0	120	----
Cadmium	7440-43-9	E440C	0.02	mg/kg	10 mg/kg	99.4	80.0	120	----
Chromium	7440-47-3	E440C	0.5	mg/kg	25 mg/kg	97.5	80.0	120	----
Cobalt	7440-48-4	E440C	0.1	mg/kg	25 mg/kg	97.8	80.0	120	----
Copper	7440-50-8	E440C	0.5	mg/kg	25 mg/kg	97.3	80.0	120	----
Lead	7439-92-1	E440C	0.5	mg/kg	50 mg/kg	97.4	80.0	120	----
Molybdenum	7439-98-7	E440C	0.1	mg/kg	25 mg/kg	96.8	80.0	120	----
Nickel	7440-02-0	E440C	0.5	mg/kg	50 mg/kg	97.3	80.0	120	----
Selenium	7782-49-2	E440C	0.2	mg/kg	100 mg/kg	98.8	80.0	120	----
Silver	7440-22-4	E440C	0.1	mg/kg	10 mg/kg	99.3	80.0	120	----
Thallium	7440-28-0	E440C	0.05	mg/kg	100 mg/kg	95.8	80.0	120	----
Uranium	7440-61-1	E440C	0.05	mg/kg	0.5 mg/kg	93.6	80.0	120	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	50 mg/kg	99.0	80.0	120	----
Zinc	7440-66-6	E440C	2	mg/kg	50 mg/kg	94.8	80.0	120	----
Metals(QC Lot: 2422844)									
Mercury	7439-97-6	E510C	0.005	mg/kg	0.1 mg/kg	112	80.0	120	----
Speciated Metals(QC Lot: 2421553)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	98.7	80.0	120	----

Sub-Matrix: Soil

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Speciated Metals(QC Lot: 2422822)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	96.1	80.0	120	----
Volatile Organic Compounds(QC Lot: 2418709)									
Acetone	67-64-1	E611D	0.5	mg/kg	3.475 mg/kg	73.2	60.0	140	----
Benzene	71-43-2	E611D	0.005	mg/kg	3.475 mg/kg	89.8	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.475 mg/kg	87.2	50.0	140	----
Bromoform	75-25-2	E611D	0.05	mg/kg	3.475 mg/kg	81.5	70.0	130	----
Bromomethane	74-83-9	E611D	0.05	mg/kg	3.475 mg/kg	66.8	50.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.475 mg/kg	97.3	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.475 mg/kg	95.3	70.0	130	----
Chloroform	67-66-3	E611D	0.05	mg/kg	3.475 mg/kg	90.8	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.475 mg/kg	89.4	60.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.475 mg/kg	78.5	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.475 mg/kg	97.0	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.475 mg/kg	103	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.475 mg/kg	93.1	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.475 mg/kg	71.0	50.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.475 mg/kg	96.5	60.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.475 mg/kg	79.4	60.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.475 mg/kg	90.8	60.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.475 mg/kg	86.7	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.475 mg/kg	89.6	60.0	130	----
Dichloromethane	75-09-2	E611D	0.045	mg/kg	3.475 mg/kg	83.7	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.475 mg/kg	82.1	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.475 mg/kg	81.8	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.475 mg/kg	81.4	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.475 mg/kg	90.8	70.0	130	----
Hexane, n-	110-54-3	E611D	0.05	mg/kg	3.475 mg/kg	103	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.475 mg/kg	67.9	60.0	140	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.475 mg/kg	64.3	60.0	140	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.475 mg/kg	90.6	70.0	130	----
Styrene	100-42-5	E611D	0.05	mg/kg	3.475 mg/kg	89.5	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.475 mg/kg	89.8	60.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.475 mg/kg	83.1	60.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.475 mg/kg	102	60.0	130	----
Toluene	108-88-3	E611D	0.05	mg/kg	3.475 mg/kg	98.4	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.475 mg/kg	94.3	60.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.475 mg/kg	80.5	60.0	130	----

Sub-Matrix: Soil

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds(QC Lot: 2418709)									
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.475 mg/kg	98.8	60.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.475 mg/kg	97.9	50.0	140	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.475 mg/kg	80.2	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	91.5	70.0	130	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	3.475 mg/kg	98.3	70.0	130	----
Hydrocarbons(QC Lot: 2418710)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.19 mg/kg	92.0	80.0	120	----
Hydrocarbons(QC Lot: 2421552)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	670.9 mg/kg	97.9	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1382 mg/kg	104	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	748.2 mg/kg	101	70.0	130	----
Hydrocarbons(QC Lot: 2424256)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	670.9 mg/kg	90.7	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1382 mg/kg	92.7	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	748.2 mg/kg	93.9	70.0	130	----
Hydrocarbons Surrogates(QC Lot: 2418710)									
Dichlorotoluene, 3,4-	95-75-0	E581.F1	1	mg/kg	34.62 mg/kg	81.5	60	140	----
Hydrocarbons Surrogates(QC Lot: 2421552)									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L	1	mg/kg	562.5 mg/kg	92.5	60	140	----
Hydrocarbons Surrogates(QC Lot: 2424256)									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L	1	mg/kg	562.5 mg/kg	81.9	60	140	----
Volatile Organic Compounds Surrogates(QC Lot: 2418709)									
Bromofluorobenzene, 4-	460-00-4	E611D	0.1	mg/kg	0.3475 mg/kg	101	60	130	----
Difluorobenzene, 1,4-	540-36-3	E611D	0.1	mg/kg	0.3475 mg/kg	99.3	60	130	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2421551)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	87.9	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	83.4	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	77.8	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	79.9	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	80.9	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	83.6	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	84.7	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	79.7	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	82.4	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	81.1	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	82.9	60.0	130	----

Sub-Matrix: Soil

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2421551)									
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	80.6	60.0	130	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	84.3	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	78.9	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	88.5	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	76.5	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	80.4	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	81.5	60.0	130	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2424257)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	101	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	95.3	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	91.2	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	91.5	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	94.0	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	96.0	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	97.2	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	92.1	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	94.8	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	93.1	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	95.6	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	93.4	60.0	130	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	96.9	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	89.5	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	99.4	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	90.1	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	93.6	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	94.5	60.0	130	----
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2421551)									
Acridine-d9	34749-75-2	E641A	0.1	mg/kg	0.375 mg/kg	84.9	60	130	----
Chrysene-d12	1719-03-5	E641A	0.1	mg/kg	0.375 mg/kg	91.2	60	130	----
Naphthalene-d8	1146-65-2	E641A	0.1	mg/kg	0.375 mg/kg	101	60	130	----
Phenanthrene-d10	1517-22-2	E641A	0.1	mg/kg	0.375 mg/kg	91.8	60	130	----
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2424257)									
Acridine-d9	34749-75-2	E641A	0.1	mg/kg	0.375 mg/kg	96.1	60	130	----
Chrysene-d12	1719-03-5	E641A	0.1	mg/kg	0.375 mg/kg	103	60	130	----
Naphthalene-d8	1146-65-2	E641A	0.1	mg/kg	0.375 mg/kg	116	60	130	----
Phenanthrene-d10	1517-22-2	E641A	0.1	mg/kg	0.375 mg/kg	105	60	130	----

Sub-Matrix: Soil

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Polychlorinated Biphenyls(QC Lot: 2423062)									
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	0.0125 mg/kg	82.1	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	0.0125 mg/kg	82.1	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	0.0125 mg/kg	82.1	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	0.0125 mg/kg	82.1	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	0.0125 mg/kg	82.1	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	0.0125 mg/kg	77.7	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	0.0125 mg/kg	77.4	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	0.0125 mg/kg	77.4	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	0.0125 mg/kg	77.4	60.0	140	----
Polychlorinated Biphenyls Surrogates(QC Lot: 2423062)									
Decachlorobiphenyl	2051-24-3	E687	0.1	mg/kg	0.0125 mg/kg	102	50	140	----
Tetrachloro-m-xylene	877-09-8	E687	0.1	mg/kg	0.0125 mg/kg	90.9	50	140	----
Organochlorine Pesticides(QC Lot: 2423063)									
Aldrin	309-00-2	E660F-T	0.0002	mg/kg	0.0125 mg/kg	93.6	50.0	150	----
Chlordane, cis- (alpha)	5103-71-9	E660F-T	0.0003	mg/kg	0.0125 mg/kg	117	50.0	150	----
Chlordane, trans- (gamma)	5103-74-2	E660F-T	0.0003	mg/kg	0.0125 mg/kg	86.9	50.0	150	----
DDD, 2,4'-	53-19-0	E660F-T	0.0003	mg/kg	0.0125 mg/kg	96.1	50.0	150	----
DDD, 4,4'-	72-54-8	E660F-T	0.0003	mg/kg	0.0125 mg/kg	113	50.0	150	----
DDE, 2,4'-	3424-82-6	E660F-T	0.0003	mg/kg	0.0125 mg/kg	75.2	50.0	150	----
DDE, 4,4'-	72-55-9	E660F-T	0.0003	mg/kg	0.0125 mg/kg	108	50.0	150	----
DDT, 2,4'-	789-02-6	E660F-T	0.0003	mg/kg	0.0125 mg/kg	145	50.0	150	----
DDT, 4,4'-	50-29-3	E660F-T	0.0003	mg/kg	0.0125 mg/kg	117	50.0	150	----
Dieldrin	60-57-1	E660F-T	0.0002	mg/kg	0.0125 mg/kg	92.5	50.0	150	----
Endosulfan, alpha-	959-98-8	E660F-T	0.0003	mg/kg	0.0125 mg/kg	65.0	50.0	150	----
Endosulfan, beta-	33213-65-9	E660F-T	0.0003	mg/kg	0.0125 mg/kg	108	50.0	150	----
Endrin	72-20-8	E660F-T	0.0005	mg/kg	0.0125 mg/kg	95.4	50.0	150	----
Heptachlor	76-44-8	E660F-T	0.0002	mg/kg	0.0125 mg/kg	70.9	50.0	150	----
Heptachlor epoxide	1024-57-3	E660F-T	0.0002	mg/kg	0.0125 mg/kg	103	50.0	150	----
Hexachlorobenzene	118-74-1	E660F-T	0.0005	mg/kg	0.0125 mg/kg	126	50.0	150	----
Hexachlorobutadiene	87-68-3	E660F-T	0.0005	mg/kg	0.0125 mg/kg	90.8	50.0	150	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F-T	0.0002	mg/kg	0.0125 mg/kg	92.9	50.0	150	----
Hexachloroethane	67-72-1	E660F-T	0.0005	mg/kg	0.0125 mg/kg	89.1	50.0	150	----
Methoxychlor	72-43-5	E660F-T	0.0005	mg/kg	0.0125 mg/kg	79.8	50.0	150	----
Organochlorine Pesticides Surrogates(QC Lot: 2423063)									
Decachlorobiphenyl	2051-24-3	E660F-T	0.1	mg/kg	0.0125 mg/kg	84.1	50	150	----
Tetrachloro-m-xylene	877-09-8	E660F-T	0.1	mg/kg	0.0125 mg/kg	# 48.6	50	150	SURQC

Qualifiers

Qualifier	Description
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts.

