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April 28, 2026

Addendum No. 02

File Reference Number: RFP 2026 028

Title: North Bay Wheel Storage, RIP Track and Adjacent Facilities Upgrade

RE: Clarifications/Questions

CLARIFICATIONS:

Item 1: MANDATORY VIRTUAL SITE VISIT

Please be advised that the PowerPoint presentation has been provided as a separate attachment to this Addendum, entitled Presentation for RFP 2026028.

Item 2: Please find attached the 2025 RIP Track Geoenvironmental Investigation Report prepared by Hatch, included at the end of this Addendum as Appendix A.

This report forms part of Appendix I – Reference Reports and Documents of the RFP.

Item 3: Will the ONTC be self supplying the track ballast for this project or will the contractors be expected to supply the track ballast?

Answer: The rail ballast, along with track (rail) and associated track materials, will be supplied and installed by the successful proponent.

This Addendum hereby forms part of the RFP.

Regards,

Brinda Ranpura
Procurement Contracts Specialist
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“Appendix A”

Report

2025 RIP Track Geoenvironmental Investigation Report

H375313-1015-840-066-0001

			Simpson, Nathan		Rutherford, Kevin	
2025-10-09	0	Approved for Use	O. Salvucci / N. Simpson	W. Hoyle	K. Rutherford	N/R
DATE	REV.	STATUS	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY
				Discipline Lead	Functional Manager	Client

IMPORTANT NOTICE TO READER

This report was prepared by Hatch Ltd. (“Hatch”) for the sole and exclusive use of Ontario Northland Transportation Commission (the “Owner”) for the purpose of assisting the management of the Owner in making decisions with respect to the management of contamination at the North Bay Shop Complex. The Owner may use this report as they see fit; however, the recommendations and content are specific to the initial intent and Hatch holds no liability for uses outside of that initial intent. Hatch can provide guidance on the use of the report findings for other purposes at the Owner’s request.

This report contains the expression of the opinion of Hatch using its professional judgment and reasonable care based on information available and conditions existing at the time of preparation.

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1. Introduction

Hatch Ltd. (Hatch) has been retained by Ontario Northland Transportation Commission (ONTC) to provide geoenvironmental investigation services as part of the ONTC North Bay Repair in Place (RIP) Track Facility Rehabilitation detailed design (Phase 2) project under Work Order Proposal (WOP) No. 1015.

A geoenvironmental investigation sampling and analysis plan document was prepared for the North Bay RIP Track (the "Site") where geoenvironmental investigations were required and submitted to ONTC for review and approval prior to initiation based on our understanding of the project scope. The investigation was carried out at locations selected by Hatch and approved by ONTC at the project site.

The objective of the investigation was to characterize the soil and groundwater conditions at the site by advancing boreholes and monitoring wells at select locations. This geoenvironmental investigation report presents the investigation methodology, records of boreholes, geoenvironmental field and laboratory data and geoenvironmental recommendations for potential remediation during the RIP Track Rehabilitation construction. In addition, potential geological and geotechnical hazards and their associated risks are identified and discussed in the report titled *ONTC RIP Track Facility - Geotechnical Investigation and Design Report H375313-1000-2A0-230-0001* (Hatch, 2025).

1.1 Site Description

The municipal address of the ONTC's North Bay Shop Complex is 915 McInture Street East, North Bay, Ontario, and it is located in an area that is generally surrounded by residential, parkland, and wetlands. A Site Location Plan is provided in Figure 1. The Site is comprised of various buildings, including a truck shop, paint shop, storage building, car shop, diesel shop, and wheel shop. Based on discussions with ONTC and site observations, a discarded equipment storage site is located north of the storage building and is considered a historic landfill. As a result of current and historical activities on-Site, there is a potential for subsurface contamination, which has presented the need to further evaluate soil and groundwater conditions at and around the complex.

ONTC uses the Site for industrial purposes as a remanufacturing and maintenance facility, and rail yard. Immediately adject to the south of the Site are multiple Canadian Pacific (CP) rail lines followed by Veterans Park, which consists of a soccer field and baseball diamond that are used by the public.

1.1.1 Background

Hatch was originally engaged by ONTC to investigate potential petroleum impacts to soil and/or groundwater in and around a former above-ground storage tank (AST) and refueling port at the ONTC North Bay Shop Complex, per Technical Standards and Safety Authority (TSSA) Environmental Management Protocol. A Data Review and Gap Analysis was

completed and concluded that an intrusive investigation be completed to assess potential subsurface impacts related to the former AST and fuel releases.

Multiple work programs were conducted from June 2022 to October 2024 to investigate the soil and groundwater conditions at the Site. The most recent investigation was conducted in October 2024 and is documented in the report titled *ONTC North Bay Shop Complex 2024 Geoenvironmental Investigation H368027-0000-840-066-0004* (Hatch, 2025). Significant findings from the report for the RIP Track area concluded that soil and groundwater was contaminated with petroleum hydrocarbons (PHCs). The PHC contamination can be attributed to historical fueling practices which have released significant amounts of fuel to the ground surface in the RIP track area. It was recommended to conduct further soil and groundwater sampling to further delineate the extent of contamination.

1.2 Purpose of Investigation

The RIP Track, located southeast of the wheel shop, is proposed to be removed and replaced with a new track and a concrete pad as it has reached its end of service life. As part of this proposed RIP Track, soil must be excavated and removed from the Site. Prior to this occurring, the soil quality must be assessed for contamination. Based on recommendations made in the *ONTC North Bay Shop Complex 2024 Geoenvironmental Investigation H368027-0000-840-066-0004* (Hatch, 2025) and the proposed RIP Track replacement, the March 2025 geoenvironmental program was completed to further assess soil and groundwater quality at the Site in the area of the proposed RIP Track and to validate soil and groundwater chemistry results from previous investigation. The geoenvironmental program was completed concurrently with the geotechnical RIP Track program which was summarized in the report titled *ONTC RIP Track Facility - Geotechnical Investigation and Design Report H375313-1000-2A0-0001* (Hatch, 2025). A detailed description of the scope of work that was completed is included in Section 2.

1.3 Applicable Site Conditions

Analytical results were compared to the following applicable site conditions below:

Groundwater samples from monitoring wells installed in 2024 were compared to the Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (MECP, 2011), specifically:

- Table 3: Full Depth Generic Site Condition Standards for Non-Potable Groundwater Conditions.
- Table 7: Generic Site Condition Standards for Shallow Soils under Non-Potable Groundwater Conditions.

To assess construction dewatering options, groundwater samples from monitoring wells installed in 2025 were compared to The Corporation of The City of North Bay Sewer Use By-Law, No. 2002-112 (City of North Bay, 2002), including:

- Table 1: Limits for Sanitary Sewer Discharges

- Table 2: Limits for Storm Sewer Discharges

Soil samples were compared to the Rules for Soil Management and Excess Soil Quality Standards (MECP, 2024):

- Table 3.1: Applicable to Industrial, Commercial, and Community (ICC) land uses.

The Toxicity Characteristic Leaching Procedure (TCLP) samples were compared to:

- Schedule 4 of Ontario Regulation 347, as amended by O. Reg. 558/00 (MECP, 2025).

These evaluation standards for the investigation were selected for comparison purposes based on the following:

- The Site obtains a potable water supply from Trout Lake and does not rely on groundwater as a potable water source.
- The Site is not considered an “environmentally sensitive” site, as defined by Ontario Regulation (O. Reg.) 153/04.
- Based on the stratigraphy observed during drilling activities, soils are anticipated to be primarily coarse grained.
- The Site is currently used for industrial purposes as a rail yard and maintenance facility, and no future property uses were proposed at the time of this assessment.
- The area of investigation is not situated within 30 m of a water body.
- The pH of the soil samples that were analysed for this parameter were within the acceptable range stated in O. Reg. 153/04.
- Groundwater was encountered within 2 m of the ground surface.
- More than two-thirds of the Site has overburden that is greater than 1.5 m in depth.

2. Scope of Investigation

The scope of the March 2025 geoenvironmental investigation included the following elements:

- Coordinate sub-contractors for the geoenvironmental investigation.
- Develop an investigation plan that includes borehole and monitoring well locations, Sampling and Analysis Plan (SAP), and a work schedule.
- Execute a field program to investigate soil and groundwater quality within the Site.
- Evaluate data results and findings.
- Prepare a report detailing the investigation methodology, summarizing results, and provide recommendations for next steps.

2.1 Sampling and Analysis Plan

An SAP for the March 2025 geoenvironmental investigation was developed based on the results and recommendations of the *ONTC North Bay Shop Complex 2024 Geoenvironmental Investigation H368027-0000-840-066-0004* (Hatch, 2025) and the geotechnical program. A copy of the SAP is included in Appendix A.

2.2 Deviations from Sampling and Analysis Plan

The investigation was completed with minor deviations from the SAP. The deviations did not affect the results of the investigation and are outlined below:

- Soil sample could not be collected at BH25-01, BH25-02, and BH25-05 as fill and native material could not be reached due to rebar and a large layer of concrete that was not penetrable.
- Borehole BH25-09 was added to the program and soil samples were collected to account for the soil samples that could not be collected from BH25-01, BH25-02, and BH25-05.
- All soil samples submitted for chemical analysis were analyzed for metals & inorganics (M&I), benzene, toluene, ethylbenzene, xylene (BTEX), petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs).
- Headspace readings of groundwater monitoring wells could not be measured as the RKI Eagle 2 gas meter was not working properly. Visual and olfactory observations were noted for all groundwater samples.

2.3 Impediments

The investigation was completed with no impediments from the SAP.

3. Assessment Method

3.1 General

The geoenvironmental investigation was led by Owen Salvucci (Hatch) with support from Danika Ouellette (Hatch). The investigation was conducted from March 17 to March 21, 2025. The weather conditions during the investigation ranged from sunny to cloudy with the occasional rain/snow event. Temperatures ranged from -12°C to 14°C.

American Society for Testing and Materials (ASTM) standards and procedures were used for soil characterization, soil sampling, and groundwater sampling. Sections 3.2 to 3.7 describe the methodologies used during the geoenvironmental investigation.

3.2 Drilling

Hatch geotechnical staff identified preferred borehole/monitoring well locations based on the information provided by the Hatch design teams for the RIP Track Rehabilitation. The location of underground services and utilities within the Site were cleared prior to the commencement of the drilling program. Hatch's geotechnical team arranged for public locates to be completed

through Ontario One Call. Landshark Locates, a division of Landshark Group, was retained to identify the presence of private utilities on the Site. Hatch and ONTC personnel inspected the Site with the public and private locators, prior to the beginning of the geoenvironmental investigation, and made minor adjustments to certain borehole locations to ensure safe drilling practices. The locations of the boreholes and monitoring wells installed as part of the 2025 geotechnical investigation are shown in Figure 2.

Landshark Drilling, a division of Landshark Group, was retained by Hatch as the drilling contractor for the investigation. A summary of drilling information can be found in Table 3-1.

Table 3-1: Summary of Drilling Information

Information Parameter	Details
Name of Drilling Contractor	Landshark Drilling, a division of Landshark Group
Drilling Equipment Used	Track Mounted Auger Rig
Measures Taken to Minimize the Potential for Cross-Contamination	A 0.61 (2 ft) long 0.05 m (2 in.) and 0.61 (2 ft) long 0.08 (3 in.) stainless steel Standard Penetration Test (SPT) split spoons were used to collect soil samples from the boreholes. The split spoons were washed in between each use to minimize cross contamination.
Frequency of Sample Collection	Soil samples were collected based on field observations or at changes in strata.

From March 17 to March 19, 2025, nine boreholes (BH25-01 to BH25-09) were drilled on the Site. The boreholes were advanced to a maximum depth ranging 0.60 meters below ground surface (mbgs) and 9.45 mbgs. Soil samples were collected from the fill material and native silt/silty sand using split spoons. Two monitoring wells were installed into BH25-07 (MW25-02) and BH25-08 (MW25-01) and were constructed of 0.05 m diameter PVC that extended to a max depth of 6.10 mbgs.

3.3 Soil

3.3.1 Soil Classification

Soil classification was conducted in general accordance with the Unified Soil Classification System (USCS) as outlined in American Society of testing and materials (ASTM) D2488-17 – Standard Practice for Description and Identification of Soils standard. A summary of geology and soil stratigraphy is provided in Section 4.1.

3.3.2 Field Screening Measurements

Soil samples collected from the boreholes were field screened for total combustible organic vapours (TCOV) using an RKI Eagle 2 gas meter during the investigation. In addition to visual and olfactory observations, the results of the field screening were used to determine worst-case samples in order to select soil samples to submit to the laboratory for analysis of volatile

parameters. Additional samples were analyzed for delineation purposes. A summary of the equipment is provided in Table 3-2.

Table 3-2: Summary of Field Screening Equipment

Criteria	Details
Make and Model of Field Screening Instrument	RKI Eagle 2 Gas Monitor.
Chemicals that Field Screening Instrument Detects and respective Detection Limits	Total combustible organic vapours/volatile organic compounds with dynamic range of 0 to 50,000 parts per million (ppm).
Precision of the Measurements	1 ppm.
Accuracy of the Measurements	±50 ppm or ±5% display reading.
Calibration Reference Standards	Hexane and Isobutylene.
Calibration Procedures	The RKI Eagle 2 was calibrated by the supplier of the equipment (Maxim Environmental) prior to delivery to Hatch. A Certificate of Calibration was provided by the supplier and can be found in Appendix B.

3.3.3 Soil Sampling

Disposable nitrile gloves were used during soil sampling and changed between each sample to minimize the potential for cross contamination. Soil samples were described in the field by Hatch personnel and observations were recorded in dedicated borehole records. Soil samples were collected directly into laboratory-supplied jars and vials.

All collected samples were stored in a cooler on ice at a temperature of less than 10°C. Samples selected for laboratory analysis were handled under standard chain of custody procedures until received at the laboratory. The soil samples selected for laboratory analysis were considered representative of worst-case conditions in the boreholes based on field screening results and visual and olfactory observations.

All soil samples were submitted to ALS Laboratories in Mississauga, Ontario. The soil samples that were submitted for chemical analysis are summarized in Table 3-3. Additionally, borehole records are included in Appendix C.

Table 3-3: Summary of Submitted Soil Samples

Borehole ID	Soil Sample ID	Duplicate Sample	Sample Depth (mbgs)	Date Sampled	PHC	BTEX	M&I	PAH	VOC	PCB	TCLP	Hold
BH25-03	BH25-03-S1		3.10 - 3.70	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-03-S2		3.80 - 4.40	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-03-S3	Duplicate of BH25-03-S2	3.80 - 4.40	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-03-S4		5.35 - 5.95	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-03-S5		6.10 - 6.70	3/18/2025								✓
	BH25-03-S6		1.50 - 2.10	3/18/2025								✓
BH25-04	BH25-04-S1		1.50 - 2.10	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-04-S2		3.10 - 3.70	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-04-S3		5.35 - 5.95	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-04-S4		2.30 - 2.90	3/17/2025								✓
	BH25-04-S5		4.60 - 5.20	3/17/2025								✓
BH25-06	BH25-06-S1		1.50 - 2.10	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-06-S2		3.80 - 4.40	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-06-S3		6.10 - 6.70	3/17/2025	✓	✓	✓	✓	✓	✓		
	BH25-06-S4		2.30 - 2.90	3/17/2025								✓
	BH25-06-S5		5.35 - 5.95	3/17/2025								✓

Borehole ID	Soil Sample ID	Duplicate Sample	Sample Depth (mbgs)	Date Sampled	PHC	BTEX	M&I	PAH	VOC	PCB	TCLP	Hold
BH25-07/ MW25-02	BH25-07-S1		1.50 - 2.10	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-07-S2		3.10 - 3.70	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-07-S3	Duplicate of BH25-07-S2	3.10 - 3.70	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-07-S4		6.10 - 6.70	3/18/2025	✓	✓	✓	✓	✓	✓		
	BH25-07-S5		4.60 - 5.20	3/18/2025								✓
	TCLP-01		Composite	3/18/2025							✓	
BH25-08/ MW25-01	BH25-08-S1		1.50 - 2.10	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-08-S2		3.10 - 3.70	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-08-S3		4.60 - 5.20	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-08-S4		5.35 - 5.95	3/19/2025								✓
	BH25-08-S5		6.10 - 6.40	3/19/2025								✓
BH25-09	BH25-09-S1		3.10 - 3.70	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-09-S2		5.35 - 5.95	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-09-S3		6.10 - 6.70	3/19/2025	✓	✓	✓	✓	✓	✓		
	BH25-09-S4		1.50 - 2.10	3/19/2025								✓
	BH25-09-S5		3.80 - 4.40	3/19/2025								✓

3.4 Groundwater

Two groundwater monitoring wells were installed and sampled. Additionally, four existing groundwater monitoring wells that were previously installed at the Site during the investigation completed in October 2024 were sampled. The borehole records that include well installation details as part of that investigation are included in Appendix C.

3.4.1 Groundwater Monitoring Well and Installation

As part of the March 2025 investigation, groundwater monitoring wells were installed within two of the advanced boreholes. The track mounted auger rig was used for the installation of all monitoring wells upon completion of soil sampling activities.

Monitoring well MW25-02 was screened to intersect the suspected local groundwater table, based on observed conditions in the soil horizon (i.e., observed change in moisture content) during the drilling and soil sampling activities. Monitoring well MW25-01 was screened below the suspected local groundwater table based on observed conditions in the soil horizon during the drilling and soil sampling activities. These wells were constructed using 50-mm diameter Schedule 40 PVC riser and included a well screen (Slot 10). A sand pack was placed in the borehole annulus around the well screen from the bottom of the well to slightly above the well screen and bentonite was placed above the sand pack. A concrete seal was placed on top of the bentonite and extended to the ground surface. The wells were completed with a flush-mount protective casing. A summary of monitoring wells installation details can be found in Table A1. All newly installed wells were given approximately 24 hours to recharge and then were developed by hand purging a minimum of three times the measured well volume. Monitoring well construction details are shown on the borehole records included in Appendix C.