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Cyanides(QC Lot: 2421550)										
WT2600808-001	Anonymous	Cyanide, weak acid dissociable	----	E336A	1.24 mg/kg	1.249 mg/kg	98.9	70.0	130	---
Cyanides(QC Lot: 2422821)										
WT2600808-006	Anonymous	Cyanide, weak acid dissociable	----	E336A	1.33 mg/kg	1.228 mg/kg	108	70.0	130	---
Volatile Organic Compounds(QC Lot: 2418709)										
WT2600875-001	S-12683832-120126-MRW-001	Acetone	67-64-1	E611D	2.89 mg/kg	2.359 mg/kg	123	50.0	140	---
		Benzene	71-43-2	E611D	2.69 mg/kg	2.359 mg/kg	114	50.0	140	---
		Bromodichloromethane	75-27-4	E611D	2.78 mg/kg	2.359 mg/kg	118	50.0	140	---
		Bromoform	75-25-2	E611D	2.52 mg/kg	2.359 mg/kg	107	50.0	140	---
		Bromomethane	74-83-9	E611D	2.22 mg/kg	2.359 mg/kg	93.9	50.0	140	---
		Carbon tetrachloride	56-23-5	E611D	2.66 mg/kg	2.359 mg/kg	113	50.0	140	---
		Chlorobenzene	108-90-7	E611D	2.72 mg/kg	2.359 mg/kg	115	50.0	140	---
		Chloroform	67-66-3	E611D	2.77 mg/kg	2.359 mg/kg	117	50.0	140	---
		Dibromochloromethane	124-48-1	E611D	2.82 mg/kg	2.359 mg/kg	120	50.0	140	---
		Dibromoethane, 1,2-	106-93-4	E611D	2.67 mg/kg	2.359 mg/kg	113	50.0	140	---
		Dichlorobenzene, 1,2-	95-50-1	E611D	2.69 mg/kg	2.359 mg/kg	114	50.0	140	---
		Dichlorobenzene, 1,3-	541-73-1	E611D	2.72 mg/kg	2.359 mg/kg	115	50.0	140	---
		Dichlorobenzene, 1,4-	106-46-7	E611D	2.51 mg/kg	2.359 mg/kg	106	50.0	140	---
		Dichlorodifluoromethane	75-71-8	E611D	2.80 mg/kg	2.359 mg/kg	119	50.0	140	---
		Dichloroethane, 1,1-	75-34-3	E611D	2.57 mg/kg	2.359 mg/kg	109	50.0	140	---
		Dichloroethane, 1,2-	107-06-2	E611D	2.74 mg/kg	2.359 mg/kg	116	50.0	140	---
		Dichloroethylene, 1,1-	75-35-4	E611D	2.62 mg/kg	2.359 mg/kg	111	50.0	140	---
		Dichloroethylene, cis-1,2-	156-59-2	E611D	2.66 mg/kg	2.359 mg/kg	113	50.0	140	---
		Dichloroethylene, trans-1,2-	156-60-5	E611D	2.61 mg/kg	2.359 mg/kg	110	50.0	140	---
		Dichloromethane	75-09-2	E611D	2.75 mg/kg	2.359 mg/kg	117	50.0	140	---
		Dichloropropane, 1,2-	78-87-5	E611D	2.62 mg/kg	2.359 mg/kg	111	50.0	140	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	2.60 mg/kg	2.359 mg/kg	110	50.0	140	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	2.54 mg/kg	2.359 mg/kg	108	50.0	140	---

Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Volatile Organic Compounds(QC Lot: 2418709)										
		Ethylbenzene	100-41-4	E611D	2.46 mg/kg	2.359 mg/kg	104	50.0	140	---
		Hexane, n-	110-54-3	E611D	2.55 mg/kg	2.359 mg/kg	108	50.0	140	---
		Methyl ethyl ketone [MEK]	78-93-3	E611D	2.80 mg/kg	2.359 mg/kg	118	50.0	140	---
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	2.50 mg/kg	2.359 mg/kg	106	50.0	140	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.47 mg/kg	2.359 mg/kg	105	50.0	140	---
		Styrene	100-42-5	E611D	2.58 mg/kg	2.359 mg/kg	109	50.0	140	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	2.61 mg/kg	2.359 mg/kg	111	50.0	140	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	2.69 mg/kg	2.359 mg/kg	114	50.0	140	---
		Tetrachloroethylene	127-18-4	E611D	2.64 mg/kg	2.359 mg/kg	112	50.0	140	---
		Toluene	108-88-3	E611D	2.71 mg/kg	2.359 mg/kg	115	50.0	140	---
		Trichloroethane, 1,1,1-	71-55-6	E611D	2.64 mg/kg	2.359 mg/kg	112	50.0	140	---
		Trichloroethane, 1,1,2-	79-00-5	E611D	2.66 mg/kg	2.359 mg/kg	113	50.0	140	---
		Trichloroethylene	79-01-6	E611D	2.82 mg/kg	2.359 mg/kg	119	50.0	140	---
		Trichlorofluoromethane	75-69-4	E611D	2.76 mg/kg	2.359 mg/kg	117	50.0	140	---
		Vinyl chloride	75-01-4	E611D	2.64 mg/kg	2.359 mg/kg	112	50.0	140	---
		Xylene, m+p-	179601-23-1	E611D	4.98 mg/kg	4.718 mg/kg	106	50.0	140	---
		Xylene, o-	95-47-6	E611D	2.72 mg/kg	2.359 mg/kg	115	50.0	140	---
Hydrocarbons(QC Lot: 2418710)										
WT2600875-001	S-12683832-120126-MRW-001	F1 (C6-C10)	----	E581.F1	50.1 mg/kg	47.18 mg/kg	106	60.0	140	---
Hydrocarbons(QC Lot: 2421552)										
WT2600829-001	Anonymous	F2 (C10-C16)	----	E601.SG-L	435 mg/kg	551.7 mg/kg	78.8	60.0	140	---
		F3 (C16-C34)	----	E601.SG-L	1160 mg/kg	1137 mg/kg	102	60.0	140	---
		F4 (C34-C50)	----	E601.SG-L	617 mg/kg	615.3 mg/kg	100	60.0	140	---
Hydrocarbons(QC Lot: 2424256)										
WT2600816-005	Anonymous	F2 (C10-C16)	----	E601.SG-L	485 mg/kg	520.2 mg/kg	93.2	60.0	140	---
		F3 (C16-C34)	----	E601.SG-L	1030 mg/kg	1072 mg/kg	96.3	60.0	140	---
		F4 (C34-C50)	----	E601.SG-L	532 mg/kg	580.2 mg/kg	91.6	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2418710)										
		Dichlorotoluene, 3,4-	95-75-0	E581.F1	20.9 mg/kg	23.61 mg/kg	88.4	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2421552)										
		Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L	452 mg/kg	462.6 mg/kg	97.7	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2424256)										
		Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L	363 mg/kg	436.2 mg/kg	83.1	60.0	140	---
Volatile Organic Compounds Surrogates(QC Lot: 2418709)										
		Bromofluorobenzene, 4-	460-00-4	E611D	0.30 mg/kg	0.2359 mg/kg	127	50.0	140	---
		Difluorobenzene, 1,4-	540-36-3	E611D	0.30 mg/kg	0.2359 mg/kg	128	50.0	140	---

Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Polycyclic Aromatic Hydrocarbons(QC Lot: 2421551)										
WT2600829-001	Anonymous	Acenaphthene	83-32-9	E641A	0.385 mg/kg	0.4041 mg/kg	95.4	50.0	140	---
		Acenaphthylene	208-96-8	E641A	0.370 mg/kg	0.4041 mg/kg	91.5	50.0	140	---
		Anthracene	120-12-7	E641A	0.354 mg/kg	0.4041 mg/kg	87.6	50.0	140	---
		Benz(a)anthracene	56-55-3	E641A	0.348 mg/kg	0.4041 mg/kg	86.0	50.0	140	---
		Benzo(a)pyrene	50-32-8	E641A	0.357 mg/kg	0.4041 mg/kg	88.3	50.0	140	---
		Benzo(b+j)fluoranthene	n/a	E641A	0.363 mg/kg	0.4041 mg/kg	89.8	50.0	140	---
		Benzo(g,h,i)perylene	191-24-2	E641A	0.363 mg/kg	0.4041 mg/kg	89.8	50.0	140	---
		Benzo(k)fluoranthene	207-08-9	E641A	0.354 mg/kg	0.4041 mg/kg	87.6	50.0	140	---
		Chrysene	218-01-9	E641A	0.349 mg/kg	0.4041 mg/kg	86.3	50.0	140	---
		Dibenz(a,h)anthracene	53-70-3	E641A	0.350 mg/kg	0.4041 mg/kg	86.7	50.0	140	---
		Fluoranthene	206-44-0	E641A	0.350 mg/kg	0.4041 mg/kg	86.6	50.0	140	---
		Fluorene	86-73-7	E641A	0.354 mg/kg	0.4041 mg/kg	87.7	50.0	140	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.369 mg/kg	0.4041 mg/kg	91.3	50.0	140	---
		Methylnaphthalene, 1-	90-12-0	E641A	0.344 mg/kg	0.4041 mg/kg	85.1	50.0	140	---
		Methylnaphthalene, 2-	91-57-6	E641A	0.383 mg/kg	0.4041 mg/kg	94.8	50.0	140	---
		Naphthalene	91-20-3	E641A	ND	----	ND	50.0	140	---
		Phenanthrene	85-01-8	E641A	0.352 mg/kg	0.4041 mg/kg	87.0	50.0	140	---
		Pyrene	129-00-0	E641A	0.347 mg/kg	0.4041 mg/kg	85.8	50.0	140	---
Polycyclic Aromatic Hydrocarbons(QC Lot: 2424257)										
WT2600875-002	S-12683832-120126-MRW-002	Acenaphthene	83-32-9	E641A	0.393 mg/kg	0.39 mg/kg	101	50.0	140	---
		Acenaphthylene	208-96-8	E641A	0.374 mg/kg	0.39 mg/kg	95.9	50.0	140	---
		Anthracene	120-12-7	E641A	0.345 mg/kg	0.39 mg/kg	88.5	50.0	140	---
		Benz(a)anthracene	56-55-3	E641A	0.345 mg/kg	0.39 mg/kg	88.6	50.0	140	---
		Benzo(a)pyrene	50-32-8	E641A	0.354 mg/kg	0.39 mg/kg	90.7	50.0	140	---
		Benzo(b+j)fluoranthene	n/a	E641A	0.361 mg/kg	0.39 mg/kg	92.5	50.0	140	---
		Benzo(g,h,i)perylene	191-24-2	E641A	0.364 mg/kg	0.39 mg/kg	93.3	50.0	140	---
		Benzo(k)fluoranthene	207-08-9	E641A	0.350 mg/kg	0.39 mg/kg	89.7	50.0	140	---
		Chrysene	218-01-9	E641A	0.361 mg/kg	0.39 mg/kg	92.5	50.0	140	---
		Dibenz(a,h)anthracene	53-70-3	E641A	0.352 mg/kg	0.39 mg/kg	90.3	50.0	140	---
		Fluoranthene	206-44-0	E641A	0.363 mg/kg	0.39 mg/kg	93.0	50.0	140	---
		Fluorene	86-73-7	E641A	0.357 mg/kg	0.39 mg/kg	91.4	50.0	140	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A	0.362 mg/kg	0.39 mg/kg	92.9	50.0	140	---
		Methylnaphthalene, 1-	90-12-0	E641A	0.363 mg/kg	0.39 mg/kg	93.1	50.0	140	---
		Methylnaphthalene, 2-	91-57-6	E641A	0.408 mg/kg	0.39 mg/kg	105	50.0	140	---
		Naphthalene	91-20-3	E641A	0.373 mg/kg	0.39 mg/kg	95.6	50.0	140	---
		Phenanthrene	85-01-8	E641A	0.354 mg/kg	0.39 mg/kg	90.8	50.0	140	---
		Pyrene	129-00-0	E641A	0.359 mg/kg	0.39 mg/kg	92.0	50.0	140	---

Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2421551)										
		Acridine-d9	34749-75-2	E641A	0.3 mg/kg	0.3031 mg/kg	96.1	60.0	130	---
		Chrysene-d12	1719-03-5	E641A	0.3 mg/kg	0.3031 mg/kg	96.6	60.0	130	---
		Naphthalene-d8	1146-65-2	E641A	0.3 mg/kg	0.3031 mg/kg	107	60.0	130	---
		Phenanthrene-d10	1517-22-2	E641A	0.3 mg/kg	0.3031 mg/kg	100.0	60.0	130	---
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2424257)										
		Acridine-d9	34749-75-2	E641A	0.3 mg/kg	0.2925 mg/kg	95.5	60.0	130	---
		Chrysene-d12	1719-03-5	E641A	0.3 mg/kg	0.2925 mg/kg	101	60.0	130	---
		Naphthalene-d8	1146-65-2	E641A	0.3 mg/kg	0.2925 mg/kg	114	60.0	130	---
		Phenanthrene-d10	1517-22-2	E641A	0.3 mg/kg	0.2925 mg/kg	103	60.0	130	---
Polychlorinated Biphenyls(QC Lot: 2423062)										
WT2600875-004	S-12683832-120126-MRW-004	Aroclor 1016	12674-11-2	E687	0.010 mg/kg	0.0104 mg/kg	92.2	50.0	150	---
		Aroclor 1221	11104-28-2	E687	0.010 mg/kg	0.0104 mg/kg	92.2	50.0	150	---
		Aroclor 1232	11141-16-5	E687	0.010 mg/kg	0.0104 mg/kg	92.2	50.0	150	---
		Aroclor 1242	53469-21-9	E687	0.007 mg/kg	0.0104 mg/kg	65.0	50.0	150	---
		Aroclor 1248	12672-29-6	E687	0.010 mg/kg	0.0104 mg/kg	92.2	50.0	150	---
		Aroclor 1254	11097-69-1	E687	0.010 mg/kg	0.0104 mg/kg	92.1	50.0	150	---
		Aroclor 1260	11096-82-5	E687	0.009 mg/kg	0.0104 mg/kg	84.5	50.0	150	---
		Aroclor 1262	37324-23-5	E687	0.009 mg/kg	0.0104 mg/kg	85.7	50.0	150	---
		Aroclor 1268	11100-14-4	E687	0.009 mg/kg	0.0104 mg/kg	85.7	50.0	150	---
Polychlorinated Biphenyls Surrogates(QC Lot: 2423062)										
		Decachlorobiphenyl	2051-24-3	E687	<0.1 mg/kg	0.0104 mg/kg	117	50.0	150	---
		Tetrachloro-m-xylene	877-09-8	E687	<0.1 mg/kg	0.0104 mg/kg	102	50.0	150	---
Organochlorine Pesticides(QC Lot: 2423063)										
WT2600875-004	S-12683832-120126-MRW-004	Aldrin	309-00-2	E660F-T	0.00721 mg/kg	0.0104 mg/kg	69.4	50.0	150	---
		Chlordane, cis- (alpha)	5103-71-9	E660F-T	0.00943 mg/kg	0.0104 mg/kg	90.9	50.0	150	---
		Chlordane, trans- (gamma)	5103-74-2	E660F-T	0.00791 mg/kg	0.0104 mg/kg	76.2	50.0	150	---
		DDD, 2,4'-	53-19-0	E660F-T	0.00663 mg/kg	0.0104 mg/kg	63.9	50.0	150	---
		DDD, 4,4'-	72-54-8	E660F-T	0.00756 mg/kg	0.0104 mg/kg	72.8	50.0	150	---
		DDE, 2,4'-	3424-82-6	E660F-T	0.00723 mg/kg	0.0104 mg/kg	69.6	50.0	150	---
		DDE, 4,4'-	72-55-9	E660F-T	0.00653 mg/kg	0.0104 mg/kg	62.9	50.0	150	---
		DDT, 2,4'-	789-02-6	E660F-T	0.00757 mg/kg	0.0104 mg/kg	72.9	50.0	150	---
		DDT, 4,4'-	50-29-3	E660F-T	0.00748 mg/kg	0.0104 mg/kg	72.1	50.0	150	---
		Dieldrin	60-57-1	E660F-T	0.00598 mg/kg	0.0104 mg/kg	57.6	50.0	150	---
		Endosulfan, alpha-	959-98-8	E660F-T	0.00550 mg/kg	0.0104 mg/kg	53.0	50.0	150	---
		Endosulfan, beta-	33213-65-9	E660F-T	0.00728 mg/kg	0.0104 mg/kg	70.2	50.0	150	---
		Endrin	72-20-8	E660F-T	0.00598 mg/kg	0.0104 mg/kg	57.6	50.0	150	---
		Heptachlor	76-44-8	E660F-T	0.0108 mg/kg	0.0104 mg/kg	104	50.0	150	---

Sub-Matrix: **Soil**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Organochlorine Pesticides(QC Lot: 2423063)										
		Heptachlor epoxide	1024-57-3	E660F-T	0.00827 mg/kg	0.0104 mg/kg	79.7	50.0	150	---
		Hexachlorobenzene	118-74-1	E660F-T	0.0111 mg/kg	0.0104 mg/kg	107	50.0	150	---
		Hexachlorobutadiene	87-68-3	E660F-T	0.0106 mg/kg	0.0104 mg/kg	102	50.0	150	---
		Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F-T	0.00696 mg/kg	0.0104 mg/kg	67.0	50.0	150	---
		Hexachloroethane	67-72-1	E660F-T	0.00882 mg/kg	0.0104 mg/kg	85.0	50.0	150	---
		Methoxychlor	72-43-5	E660F-T	0.00642 mg/kg	0.0104 mg/kg	61.8	50.0	150	---
Organochlorine Pesticides Surrogates(QC Lot: 2423063)										
		Decachlorobiphenyl	2051-24-3	E660F-T	<0.1 mg/kg	0.0104 mg/kg	53.8	50.0	150	---
		Tetrachloro-m-xylene	877-09-8	E660F-T	<0.1 mg/kg	0.0104 mg/kg	74.5	50.0	150	---

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix: Soil

					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Physical Tests(QC Lot: 2421556)										
QC-MRG2-2421555001		Conductivity (1:2 leachate)	----	E100-L	714.1 µS/cm	714.1 µS/cm		70.0	130	----
Physical Tests(QC Lot: 2422840)										
QC-MRG2-2422840001		Conductivity (1:2 leachate)	----	E100-L	714.1 µS/cm	714.1 µS/cm		70.0	130	----
Particle Size(QC Lot: 2421753)										
QC-2421753-001		Sand (>0.075mm)	----	E178	40.1 %	40.1 %		88.0	112	----
Metals(QC Lot: 2421555)										
QC-MRG2-2421555001		Calcium, soluble ion content	7440-70-2	E484	77.21 mg/L	77.21 mg/L		70.0	130	----
		Magnesium, soluble ion content	7439-95-4	E484	8.343 mg/L	8.343 mg/L		70.0	130	----
		Sodium, soluble ion content	17341-25-2	E484	38.56 mg/L	38.56 mg/L		70.0	130	----
Metals(QC Lot: 2421557)										
QC-2421557-001		Boron, hot water soluble	7440-42-8	E487	0.487 mg/kg	0.487 mg/kg		60.0	140	----
Metals(QC Lot: 2421558)										
QC-MRG2-2421558001		Mercury	7439-97-6	E510C	0.0675 mg/kg	0.0675 mg/kg		70.0	130	----
Metals(QC Lot: 2421559)										
QC-MRG2-2421558001		Antimony	7440-36-0	E440C	24.8 mg/kg	24.8 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E440C	21.2 mg/kg	21.2 mg/kg		70.0	130	----
		Barium	7440-39-3	E440C	788 mg/kg	788 mg/kg		70.0	130	----
		Beryllium	7440-41-7	E440C	1.82 mg/kg	1.82 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E440C	2.15 mg/kg	2.15 mg/kg		70.0	130	----
		Chromium	7440-47-3	E440C	56.9 mg/kg	56.9 mg/kg		70.0	130	----
		Cobalt	7440-48-4	E440C	32 mg/kg	32 mg/kg		70.0	130	----
		Copper	7440-50-8	E440C	969 mg/kg	969 mg/kg		70.0	130	----
		Lead	7439-92-1	E440C	919 mg/kg	919 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E440C	25.1 mg/kg	25.1 mg/kg		70.0	130	----
		Nickel	7440-02-0	E440C	1004 mg/kg	1004 mg/kg		70.0	130	----
		Selenium	7782-49-2	E440C	1.04 mg/kg	1.04 mg/kg		60.0	140	----