3.4.2 Headspace Vapour Readings

Headspace vapour readings for Hexane and Isobutylene were not collected from the groundwater monitoring well prior to measurement of groundwater levels, purging, and sampling. This was due to the RKI Eagle 2 Gas Meter not functioning properly and presenting inaccurate measurements. Information regarding the RKI Eagle 2 Gas Monitor can be found in Table 3-2.

3.4.3 Groundwater Elevations and Product Thickness Measurements

An oil-water interface meter was used to assess the presence of free product within the groundwater monitoring wells and to measure groundwater levels. A description of water levels, observed hydraulic gradient, and free product levels are provided in Section 4.4 to 4.5. No free product was observed during the investigation.

3.4.4 Groundwater Field Measurements of Water Quality Parameters

Groundwater monitoring wells were purged using a low-flow peristaltic pump prior to sampling. The objective of using a low-flow peristaltic pump for purging was to prevent agitation of silt/sediment within the groundwater monitoring wells. To facilitate the use of the peristaltic pump, a section of low-density polyethylene (LDPE) down-well tubing was

extended from the peristaltic pump (at surface) to the mid-point of the well screen. The LDPE tubing was connected to silicone tubing which was inserted into and through the peristaltic pump. Additional tubing was then connected from the silicone tubing to a flow through cell equipped with a YSI ProQuatro capable of taking continuous measurements of pH, temperature, electrical conductivity (EC), dissolved oxygen (DO), oxidation reduction potential (ORP), and total dissolved solids (TDS), collectively referred to as, the “Physical Parameters”. The purge water was directed into a bucket.

Once the peristaltic pump was turned on, Hatch personnel collected a volume of water over a specified period of time to assess the volumetric flow rate generated by the pump. Measurement of groundwater levels and Physical Parameters were measured and recorded in a dedicated field tablet at periodic intervals to assess changes in the physical conditions of groundwater throughout the purging process. Measurements of groundwater level and the Physical Parameters were taken approximately every 1 L to 2 L of purge volume. Records of these measurements can be found in Appendix D. This process ensured that the groundwater in the flow through cell subject to the previous measurements had completely evacuated from the flow through cell before a new measurement was taken. The water level and Physical Properties were allowed to stabilize over a period of three successive readings prior to sample collection.

A summary of the measured water levels and Physical Parameters that were recorded prior to sampling are provided in Section 4.6.

3.4.5 Groundwater Sampling

Groundwater samples were obtained from each of the monitoring wells upon stabilization of groundwater levels and the Physical Parameters. The YSI ProQuatro was then disconnected from the peristaltic pump and samples were obtained from the pump to the sample containers.

In total, six samples plus one blind field duplicate were collected as part of the sampling events. The samples were collected in laboratory-supplied bottles and stored in an ice-filled cooler.

All groundwater samples were submitted to ALS Laboratories in Mississauga, Ontario. The groundwater samples that were submitted for chemical analysis are summarized in Table 3-4.

Table 3-4: Summary of Submitted Groundwater Samples

Monitoring Well ID	Sample ID	Duplicate Sample	Date Sampled	Lead	PHCs	BTEX	PAH	MTBE	*Additional Parameters
MW24-16	MW24-16		3/20/2025	✓	✓	✓	✓	✓	
MW24-17	MW24-17		3/20/2025	✓	✓	✓	✓	✓	
MW24-22	MW24-22		3/20/2025	✓	✓	✓	✓	✓	
MW24-25	MW24-25		3/19/2025	✓	✓	✓	✓	✓	
DUP-01	DUP-01	Duplicate of MW24-25	3/19/2025	✓	✓	✓	✓	✓	
MW25-01	MW25-01		3/20/2025				✓		✓
MW25-02	MW25-02		3/21/2025				✓		✓

*Additional Parameters include E. Coli, pH, TSS, Ammonia, Total Kjeldahl Nitrogen, Total Chlorine, Total Cyanide, Total Phosphorus, Total Metals, Total Mercury, Total Hexavalent Chromium, BOD, Phenols, VOCs, SVOC-BNA, OCPs, PCBs, Anions, Oil & Grease, Nonylphenol & Nonylphenol Ethoxylates.

3.5 Residue Management Procedures

The management of soil, groundwater, and fluids from equipment cleaning was conducted as indicted in Table 3-5.

Table 3-5: Residue Management Procedure Summary

Residue	Management Procedure
Soil from drilling	Soil from drilling the monitoring wells was removed from the area of each monitoring well and placed into a drum. The drums were left on the Site for ONTC to coordinate their disposal with GFL Environmental.
Groundwater from purging	Groundwater from purging the monitoring wells was removed from the area of each monitoring well and discharged into a pail or drum. The pails and drums were left on the Site for ONTC to coordinate their disposal with GFL Environmental.
Fluids from equipment cleaning	Water mixed with cleaning solution was released on the ground surface in an area away from the monitoring well.

3.6 Elevation Surveying

The GPS coordinates, including elevation, were surveyed for all boreholes and groundwater monitoring wells on the Site. A GNSS RTK survey unit was used to survey the monitoring wells to the nearest millimeter and elevations are referenced to Canadian Geodetic Vertical Datum 1928 (CGVD28). Horizontal and vertical accuracy was less than 0.01 m. Groundwater monitoring well elevations and coordinates can be found in Table A1.

3.7 Quality Assurance and Quality Control Measures

Proper field protocols for sample collection and handling were followed by all Hatch personnel in general accordance with the *MECP Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MECP, 1996). All field equipment was decontaminated with a mixture of Alconox® and distilled water between sample collection. Clean nitrile gloves were used for each sample to eliminate the potential for cross contamination of samples. Soil samples for VOCs were collected directly into laboratory supplied containers. The remaining chemical parameters were collected directly into a Ziplock bag and later sub-sampled into laboratory supplied containers based on field screening measurements. All groundwater samples were collected directly into laboratory supplied containers, preserved as required, and stored in ice-filled coolers. Proper chain of custody procedures were followed by Hatch and the laboratory during sample transfer.

Soil and groundwater samples were collected using dedicated sampling equipment for each monitoring well. Groundwater samples collected for analysis of metals from MW24-16, MW24-17, MW24-22, and MW24-25 were field filtered using a dedicated 0.45-micron filter. Groundwater containers were filled to the required volumes. Sample containers were labelled with unique sample identification, the project number, and the sampling date. A laboratory supplied chain of custody was completed and submitted with the samples to the laboratory.

Blind field duplicate samples of soil and groundwater were collected and submitted for laboratory analysis as part of this investigation. The field duplicate sample was assessed as part of the quality assurance (QA) and quality control (QC) program through a comparison of analytical results of the original sample to the field duplicate sample. Field duplicate samples measure the cumulative effects of both field and laboratory precision and hence provide an indication of overall precision. Therefore, field duplicates may have greater variability than laboratory duplicates which measure only laboratory precision. Field duplicates were evaluated based on the relative percent difference (RPD) in parameter concentrations.

The RPD was calculated in accordance with the *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality* (MECP 2021) (the “Protocol”). The calculated RPD was assessed against the recommended performance criteria outlined in the Protocol where the measured concentration was greater than five times the method detection limit (MDL). The results of the duplicate analysis are discussed in Section 4.8.

ALS Laboratories performed QA/QC procedures as outlined in their CALA procedures. These procedures included analysis of laboratory duplicates and blanks as well as analysis of surrogate recovery as outlined in the Certificate of Analysis provided in Appendix E.

4. Results and Evaluation

4.1 Geology and Soil Stratigraphy

A brief summary of the subsurface conditions encountered at the Site is presented below. Detailed borehole records are included in Appendix C. A more comprehensive and detailed analysis of the geology and soil stratigraphy can be found in the report titled *ONTC RIP Track Facility - Geotechnical Investigation and Design Report H375313-1000-2A0-0001* (Hatch, 2025).

Subsurface conditions were interpreted from the boreholes which were advanced to target depth during the 2025 investigation. This includes Boreholes BH25-03, BH25-04, BH25-06, BH25-07/MW25-02, BH25-08/MW25-01 and BH25-09. Boreholes BH25-01, BH25-02 and BH25-05 were unable to extend to target depth due to unfavourable drilling conditions encountered during the field program.

The typical soil profile, in descending order by depth, includes:

- Concrete (observed in boreholes in front of the existing Wheel Shop)
- Sand and gravel fill
- Silty sand
- Silty clay
- Sand with silt

Intermittent black staining with oily residue and slight to strong hydrocarbon odour was observed throughout the silty sand deposit encountered below the fill. Bedrock was not encountered in any of the boreholes during the investigation.

4.2 Soil Texture Analysis

Soil texture analysis was not conducted as part of this investigation. However, some grain size analyses were conducted during the geotechnical investigation. Grain size analysis results are summarized in the report titled *ONTC RIP Track Facility - Geotechnical Investigation and Design Report H375313-1000-2A0-0001* (Hatch, 2025).

Based on the stratigraphy observed during drilling activities and grain size analysis results, soils were classified as primarily coarse grained. Small amounts of fine-grained materials were observed under the coarse-grained materials.

4.3 Field Screening

A total of 31 soil samples were screened using an RKI Eagle 2 which measured hexane and isobutylene. Hexane concentrations ranged from 0 ppm to 680 ppm and isobutylene concentrations ranged from 0 ppm to 110 ppm. The results are summarized in Table 4-1.

Table 4-1: Summary of Field Screening Results

Sample ID	Sample Depth (mbgs)	Date Sampled	Field Screening Measurements (ppm)	
			Hexane	Isobutylene
BH25-03-S1	3.10 - 3.70	3/18/2025	0	0
BH25-03-S2	3.80 - 4.40	3/18/2025	0	0
BH25-03-S3	3.80 - 4.40	3/18/2025	0	0
BH25-03-S4	5.35 - 5.95	3/18/2025	0	1
BH25-03-S5	6.10 - 6.70	3/18/2025	0	1
BH25-03-S6	1.50 - 2.10	3/18/2025	0	0
BH25-04-S1	1.50 - 2.10	3/17/2025	165	110
BH25-04-S2	3.10 - 3.70	3/17/2025	0	0
BH25-04-S3	5.35 - 5.95	3/17/2025	0	0
BH25-04-S4	2.30 - 2.90	3/17/2025	0	0
BH25-04-S5	4.60 - 5.20	3/17/2025	0	0
BH25-06-S1	1.50 - 2.10	3/17/2025	0	16
BH25-06-S2	3.80 - 4.40	3/17/2025	0	9
BH25-06-S3	6.10 - 6.70	3/17/2025	0	2
BH25-06-S4	2.30 - 2.90	3/17/2025	0	2
BH25-06-S5	5.35 - 5.95	3/17/2025	0	2
BH25-07-S1	1.50 - 2.10	3/18/2025	0	1
BH25-07-S2	3.10 - 3.70	3/18/2025	0	1
BH25-07-S3	3.10 - 3.70	3/18/2025	0	1
BH25-07-S4	6.10 - 6.70	3/18/2025	0	0
BH25-07-S5	4.60 - 5.20	3/18/2025	0	0
BH25-08-S1	1.50 - 2.10	3/19/2025	0	1
BH25-08-S2	3.10 - 3.70	3/19/2025	0	1
BH25-08-S3	4.60 - 5.20	3/19/2025	25	1
BH25-08-S4	5.35 - 5.95	3/19/2025	0	2
BH25-08-S5	6.10 - 6.40	3/19/2025	0	1
BH25-09-S1	3.10 - 3.70	3/19/2025	680	0
BH25-09-S2	5.35 - 5.95	3/19/2025	20	1
BH25-09-S3	6.10 - 6.70	3/19/2025	30	1

Sample ID	Sample Depth (mbgs)	Date Sampled	Field Screening Measurements (ppm)	
			Hexane	Isobutylene
BH25-09-S4	1.50 - 2.10	3/19/2025	0	0
BH25-09-S5	3.80 - 4.40	3/19/2025	0	0

4.4 Hydrogeology

4.4.1 Elevations and Groundwater Flow Direction

Groundwater levels were measured at the Site from March 19 to 21, 2025. The groundwater levels in the monitoring wells ranged from 0.80 mbgs to 2.70 mbgs. The installed screen lengths ranged from 2.00 m to 6.10 m depending on the depth of the monitoring well and observations of soil conditions during drilling activities. The measured water level for MW25-01 and MW25-02 the day after installation was approximately 0.70 mbgs prior to developing and sampling the wells. The groundwater level in the monitoring wells was also measured on March 20, 2025, and was at about 0.70 mbgs in both monitoring wells. A summary of monitoring well installation and groundwater levels and elevations can be found in Table A1.

The groundwater elevations were calculated based on the measured groundwater levels and monitoring well ground elevations. Groundwater elevations and flow direction are presented in Figure 3.

The groundwater elevations observed between March 19 to 21, 2025 ranged from 197.47 masl to 201.33 masl. Based on the observed groundwater elevations, the local groundwater flow direction on the Site is from the northeast to southwest, which is consistent with previous investigations.

4.4.2 Hydraulic Gradient

The hydraulic gradient was calculated based on the March 19 to 21, 2025 groundwater elevations. The horizontal hydraulic gradient was calculated to be 0.016 based on these measurements.

4.5 Free Product Thickness

Measurable levels of light non-aqueous phase liquids (LNAPLs) and dense non-aqueous phase liquids (DNAPLs) were not encountered in any of the monitoring wells on the Site.

4.6 Field Measurements of Groundwater Quality

Field measurements of groundwater quality were obtained immediately prior to sample collection and are summarized in Table 4-2. As discussed in Section 3.4.4, water was drawn from the monitoring wells using a low flow peristatic pump, and water within the monitoring well was purged prior to sample collection. The measurements of Physical Parameters, summarized in Table 4-2, were those recorded after stabilization and prior to sample collection. Monitoring well development and purging/sampling forms were used to record field measurements of groundwater quality and are provided in Appendix D.

Table 4-2: Field Measurements of Groundwater Quality Prior to Sampling

Monitoring Well ID	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Total Dissolved Solids (g/L)	Appearance and Odour
MW24-16	8.1	6.7	409	0.57	-33.8	NR	Yellow, turbid, slight PHC odour
MW24-17	7.5	6.64	995	0.41	-40.8	NR	Orange, turbid, moderate PHC odour
MW24-22	6.3	6.79	1,078	0.46	-14.2	NR	Yellow, turbid, slight PHC odour
MW24-25	1.8	7.03	1,254	6.85	196.3	NR	Clear
MW25-01	5.6	6.46	395.6	1.07	-17	NR	Light yellowish brown, turbid, moderate PHC odour
MW25-02	5.3	7.44	264.3	0.41	0.41	NR	Light yellow, cloudy, moderate PHC odour
*NR=Not Recorded							

4.7 Analytical Results

4.7.1 Soil Chemical Quality

The soil analytical results are presented in Table A2 and are summarized in Figure 4. The Certificates of Analysis for the soil analysis are provided in Appendix E.

4.7.1.1 Metals and Inorganics

A total of 18 soil samples, including two blind field duplicates for QA/QC purposes, were collected and submitted for analysis of metals & inorganics. The soil analytical results for metals & inorganics are provided in Table A2.

The parameter concentrations of all samples analyzed satisfied the Table 3.1 ICC ESQS.

4.7.1.2 Petroleum Hydrocarbons and BTEX

A total of 18 soil samples, including two blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PHCs and BTEX. The soil analytical results for PHCs and BTEX are provided in Table A2.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed Table 3.1 ICC ESQS:

- PHC Fraction F2 (C10 to C16) in samples BH25-04-S1 (726 µg/g), BH25-06-S1 (2790 µg/g) and BH25-06-S2 (53 µg/g). The Table 3.1 ICC ESQS guideline limit for PHC Fraction F2 in soils is 26 µg/g.

The parameter concentrations of all other PHCs and BTEX parameters analyzed satisfied the Table 3.1 ICC ESQS.

4.7.1.3 Polycyclic Aromatic Hydrocarbons

A total of 18 soil samples, including two blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PAHs. The soil analytical results for PAHs are provided in Table A2.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed Table 3.1 ICC ESQS:

- Acenaphthylene in samples BH25-04-S1 (0.095 µg/g) and BH25-06-S1 (0.217 µg/g). The Table 3.1 ICC ESQS guideline limit for Acenaphthylene in soils is 0.093 µg/g.
- Methylnaphthalene, 1+2- in samples BH25-06-S1 (38.6 µg/g). The Table 3.1 ICC ESQS guideline limit for Methylnaphthalene, 1+2- in soils is 8.7 µg/g.
- Methylnaphthalene, 1- in samples BH25-06-S1 (15.6 µg/g). The Table 3.1 ICC ESQS guideline limit for Methylnaphthalene, 1- in soils is 8.7 µg/g.
- Methylnaphthalene, 2- in samples BH25-06-S1 (23.0 µg/g). The Table 3.1 ICC ESQS guideline limit for Methylnaphthalene, 2- in soils is 8.7 µg/g.

The parameter concentrations of all other PAHs parameters analyzed satisfied the Table 3.1 ICC ESQS.

4.7.1.4 Volatile Organic Compounds

A total of 18 soil samples, including two blind field duplicates for QA/QC purposes, were collected and submitted for VOCs. The soil analytical results for VOCs are provided in Table A2.

The parameter concentrations of all samples analyzed satisfied Table 3.1 ICC ESQS.

4.7.1.5 Polychlorinated Biphenyls

A total of 18 soil samples, including two blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PCBs. The soil analytical results for PCBs are provided in Table A2.

The parameter concentrations of all samples analyzed satisfied Table 3.1 ICC ESQS.

4.7.1.6 Toxicity Characteristic Leaching Procedure

One composite soil sample was collected and submitted for analysis of TCLP anions and nutrients, TCLP extractables, TCLP metals, TCLP VOCs, and TCLP PCBs. The soil analytical results for TCLP tests are provided in Table A3.

The parameter concentrations of the sample analyzed satisfied the Schedule 4 Leachate Quality Criteria of O. Reg. 347/90, 558/00.

4.7.2 Groundwater Chemical Quality

The groundwater analytical results are presented in Table A4 to Table A9 and are summarized in Figure 5. The Certificates of Analysis for the soil analysis are provided in Appendix E.

4.7.2.1 Metals and Other Regulated Parameters

Six groundwater samples, including one blind field duplicate for QA/QC purposes, were collected and submitted for analysis of metals and ORPs. The groundwater analytical results for metals and ORPs are provided in Table A4 to Table A9.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed the Ontario North Bay Sewer Use By-Law – Sanitary Sewer:

- Solids, total suspended (TSS) in samples MW25-01 (699 µg/g). The Sanitary Sewer guideline limit for TSS in groundwater is 350 µg/g.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed the Ontario North Bay Sewer Use By-Law – Storm Sewer:

- Solids, total suspended (TSS) in samples MW25-01 (699 µg/g) and MW25-02 (61.3 µg/g). The Storm Sewer guideline limit for TSS in groundwater is 15 µg/g.

- Aluminum, total in samples MW25-01 (7.56 µg/g) and MW25-02 (1.02 µg/g). The Storm Sewer guideline limit for Aluminum, total in groundwater is 1 µg/g.
- Copper, total in sample MW25-01 (0.166 µg/g). The Storm Sewer guideline limit for Copper, total in groundwater is 0.04 µg/g.
- Manganese, total in samples MW25-01 (0.768 µg/g) and MW25-02 (0.826 µg/g). The Storm Sewer guideline limit for Manganese, total in groundwater is 0.05 µg/g.
- Zinc, total in sample MW25-01 (0.173 µg/g). The Storm Sewer guideline limit for Zinc, total in groundwater is 0.04 µg/g.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed Table 3 SCS.

- Copper, total in samples MW25-01 (0.166 µg/g). The Table 3 SCS guideline limit for Copper, total in groundwater is 0.087 µg/g.

The laboratory analysis indicated the following parameters were measured at concentrations that exceed Table 7 SCS.

- Copper, total in sample MW25-01 (0.166 µg/g). The Table 3 SCS guideline limit for Copper, total in groundwater is 0.087 µg/g.
- Lead, total in sample MW25-01 (0.0220 µg/g). The Table 7 SCS guideline limit for Lead, total in groundwater is 0.02 µg/g.

The parameter concentrations of all other metals and ORPs parameters analyzed satisfied Table 3 SCS, Table 7 SCS, Ontario North Bay Sewer Use By-Law – Sanitary Sewer & Ontario North Bay Sewer Use By-Law – Storm Sewer for groundwater.

4.7.2.2 *Petroleum Hydrocarbons and BTEX*

A total of four groundwater samples, including one blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PHCs and BTEX. The groundwater analytical results of PHCs and BTEX are provided in Table A4 to Table A9.

The parameter concentrations of all samples analyzed satisfied Table 3 SCS, Table 7 SCS, Ontario North Bay Sewer Use By-Law – Sanitary Sewer & Ontario North Bay Sewer Use By-Law – Storm Sewer for groundwater.

4.7.2.3 *Polycyclic Aromatic Hydrocarbons*

Six groundwater samples, including one blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PAHs. The groundwater analytics of PAHs are provided in Table A4 to Table A9.

The parameter concentrations of all samples analyzed satisfied Table 3 SCS, Table 7 SCS, Ontario North Bay Sewer Use By-Law – Sanitary Sewer & Ontario North Bay Sewer Use By-Law – Storm Sewer for groundwater.

4.7.2.4 *Volatile Organic Compounds*

Six groundwater samples, including one blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PAHs. The groundwater analytics of VOCs are provided in Table A4 to Table A9.

The parameter concentrations of all samples analyzed satisfied Table 3 SCS, Table 7 SCS, Ontario North Bay Sewer Use By-Law – Sanitary Sewer & Ontario North Bay Sewer Use By-Law – Storm Sewer for groundwater.

4.7.2.5 *Polychlorinated Biphenyls*

ix groundwater samples, including one blind field duplicates for QA/QC purposes, were collected and submitted for analysis of PCBs. The groundwater analytics of PCBs are provided in Table A4 to Table A9.

The parameter concentrations of all samples analyzed satisfied Table 3 SCS, Table 7 SCS, Ontario North Bay Sewer Use By-Law – Sanitary Sewer & Ontario North Bay Sewer Use By-Law – Storm Sewer for groundwater.

4.8 Quality Assurance and Quality Control Results

A summary of the results of the RPD analysis is provided in Table 4-3.

Table 4-3: Summary of QA/QC Results

Media	Sample ID	Field Duplicate ID	Sample Date	Parameters	QA/QC Results
Soil	BH25-03-S2	BH25-03-S3	18-Mar-25	M&I, VOCs, PHCs, BTEX, PAHs, PCBs	RPD values for Physical Tests & M&I, exceeded the relevant performance criteria. The highest noted exceedances are 14.2% (Conductivity) and 44.1% (M&I).
Soil	BH25-07-S2	BH25-07-S3	18-Mar-25	M&I, VOCs, PHCs, BTEX, PAHs, PCBs	RPD values for Physical Tests & M&I, exceeded the relevant performance criteria. The highest noted exceedances are 47.3% (Conductivity) and 63.4% (M&I).
Groundwater	MW24-25	DUP1	19-Mar-25	Metals, MTBE, PHCs, BTEX, PAHs	The RPD values satisfied the relevant performance criteria.

With the exception of the noted RPD exceedances in Table 4-3, all other parameters analyzed in soil and groundwater satisfied the relevant performance criteria. The RPD calculations can be found in Appendix F.

Additionally, ALS Laboratories performed QA/QC procedures as outlined in their CALA procedures. These procedures included analysis of laboratory duplicates, matrix spike, reference materials, method blanks, and laboratory control samples as specified in the Certificates of Analysis' provided in Appendix E.

4.9 Discussion

Based on the results presented in the previous sub-sections, there is evidence of hydrocarbon contamination in the soil and metals contamination in the groundwater beneath the Site.

Groundwater contamination has been observed at various locations throughout the Site during previous investigations completed in June and October 2022, October 2023 and October 2024 as described in Section 1.1.1. Monitoring wells MW24-16, MW24-17, MW24-22, and MW24-25 were advanced during the October 2024 investigation in the area surrounding the diesel and paint shop. These monitoring wells were installed along the southwest extent of the ONTC property, northeast of the diesel shop and north of the paint shop to investigate the potential for contaminated groundwater migration off-site towards Veterans Park and towards the residential properties west and northwest of the area. These wells were selected for sampling in the March 2025 investigation to validate the groundwater quality due to inconsistent analytical groundwater results and field observations that were observed during October 2024. For all groundwater samples submitted during the October 2024 investigation, the analytical results were below all applicable guideline limits. The samples taken from these monitoring wells during the March 2025 investigation did not exceed any of the applicable guideline limits and therefore validates the results from the October 2024 investigation.

Six boreholes and two monitoring wells were installed in areas surrounding the RIP track in the shop complex during the March 2025 investigation. These boreholes and monitoring wells were installed to further the understanding of soil and groundwater conditions at the Site and potential for contaminated groundwater migration off-Site. Borehole BH25-06 exceeded guideline limits in Table 3.1 ICC ESQS for PHC Fraction F2 (C10 to C16). In addition, boreholes BH25-04 & BH25-06 exceeded guideline limits in Table 3.1 ICC ESQS for PAHs which include Acenaphthylene, Methylnaphthalene 1+2- , Methylnaphthalene 1- , and Methylnaphthalene 2-. Laboratory results indicate soil contamination identified in boreholes are shallow surficial samples taken between 1.5 to 2.10 mbgs.

Monitoring well MW25-01 exceeded guideline limits for exceeded total suspended solids in the Ontario North Bay Sewer Use By-Law – Sanitary Sewer. The same monitoring well exceeded total suspended solids, aluminum, copper, manganese and zinc in the Ontario North Bay Sewer Use By-Law – Storm Sewer and Copper for Table 3 ICC SCS.

4.9.1 Soil Management and Monitoring

Based on discussions with representatives of ONTC, the Site will continue to operate as a rail yard for the foreseeable future. Activities associated with the operation of the Site will therefore continue to have the potential to impact soil and groundwater quality. However, major sources of historical contamination (i.e., fuel storage infrastructure) such as the AST and pump house, have since been decommissioned and underground pipes have been flushed and capped with bentonite. In addition, the refueling of locomotives has since been outsourced to an external, certified vendor and a fuel truck is utilized on as-needed basis.

Per consultation with ONTC and Hatch's design team for the RIP Track Rehabilitation project, soil is proposed to be excavated and removed from the Site. Further soil characterization may be needed prior to construction if excess soil will be removed from the Site and transported to a Reuse facility.

5. Conclusion and Recommendations

This report summarizes the results of Hatch's geoenvironmental investigation that was completed in March 2025. Based on the results of the investigation and the conclusions noted above, Hatch recommends:

- ONTC should continue semi-annual monitoring of on-Site groundwater.
- ONTC should consider further soil and groundwater investigation and management planning prior to any removal of soil from the Site.
- Excavated contaminated soil should be managed as a waste and disposed at a MECP licensed landfill facility. An excess soil management plan may be required depending on the volume of excavated soils. All excess soil during construction should follow the MECP's Excess Soil Best Management Practices Guide.
- Dewatering during construction may result in groundwater requiring treatment prior to discharge to City sewer system, containment and/or transportation offsite for treatment and disposal.
- ONTC should continue discussions with the City of North Bay and CP to initiate a further groundwater investigation of the adjoining rail lands and soccer field.

6. References

ASTM D2488-17e1 Standard Practice for Description and Identification of Soils (Visual-Manual Procedures), (ASTM, 2018).

Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, (MECP, 1996).

O. Reg. 153/04: Record of Site Condition – Part XV.1 of The Act (MECP, 2024).

Rules for Soil Management and Excess Soil Quality Standards (MECP, 2024).

Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality (MECP, 2021).

Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (MECP, 2011).

TSSA Assessment Report (Hatch, 2022).

ONTC North Bay Shop Complex 2024 Geoenvironmental Investigation H368027-0000-840-066-0004 (Hatch, 2025)

2023 Groundwater Monitoring Report H368027-0000-840-066-0002 (Hatch, 2023).

Tables

Table A1: Monitoring Well Installation and Groundwater Levels/Elevations

Monitoring Well ID	Date of Installation	Location	Approximae Coordinates (UTM)		Top of Pipe Elevation	Ground Elevation	Well Installation Details								Static Water Levels			
							Screen		Sand		Bentonite		Surface Seal		6-Oct-24 to 11-Oct-24		19-Mar-25 to 21-Mar-25	
			Northing	Easting	mASL	mASL	mbgs	mASL	mbgs	mASL	mbgs	mASL	mbgs	mASL	mbgs	mASL	mbgs	mASL
MW24-16	9-Oct-24	South of Diesel Shop	5128320.24	619138.25	199.81	199.81	1.52 - 3.05	196.76 - 198.2922	1.22 - 4.65	195.16 - 198.59	0.30 - 1.52	198.29 - 199.51	0.00 - 0.30	199.51 - 199.81	2.34	197.47	2.34	197.47
MW24-17	9-Oct-24	Southwest of Diesel Shop	5128371.68	619063.02	199.54	199.54	1.45 - 2.97	196.57 - 198.0936	1.15 - 4.50	195.04 - 198.39	0.30 - 1.15	198.39 - 199.24	0.00 - 0.30	199.24 - 199.54	2.04	197.50	2.03	197.51
MW24-22	9-Oct-24	West Corner of Car Shop	5128418.21	619084.98	200.18	200.18	1.25 - 2.78	197.40 - 198.9276	0.95 - 4.31	195.87 - 199.23	0.30 - 0.95	199.23 - 199.88	0.00 - 0.30	199.88 - 200.18	2.26	197.92	2.28	197.90
MW24-25	9-Oct-24	North of Paint Shop	5128544.11	619215.31	202.40	202.40	0.40 - 1.74	200.66 - 202.0019	0.30 - 1.74	200.66 - 202.10	0.20 - 0.30	202.10 - 202.20	0.00 - 0.20	202.20 - 202.40	1.17	201.23	1.07	201.33
MW25-01	19-Mar-25	Access Road West of RIP Track	5128175.85	619327.53	199.42	199.42	3.05 - 6.10	193.32 - 196.37	2.44 - 6.10	193.32 - 196.98	0.30 2.44	196.98 - 199.12	0.00 0.30	199.12 - 199.42	-	-	0.71	198.71
MW25-02	18-Mar-25	Access Road West of RIP Track	5128197.99	619300.46	199.38	199.38	2.13 - 5.18	194.20 - 197.25	1.52 - 6.10	193.28 - 197.86	0.61 - 1.52	197.86 - 198.77	0.00 - 0.61	198.77 - 199.38	-	-	0.65	198.73

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project H/368027 (NB RIP TRACK)
Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
Issue Date 16-Jun-2025 16:02
Amendment 1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Physical Tests (Matrix: Soil/Solid)																	
Conductivity (1:2 leachate)	1.4(U)	0.00500	mS/cm	0.197	0.0900	0.0776			0.547	0.0420	0.0680	0.165			0.0771	0.0844	0.0732
Moisture		0.25	%	12.3	20.3	12.0			21.0	19.7	18.3	27.1			23.4	16.0	15.4
pH (1:2 soil:CaCl2-aq)		0.10	pH units	6.88	6.92	7.48			9.62	5.59	6.24	7.36			6.69	6.79	6.67
Cyanides (Matrix: Soil/Solid)																	
Cyanide, weak acid dissociable	0.051(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Fixed-Ratio Extractables (Matrix: Soil/Solid)																	
Calcium, soluble ion content		0.50	mg/L	6.23	1.95	3.48			79.9	1.10	2.12	13.0			1.93	1.85	1.58
Magnesium, soluble ion content		0.50	mg/L	1.57	0.89	2.22			<0.50	1.01	0.74	11.8			0.86	1.18	1.12
Sodium, soluble ion content		0.50	mg/L	17.4	4.86	2.53			21.2	1.04	1.84	6.73			3.93	3.41	3.44
Sodium adsorption ratio [SAR]	12(U)	0.10	-	1.61	0.72	0.26			0.65	0.17	0.28	0.32			0.59	0.48	0.51
Metals (Matrix: Soil/Solid)																	
Antimony	40(U)	0.10	mg/kg	0.51	<0.10	<0.10			0.23	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10
Arsenic	18(U)	0.10	mg/kg	2.03	0.82	0.81			2.16	1.06	1.11	1.69			0.79	1.08	0.84
Barium	670(U)	0.50	mg/kg	52.6	12.7	18.6			32.0	16.9	10.1	107			12.1	14.3	13.5
Beryllium	8(U)	0.10	mg/kg	0.21	0.10	0.12			0.17	0.12	<0.10	0.38			<0.10	0.10	<0.10
Boron	120(U)	5.0	mg/kg	<5.0	<5.0	<5.0			<5.0	<5.0	<5.0	5.8			<5.0	<5.0	<5.0
Boron, hot water soluble	2(U)	0.10	mg/kg	0.12	<0.10	<0.10			0.19	0.16	0.10	0.11			<0.10	<0.10	<0.10
Cadmium	1.9(U)	0.020	mg/kg	0.364	0.022	<0.020			0.695	0.027	0.020	0.061			0.020	0.023	0.036
Chromium	160(U)	0.50	mg/kg	58.0	14.4	11.2			14.2	16.7	10.5	58.3			11.6	15.5	13.1
Cobalt	80(U)	0.10	mg/kg	5.86	2.73	2.14			6.35	3.18	2.56	9.23			2.82	2.74	2.71
Copper	230(U)	0.50	mg/kg	18.3	2.72	4.37			76.9	3.94	2.45	18.7			2.44	2.99	2.69
Lead	120(U)	0.50	mg/kg	8.64	1.22	1.28			4.91	1.29	0.92	3.96			0.95	1.37	1.08
Mercury	0.27(U)	0.0050	mg/kg	0.0156	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050
Molybdenum	40(U)	0.10	mg/kg	1.20	<0.10	0.27			0.32	0.16	<0.10	0.49			<0.10	0.10	0.14
Nickel	270(U)	0.50	mg/kg	15.0	7.39	5.16			7.92	8.63	6.57	30.3			7.43	7.53	6.95
Selenium	5.5(U)	0.20	mg/kg	0.20	<0.20	<0.20			<0.20	<0.20	<0.20	<0.20			<0.20	<0.20	<0.20
Silver	40(U)	0.10	mg/kg	<0.10	<0.10	<0.10			0.12	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Thallium	3.3(U)	0.050	mg/kg	0.103	<0.050	<0.050			<0.050	<0.050	<0.050	0.121			<0.050	<0.050	<0.050
Uranium	33(U)	0.050	mg/kg	0.579	0.333	0.439			0.423	0.298	0.240	0.823			0.254	0.411	0.319
Vanadium	86(U)	0.20	mg/kg	17.7	10.9	9.89			11.9	13.4	8.57	37.4			8.52	12.5	10.5
Zinc	340(U)	2.0	mg/kg	106	10.8	9.4			64.6	13.1	9.2	39.9			10.1	11.6	11.8
Speciated Metals (Matrix: Soil/Solid)																	
Chromium, hexavalent [Cr VI]	8(U)	0.10	mg/kg	<0.10	0.14	0.10			0.14	0.35	0.23	<0.10			0.25	0.20	0.17
TCLP Anions & Nutrients (Matrix: Soil/Solid)																	
Nitrate + Nitrite (as N), TCLP		7.50	mg/L											<7.50			
TCLP Extractables (Matrix: Soil/Solid)																	
Acenaphthene, TCLP		0.0050	mg/L											<0.0050			
Acenaphthylene, TCLP		0.0050	mg/L											<0.0050			
Acridine, TCLP		0.0050	mg/L											<0.0050			
Anthracene, TCLP		0.0050	mg/L											<0.0050			
Aroclor 1016, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1221, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1232, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1242, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1248, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1254, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1260, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1262, TCLP		0.00020	mg/L											<0.00020			
Aroclor 1268, TCLP		0.00020	mg/L											<0.00020			
Benz(a)anthracene, TCLP		0.0050	mg/L											<0.0050			
Benzo(a)pyrene, TCLP		0.00020	mg/L											<0.00020			
Benzo(b+j)fluoranthene, TCLP		0.0050	mg/L											<0.0050			
Benzo(g,h,i)perylene, TCLP		0.0050	mg/L											<0.0050			
Benzo(k)fluoranthene, TCLP		0.0050	mg/L											<0.0050			
Chrysene, TCLP		0.0050	mg/L											<0.0050			
Dibenz(a,h)anthracene, TCLP		0.0050	mg/L											<0.0050			
Fluoranthene, TCLP		0.0050	mg/L											<0.0050			
Fluorene, TCLP		0.0050	mg/L											<0.0050			
Indeno(1,2,3-cd)pyrene, TCLP		0.0050	mg/L											<0.0050			
Naphthalene, TCLP		0.0050	mg/L											<0.0050			
Phenanthrene, TCLP		0.0050	mg/L											<0.0050			
Pyrene, TCLP		0.0050	mg/L											<0.0050			
Cyanide, weak acid dissociable, TCLP		0.10	mg/L											<0.10			