Sub-Matrix: Soil

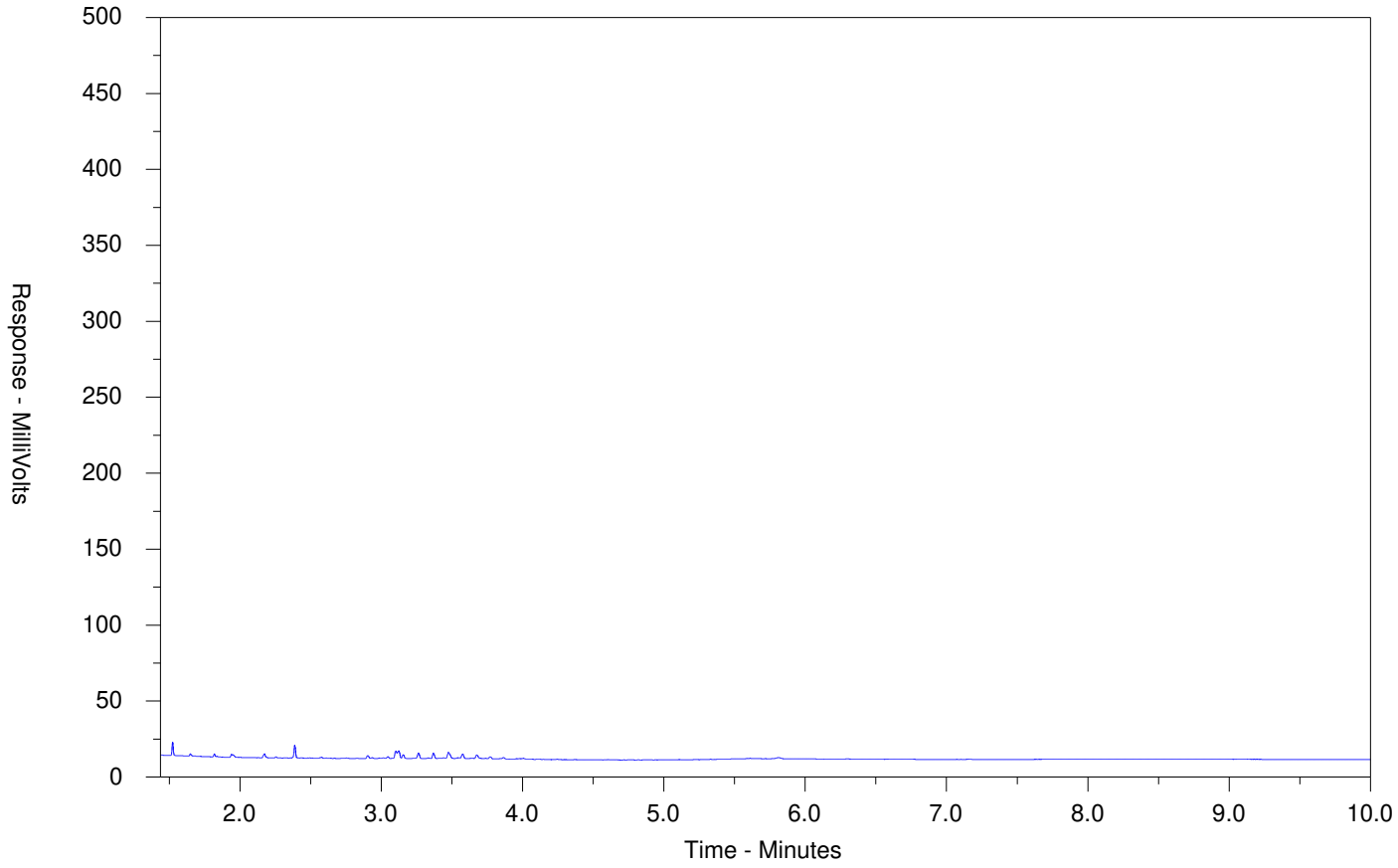
					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2421559)										
		Silver	7440-22-4	E440C	8.98 mg/kg	8.98 mg/kg		70.0	130	----
		Thallium	7440-28-0	E440C	0.907 mg/kg	0.907 mg/kg		70.0	130	----
		Uranium	7440-61-1	E440C	3.97 mg/kg	3.97 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E440C	66.2 mg/kg	66.2 mg/kg		70.0	130	----
		Zinc	7440-66-6	E440C	828 mg/kg	828 mg/kg		70.0	130	----
Metals(QC Lot: 2422841)										
QC-MRG2-2422840001		Calcium, soluble ion content	7440-70-2	E484	77.21 mg/L	77.21 mg/L		70.0	130	----
		Magnesium, soluble ion content	7439-95-4	E484	8.343 mg/L	8.343 mg/L		70.0	130	----
		Sodium, soluble ion content	17341-25-2	E484	38.56 mg/L	38.56 mg/L		70.0	130	----
Metals(QC Lot: 2422842)										
QC-2422842-001		Boron, hot water soluble	7440-42-8	E487	0.487 mg/kg	0.487 mg/kg		60.0	140	----
Metals(QC Lot: 2422843)										
QC-MRG2-2422843001		Antimony	7440-36-0	E440C	24.8 mg/kg	24.8 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E440C	21.2 mg/kg	21.2 mg/kg		70.0	130	----
		Barium	7440-39-3	E440C	788 mg/kg	788 mg/kg		70.0	130	----
		Beryllium	7440-41-7	E440C	1.82 mg/kg	1.82 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E440C	2.15 mg/kg	2.15 mg/kg		70.0	130	----
		Chromium	7440-47-3	E440C	56.9 mg/kg	56.9 mg/kg		70.0	130	----
		Cobalt	7440-48-4	E440C	32 mg/kg	32 mg/kg		70.0	130	----
		Copper	7440-50-8	E440C	969 mg/kg	969 mg/kg		70.0	130	----
		Lead	7439-92-1	E440C	919 mg/kg	919 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E440C	25.1 mg/kg	25.1 mg/kg		70.0	130	----
		Nickel	7440-02-0	E440C	1004 mg/kg	1004 mg/kg		70.0	130	----
		Selenium	7782-49-2	E440C	1.04 mg/kg	1.04 mg/kg		60.0	140	----

Sub-Matrix: Soil

					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2422843)										
		Silver	7440-22-4	E440C	8.98 mg/kg	8.98 mg/kg		70.0	130	----
		Thallium	7440-28-0	E440C	0.907 mg/kg	0.907 mg/kg		70.0	130	----
		Uranium	7440-61-1	E440C	3.97 mg/kg	3.97 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E440C	66.2 mg/kg	66.2 mg/kg		70.0	130	----
		Zinc	7440-66-6	E440C	828 mg/kg	828 mg/kg		70.0	130	----
Metals(QC Lot: 2422844)										
QC-MRG2-2422843001		Mercury	7439-97-6	E510C	0.0675 mg/kg	0.0675 mg/kg		70.0	130	----
Speciated Metals(QC Lot: 2421553)										
QC-2421553-001		Chromium, hexavalent [Cr VI]	18540-29-9	E532	197 mg/kg	197 mg/kg		70.0	130	----
Speciated Metals(QC Lot: 2422822)										
QC-2422822-001		Chromium, hexavalent [Cr VI]	18540-29-9	E532	197 mg/kg	197 mg/kg		70.0	130	----

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-001-E601.SG-L
Client Sample ID: S-12683832-120126-MRW-001



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

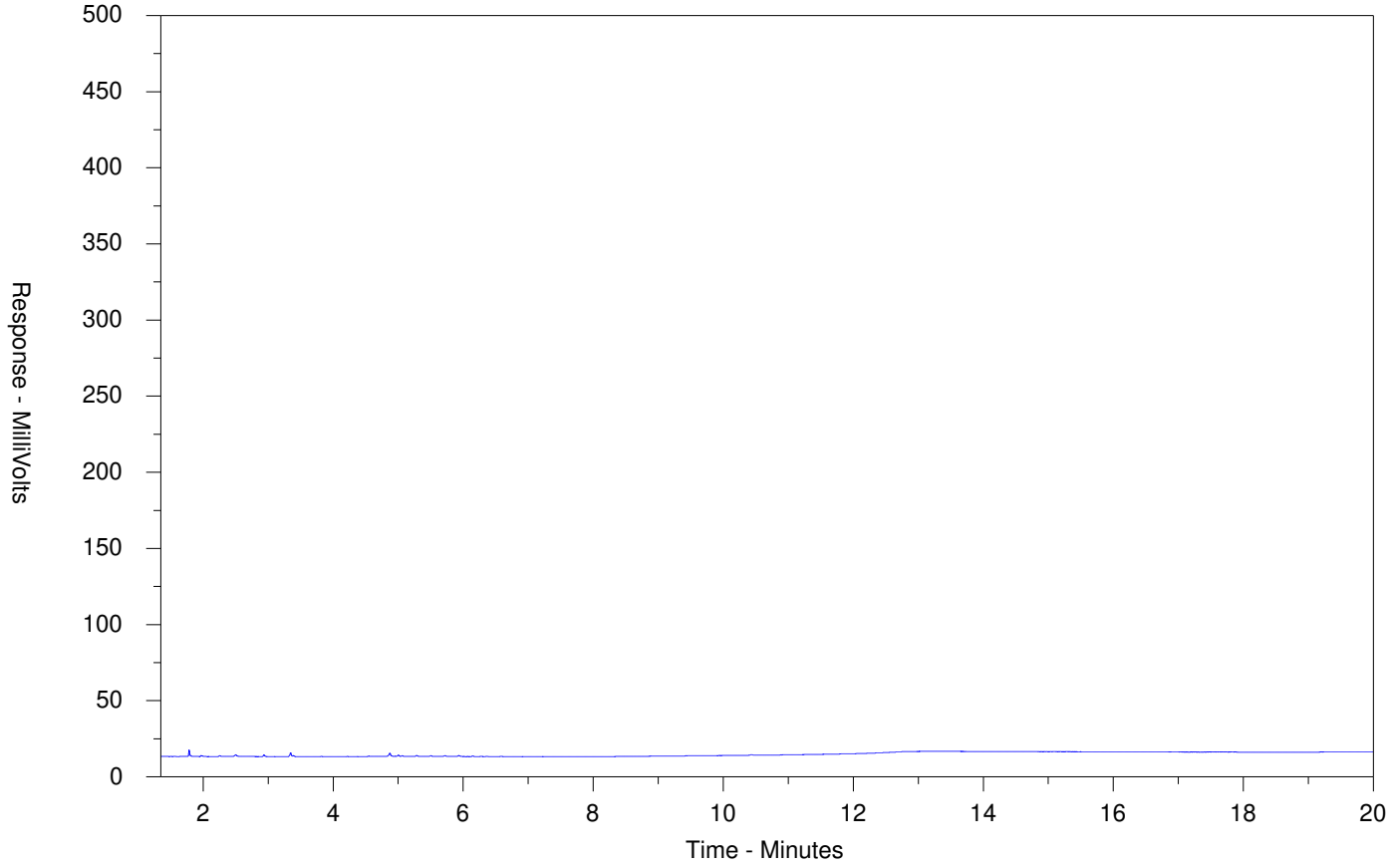
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-002-E601.SG-L
Client Sample ID: S-12683832-120126-MRW-002