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
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Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Fluoride, TCLP		10	mg/L											<10			
Nitrate (as N), TCLP		5.0	mg/L											<5.0			
Nitrite (as N), TCLP		5.0	mg/L											<5.0			
Decachlorobiphenyl, TCLP		0.1	%											92.7			
Tetrachloro-m-xylene, TCLP		0.1	%											97.5			
TCLP Extractables Surrogates (Matrix: Soil/Solid)																	
Chrysene-d12, TCLP		5.0	%											85.5			
Naphthalene-d8, TCLP		5.0	%											117			
Phenanthrene-d10, TCLP		5.0	%											114			
TCLP Metals (Matrix: Soil/Solid)																	
pH, TCLP 1st preliminary		0.010	pH units											10.71			
pH, TCLP 2nd preliminary		0.010	pH units											1.80			
pH, TCLP extraction fluid initial		0.010	pH units											4.88			
pH, TCLP final		0.010	pH units											5.12			
Mercury, TCLP		0.0010	mg/L											<0.0010			
Arsenic, TCLP		1.0	mg/L											<1.0			
Barium, TCLP		2.5	mg/L											<2.5			
Boron, TCLP		0.50	mg/L											<0.50			
Cadmium, TCLP		0.050	mg/L											<0.050			
Chromium, TCLP		0.25	mg/L											<0.25			
Lead, TCLP		0.25	mg/L											<0.25			
Selenium, TCLP		0.10	mg/L											<0.10			
Silver, TCLP		0.050	mg/L											<0.050			
Uranium, TCLP		0.20	mg/L											<0.20			
TCLP VOCs (Matrix: Soil/Solid)																	
Benzene, TCLP		0.0050	mg/L											<0.0050			
Carbon tetrachloride, TCLP		0.025	mg/L											<0.025			
Chlorobenzene, TCLP		0.025	mg/L											<0.025			
Chloroform, TCLP		0.10	mg/L											<0.10			
Dichlorobenzene, 1,2-, TCLP		0.025	mg/L											<0.025			
Dichlorobenzene, 1,4-, TCLP		0.025	mg/L											<0.025			
Dichloroethane, 1,2-, TCLP		0.025	mg/L											<0.025			
Dichloroethylene, 1,1-, TCLP		0.025	mg/L											<0.025			
Dichloromethane, TCLP		0.10	mg/L											<0.10			
Methyl ethyl ketone [MEK], TCLP		0.10	mg/L											<0.10			
Tetrachloroethylene, TCLP		0.025	mg/L											<0.025			
Trichloroethylene, TCLP		0.025	mg/L											<0.025			
Vinyl chloride, TCLP		0.050	mg/L											<0.050			

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
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Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
TCLP VOCs Surrogates (Matrix: Soil/Solid)																	
Bromofluorobenzene, 4-, TCLP		1.0	%											99.7			
Difluorobenzene, 1,4-, TCLP		1.0	%											98.8			
Volatile Organic Compounds (Matrix: Soil/Solid)																	
Acetone	1.8(U)	0.50	mg/kg	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50
Benzene	0.034(U)	0.0050	mg/kg	<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050
Bromodichloromethane	5.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Bromoform	2.5(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Bromomethane	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Carbon tetrachloride	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Chlorobenzene	0.28(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Chloroform	0.26(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dibromochloromethane	5.5(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dibromoethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	6.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichlorobenzene, 1,3-	6.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichlorobenzene, 1,4-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichlorodifluoromethane	1.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloroethane, 1,1-	0.57(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloroethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloroethylene, 1,1-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloroethylene, cis-1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloroethylene, trans-1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloromethane	0.2(U)	0.045	mg/kg	<0.045	<0.045	<0.045			<0.045	<0.045	<0.045	<0.045			<0.045	<0.045	<0.045
Dichloropropane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloropropylene, cis+trans-1,3-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dichloropropylene, cis-1,3-		0.030	mg/kg	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Dichloropropylene, trans-1,3-		0.030	mg/kg	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Ethylbenzene	1.9(U)	0.015	mg/kg	0.015	<0.015	<0.015			<0.015	<0.015	<0.015	<0.015			<0.015	<0.015	<0.015

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Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
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Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Hexane, n-	2.5(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Methyl ethyl ketone [MEK]	26(U)	0.50	mg/kg	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	17(U)	0.50	mg/kg	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	0.05(U)	0.040	mg/kg	<0.040	<0.040	<0.040			<0.040	<0.040	<0.040	<0.040			<0.040	<0.040	<0.040
Styrene	6.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Tetrachloroethylene	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Toluene	7.8(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	0.4(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Trichloroethylene	0.05(U)	0.010	mg/kg	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Trichlorofluoromethane	0.46(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Vinyl chloride	0.02(U)	0.020	mg/kg	<0.020	<0.020	<0.020			<0.020	<0.020	<0.020	<0.020			<0.020	<0.020	<0.020
Xylene, m+p-		0.030	mg/kg	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Xylene, o-		0.030	mg/kg	0.031	<0.030	<0.030			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Xylenes, total	3(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
BTEX, total		0.10	mg/kg	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10
Hydrocarbons (Matrix: Soil/Solid)																	
F1 (C6-C10)	25(U)	5.0	mg/kg	24.2	<5.0	<5.0			<5.0	<5.0	<5.0	<5.0			<5.0	<5.0	<5.0
F2-Naphthalene		25	mg/kg	2790	53	<25			<25	<25	<25	<25			<25	<25	<25
F3-PAH		50	mg/kg	700	<50	<50			<50	<50	<50	<50			<50	<50	<50
F1-BTEX	25(U)	5.0	mg/kg	24.2	<5.0	<5.0			<5.0	<5.0	<5.0	<5.0			<5.0	<5.0	<5.0
F2 (C10-C16)	26(U)	10	mg/kg	2790	53	21			<10	<10	<10	<10			<10	<10	<10
F3 (C16-C34)	1700(U)	50	mg/kg	701	<50	<50			<50	<50	<50	<50			<50	<50	<50
F4 (C34-C50)	3300(U)	50	mg/kg	<50	<50	<50			<50	<50	<50	<50			<50	<50	<50
Hydrocarbons, total (C6-C50)		80	mg/kg	3520	<80	<80			<80	<80	<80	<80			<80	<80	<80
Chromatogram to baseline at nC50			-	YES	YES	YES			YES	YES	YES	YES			YES	YES	YES
Hydrocarbons Surrogates (Matrix: Soil/Solid)																	
Bromobenzotrifluoride, 2- (F2-F4 surrogate)		1.0	%	107	95.9	95.7			96.8	92.7	95.7	95.1			93.8	94.8	93.4

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project H/368027 (NB RIP TRACK)
Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
Issue Date 16-Jun-2025 16:02
Amendment 1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Dichlorotoluene, 3,4-		1.0	%	68.2	108	97.0			97.4	103	102	95.8			91.8	89.2	92.8
Volatile Organic Compounds Surrogates (Matrix: Soil/Solid)																	
Bromofluorobenzene, 4-		0.10	%	76.3	91.0	135			84.1	87.1	92.9	89.1			84.7	86.3	87.2
Difluorobenzene, 1,4-		0.10	%	88.2	100	101			93.6	95.8	108	102			97.2	97.9	99.0
Polycyclic Aromatic Hydrocarbons (Matrix: Soil/Solid)																	
Acenaphthene	15(U)	0.050	mg/kg	<0.573	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Acenaphthylene	0.093(U)	0.050	mg/kg	0.22	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Anthracene	0.16(U)	0.050	mg/kg	<0.085	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Benz(a)anthracene	1(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Benzo(a)pyrene	0.7(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	7(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	13(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Benzo(k)fluoranthene	7(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Chrysene	14(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	0.7(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Fluoranthene	70(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Fluorene	6.8(U)	0.050	mg/kg	1.14	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	0.76(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Methylnaphthalene, 1+2-	8.7(U)	0.050	mg/kg	38.6	0.463	0.196			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Methylnaphthalene, 1-	8.7(U)	0.030	mg/kg	15.6	0.224	0.095			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Methylnaphthalene, 2-	8.7(U)	0.030	mg/kg	23.0	0.239	0.101			0.042	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Naphthalene	1.8(U)	0.010	mg/kg	<1.27	<0.024	<0.010			0.016	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Phenanthrene	12(U)	0.050	mg/kg	1.29	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Pyrene	70(U)	0.050	mg/kg	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050	<0.050			<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Soil/Solid)																	
Acridine-d9		0.1	%	81.7	80.7	83.4			84.7	83.5	86.4	80.7			85.4	84.1	78.4
Chrysene-d12		0.1	%	84.8	88.2	92.3			89.3	88.2	92.4	88.5			89.7	89.9	84.8
Naphthalene-d8		0.1	%	89.7	83.9	87.5			84.3	92.6	98.5	95.0			97.3	97.0	89.0
Phenanthrene-d10		0.1	%	84.1	84.0	86.0			89.7	85.2	89.0	87.5			87.2	87.0	80.9

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project H/368027 (NB RIP TRACK)
Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
Issue Date 16-Jun-2025 16:02
Amendment 1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (Bulk) - 406 T3.1 - Volume Independent Soil - Ind/Com/Commu Property Use

Client Sample ID				BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-06-S4	BH25-06-S5	BH25-07-S1	BH25-07-S2	BH25-07-S3	BH25-07-S4	BH25-07-S5	TCLP-01	BH25-03-S1	BH25-03-S2	BH25-03-S3
Date Sampled				17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025	18-Mar-2025
Time Sampled				18:30	18:30	18:30	18:30	18:30	17:30	17:30	17:30	17:30	17:30	17:30	10:00	10:00	10:00
ALS Sample ID				WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-004	WT2506041-005	WT2506041-006	WT2506041-007	WT2506041-008	WT2506041-009	WT2506041-010	WT2506041-011	WT2506041-012	WT2506041-013	WT2506041-014
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Polychlorinated Biphenyls (Matrix: Soil/Solid)																	
Aroclor 1016		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1221		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1232		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1242		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1248		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1254		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1260		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1262		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Aroclor 1268		0.010	mg/kg	<0.224	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010
Polychlorinated biphenyls [PCBs], total	0.78(U)	0.030	mg/kg	<0.672	<0.030	<0.030			<0.030	<0.030	<0.030	<0.030			<0.030	<0.030	<0.030
Polychlorinated biphenyls [PCBs], total, TCLP		0.00060	mg/L											<0.00060			
Polychlorinated Biphenyls Surrogates (Matrix: Soil/Solid)																	
Decachlorobiphenyl	0.1	%	N.R	102	97.0				92.6	87.2	105	112			110	109	108
Tetrachloro-m-xylene	0.1	%	N.R	100	97.4				83.4	94.5	89.4	95.0			93.6	91.7	92.6

(L) = Lower Limit
(U) = Upper Limit

Qualifier Legend
DLM
DLQ
EMPC
SRI

Results highlighted in red exceed the guideline

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Physical Tests (Matrix: Soil/Solid)																	
Conductivity (1:2 leachate)	1.4(U)	0.00500	mS/cm	0.180			0.201	0.0984	0.210			0.263	0.112	0.0787			0.0785
Moisture		0.25	%	20.9			20.7	17.4	31.7			19.6	19.7	23.7			20.9
pH (1:2 soil:CaCl2-aq)		0.10	pH units	7.34			6.28	7.02	7.55			6.95	6.43	6.51			6.31
Cyanides (Matrix: Soil/Solid)																	
Cyanide, weak acid dissociable	0.051(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Fixed-Ratio Extractables (Matrix: Soil/Solid)																	
Calcium, soluble ion content		0.50	mg/L	11.8			4.34	2.32	14.8			16.1	2.43	1.83			1.40
Magnesium, soluble ion content		0.50	mg/L	9.72			0.71	1.27	8.18			1.11	0.61	1.16			0.82
Sodium, soluble ion content		0.50	mg/L	12.5			25.8	3.97	9.67			19.2	6.56	1.33			4.26
Sodium adsorption ratio [SAR]	12(U)	0.10	-	0.65			3.03	0.52	0.50			1.25	0.97	0.19			0.71
Metals (Matrix: Soil/Solid)																	
Antimony	40(U)	0.10	mg/kg	<0.10			<0.10	<0.10	<0.10			0.17	<0.10	<0.10			<0.10
Arsenic	18(U)	0.10	mg/kg	1.65			1.05	0.71	2.15			2.01	0.80	0.82			1.00
Barium	670(U)	0.50	mg/kg	113			23.0	10.8	153			18.2	13.0	16.9			11.5
Beryllium	8(U)	0.10	mg/kg	0.39			0.16	<0.10	0.52			0.16	<0.10	0.11			<0.10
Boron	120(U)	5.0	mg/kg	5.6			<5.0	<5.0	7.2			<5.0	<5.0	<5.0			<5.0
Boron, hot water soluble	2(U)	0.10	mg/kg	0.11			0.18	<0.10	<0.10			<0.10	<0.10	<0.10			0.11
Cadmium	1.9(U)	0.020	mg/kg	0.075			0.023	<0.020	0.069			0.088	0.033	0.021			0.023
Chromium	160(U)	0.50	mg/kg	56.8			17.7	12.6	82.9			18.8	11.5	18.9			12.3
Cobalt	80(U)	0.10	mg/kg	8.65			4.35	2.64	12.1			2.79	2.71	3.95			3.05
Copper	230(U)	0.50	mg/kg	17.9			4.61	2.61	24.2			34.1	7.81	3.64			3.35
Lead	120(U)	0.50	mg/kg	4.09			1.59	0.94	5.02			4.05	1.58	1.34			1.13
Mercury	0.27(U)	0.0050	mg/kg	<0.0050			0.0114	<0.0050	0.0050			0.0072	<0.0050	<0.0050			<0.0050
Molybdenum	40(U)	0.10	mg/kg	0.41			0.17	0.12	0.54			0.28	0.11	<0.10			0.12
Nickel	270(U)	0.50	mg/kg	28.2			10.4	6.78	42.0			8.69	6.98	9.96			7.66
Selenium	5.5(U)	0.20	mg/kg	<0.20			<0.20	<0.20	<0.20			<0.20	<0.20	<0.20			<0.20
Silver	40(U)	0.10	mg/kg	<0.10			<0.10	<0.10	<0.10			<0.10	<0.10	<0.10			<0.10

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Thallium	3.3(U)	0.050	mg/kg	0.127			<0.050	<0.050	0.178			<0.050	<0.050	<0.050			<0.050
Uranium	33(U)	0.050	mg/kg	0.909			0.234	0.224	1.16			0.286	0.316	0.344			0.246
Vanadium	86(U)	0.20	mg/kg	37.7			14.0	9.30	51.6			15.1	8.87	14.7			9.30
Zinc	340(U)	2.0	mg/kg	41.9			21.0	11.5	52.7			33.4	20.9	14.9			11.0
Speciated Metals (Matrix: Soil/Solid)																	
Chromium, hexavalent [Cr VI]	8(U)	0.10	mg/kg	<0.10			<0.10	0.20	<0.10			0.67	0.28	0.15			0.18
TCLP Anions & Nutrients (Matrix: Soil/Solid)																	
Nitrate + Nitrite (as N), TCLP		7.50	mg/L														
TCLP Extractables (Matrix: Soil/Solid)																	
Acenaphthene, TCLP		0.0050	mg/L														
Acenaphthylene, TCLP		0.0050	mg/L														
Acridine, TCLP		0.0050	mg/L														
Anthracene, TCLP		0.0050	mg/L														
Aroclor 1016, TCLP		0.00020	mg/L														
Aroclor 1221, TCLP		0.00020	mg/L														
Aroclor 1232, TCLP		0.00020	mg/L														
Aroclor 1242, TCLP		0.00020	mg/L														
Aroclor 1248, TCLP		0.00020	mg/L														
Aroclor 1254, TCLP		0.00020	mg/L														
Aroclor 1260, TCLP		0.00020	mg/L														
Aroclor 1262, TCLP		0.00020	mg/L														
Aroclor 1268, TCLP		0.00020	mg/L														
Benz(a)anthracene, TCLP		0.0050	mg/L														
Benzo(a)pyrene, TCLP		0.00020	mg/L														
Benzo(b+j)fluoranthene, TCLP		0.0050	mg/L														
Benzo(g,h,i)perylene, TCLP		0.0050	mg/L														
Benzo(k)fluoranthene, TCLP		0.0050	mg/L														
Chrysene, TCLP		0.0050	mg/L														
Dibenz(a,h)anthracene, TCLP		0.0050	mg/L														
Fluoranthene, TCLP		0.0050	mg/L														
Fluorene, TCLP		0.0050	mg/L														
Indeno(1,2,3-cd)pyrene, TCLP		0.0050	mg/L														
Naphthalene, TCLP		0.0050	mg/L														
Phenanthrene, TCLP		0.0050	mg/L														
Pyrene, TCLP		0.0050	mg/L														
Cyanide, weak acid dissociable, TCLP		0.10	mg/L														

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project H/368027 (NB RIP TRACK)
Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
Issue Date 16-Jun-2025 16:02
Amendment 1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Fluoride, TCLP		10	mg/L														
Nitrate (as N), TCLP		5.0	mg/L														
Nitrite (as N), TCLP		5.0	mg/L														
Decachlorobiphenyl, TCLP		0.1	%														
Tetrachloro-m-xylene, TCLP		0.1	%														
TCLP Extractables Surrogates (Matrix: Soil/Solid)																	
Chrysene-d12, TCLP		5.0	%														
Naphthalene-d8, TCLP		5.0	%														
Phenanthrene-d10, TCLP		5.0	%														
TCLP Metals (Matrix: Soil/Solid)																	
pH, TCLP 1st preliminary		0.010	pH units														
pH, TCLP 2nd preliminary		0.010	pH units														
pH, TCLP extraction fluid initial		0.010	pH units														
pH, TCLP final		0.010	pH units														
Mercury, TCLP		0.0010	mg/L														
Arsenic, TCLP		1.0	mg/L														
Barium, TCLP		2.5	mg/L														
Boron, TCLP		0.50	mg/L														
Cadmium, TCLP		0.050	mg/L														
Chromium, TCLP		0.25	mg/L														
Lead, TCLP		0.25	mg/L														
Selenium, TCLP		0.10	mg/L														
Silver, TCLP		0.050	mg/L														
Uranium, TCLP		0.20	mg/L														
TCLP VOCs (Matrix: Soil/Solid)																	
Benzene, TCLP		0.0050	mg/L														
Carbon tetrachloride, TCLP		0.025	mg/L														
Chlorobenzene, TCLP		0.025	mg/L														
Chloroform, TCLP		0.10	mg/L														
Dichlorobenzene, 1,2-, TCLP		0.025	mg/L														
Dichlorobenzene, 1,4-, TCLP		0.025	mg/L														
Dichloroethane, 1,2-, TCLP		0.025	mg/L														
Dichloroethylene, 1,1-, TCLP		0.025	mg/L														
Dichloromethane, TCLP		0.10	mg/L														
Methyl ethyl ketone [MEK], TCLP		0.10	mg/L														
Tetrachloroethylene, TCLP		0.025	mg/L														
Trichloroethylene, TCLP		0.025	mg/L														
Vinyl chloride, TCLP		0.050	mg/L														

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
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Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
TCLP VOCs Surrogates (Matrix: Soil/Solid)																	
Bromofluorobenzene, 4-, TCLP		1.0	%														
Difluorobenzene, 1,4-, TCLP		1.0	%														
Volatile Organic Compounds (Matrix: Soil/Solid)																	
Acetone	1.8(U)	0.50	mg/kg	<0.50			<0.50	<0.50	<0.50			<0.50	<0.50	<0.50			<0.50
Benzene	0.034(U)	0.0050	mg/kg	<0.0050			<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			<0.0050
Bromodichloromethane	5.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Bromoform	2.5(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Bromomethane	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Carbon tetrachloride	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Chlorobenzene	0.28(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Chloroform	0.26(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dibromochloromethane	5.5(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dibromoethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichlorobenzene, 1,2-	6.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichlorobenzene, 1,3-	6.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichlorobenzene, 1,4-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichlorodifluoromethane	1.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloroethane, 1,1-	0.57(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloroethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloroethylene, 1,1-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloroethylene, cis-1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloroethylene, trans-1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloromethane	0.2(U)	0.045	mg/kg	<0.045			<0.045	<0.045	<0.045			<0.045	<0.045	<0.045			<0.045
Dichloropropane, 1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloropropylene, cis+trans-1,3-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dichloropropylene, cis-1,3-		0.030	mg/kg	<0.030			<0.030	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Dichloropropylene, trans-1,3-		0.030	mg/kg	<0.030			<0.030	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Ethylbenzene	1.9(U)	0.015	mg/kg	<0.015			<0.015	<0.015	<0.015			<0.015	<0.015	<0.015			<0.015

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Hexane, n-	2.5(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Methyl ethyl ketone [MEK]	26(U)	0.50	mg/kg	<0.50			<0.50	<0.50	<0.50			<0.50	<0.50	<0.50			<0.50
Methyl isobutyl ketone [MIBK]	17(U)	0.50	mg/kg	<0.50			<0.50	<0.50	<0.50			<0.50	<0.50	<0.50			<0.50
Methyl-tert-butyl ether [MTBE]	0.05(U)	0.040	mg/kg	<0.040			<0.040	<0.040	<0.040			<0.040	<0.040	<0.040			<0.040
Styrene	6.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Tetrachloroethane, 1,1,1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Tetrachloroethane, 1,1,2,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Tetrachloroethylene	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Toluene	7.8(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Trichloroethane, 1,1,1-	0.4(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Trichloroethane, 1,1,2-	0.05(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Trichloroethylene	0.05(U)	0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Trichlorofluoromethane	0.46(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Vinyl chloride	0.02(U)	0.020	mg/kg	<0.020			<0.020	<0.020	<0.020			<0.020	<0.020	<0.020			<0.020
Xylene, m+p-		0.030	mg/kg	<0.030			<0.030	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Xylene, o-		0.030	mg/kg	<0.030			<0.030	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Xylenes, total	3(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
BTEX, total		0.10	mg/kg	<0.10			<0.10	<0.10	<0.10			<0.10	<0.10	<0.10			<0.10
Hydrocarbons (Matrix: Soil/Solid)																	
F1 (C6-C10)	25(U)	5.0	mg/kg	<5.0			8.2	<5.0	<5.0			<5.0	<5.0	<5.0			<5.0
F2-Naphthalene		25	mg/kg	<25			726	<25	<25			<25	<25	<25			<25
F3-PAH		50	mg/kg	<50			220	<50	<50			<50	<50	<50			<50
F1-BTEX	25(U)	5.0	mg/kg	<5.0			8.2	<5.0	<5.0			<5.0	<5.0	<5.0			<5.0
F2 (C10-C16)	26(U)	10	mg/kg	<10			726	<10	<10			<10	<10	<10			<10
F3 (C16-C34)	1700(U)	50	mg/kg	<50			220	<50	<50			<50	<50	<50			<50
F4 (C34-C50)	3300(U)	50	mg/kg	<50			<50	<50	<50			<50	<50	<50			<50
Hydrocarbons, total (C6-C50)		80	mg/kg	<80			954	<80	<80			<80	<80	<80			<80
Chromatogram to baseline at nC50			-	YES			YES	YES	YES			YES	YES	YES			YES
Hydrocarbons Surrogates (Matrix: Soil/Solid)																	
Bromobenzotrifluoride, 2- (F2-F4 surrogate)		1.0	%	94.7			100	94.6	95.4			93.8	97.1	95.1			95.1

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

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Report To Owen Salvucci, Hatch Ltd.
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Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
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Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Dichlorotoluene, 3,4-		1.0	%	96.0			81.0	94.3	68.8			91.6	97.9	79.8			87.7
Volatile Organic Compounds Surrogates (Matrix: Soil/Solid)																	
Bromofluorobenzene, 4-		0.10	%	87.4			99.5	92.5	88.0			85.3	90.5	91.8			88.1
Difluorobenzene, 1,4-		0.10	%	99.1			107	99.6	97.6			93.7	101	103			102
Polycyclic Aromatic Hydrocarbons (Matrix: Soil/Solid)																	
Acenaphthene	15(U)	0.050	mg/kg	<0.050			<0.190	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Acenaphthylene	0.093(U)	0.050	mg/kg	<0.050			0.095	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Anthracene	0.16(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Benz(a)anthracene	1(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Benzo(a)pyrene	0.7(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Benzo(b+j)fluoranthene	7(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Benzo(g,h,i)perylene	13(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Benzo(k)fluoranthene	7(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Chrysene	14(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Dibenz(a,h)anthracene	0.7(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Fluoranthene	70(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Fluorene	6.8(U)	0.050	mg/kg	<0.050			0.423	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Indeno(1,2,3-c,d)pyrene	0.76(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Methylnaphthalene, 1+2-	8.7(U)	0.050	mg/kg	<0.050			6.69	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Methylnaphthalene, 1-	8.7(U)	0.030	mg/kg	<0.030			5.69	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Methylnaphthalene, 2-	8.7(U)	0.030	mg/kg	<0.030			1.00	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Naphthalene	1.8(U)	0.010	mg/kg	<0.010			<0.401	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Phenanthrene	12(U)	0.050	mg/kg	<0.050			0.426	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Pyrene	70(U)	0.050	mg/kg	<0.050			<0.050	<0.050	<0.050			<0.050	<0.050	<0.050			<0.050
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Soil/Solid)																	
Acridine-d9		0.1	%	87.0			88.4	83.1	81.1			82.8	87.3	82.3			79.4
Chrysene-d12		0.1	%	89.6			92.3	91.1	84.5			88.2	91.0	85.7			87.7
Naphthalene-d8		0.1	%	97.2			94.2	97.2	91.5			93.7	97.6	91.8			91.5
Phenanthrene-d10		0.1	%	89.0			88.3	86.8	82.9			86.1	88.6	85.8			82.8

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project H/368027 (NB RIP TRACK)
Report To Owen Salvucci, Hatch Ltd.
Date Received 24-Mar-2025 11:30
Issue Date 16-Jun-2025 16:02
Amendment 1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-03-S4	BH25-03-S5	BH25-03-S6	BH25-04-S1	BH25-04-S2	BH25-04-S3	BH25-04-S4	BH25-04-S5	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-08-S4	BH25-08-S5	BH25-09-S1
Date Sampled				18-Mar-2025	18-Mar-2025	18-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	17-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				10:00	10:00	10:00	13:00	13:00	13:00	13:00	13:00	17:00	17:00	17:00	17:00	17:00	11:00
ALS Sample ID				WT2506041-015	WT2506041-016	WT2506041-017	WT2506041-018	WT2506041-019	WT2506041-020	WT2506041-021	WT2506041-022	WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-026	WT2506041-027	WT2506041-028
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Polychlorinated Biphenyls (Matrix: Soil/Solid)																	
Aroclor 1016		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1221		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1232		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1242		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1248		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1254		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1260		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1262		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Aroclor 1268		0.010	mg/kg	<0.010			<0.010	<0.010	<0.010			<0.010	<0.010	<0.010			<0.010
Polychlorinated biphenyls [PCBs], total	0.78(U)	0.030	mg/kg	<0.030			<0.030	<0.030	<0.030			<0.030	<0.030	<0.030			<0.030
Polychlorinated biphenyls [PCBs], total, TCLP		0.00060	mg/L														
Polychlorinated Biphenyls Surrogates (Matrix: Soil/Solid)																	
Decachlorobiphenyl	0.1	%		109			87.1	106	110			99.6	101	92.8			89.4
Tetrachloro-m-xylene	0.1	%		90.4			81.4	87.8	91.5			97.5	84.2	90.5			85.2

(L) = Lower Limit
(U) = Upper Limit

Qualifier Legend
DLM
DLQ
EMPC
SRI

Results highlighted in red exceed the guideline

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Physical Tests (Matrix: Soil/Solid)							
Conductivity (1:2 leachate)	1.4(U)	0.00500	mS/cm	0.0827	0.0867		
Moisture		0.25	%	10.4	10.3		
pH (1:2 soil:CaCl2-aq)		0.10	pH units	7.51	7.58		
Cyanides (Matrix: Soil/Solid)							
Cyanide, weak acid dissociable	0.051(U)	0.050	mg/kg	<0.050	<0.050		
Fixed-Ratio Extractables (Matrix: Soil/Solid)							
Calcium, soluble ion content		0.50	mg/L	2.45	4.88		
Magnesium, soluble ion content		0.50	mg/L	0.62	7.28		
Sodium, soluble ion content		0.50	mg/L	1.73	4.47		
Sodium adsorption ratio [SAR]	12(U)	0.10	-	0.26	0.30		
Metals (Matrix: Soil/Solid)							
Antimony	40(U)	0.10	mg/kg	<0.10	<0.10		
Arsenic	18(U)	0.10	mg/kg	0.82	0.83		
Barium	670(U)	0.50	mg/kg	40.2	53.5		
Beryllium	8(U)	0.10	mg/kg	0.22	0.24		
Boron	120(U)	5.0	mg/kg	<5.0	<5.0		
Boron, hot water soluble	2(U)	0.10	mg/kg	<0.10	<0.10		
Cadmium	1.9(U)	0.020	mg/kg	0.023	0.023		
Chromium	160(U)	0.50	mg/kg	14.5	17.6		
Cobalt	80(U)	0.10	mg/kg	2.64	3.34		
Copper	230(U)	0.50	mg/kg	4.91	8.16		
Lead	120(U)	0.50	mg/kg	1.26	1.54		
Mercury	0.27(U)	0.0050	mg/kg	<0.0050	<0.0050		
Molybdenum	40(U)	0.10	mg/kg	0.25	0.31		
Nickel	270(U)	0.50	mg/kg	6.34	7.75		
Selenium	5.5(U)	0.20	mg/kg	<0.20	<0.20		
Silver	40(U)	0.10	mg/kg	<0.10	<0.10		

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Thallium	3.3(U)	0.050	mg/kg	<0.050	0.070		
Uranium	33(U)	0.050	mg/kg	0.610	0.614		
Vanadium	86(U)	0.20	mg/kg	14.5	17.3		
Zinc	340(U)	2.0	mg/kg	15.9	20.3		
Speciated Metals (Matrix: Soil/Solid)							
Chromium, hexavalent [Cr VI]	8(U)	0.10	mg/kg	<0.10	<0.10		
TCLP Anions & Nutrients (Matrix: Soil/Solid)							
Nitrate + Nitrite (as N), TCLP		7.50	mg/L				
TCLP Extractables (Matrix: Soil/Solid)							
Acenaphthene, TCLP		0.0050	mg/L				
Acenaphthylene, TCLP		0.0050	mg/L				
Acridine, TCLP		0.0050	mg/L				
Anthracene, TCLP		0.0050	mg/L				
Aroclor 1016, TCLP		0.00020	mg/L				
Aroclor 1221, TCLP		0.00020	mg/L				
Aroclor 1232, TCLP		0.00020	mg/L				
Aroclor 1242, TCLP		0.00020	mg/L				
Aroclor 1248, TCLP		0.00020	mg/L				
Aroclor 1254, TCLP		0.00020	mg/L				
Aroclor 1260, TCLP		0.00020	mg/L				
Aroclor 1262, TCLP		0.00020	mg/L				
Aroclor 1268, TCLP		0.00020	mg/L				
Benz(a)anthracene, TCLP		0.0050	mg/L				
Benzo(a)pyrene, TCLP		0.00020	mg/L				
Benzo(b+j)fluoranthene, TCLP		0.0050	mg/L				
Benzo(g,h,i)perylene, TCLP		0.0050	mg/L				
Benzo(k)fluoranthene, TCLP		0.0050	mg/L				
Chrysene, TCLP		0.0050	mg/L				
Dibenz(a,h)anthracene, TCLP		0.0050	mg/L				
Fluoranthene, TCLP		0.0050	mg/L				
Fluorene, TCLP		0.0050	mg/L				
Indeno(1,2,3-cd)pyrene, TCLP		0.0050	mg/L				
Naphthalene, TCLP		0.0050	mg/L				
Phenanthrene, TCLP		0.0050	mg/L				
Pyrene, TCLP		0.0050	mg/L				
Cyanide, weak acid dissociable, TCLP		0.10	mg/L				

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Fluoride, TCLP		10	mg/L				
Nitrate (as N), TCLP		5.0	mg/L				
Nitrite (as N), TCLP		5.0	mg/L				
Decachlorobiphenyl, TCLP		0.1	%				
Tetrachloro-m-xylene, TCLP		0.1	%				
TCLP Extractables Surrogates (Matrix: Soil/Solid)							
Chrysene-d12, TCLP		5.0	%				
Naphthalene-d8, TCLP		5.0	%				
Phenanthrene-d10, TCLP		5.0	%				
TCLP Metals (Matrix: Soil/Solid)							
pH, TCLP 1st preliminary		0.010	pH units				
pH, TCLP 2nd preliminary		0.010	pH units				
pH, TCLP extraction fluid initial		0.010	pH units				
pH, TCLP final		0.010	pH units				
Mercury, TCLP		0.0010	mg/L				
Arsenic, TCLP		1.0	mg/L				
Barium, TCLP		2.5	mg/L				
Boron, TCLP		0.50	mg/L				
Cadmium, TCLP		0.050	mg/L				
Chromium, TCLP		0.25	mg/L				
Lead, TCLP		0.25	mg/L				
Selenium, TCLP		0.10	mg/L				
Silver, TCLP		0.050	mg/L				
Uranium, TCLP		0.20	mg/L				
TCLP VOCs (Matrix: Soil/Solid)							
Benzene, TCLP		0.0050	mg/L				
Carbon tetrachloride, TCLP		0.025	mg/L				
Chlorobenzene, TCLP		0.025	mg/L				
Chloroform, TCLP		0.10	mg/L				
Dichlorobenzene, 1,2-, TCLP		0.025	mg/L				
Dichlorobenzene, 1,4-, TCLP		0.025	mg/L				
Dichloroethane, 1,2-, TCLP		0.025	mg/L				
Dichloroethylene, 1,1-, TCLP		0.025	mg/L				
Dichloromethane, TCLP		0.10	mg/L				
Methyl ethyl ketone [MEK], TCLP		0.10	mg/L				
Tetrachloroethylene, TCLP		0.025	mg/L				
Trichloroethylene, TCLP		0.025	mg/L				
Vinyl chloride, TCLP		0.050	mg/L				