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

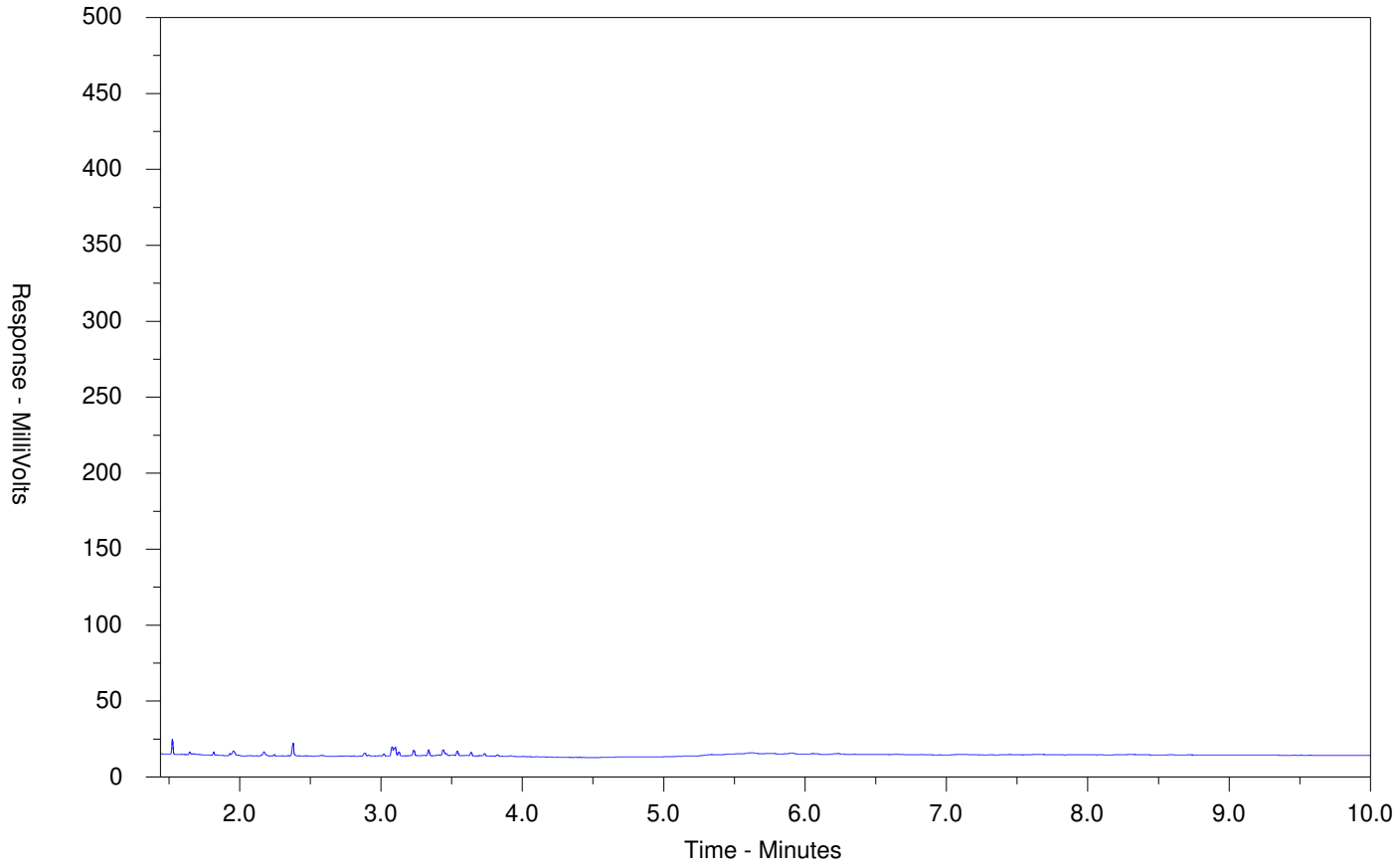
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-003-E601.SG-L
Client Sample ID: S-12683832-120126-MRW-003



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

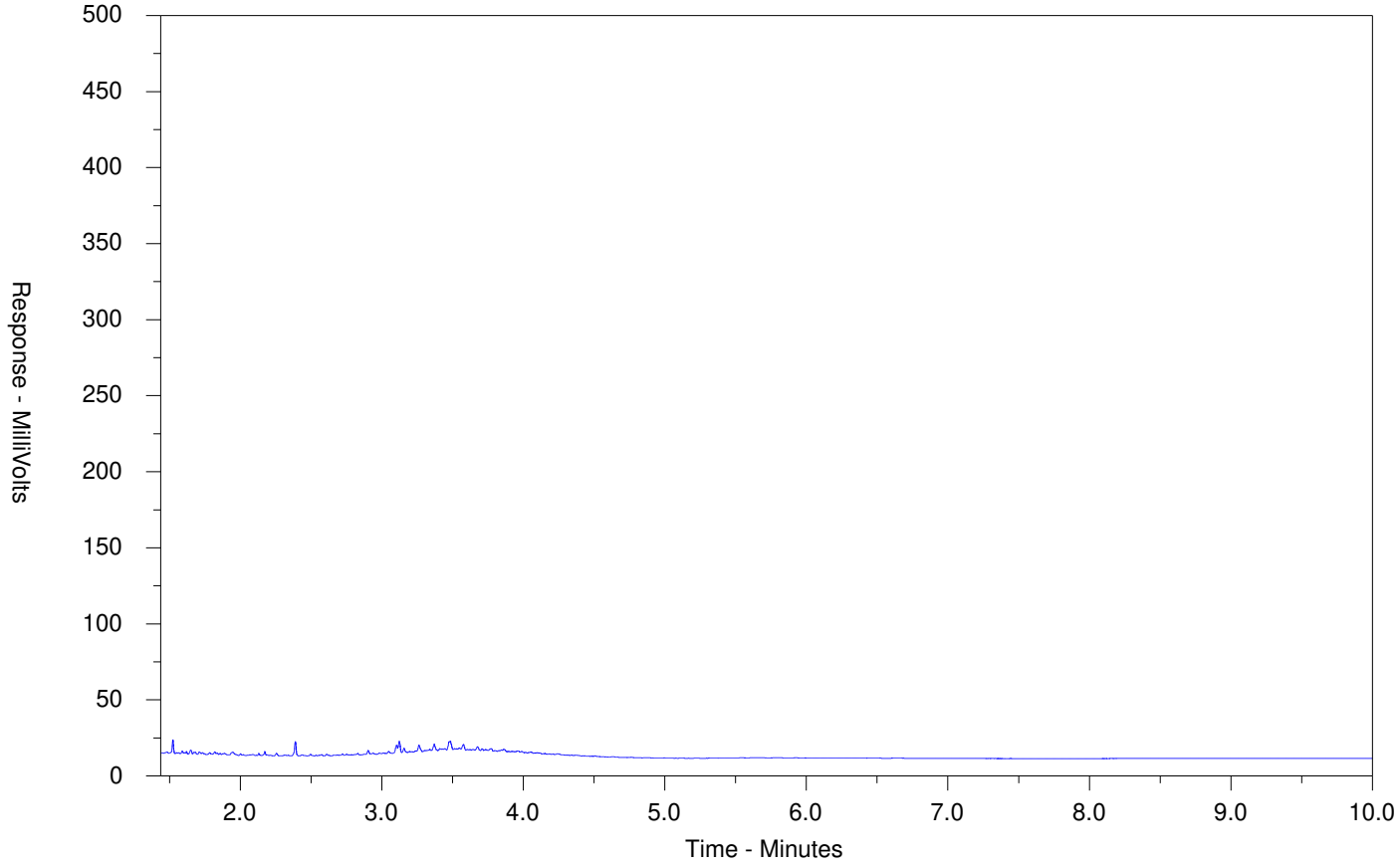
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-004-E601.SG-L
Client Sample ID: S-12683832-120126-MRW-004



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

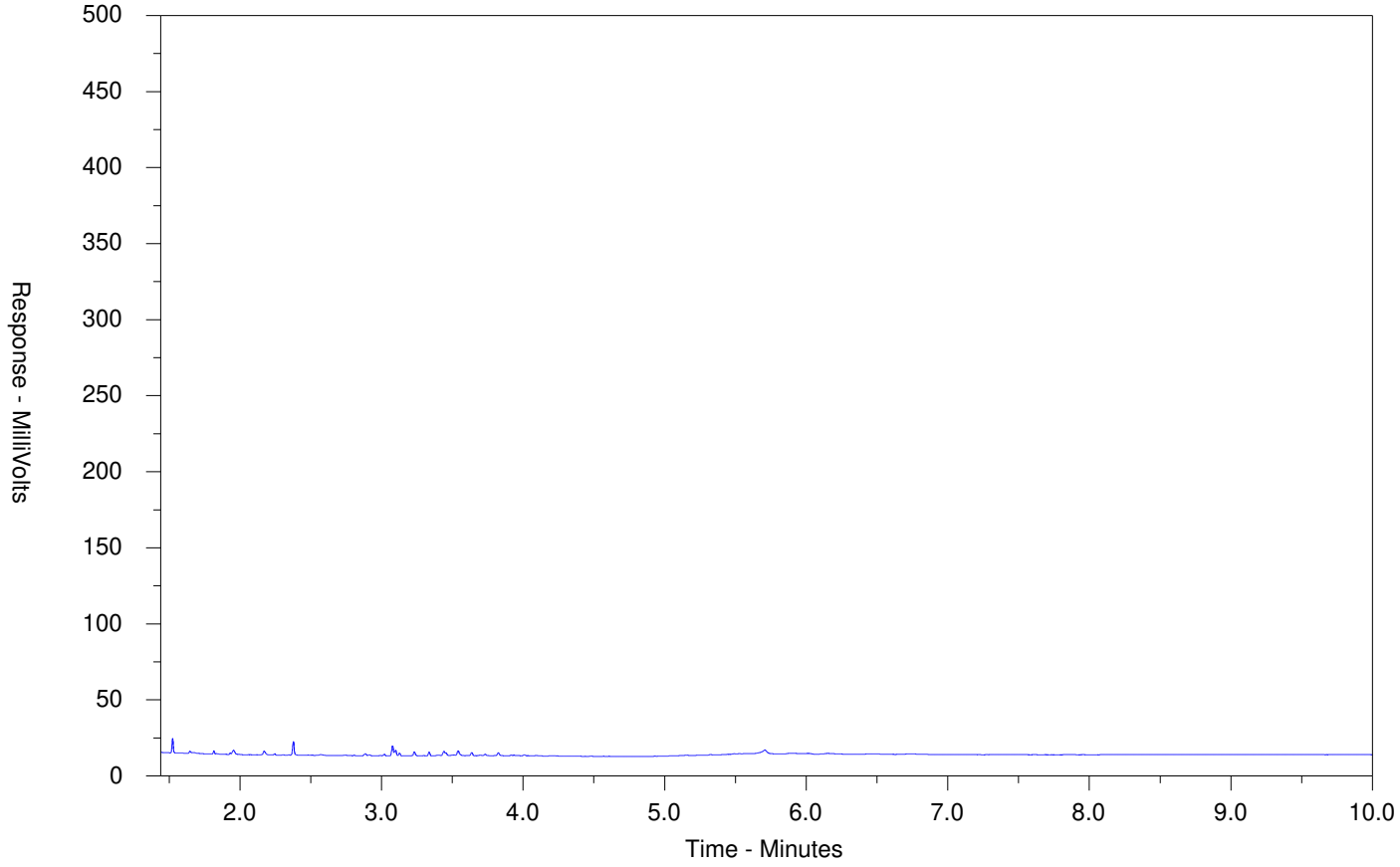
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-005-E601.SG-L
Client Sample ID: S-12683832-130126-MRW-005