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
TCLP VOCs Surrogates (Matrix: Soil/Solid)							
Bromofluorobenzene, 4-, TCLP		1.0	%				
Difluorobenzene, 1,4-, TCLP		1.0	%				
Volatile Organic Compounds (Matrix: Soil/Solid)							
Acetone	1.8(U)	0.50	mg/kg	<0.50	<0.50		
Benzene	0.034(U)	0.0050	mg/kg	<0.0050	<0.0050		
Bromodichloromethane	5.8(U)	0.050	mg/kg	<0.050	<0.050		
Bromoform	2.5(U)	0.050	mg/kg	<0.050	<0.050		
Bromomethane	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Carbon tetrachloride	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Chlorobenzene	0.28(U)	0.050	mg/kg	<0.050	<0.050		
Chloroform	0.26(U)	0.050	mg/kg	<0.050	<0.050		
Dibromochloromethane	5.5(U)	0.050	mg/kg	<0.050	<0.050		
Dibromoethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichlorobenzene, 1,2-	6.8(U)	0.050	mg/kg	<0.050	<0.050		
Dichlorobenzene, 1,3-	6.8(U)	0.050	mg/kg	<0.050	<0.050		
Dichlorobenzene, 1,4-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichlorodifluoromethane	1.8(U)	0.050	mg/kg	<0.050	<0.050		
Dichloroethane, 1,1-	0.57(U)	0.050	mg/kg	<0.050	<0.050		
Dichloroethane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloroethylene, 1,1-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloroethylene, cis-1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloroethylene, trans-1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloromethane	0.2(U)	0.045	mg/kg	<0.045	<0.045		
Dichloropropane, 1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloropropylene, cis+trans-1,3-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Dichloropropylene, cis-1,3-		0.030	mg/kg	<0.030	<0.030		
Dichloropropylene, trans-1,3-		0.030	mg/kg	<0.030	<0.030		
Ethylbenzene	1.9(U)	0.015	mg/kg	<0.015	<0.015		

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Hexane, n-	2.5(U)	0.050	mg/kg	<0.050	<0.050		
Methyl ethyl ketone [MEK]	26(U)	0.50	mg/kg	<0.50	<0.50		
Methyl isobutyl ketone [MIBK]	17(U)	0.50	mg/kg	<0.50	<0.50		
Methyl-tert-butyl ether [MTBE]	0.05(U)	0.040	mg/kg	<0.040	<0.040		
Styrene	6.8(U)	0.050	mg/kg	<0.050	<0.050		
Tetrachloroethane, 1,1,1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Tetrachloroethane, 1,1,2,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Tetrachloroethylene	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Toluene	7.8(U)	0.050	mg/kg	<0.050	<0.050		
Trichloroethane, 1,1,1-	0.4(U)	0.050	mg/kg	<0.050	<0.050		
Trichloroethane, 1,1,2-	0.05(U)	0.050	mg/kg	<0.050	<0.050		
Trichloroethylene	0.05(U)	0.010	mg/kg	<0.010	<0.010		
Trichlorofluoromethane	0.46(U)	0.050	mg/kg	<0.050	<0.050		
Vinyl chloride	0.02(U)	0.020	mg/kg	<0.020	<0.020		
Xylene, m+p-		0.030	mg/kg	<0.030	<0.030		
Xylene, o-		0.030	mg/kg	<0.030	<0.030		
Xylenes, total	3(U)	0.050	mg/kg	<0.050	<0.050		
BTEX, total		0.10	mg/kg	<0.10	<0.10		
Hydrocarbons (Matrix: Soil/Solid)							
F1 (C6-C10)	25(U)	5.0	mg/kg	<5.0	<5.0		
F2-Naphthalene		25	mg/kg	<25	<25		
F3-PAH		50	mg/kg	<50	<50		
F1-BTEX	25(U)	5.0	mg/kg	<5.0	<5.0		
F2 (C10-C16)	26(U)	10	mg/kg	<10	<10		
F3 (C16-C34)	1700(U)	50	mg/kg	<50	<50		
F4 (C34-C50)	3300(U)	50	mg/kg	<50	<50		
Hydrocarbons, total (C6-C50)		80	mg/kg	<80	<80		
Chromatogram to baseline at nC50			-	YES	YES		
Hydrocarbons Surrogates (Matrix: Soil/Solid)							
Bromobenzotrifluoride, 2- (F2-F4 surrogate)		1.0	%	92.6	95.9		

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Dichlorotoluene, 3,4-		1.0	%	108	97.0		
Volatile Organic Compounds Surrogates (Matrix: Soil/Solid)							
Bromofluorobenzene, 4-		0.10	%	94.9	94.0		
Difluorobenzene, 1,4-		0.10	%	107	107		
Polycyclic Aromatic Hydrocarbons (Matrix: Soil/Solid)							
Acenaphthene	15(U)	0.050	mg/kg	<0.050	<0.050		
Acenaphthylene	0.093(U)	0.050	mg/kg	<0.050	<0.050		
Anthracene	0.16(U)	0.050	mg/kg	<0.050	<0.050		
Benz(a)anthracene	1(U)	0.050	mg/kg	<0.050	<0.050		
Benzo(a)pyrene	0.7(U)	0.050	mg/kg	<0.050	<0.050		
Benzo(b+j)fluoranthene	7(U)	0.050	mg/kg	<0.050	<0.050		
Benzo(g,h,i)perylene	13(U)	0.050	mg/kg	<0.050	<0.050		
Benzo(k)fluoranthene	7(U)	0.050	mg/kg	<0.050	<0.050		
Chrysene	14(U)	0.050	mg/kg	<0.050	<0.050		
Dibenz(a,h)anthracene	0.7(U)	0.050	mg/kg	<0.050	<0.050		
Fluoranthene	70(U)	0.050	mg/kg	<0.050	<0.050		
Fluorene	6.8(U)	0.050	mg/kg	<0.050	<0.050		
Indeno(1,2,3-c,d)pyrene	0.76(U)	0.050	mg/kg	<0.050	<0.050		
Methylnaphthalene, 1+2-	8.7(U)	0.050	mg/kg	<0.050	<0.050		
Methylnaphthalene, 1-	8.7(U)	0.030	mg/kg	<0.030	<0.030		
Methylnaphthalene, 2-	8.7(U)	0.030	mg/kg	<0.030	<0.030		
Naphthalene	1.8(U)	0.010	mg/kg	<0.010	<0.010		
Phenanthrene	12(U)	0.050	mg/kg	<0.050	<0.050		
Pyrene	70(U)	0.050	mg/kg	<0.050	<0.050		
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Soil/Solid)							
Acridine-d9		0.1	%	79.9	85.7		
Chrysene-d12		0.1	%	89.5	94.9		
Naphthalene-d8		0.1	%	94.2	97.5		
Phenanthrene-d10		0.1	%	86.6	89.7		

Table A2: Analytical Results Comparison to ESQS Table 3.1 (ICC)

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario Regulation 406/19 - Excess Soils (E

Client Sample ID				BH25-09-S2	BH25-09-S3	BH25-09-S4	BH25-09-S5
Date Sampled				19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				11:00	11:00	11:00	11:00
ALS Sample ID				WT2506041-029	WT2506041-030	WT2506041-031	WT2506041-032
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil	Sub-Matrix: Soil
Polychlorinated Biphenyls (Matrix: Soil/Solid)							
Aroclor 1016		0.010	mg/kg	<0.010	<0.010		
Aroclor 1221		0.010	mg/kg	<0.010	<0.010		
Aroclor 1232		0.010	mg/kg	<0.010	<0.010		
Aroclor 1242		0.010	mg/kg	<0.010	<0.010		
Aroclor 1248		0.010	mg/kg	<0.010	<0.010		
Aroclor 1254		0.010	mg/kg	<0.010	<0.010		
Aroclor 1260		0.010	mg/kg	<0.010	<0.010		
Aroclor 1262		0.010	mg/kg	<0.010	<0.010		
Aroclor 1268		0.010	mg/kg	<0.010	<0.010		
Polychlorinated biphenyls [PCBs], total	0.78(U)	0.030	mg/kg	<0.030	<0.030		
Polychlorinated biphenyls [PCBs], total, TCLP		0.00060	mg/L				
Polychlorinated Biphenyls Surrogates (Matrix: Soil/Solid)							
Decachlorobiphenyl	0.1	%		91.0	85.8		
Tetrachloro-m-xylene	0.1	%		85.1	89.8		

(L) = Lower Limit
(U) = Upper Limit

Qualifier Legend
DLM
DLQ
EMPC
SRI

Results highlighted in red exceed the guideline

Table A3: Analytical Results (TCLP) Comparison to O. Reg. 347 Schedule 4 Leachate Quality Criteria

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario MECP, General Waste Control Regulation No. 347/90,558/00 - Schedule 4 Leac

Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil
Client Sample ID				TCLP-01
Date Sampled				18-Mar-2025
Time Sampled				17:30
ALS Sample ID				WT2506041-011
TCLP Anions & Nutrients (Matrix: Soil/Solid)				
Nitrate + Nitrite (as N), TCLP	1000(U)	7.50	mg/L	<7.50
TCLP Extractables (Matrix: Soil/Solid)				
Acenaphthene, TCLP		0.0050	mg/L	<0.0050
Acenaphthylene, TCLP		0.0050	mg/L	<0.0050
Acridine, TCLP		0.0050	mg/L	<0.0050
Anthracene, TCLP		0.0050	mg/L	<0.0050
Aroclor 1016, TCLP		0.00020	mg/L	<0.00020
Aroclor 1221, TCLP		0.00020	mg/L	<0.00020
Aroclor 1232, TCLP		0.00020	mg/L	<0.00020
Aroclor 1242, TCLP		0.00020	mg/L	<0.00020
Aroclor 1248, TCLP		0.00020	mg/L	<0.00020
Aroclor 1254, TCLP		0.00020	mg/L	<0.00020
Aroclor 1260, TCLP		0.00020	mg/L	<0.00020
Aroclor 1262, TCLP		0.00020	mg/L	<0.00020
Aroclor 1268, TCLP		0.00020	mg/L	<0.00020
Benz(a)anthracene, TCLP		0.0050	mg/L	<0.0050
Benzo(a)pyrene, TCLP	0.001(U)	0.00020	mg/L	<0.00020
Benzo(b+j)fluoranthene, TCLP		0.0050	mg/L	<0.0050
Benzo(g,h,i)perylene, TCLP		0.0050	mg/L	<0.0050
Benzo(k)fluoranthene, TCLP		0.0050	mg/L	<0.0050
Chrysene, TCLP		0.0050	mg/L	<0.0050
Dibenz(a,h)anthracene, TCLP		0.0050	mg/L	<0.0050
Fluoranthene, TCLP		0.0050	mg/L	<0.0050
Fluorene, TCLP		0.0050	mg/L	<0.0050
Indeno(1,2,3-cd)pyrene, TCLP		0.0050	mg/L	<0.0050
Naphthalene, TCLP		0.0050	mg/L	<0.0050
Phenanthrene, TCLP		0.0050	mg/L	<0.0050
Pyrene, TCLP		0.0050	mg/L	<0.0050
Cyanide, weak acid dissociable, TCLP		0.10	mg/L	<0.10
Fluoride, TCLP	150(U)	10	mg/L	<10
Nitrate (as N), TCLP		5.0	mg/L	<5.0
Nitrite (as N), TCLP		5.0	mg/L	<5.0
Decachlorobiphenyl, TCLP		0.1	%	92.7
Tetrachloro-m-xylene, TCLP		0.1	%	97.5
TCLP Extractables Surrogates (Matrix: Soil/Solid)				
Chrysene-d12, TCLP		5.0	%	85.5
Naphthalene-d8, TCLP		5.0	%	117
Phenanthrene-d10, TCLP		5.0	%	114
TCLP Metals (Matrix: Soil/Solid)				
pH, TCLP 1st preliminary		0.010	pH units	10.71
pH, TCLP 2nd preliminary		0.010	pH units	1.80
pH, TCLP extraction fluid initial		0.010	pH units	4.88
pH, TCLP final		0.010	pH units	5.12
Mercury, TCLP	0.1(U)	0.0010	mg/L	<0.0010
Arsenic, TCLP	2.5(U)	1.0	mg/L	<1.0
Barium, TCLP	100(U)	2.5	mg/L	<2.5
Boron, TCLP	500(U)	0.50	mg/L	<0.50
Cadmium, TCLP	0.5(U)	0.050	mg/L	<0.050
Chromium, TCLP	5(U)	0.25	mg/L	<0.25
Lead, TCLP	5(U)	0.25	mg/L	<0.25
Selenium, TCLP	1(U)	0.10	mg/L	<0.10
Silver, TCLP	5(U)	0.050	mg/L	<0.050
Uranium, TCLP	10(U)	0.20	mg/L	<0.20
TCLP VOCs (Matrix: Soil/Solid)				
Benzene, TCLP	0.5(U)	0.0050	mg/L	<0.0050
Carbon tetrachloride, TCLP	0.5(U)	0.025	mg/L	<0.025
Chlorobenzene, TCLP	8(U)	0.025	mg/L	<0.025
Chloroform, TCLP	10(U)	0.10	mg/L	<0.10
Dichlorobenzene, 1,2-, TCLP	20(U)	0.025	mg/L	<0.025
Dichlorobenzene, 1,4-, TCLP	0.5(U)	0.025	mg/L	<0.025
Dichloroethane, 1,2-, TCLP	0.5(U)	0.025	mg/L	<0.025

Table A3: Analytical Results (TCLP) Comparison to O. Reg. 347 Schedule 4 Leachate Quality Criteria

Results Summary WT2506041

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 16:02
Amendment	1

Guideline Category: Ontario MECP, General Waste Control Regulation No. 347/90,558/00 - Schedule 4 Leac

Client Sample ID				TCLP-01
Date Sampled				18-Mar-2025
Time Sampled				17:30
ALS Sample ID				WT2506041-011
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Soil
Dichloroethylene, 1,1-, TCLP	1.4(U)	0.025	mg/L	<0.025
Dichloromethane, TCLP	5(U)	0.10	mg/L	<0.10
Methyl ethyl ketone [MEK], TCLP	200(U)	0.10	mg/L	<0.10
Tetrachloroethylene, TCLP	3(U)	0.025	mg/L	<0.025
Trichloroethylene, TCLP	5(U)	0.025	mg/L	<0.025
Vinyl chloride, TCLP	0.2(U)	0.050	mg/L	<0.050
TCLP VOCs Surrogates (Matrix: Soil/Solid)				
Bromofluorobenzene, 4-, TCLP		1.0	%	99.7
Difluorobenzene, 1,4-, TCLP		1.0	%	98.8

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLM

DLQ

EMPC

SRI

Results highlighted in red exceed the guideline li

Table A4: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Sanitary Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Sanitary Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Physical Tests (Matrix: Water)					
Solids, total suspended [TSS]	350(U)	3.0	mg/L	699	61.3
pH	6 -> 10.5	0.10	pH units	6.83	6.68
Anions and Nutrients (Matrix: Water)					
Ammonia, total (as N)		0.0050	mg/L	1.24	1.41
Fluoride	10(U)	0.020	mg/L	0.116	0.135
Kjeldahl nitrogen, total [TKN]	100(U)	0.050	mg/L	1.90	1.82
Phosphorus, total	10(U)	0.0020	mg/L	0.285	0.0994
Cyanides (Matrix: Water)					
Cyanide, strong acid dissociable (Total)	2(U)	0.0020	mg/L	<0.0020	<0.0020
Inorganics (Matrix: Water)					
Chlorine, total		0.050	mg/L	<0.500	<0.500
Microbiological Tests (Matrix: Water)					
Coliforms, Escherichia coli [E. coli]		1	CFU/100mL	<1	<1
Total Metals (Matrix: Water)					
Aluminum, total	50(U)	0.0030	mg/L	7.56	1.02
Antimony, total	5(U)	0.00010	mg/L	<0.00100	<0.00100
Arsenic, total	1(U)	0.00010	mg/L	0.00346	0.0125
Cadmium, total	0.7(U)	0.0000050	mg/L	0.000418	<0.0000500
Chromium, total	2(U)	0.00050	mg/L	0.0314	0.00776
Cobalt, total	5(U)	0.00010	mg/L	0.00604	0.00522
Copper, total	2(U)	0.00050	mg/L	0.166	<0.00500
Lead, total	1(U)	0.000050	mg/L	0.0220	<0.000500
Manganese, total	5(U)	0.00010	mg/L	0.768	0.826
Mercury, total	0.05(U)	0.0000050	mg/L	0.0000061	<0.0000050
Molybdenum, total	5(U)	0.000050	mg/L	0.00182	0.00226
Nickel, total	2(U)	0.00050	mg/L	0.0160	<0.00500
Selenium, total	1(U)	0.000050	mg/L	<0.000500	<0.000500
Silver, total	5(U)	0.000010	mg/L	0.000607	<0.000100
Tin, total	5(U)	0.00010	mg/L	<0.00100	<0.00100
Titanium, total	5(U)	0.00030	mg/L	0.553	0.0502
Zinc, total	2(U)	0.0030	mg/L	0.173	<0.0300
Speciated Metals (Matrix: Water)					
Chromium, hexavalent [Cr VI], total	2(U)	0.00050	mg/L	<0.00050	<0.00050
Aggregate Organics (Matrix: Water)					
Biochemical oxygen demand [BOD]	300(U)	2.0	mg/L	5.4	6.2

Table A4: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Sanitary Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Sanitary Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Oil & grease (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, animal/vegetable (gravimetric)	150(U)	5.0	mg/L	<5.0	<5.0
Oil & grease, mineral (gravimetric)	50(U)	5.0	mg/L	<5.0	<5.0
Phenols, total (4AAP)	1(U)	0.0010	mg/L	0.0012	<0.0010
Volatile Organic Compounds (Matrix: Water)					
Benzene	10(U)	0.50	µg/L	<0.50	<0.50
Chloroform	40(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,2-	50(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,4-	80(U)	0.50	µg/L	<0.50	<0.50
Dichloroethylene, cis-1,2-	4000(U)	0.50	µg/L	<0.50	<0.50
Dichloromethane	2000(U)	1.0	µg/L	<1.0	<1.0
Dichloropropylene, trans-1,3-	140(U)	0.30	µg/L	<0.30	<0.30
Ethylbenzene	160(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	1400(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethylene	1000(U)	0.50	µg/L	<0.50	<0.50
Toluene	16(U)	0.50	µg/L	<0.50	<0.50
Trichloroethylene	400(U)	0.50	µg/L	<0.50	<0.50
Xylene, m+p-		0.40	µg/L	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30
Xylenes, total	200(U)	0.50	µg/L	<0.50	<0.50
Volatile Organic Compounds Surrogates (Matrix: Water)					
Bromofluorobenzene, 4-		1.0	%	98.1	99.6
Difluorobenzene, 1,4-		1.0	%	98.9	98.2
Polycyclic Aromatic Hydrocarbons (Matrix: Water)					
Anthracene		0.000010	mg/L	<0.000010	<0.000010
Benz(a)anthracene		0.000010	mg/L	0.000015	<0.000010
Benzo(a)pyrene		0.0000050	mg/L	0.0000128	<0.0000050
Benzo(b+j)fluoranthene		0.000010	mg/L	0.000025	<0.000010
Benzo(e)pyrene		0.000010	mg/L	0.000016	<0.000010
Benzo(g,h,i)perylene		0.000010	mg/L	0.000012	<0.000010
Benzo(k)fluoranthene		0.000010	mg/L	0.000010	<0.000010
Chrysene		0.000010	mg/L	0.000021	<0.000010
Dibenz(a,h)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenz(a,h)anthracene		0.0000050	mg/L	<0.0000050	<0.0000050
Dibenz(a,j)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(a,i)pyrene		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(c,g)carbazole, 7H-		0.000050	mg/L	<0.000050	<0.000050
Dinitropyrene, 1,3-		0.0010	mg/L	<0.0010	<0.0010
Dinitropyrene, 1,6-		0.0010	mg/L	<0.0010	<0.0010

Table A4: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Sanitary Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Sanitary Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Dinitropyrene, 1,8-		0.0010	mg/L	<0.0010	<0.0010
Fluoranthene		0.000010	mg/L	0.000056	<0.000010
Indeno(1,2,3-c,d)pyrene		0.000010	mg/L	0.000012	<0.000010
Methylcholanthrene, 3-		0.000050	mg/L	<0.000050	<0.000050
Perylene		0.000010	mg/L	0.000043	0.000015
Phenanthrene		0.000010	mg/L	0.000035	<0.000010
Pyrene		0.000010	mg/L	0.000049	<0.000010
PAHs, total (ON Sewer Use)	0.005(U)	0.00175	mg/L	<0.00175	<0.00175
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)					
Chrysene-d12		0.1	%	114	115
Naphthalene-d8		0.1	%	98.8	96.5
Phenanthrene-d10		0.1	%	106	104
Terphenyl-d14, p-		0.1	%	100	121
Phthalate Esters (Matrix: Water)					
Di-n-butyl phthalate	80(U)	1.0	µg/L	<1.0	<1.0
bis(2-Ethylhexyl) phthalate [DEHP]	12(U)	0.60	µg/L	<0.60	<0.60
Semi-Volatile Organics (Matrix: Water)					
Dichlorobenzidine, 3,3'-	2(U)	0.40	µg/L	<0.40	<0.40
Semi-Volatile Organics Surrogates (Matrix: Water)					
Fluorobiphenyl, 2-		1.0	%	85.0	90.0
Nitrobenzene-d5		1.0	%	96.0	93.4
Terphenyl-d14, p-		1.0	%	72.0	71.6
Chlorinated Phenolics (Matrix: Water)					
Pentachlorophenol [PCP]		0.50	µg/L	<0.50	<0.50
Phenolics Surrogates (Matrix: Water)					
Tribromophenol, 2,4,6-		0.50	%	93.9	100
Nonylphenols (Matrix: Water)					
Nonylphenol [NP]	1(U)	0.40	µg/L	<0.40	<0.40
Nonylphenol diethoxylate [NP2EO]		0.10	µg/L	<0.10	<0.10
Nonylphenol ethoxylates, mono+di	10(U)	2.0	µg/L	<2.0	<2.0
Nonylphenol monoethoxylate [NP1EO]		0.40	µg/L	<0.40	<0.40
Polychlorinated Biphenyls (Matrix: Water)					
Aroclor 1016		0.020	µg/L	<0.020	<0.020
Aroclor 1221		0.020	µg/L	<0.020	<0.020
Aroclor 1232		0.020	µg/L	<0.020	<0.020
Aroclor 1242		0.020	µg/L	<0.020	<0.020
Aroclor 1248		0.020	µg/L	<0.020	<0.020
Aroclor 1254		0.020	µg/L	<0.020	<0.020
Aroclor 1260		0.020	µg/L	<0.020	<0.020
Aroclor 1262		0.020	µg/L	<0.020	<0.020

Table A4: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Sanitary Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Sanitary Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Aroclor 1268		0.020	µg/L	<0.020	<0.020
Polychlorinated biphenyls [PCBs], total	1(U)	0.060	µg/L	<0.060	<0.060
Polychlorinated Biphenyls Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.1	%	60.1	79.4
Tetrachloro-m-xylene		0.1	%	87.2	83.5
Organochlorine Pesticides (Matrix: Water)					
Aldrin		0.0080	µg/L	<0.0080	<0.0080
Chlordane, cis- (alpha)		0.0080	µg/L	<0.0080	<0.0080
Chlordane, total	100(U)	0.011	µg/L	<0.011	<0.011
Chlordane, trans- (gamma)		0.0080	µg/L	<0.0080	<0.0080
DDD, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, total		0.0060	µg/L	<0.0060	<0.0060
DDE, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, total		0.0060	µg/L	<0.0060	<0.0060
DDT + metabolites, total	0.1(U)	0.010	µg/L	<0.010	<0.010
DDT, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, total	0.1(U)	0.0060	µg/L	<0.0060	<0.0060
Dieldrin		0.0080	µg/L	<0.0080	<0.0080
Hexachlorobenzene	0.1(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorocyclohexane, gamma-	100(U)	0.0080	µg/L	<0.0080	<0.0080
Mirex	100(U)	0.0080	µg/L	<0.0080	<0.0080
Aldrin + Dieldrin	0.2(U)	0.011	µg/L	<0.011	<0.011
Organochlorine Pesticides Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.10	%	47.7	64.2
Tetrachloro-m-xylene		0.10	%	108	105

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLHC

DLM

PEHR

SLMI

Results highlighted in red exceed the guideline

Table A5: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Storm Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Storm Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Physical Tests (Matrix: Water)					
Solids, total suspended [TSS]	15(U)	3.0	mg/L	699	61.3
pH	5.5 -> 9.5	0.10	pH units	6.83	6.68
Anions and Nutrients (Matrix: Water)					
Ammonia, total (as N)		0.0050	mg/L	1.24	1.41
Fluoride		0.020	mg/L	0.116	0.135
Kjeldahl nitrogen, total [TKN]		0.050	mg/L	1.90	1.82
Phosphorus, total	0.4(U)	0.0020	mg/L	0.285	0.0994
Cyanides (Matrix: Water)					
Cyanide, strong acid dissociable (Total)	0.02(U)	0.0020	mg/L	<0.0020	<0.0020
Inorganics (Matrix: Water)					
Chlorine, total		0.050	mg/L	<0.500	<0.500
Microbiological Tests (Matrix: Water)					
Coliforms, Escherichia coli [E. coli]	200(U)	1	CFU/100mL	<1	<1
Total Metals (Matrix: Water)					
Aluminum, total	1(U)	0.0030	mg/L	7.56	1.02
Antimony, total		0.00010	mg/L	<0.00100	<0.00100
Arsenic, total	0.02(U)	0.00010	mg/L	0.00346	0.0125
Cadmium, total	0.008(U)	0.0000050	mg/L	0.000418	<0.0000500
Chromium, total	0.08(U)	0.00050	mg/L	0.0314	0.00776
Cobalt, total		0.00010	mg/L	0.00604	0.00522
Copper, total	0.04(U)	0.00050	mg/L	0.166	<0.00500
Lead, total	0.12(U)	0.000050	mg/L	0.0220	<0.000500
Manganese, total	0.05(U)	0.00010	mg/L	0.768	0.826
Mercury, total		0.0000050	mg/L	0.0000061	<0.0000050
Molybdenum, total		0.000050	mg/L	0.00182	0.00226
Nickel, total	0.08(U)	0.00050	mg/L	0.0160	<0.00500
Selenium, total	0.02(U)	0.000050	mg/L	<0.000500	<0.000500
Silver, total	0.12(U)	0.000010	mg/L	0.000607	<0.000100
Tin, total	1(U)	0.00010	mg/L	<0.00100	<0.00100
Titanium, total		0.00030	mg/L	0.553	0.0502
Zinc, total	0.04(U)	0.0030	mg/L	0.173	<0.0300
Speciated Metals (Matrix: Water)					
Chromium, hexavalent [Cr VI], total		0.00050	mg/L	<0.00050	<0.00050
Aggregate Organics (Matrix: Water)					
Biochemical oxygen demand [BOD]	15(U)	2.0	mg/L	5.4	6.2

Table A5: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Storm Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Storm Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Oil & grease (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, animal/vegetable (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, mineral (gravimetric)	15(U)	5.0	mg/L	<5.0	<5.0
Phenols, total (4AAP)	0.008(U)	0.0010	mg/L	0.0012	<0.0010
Volatile Organic Compounds (Matrix: Water)					
Benzene	2(U)	0.50	µg/L	<0.50	<0.50
Chloroform	2(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,2-	5.6(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,4-	6.8(U)	0.50	µg/L	<0.50	<0.50
Dichloroethylene, cis-1,2-	5.6(U)	0.50	µg/L	<0.50	<0.50
Dichloromethane	5.2(U)	1.0	µg/L	<1.0	<1.0
Dichloropropylene, trans-1,3-	5.6(U)	0.30	µg/L	<0.30	<0.30
Ethylbenzene	2(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	17(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethylene	4.4(U)	0.50	µg/L	<0.50	<0.50
Toluene	2(U)	0.50	µg/L	<0.50	<0.50
Trichloroethylene	7.6(U)	0.50	µg/L	<0.50	<0.50
Xylene, m+p-		0.40	µg/L	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30
Xylenes, total	4.4(U)	0.50	µg/L	<0.50	<0.50
Volatile Organic Compounds Surrogates (Matrix: Water)					
Bromofluorobenzene, 4-		1.0	%	98.1	99.6
Difluorobenzene, 1,4-		1.0	%	98.9	98.2
Polycyclic Aromatic Hydrocarbons (Matrix: Water)					
Anthracene		0.000010	mg/L	<0.000010	<0.000010
Benz(a)anthracene		0.000010	mg/L	0.000015	<0.000010
Benzo(a)pyrene		0.0000050	mg/L	0.0000128	<0.0000050
Benzo(b+j)fluoranthene		0.000010	mg/L	0.000025	<0.000010
Benzo(e)pyrene		0.000010	mg/L	0.000016	<0.000010
Benzo(g,h,i)perylene		0.000010	mg/L	0.000012	<0.000010
Benzo(k)fluoranthene		0.000010	mg/L	0.000010	<0.000010
Chrysene		0.000010	mg/L	0.000021	<0.000010
Dibenz(a,h)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenz(a,h)anthracene		0.0000050	mg/L	<0.0000050	<0.0000050
Dibenz(a,j)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(a,i)pyrene		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(c,g)carbazole, 7H-		0.000050	mg/L	<0.000050	<0.000050
Dinitropyrene, 1,3-		0.0010	mg/L	<0.0010	<0.0010
Dinitropyrene, 1,6-		0.0010	mg/L	<0.0010	<0.0010

Table A5: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Storm Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Storm Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Dinitropyrene, 1,8-		0.0010	mg/L	<0.0010	<0.0010
Fluoranthene		0.000010	mg/L	0.000056	<0.000010
Indeno(1,2,3-c,d)pyrene		0.000010	mg/L	0.000012	<0.000010
Methylcholanthrene, 3-		0.000050	mg/L	<0.000050	<0.000050
Perylene		0.000010	mg/L	0.000043	0.000015
Phenanthrene		0.000010	mg/L	0.000035	<0.000010
Pyrene		0.000010	mg/L	0.000049	<0.000010
PAHs, total (ON Sewer Use)	0.002(U)	0.00175	mg/L	<0.00175	<0.00175
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)					
Chrysene-d12		0.1	%	114	115
Naphthalene-d8		0.1	%	98.8	96.5
Phenanthrene-d10		0.1	%	106	104
Terphenyl-d14, p-		0.1	%	100	121
Phthalate Esters (Matrix: Water)					
Di-n-butyl phthalate	15(U)	1.0	µg/L	<1.0	<1.0
bis(2-Ethylhexyl) phthalate [DEHP]	8.8(U)	0.60	µg/L	<0.60	<0.60
Semi-Volatile Organics (Matrix: Water)					
Dichlorobenzidine, 3,3'-	0.8(U)	0.40	µg/L	<0.40	<0.40
Semi-Volatile Organics Surrogates (Matrix: Water)					
Fluorobiphenyl, 2-		1.0	%	85.0	90.0
Nitrobenzene-d5		1.0	%	96.0	93.4
Terphenyl-d14, p-		1.0	%	72.0	71.6
Chlorinated Phenolics (Matrix: Water)					
Pentachlorophenol [PCP]		0.50	µg/L	<0.50	<0.50
Phenolics Surrogates (Matrix: Water)					
Tribromophenol, 2,4,6-		0.50	%	93.9	100
Nonylphenols (Matrix: Water)					
Nonylphenol [NP]	1(U)	0.40	µg/L	<0.40	<0.40
Nonylphenol diethoxylate [NP2EO]		0.10	µg/L	<0.10	<0.10
Nonylphenol ethoxylates, mono+di	10(U)	2.0	µg/L	<2.0	<2.0
Nonylphenol monoethoxylate [NP1EO]		0.40	µg/L	<0.40	<0.40
Polychlorinated Biphenyls (Matrix: Water)					
Aroclor 1016		0.020	µg/L	<0.020	<0.020
Aroclor 1221		0.020	µg/L	<0.020	<0.020
Aroclor 1232		0.020	µg/L	<0.020	<0.020
Aroclor 1242		0.020	µg/L	<0.020	<0.020
Aroclor 1248		0.020	µg/L	<0.020	<0.020
Aroclor 1254		0.020	µg/L	<0.020	<0.020
Aroclor 1260		0.020	µg/L	<0.020	<0.020
Aroclor 1262		0.020	µg/L	<0.020	<0.020

Table A5: Groundwater Analytical Results Comparison to City of North Bay Sewer Use By-Laws - Storm Sewer

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario North Bay Sewer Use By-Law (2002-112) - North Bay Storm Sewer (2002-112)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Aroclor 1268		0.020	µg/L	<0.020	<0.020
Polychlorinated biphenyls [PCBs], total	0.4(U)	0.060	µg/L	<0.060	<0.060
Polychlorinated Biphenyls Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.1	%	60.1	79.4
Tetrachloro-m-xylene		0.1	%	87.2	83.5
Organochlorine Pesticides (Matrix: Water)					
Aldrin		0.0080	µg/L	<0.0080	<0.0080
Chlordane, cis- (alpha)		0.0080	µg/L	<0.0080	<0.0080
Chlordane, total	40(U)	0.011	µg/L	<0.011	<0.011
Chlordane, trans- (gamma)		0.0080	µg/L	<0.0080	<0.0080
DDD, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, total		0.0060	µg/L	<0.0060	<0.0060
DDE, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, total		0.0060	µg/L	<0.0060	<0.0060
DDT + metabolites, total	0.04(U)	0.010	µg/L	<0.010	<0.010
DDT, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, total	0.04(U)	0.0060	µg/L	<0.0060	<0.0060
Dieldrin		0.0080	µg/L	<0.0080	<0.0080
Hexachlorobenzene	0.04(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorocyclohexane, gamma-	40(U)	0.0080	µg/L	<0.0080	<0.0080
Mirex	40(U)	0.0080	µg/L	<0.0080	<0.0080
Aldrin + Dieldrin	0.08(U)	0.011	µg/L	<0.011	<0.011
Organochlorine Pesticides Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.10	%	47.7	64.2
Tetrachloro-m-xylene		0.10	%	108	105