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

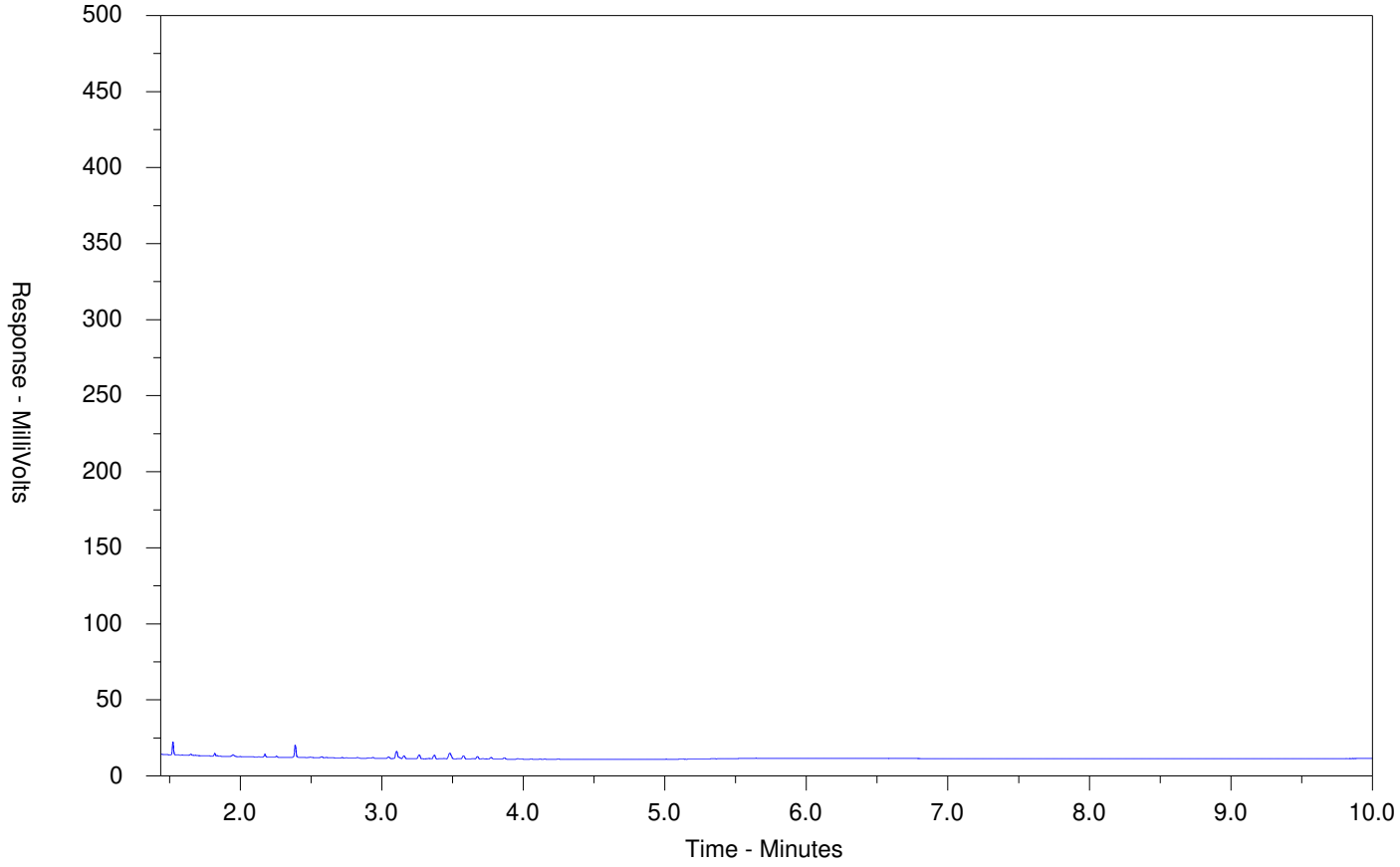
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-006-E601.SG-L
Client Sample ID: S-12683832-130126-MRW-006



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

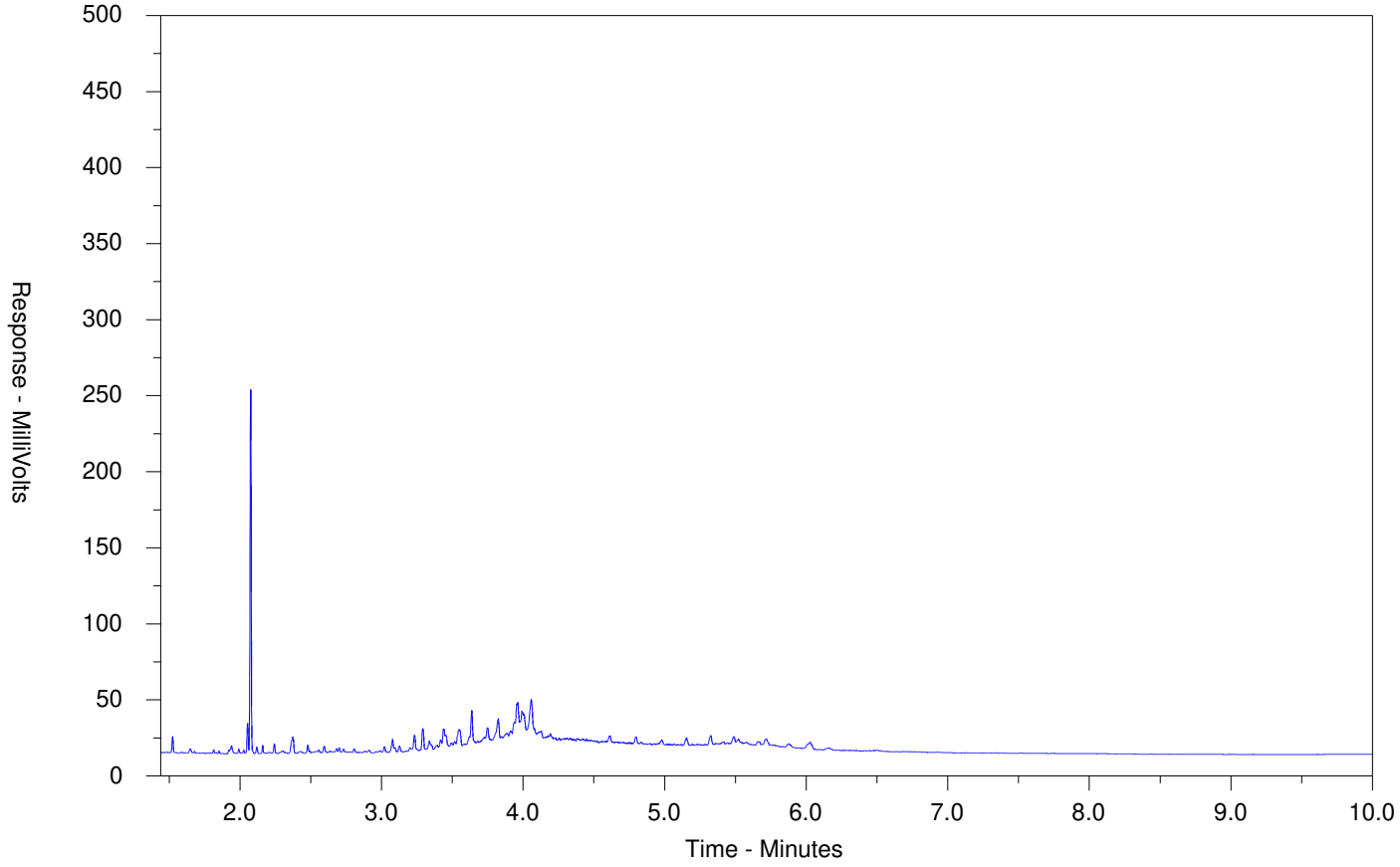
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-008-E601.SG-L
Client Sample ID: S-12683832-130126-MRW-008



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

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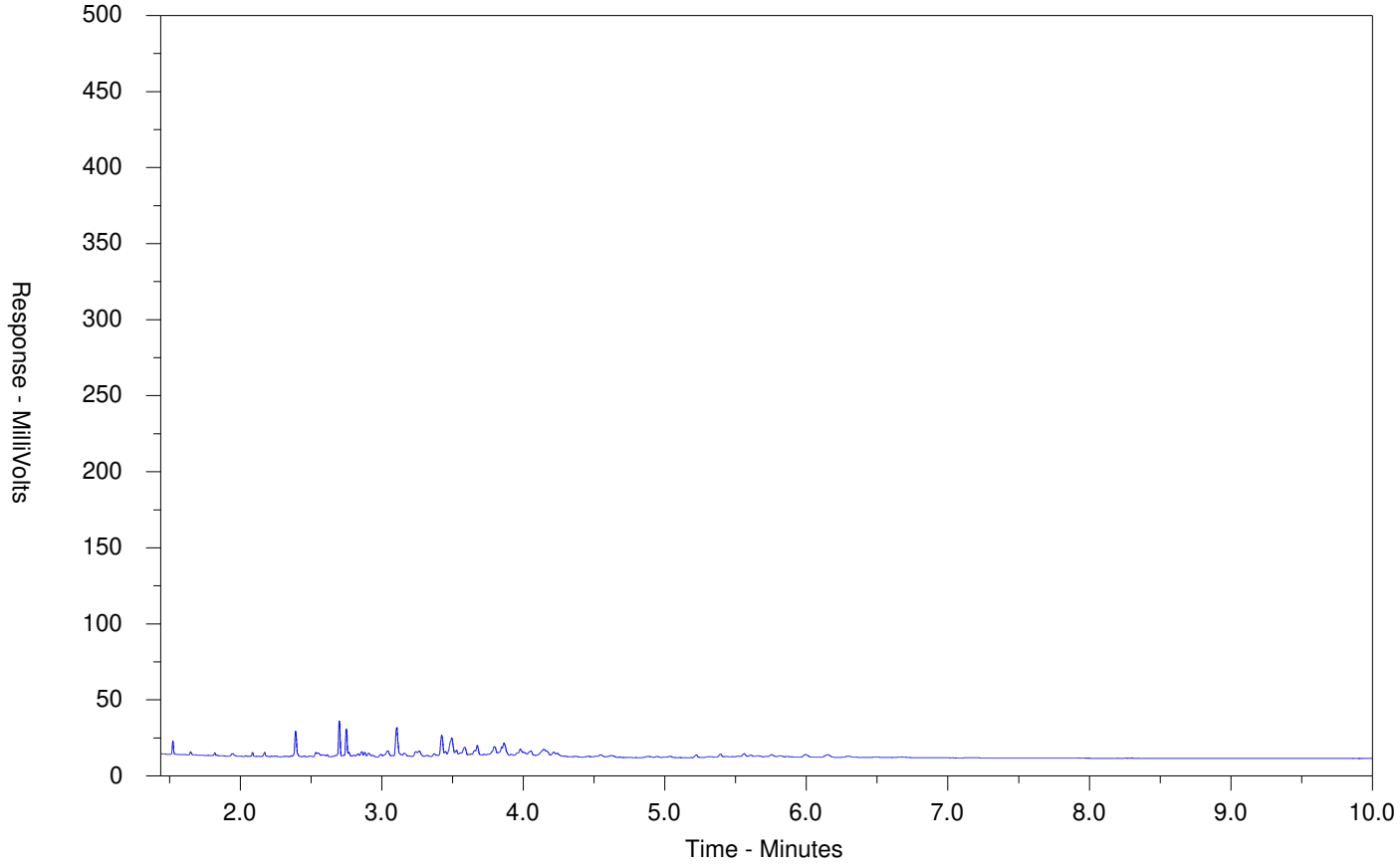
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-009-E601.SG-L
Client Sample ID: S-12683832-130126-MRW-009



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

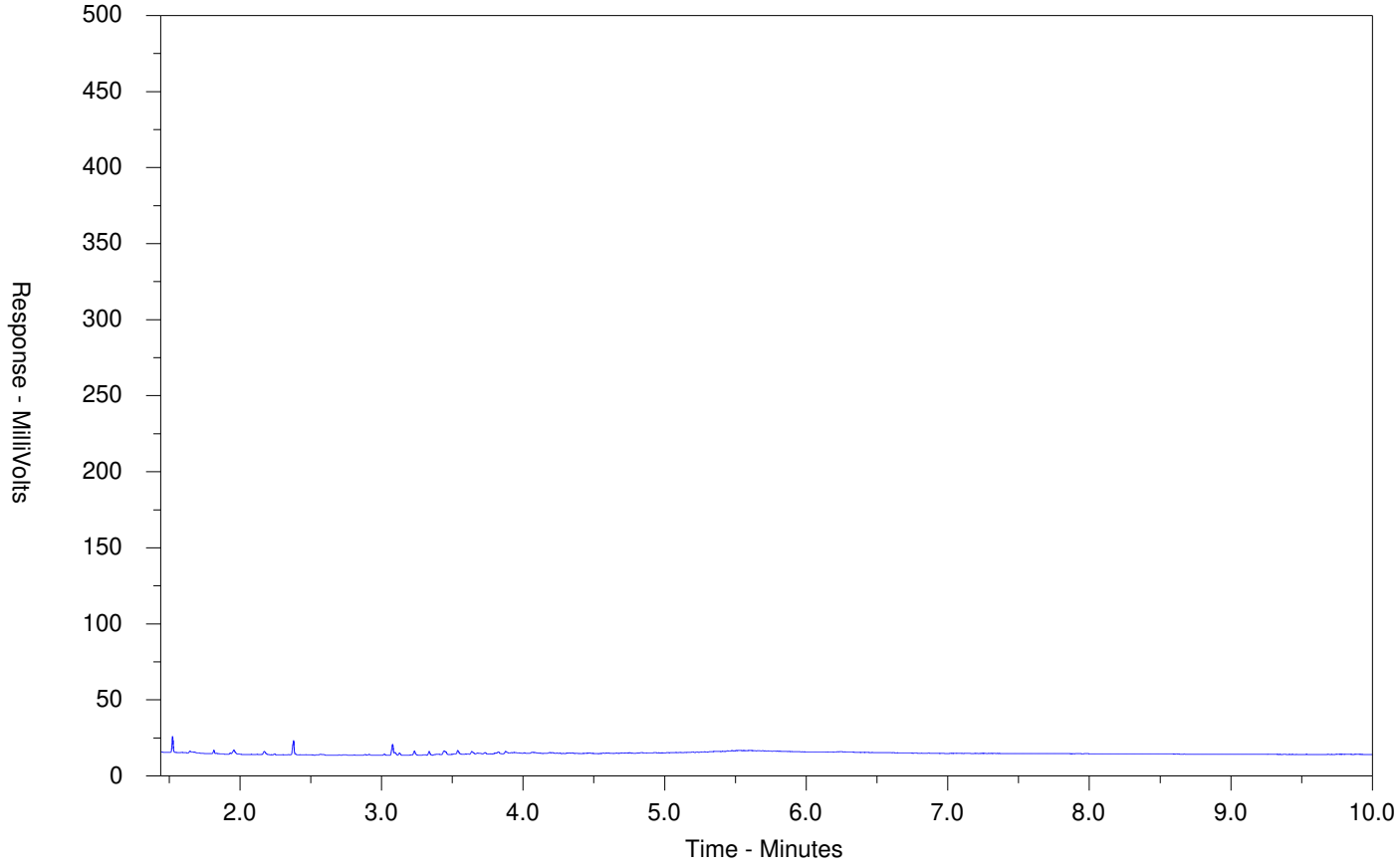
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-011-E601.SG-L
Client Sample ID: S-12683832-140126-MRW-011



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

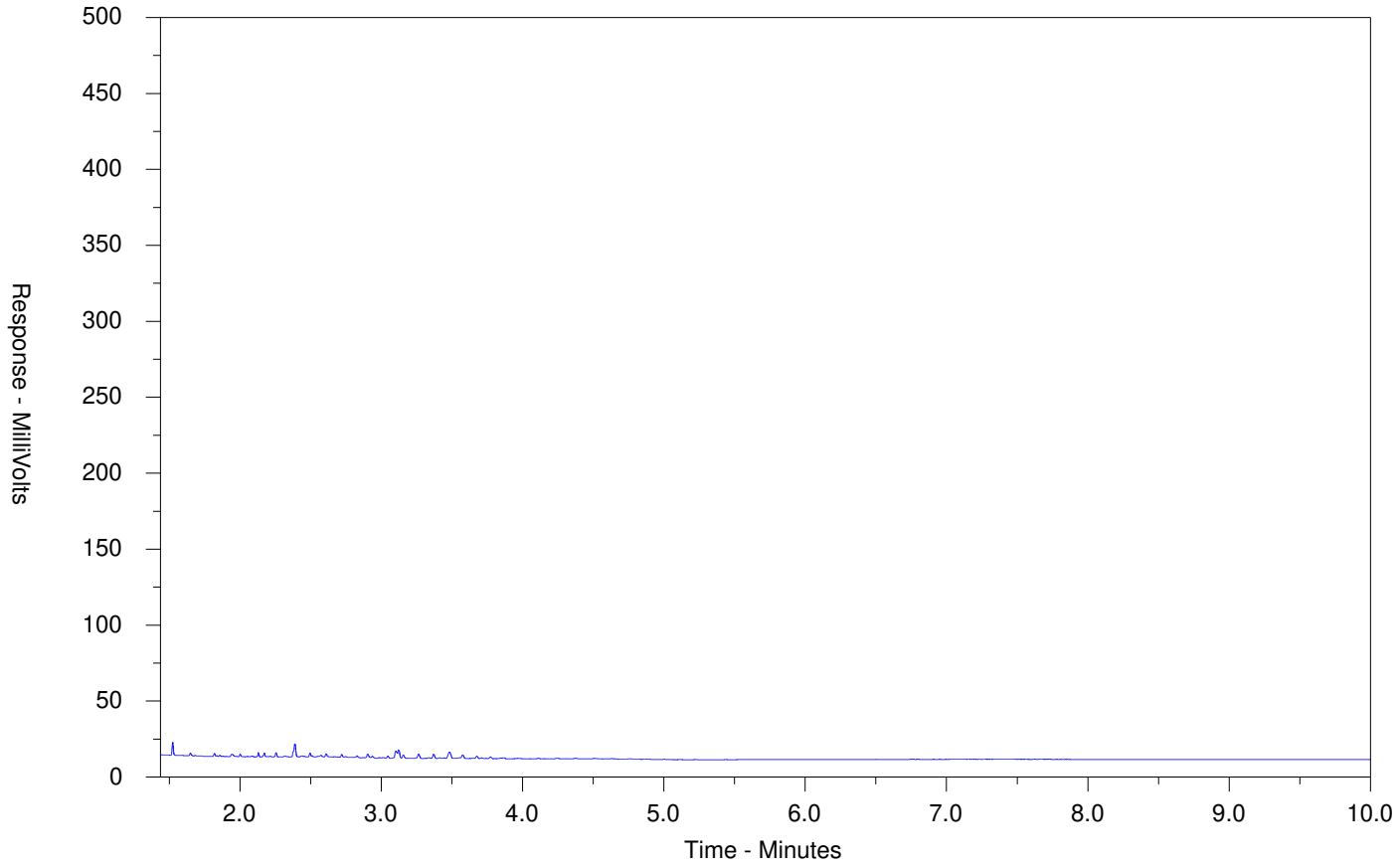
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-012-E601.SG-L
Client Sample ID: S-12683832-140126-MRW-012



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

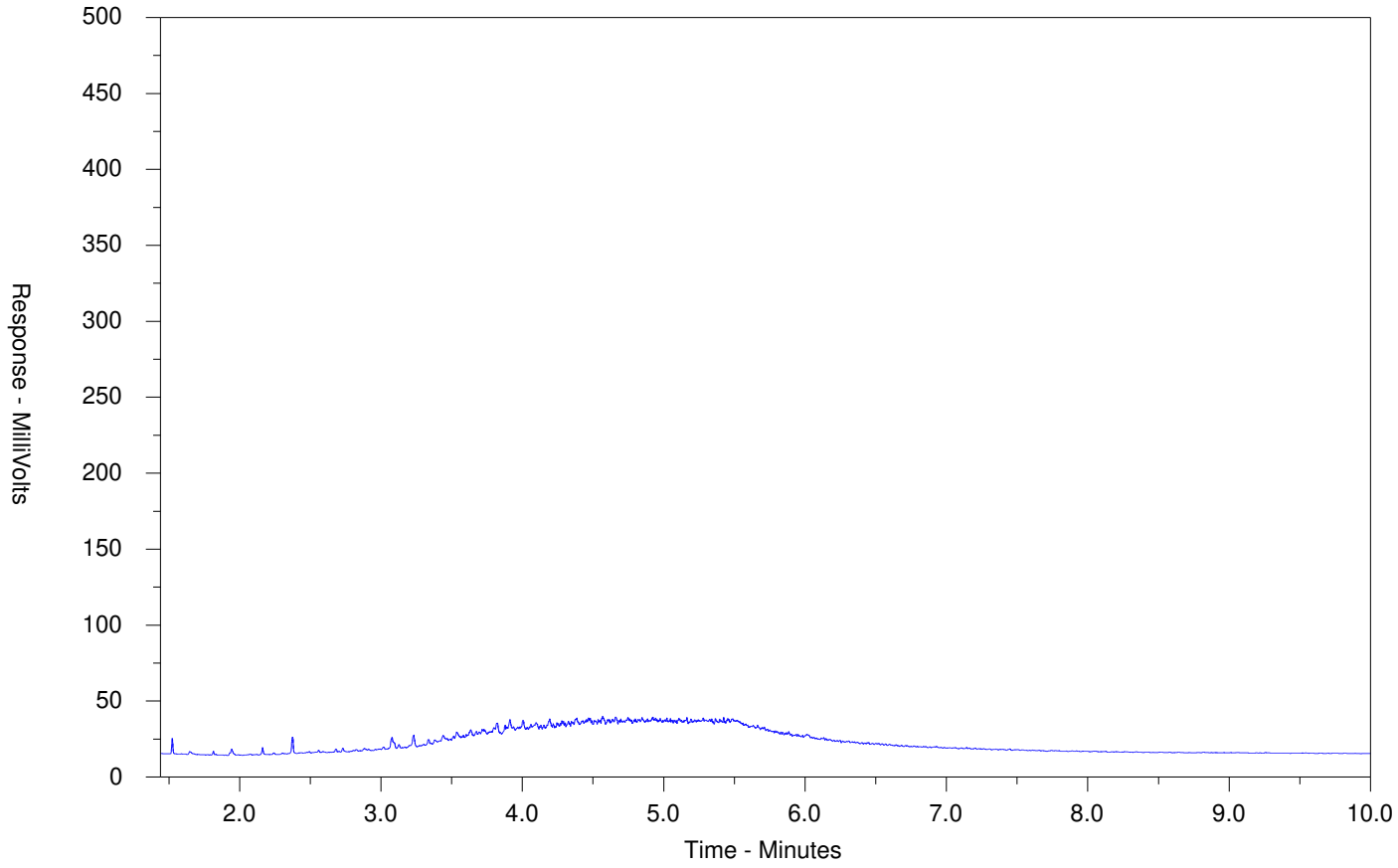
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-013-E601.SG-L
Client Sample ID: S-12683832-140126-MRW-013



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

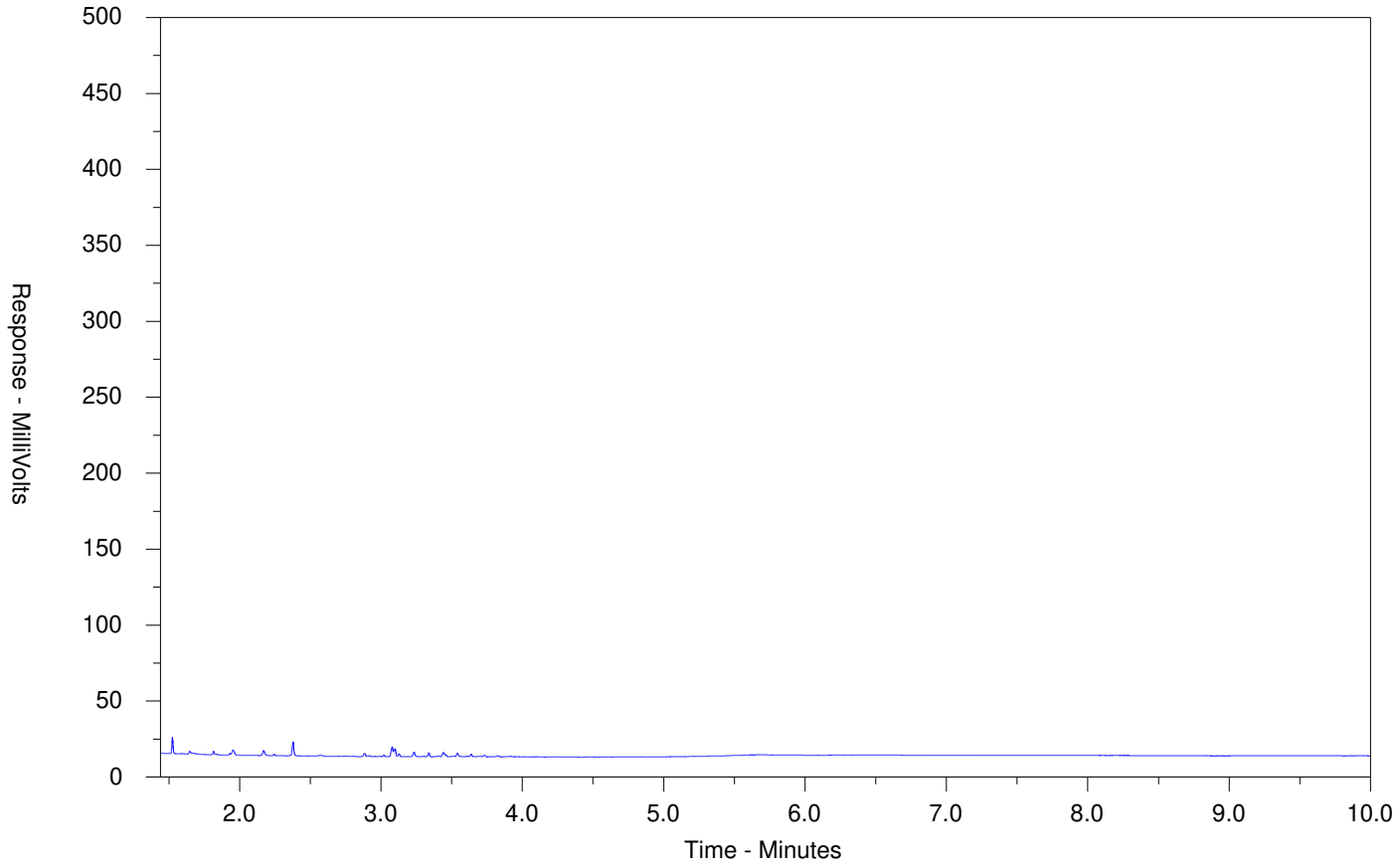
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: WT2600875-014-E601.SG-L
Client Sample ID: S-12683832-140126-MRW-014



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

SOL 431/430
VS-241

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 1044224

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Page

Environmental Division
Waterloo
Work Order Reference
WT2600875

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	GHD Limited
Contact:	Aditya Khandekar
Phone:	1-647-[redacted]562-3090
	Company address below will appear on the final report
Street:	455 Phillip St
City/Province:	Waterloo, Ontario
Postal Code:	N2L 3X2
Invoice To	Same as Report To: [redacted] YES ☒ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	GHD Limited
Contact:	accountspayableCDN@GHD.COM

Project Information

ALS Account # / Quote #:	
Job #:	12683832
PO / AFE:	P-CA2026 00000585
LSD:	
ALS Lab Work Order # (ALS use only):	

Reports / Recipients

Select Report Format: ☒ PDF ☒ EXCEL ☒ EDD (DIGITAL)
Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax: aditya.khandekar@GHD.com
Email 2: Matthew.Rousina-Webb@GHD.com
Email 3:

Invoice Recipients

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax:
Email 2:

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler: MRW

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Addition may apply to rush requests on weekends, statutory holidays and nonroutii

Date and Time Required for all E&P TATs:

For all tests with rush TATs requested, pleas cor

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	VOC/BTEX P	PHC P	PAH	Metals and Inorganics (Routine list)	Fe and SAR	Landfill Soil Disposal	PCB	OC Pesticides	Grain size analysis	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12683832-120126-MRW-001	12-01-26	11:45	Soil	3	X	X	X	X		X						
	S-12683832-120126-MRW-002	12-01-26	13:15	Soil	3	X	X	X	X		X			X			
	S-12683832-120126-MRW-003	12-01-26	15:00	Soil	4	X	X	X	X	X	X	X					
	S-12683832-120126-MRW-004	12-01-26	15:10	Soil	5	X	X	X	X	X	X	X	X	X			
	S-12683832-130126-MRW-005	13-01-26	12:00	Soil	3	X	X		X		X						
	S-12683832-130126-MRW-006	13-01-26	12:15	Soil	4	X	X		X		X		X	X			
	S-12683832-130126-MRW-007	13-01-26	12:25	Soil	4	X	X		X		X		X	X			
	S-12683832-130126-MRW-008	13-01-26	13:15	Soil	3	X	X	X	X		X						
	S-12683832-130126-MAW-009	13-01-26	13:25	Soil	4	X	X	X	X		X		X				
	S-12683832-130126-MAW-010	13-01-26	13:30	Soil	4	X	X	X	X		X		X				
	S-12683832-140126-MRW-011	14-01-26	10:15	Soil	3	X	X	X	X	X	X			X			
	S-12683832-140126-MRW-012	14-01-26	10:25	Soil	3	X	X	X	X	X	X						

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO
Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED
Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO
Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C
8.1	5.5

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Matthew Rousina-Webb	14/01/26	12:40

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
CUSTAT F	14-JAN-2026	12:45

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
AP	15 JAN 26	9:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 - 1044223

Canada Toll Free: 1 800 668 9878

Page 2 of 2

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	GHD Limited
Contact:	Aditya Khandekar
Phone:	1-647-562-3090
	Company address below will appear on the final report
Street:	455 Phillip St
City/Province:	Waterloo, Ontario
Postal Code:	N2L 3X2
Invoice To	Same as Report To ☐ YES ☒ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	GHD Limited
Contact:	accountspayableCDN@GHD.com

Reports / Recipients

Select Report Format: ☒ PDF ☒ EXCEL ☒ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: aditya.khandekar@GHD.com

Email 2: Matthew.Rousica-Webb@GHD.com

Email 3:

Invoice Recipients

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax:

Email 2:

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information

ALS Account # / Quote #:

Job #: 12683832

PO / AFE: P-CA0225000000585

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Lab Work Order # (ALS use only):

ALS Contact: Sampler: MRW

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	P	VOC/BTEX	PHC	PAH	Metals	EC and SAR	Cowlrich #	PCB	OCP	VOCs/F1 BTEX	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	S-12683832-140126-MRW-013	14-01-26	1225	Soil	3		X	X	X	X	X	X						
	S-12683832-140126-MRW-014	14-01-26	1235	Soil	3		X	X	X	X	X	X		X				
	Trip blank		NA	A/A											X			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
8.1				5.5			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
	14/01/26	12:40

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
[illegible]	14-JAN-2026	12:45

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
AP	15-JAN-26	9:15

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

ALS 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Appendix D

Test Pit Photo Log

Photo 1 - View of test pit TP-01

Photo 2 - View of test pit TP-02

Site Photographs

Photo 3 - View of construction debris observed in TP-02

Photo 4 - View of test pit TP-03

Photo 5 - View of test pit TP-04

Photo 6 - View of construction debris observed in TP-04

Photo 7 - View of test pit TP-05

Photo 8 - View of test pit TP-06

Photo 9 - View of test pit TP-07

Photo 10 - View of test pit TP-08