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLHC

DLM

PEHR

SLMI

Results highlighted in red exceed the guideline

Table A6: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Physical Tests (Matrix: Water)					
Solids, total suspended [TSS]		3.0	mg/L	699	61.3
pH		0.10	pH units	6.83	6.68
Anions and Nutrients (Matrix: Water)					
Ammonia, total (as N)		0.0050	mg/L	1.24	1.41
Fluoride		0.020	mg/L	0.116	0.135
Kjeldahl nitrogen, total [TKN]		0.050	mg/L	1.90	1.82
Phosphorus, total		0.0020	mg/L	0.285	0.0994
Cyanides (Matrix: Water)					
Cyanide, strong acid dissociable (Total)		0.0020	mg/L	<0.0020	<0.0020
Inorganics (Matrix: Water)					
Chlorine, total		0.050	mg/L	<0.500	<0.500
Microbiological Tests (Matrix: Water)					
Coliforms, Escherichia coli [E. coli]		1	CFU/100mL	<1	<1
Total Metals (Matrix: Water)					
Aluminum, total		0.0030	mg/L	7.56	1.02
Antimony, total	20(U)	0.00010	mg/L	<0.00100	<0.00100
Arsenic, total	1.9000000000000001(U)	0.00010	mg/L	0.00346	0.0125
Cadmium, total	0.0027(U)	0.0000050	mg/L	0.000418	<0.0000500
Chromium, total	0.81(U)	0.00050	mg/L	0.0314	0.00776
Cobalt, total	0.066(U)	0.00010	mg/L	0.00604	0.00522
Copper, total	0.087000000000000001(U)	0.00050	mg/L	0.166	<0.00500
Lead, total	0.025(U)	0.000050	mg/L	0.0220	<0.000500
Manganese, total		0.00010	mg/L	0.768	0.826
Mercury, total	0.00029(U)	0.0000050	mg/L	0.0000061	<0.0000050
Molybdenum, total	9.200000000000001(U)	0.000050	mg/L	0.00182	0.00226
Nickel, total	0.49(U)	0.00050	mg/L	0.0160	<0.00500
Selenium, total	0.063(U)	0.000050	mg/L	<0.000500	<0.000500
Silver, total	0.0015(U)	0.000010	mg/L	0.000607	<0.000100
Tin, total		0.00010	mg/L	<0.00100	<0.00100
Titanium, total		0.00030	mg/L	0.553	0.0502
Zinc, total	1.1(U)	0.0030	mg/L	0.173	<0.0300
Speciated Metals (Matrix: Water)					
Chromium, hexavalent [Cr VI], total	0.14(U)	0.00050	mg/L	<0.00050	<0.00050
Aggregate Organics (Matrix: Water)					
Biochemical oxygen demand [BOD]		2.0	mg/L	5.4	6.2

Table A6: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Oil & grease (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, animal/vegetable (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, mineral (gravimetric)		5.0	mg/L	<5.0	<5.0
Phenols, total (4AAP)		0.0010	mg/L	0.0012	<0.0010
Volatile Organic Compounds (Matrix: Water)					
Benzene	44(U)	0.50	µg/L	<0.50	<0.50
Chloroform	2.4(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,2-	4600(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,4-	8(U)	0.50	µg/L	<0.50	<0.50
Dichloroethylene, cis-1,2-	1.6(U)	0.50	µg/L	<0.50	<0.50
Dichloromethane	610(U)	1.0	µg/L	<1.0	<1.0
Dichloropropylene, trans-1,3-		0.30	µg/L	<0.30	<0.30
Ethylbenzene	2300(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	3.2(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethylene	1.6(U)	0.50	µg/L	<0.50	<0.50
Toluene	18000(U)	0.50	µg/L	<0.50	<0.50
Trichloroethylene	1.6(U)	0.50	µg/L	<0.50	<0.50
Xylene, m+p-		0.40	µg/L	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30
Xylenes, total	4200(U)	0.50	µg/L	<0.50	<0.50
Volatile Organic Compounds Surrogates (Matrix: Water)					
Bromofluorobenzene, 4-		1.0	%	98.1	99.6
Difluorobenzene, 1,4-		1.0	%	98.9	98.2
Polycyclic Aromatic Hydrocarbons (Matrix: Water)					
Anthracene	0.0024(U)	0.000010	mg/L	<0.000010	<0.000010
Benz(a)anthracene	0.0047(U)	0.000010	mg/L	0.000015	<0.000010
Benzo(a)pyrene	0.000810000000000001(U)	0.0000050	mg/L	0.0000128	<0.0000050
Benzo(b+j)fluoranthene	0.00075(U)	0.000010	mg/L	0.000025	<0.000010
Benzo(e)pyrene		0.000010	mg/L	0.000016	<0.000010
Benzo(g,h,i)perylene	0.0002(U)	0.000010	mg/L	0.000012	<0.000010
Benzo(k)fluoranthene	0.0004(U)	0.000010	mg/L	0.000010	<0.000010
Chrysene	0.001(U)	0.000010	mg/L	0.000021	<0.000010
Dibenz(a,h)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenz(a,h)anthracene	0.000520000000000001(U)	0.0000050	mg/L	<0.0000050	<0.0000050
Dibenz(a,j)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(a,i)pyrene		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(c,g)carbazole, 7H-		0.000050	mg/L	<0.000050	<0.000050
Dinitropyrene, 1,3-		0.0010	mg/L	<0.0010	<0.0010
Dinitropyrene, 1,6-		0.0010	mg/L	<0.0010	<0.0010

Table A6: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Dinitropyrene, 1,8-		0.0010	mg/L	<0.0010	<0.0010
Fluoranthene	0.13(U)	0.000010	mg/L	0.000056	<0.000010
Indeno(1,2,3-c,d)pyrene	0.0002(U)	0.000010	mg/L	0.000012	<0.000010
Methylcholanthrene, 3-		0.000050	mg/L	<0.000050	<0.000050
Perylene		0.000010	mg/L	0.000043	0.000015
Phenanthrene	0.58(U)	0.000010	mg/L	0.000035	<0.000010
Pyrene	0.068(U)	0.000010	mg/L	0.000049	<0.000010
PAHs, total (ON Sewer Use)		0.00175	mg/L	<0.00175	<0.00175
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)					
Chrysene-d12		0.1	%	114	115
Naphthalene-d8		0.1	%	98.8	96.5
Phenanthrene-d10		0.1	%	106	104
Terphenyl-d14, p-		0.1	%	100	121
Phthalate Esters (Matrix: Water)					
Di-n-butyl phthalate		1.0	µg/L	<1.0	<1.0
bis(2-Ethylhexyl) phthalate [DEHP]	140(U)	0.60	µg/L	<0.60	<0.60
Semi-Volatile Organics (Matrix: Water)					
Dichlorobenzidine, 3,3'-	640(U)	0.40	µg/L	<0.40	<0.40
Semi-Volatile Organics Surrogates (Matrix: Water)					
Fluorobiphenyl, 2-		1.0	%	85.0	90.0
Nitrobenzene-d5		1.0	%	96.0	93.4
Terphenyl-d14, p-		1.0	%	72.0	71.6
Chlorinated Phenolics (Matrix: Water)					
Pentachlorophenol [PCP]	62(U)	0.50	µg/L	<0.50	<0.50
Phenolics Surrogates (Matrix: Water)					
Tribromophenol, 2,4,6-		0.50	%	93.9	100
Nonylphenols (Matrix: Water)					
Nonylphenol [NP]		0.40	µg/L	<0.40	<0.40
Nonylphenol diethoxylate [NP2EO]		0.10	µg/L	<0.10	<0.10
Nonylphenol ethoxylates, mono+di		2.0	µg/L	<2.0	<2.0
Nonylphenol monoethoxylate [NP1EO]		0.40	µg/L	<0.40	<0.40
Polychlorinated Biphenyls (Matrix: Water)					
Aroclor 1016		0.020	µg/L	<0.020	<0.020
Aroclor 1221		0.020	µg/L	<0.020	<0.020
Aroclor 1232		0.020	µg/L	<0.020	<0.020
Aroclor 1242		0.020	µg/L	<0.020	<0.020
Aroclor 1248		0.020	µg/L	<0.020	<0.020
Aroclor 1254		0.020	µg/L	<0.020	<0.020
Aroclor 1260		0.020	µg/L	<0.020	<0.020
Aroclor 1262		0.020	µg/L	<0.020	<0.020

Table A6: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Aroclor 1268		0.020	µg/L	<0.020	<0.020
Polychlorinated biphenyls [PCBs], total	7.8(U)	0.060	µg/L	<0.060	<0.060
Polychlorinated Biphenyls Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.1	%	60.1	79.4
Tetrachloro-m-xylene		0.1	%	87.2	83.5
Organochlorine Pesticides (Matrix: Water)					
Aldrin	8.5(U)	0.0080	µg/L	<0.0080	<0.0080
Chlordane, cis- (alpha)		0.0080	µg/L	<0.0080	<0.0080
Chlordane, total	28(U)	0.011	µg/L	<0.011	<0.011
Chlordane, trans- (gamma)		0.0080	µg/L	<0.0080	<0.0080
DDD, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, total	45(U)	0.0060	µg/L	<0.0060	<0.0060
DDE, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, total	20(U)	0.0060	µg/L	<0.0060	<0.0060
DDT + metabolites, total		0.010	µg/L	<0.010	<0.010
DDT, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, total	2.8(U)	0.0060	µg/L	<0.0060	<0.0060
Dieldrin	0.75(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorobenzene	3.1(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorocyclohexane, gamma-	1.2(U)	0.0080	µg/L	<0.0080	<0.0080
Mirex		0.0080	µg/L	<0.0080	<0.0080
Aldrin + Dieldrin		0.011	µg/L	<0.011	<0.011
Organochlorine Pesticides Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.10	%	47.7	64.2
Tetrachloro-m-xylene		0.10	%	108	105

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLHC

DLM

PEHR

SLMI

Results highlighted in red exceed the guideline

Table A7: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506008

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:40
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
Date Sampled				20-Mar-2025	20-Mar-2025	20-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				14:00	15:30	17:00	14:00	14:00
ALS Sample ID				WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
Dissolved Metals (Matrix: Water)								
Lead, dissolved	25(U)	0.050	µg/L	<0.500	<0.500	<0.500	<0.500	<0.500
Volatile Organic Compounds (Matrix: Water)								
Benzene	44(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	190(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	18000(U)	0.50	µg/L	<0.50	<0.50	<0.50	0.68	0.63
Xylene, m+p-		0.40	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes, total	4200(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total		1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Hydrocarbons (Matrix: Water)								
Chromatogram to baseline at nC50			-	YES	YES	YES	YES	YES
F1 (C6-C10)	750(U)	25	µg/L	<25	<25	<25	<25	<25
F2 (C10-C16)	150(U)	100	µg/L	<100	<100	<100	<100	<100
F2-Naphthalene		100	µg/L	<100	<100	<100	<100	<100
F3 (C16-C34)	500(U)	250	µg/L	<250	<250	<250	<250	<250
F3-PAH		250	µg/L	<250	<250	<250	<250	<250
F4 (C34-C50)	500(U)	250	µg/L	<250	<250	<250	<250	<250
F1-BTEX	750(U)	25	µg/L	<25	<25	<25	<25	<25
Hydrocarbons, total (C6-C50)		240	µg/L	<370	<370	<370	<370	<370
Hydrocarbons Surrogates (Matrix: Water)								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)		1.0	%	88.3	93.2	90.1	87.5	89.7
Dichlorotoluene, 3,4-		1.0	%	91.7	86.1	98.8	100	105
Volatile Organic Compounds Surrogates (Matrix: Water)								
Bromofluorobenzene, 4-		1.0	%	86.6 86.6	86.7 86.7	87.3 87.3	86.8 86.8	87.5 87.5
Difluorobenzene, 1,4-		1.0	%	95.5 95.5	94.5 94.5	94.3 94.3	94.9 94.9	94.4 94.4
Polycyclic Aromatic Hydrocarbons (Matrix: Water)								
Acenaphthene	600(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.123	0.131
Acenaphthylene	1.8(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	2.4(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	4.7(U)	0.010	µg/L	0.017	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	0.81(U)	0.0050	µg/L	0.0157	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	0.75(U)	0.010	µg/L	0.021	<0.010	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	0.2(U)	0.010	µg/L	0.013	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	0.4(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	1(U)	0.010	µg/L	0.016	<0.010	<0.010	<0.010	<0.010

Table A7: Groundwater Analytical Results Comparison to SCS Table 3

Results Summary WT2506008

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:40
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Client Sample ID				MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
Date Sampled				20-Mar-2025	20-Mar-2025	20-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				14:00	15:30	17:00	14:00	14:00
ALS Sample ID				WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
Dibenz(a,h)anthracene	0.52(U)	0.0050	µg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	130(U)	0.010	µg/L	0.033	<0.010	<0.010	<0.010	<0.010
Fluorene	400(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.014	0.014
Indeno(1,2,3-c,d)pyrene	0.2(U)	0.010	µg/L	0.014	<0.010	<0.010	<0.010	<0.010
Methylnaphthalene, 1+2-	1800(U)	0.015	µg/L	<0.015	<0.015	<0.015	0.022	0.021
Methylnaphthalene, 1-	1800(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.022	0.021
Methylnaphthalene, 2-	1800(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Naphthalene	1400(U)	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	580(U)	0.020	µg/L	0.024	<0.020	<0.020	<0.020	<0.020
Pyrene	68(U)	0.010	µg/L	0.028	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)								
Chrysene-d12		0.1	%	114	115	125	113	118
Naphthalene-d8		0.1	%	97.1	99.7	107	95.6	99.4
Phenanthrene-d10		0.1	%	104	106	115	104	109

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLM

Results highlighted in red exceed the guideline

Table A8: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Physical Tests (Matrix: Water)					
Solids, total suspended [TSS]		3.0	mg/L	699	61.3
pH		0.10	pH units	6.83	6.68
Anions and Nutrients (Matrix: Water)					
Ammonia, total (as N)		0.0050	mg/L	1.24	1.41
Fluoride		0.020	mg/L	0.116	0.135
Kjeldahl nitrogen, total [TKN]		0.050	mg/L	1.90	1.82
Phosphorus, total		0.0020	mg/L	0.285	0.0994
Cyanides (Matrix: Water)					
Cyanide, strong acid dissociable (Total)		0.0020	mg/L	<0.0020	<0.0020
Inorganics (Matrix: Water)					
Chlorine, total		0.050	mg/L	<0.500	<0.500
Microbiological Tests (Matrix: Water)					
Coliforms, Escherichia coli [E. coli]		1	CFU/100mL	<1	<1
Total Metals (Matrix: Water)					
Aluminum, total		0.0030	mg/L	7.56	1.02
Antimony, total	16(U)	0.00010	mg/L	<0.00100	<0.00100
Arsenic, total	1.5(U)	0.00010	mg/L	0.00346	0.0125
Cadmium, total	0.0021000000000000003(U)	0.0000050	mg/L	0.000418	<0.0000500
Chromium, total	0.64(U)	0.00050	mg/L	0.0314	0.00776
Cobalt, total	0.052000000000000005(U)	0.00010	mg/L	0.00604	0.00522
Copper, total	0.069(U)	0.00050	mg/L	0.166	<0.00500
Lead, total	0.02(U)	0.000050	mg/L	0.0220	<0.000500
Manganese, total		0.00010	mg/L	0.768	0.826
Mercury, total	0.0001(U)	0.0000050	mg/L	0.0000061	<0.0000050
Molybdenum, total	7.3(U)	0.000050	mg/L	0.00182	0.00226
Nickel, total	0.39(U)	0.00050	mg/L	0.0160	<0.00500
Selenium, total	0.05(U)	0.000050	mg/L	<0.000500	<0.000500
Silver, total	0.0012(U)	0.000010	mg/L	0.000607	<0.000100
Tin, total		0.00010	mg/L	<0.00100	<0.00100
Titanium, total		0.00030	mg/L	0.553	0.0502
Zinc, total	0.89(U)	0.0030	mg/L	0.173	<0.0300
Speciated Metals (Matrix: Water)					
Chromium, hexavalent [Cr VI], total	0.11(U)	0.00050	mg/L	<0.00050	<0.00050
Aggregate Organics (Matrix: Water)					
Biochemical oxygen demand [BOD]		2.0	mg/L	5.4	6.2

Table A8: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Oil & grease (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, animal/vegetable (gravimetric)		5.0	mg/L	<5.0	<5.0
Oil & grease, mineral (gravimetric)		5.0	mg/L	<5.0	<5.0
Phenols, total (4AAP)		0.0010	mg/L	0.0012	<0.0010
Volatile Organic Compounds (Matrix: Water)					
Benzene	0.5(U)	0.50	µg/L	<0.50	<0.50
Chloroform	2(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,2-	150(U)	0.50	µg/L	<0.50	<0.50
Dichlorobenzene, 1,4-	0.5(U)	0.50	µg/L	<0.50	<0.50
Dichloroethylene, cis-1,2-	1.6(U)	0.50	µg/L	<0.50	<0.50
Dichloromethane	26(U)	1.0	µg/L	<1.0	<1.0
Dichloropropylene, trans-1,3-		0.30	µg/L	<0.30	<0.30
Ethylbenzene	54(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	0.5(U)	0.50	µg/L	<0.50	<0.50
Tetrachloroethylene	0.5(U)	0.50	µg/L	<0.50	<0.50
Toluene	320(U)	0.50	µg/L	<0.50	<0.50
Trichloroethylene	0.5(U)	0.50	µg/L	<0.50	<0.50
Xylene, m+p-		0.40	µg/L	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30
Xylenes, total	72(U)	0.50	µg/L	<0.50	<0.50
Volatile Organic Compounds Surrogates (Matrix: Water)					
Bromofluorobenzene, 4-		1.0	%	98.1	99.6
Difluorobenzene, 1,4-		1.0	%	98.9	98.2
Polycyclic Aromatic Hydrocarbons (Matrix: Water)					
Anthracene	0.001(U)	0.000010	mg/L	<0.000010	<0.000010
Benz(a)anthracene	0.0018000000000000002(U)	0.000010	mg/L	0.000015	<0.000010
Benzo(a)pyrene	0.0008100000000000001(U)	0.0000050	mg/L	0.0000128	<0.0000050
Benzo(b+j)fluoranthene	0.00075(U)	0.000010	mg/L	0.000025	<0.000010
Benzo(e)pyrene		0.000010	mg/L	0.000016	<0.000010
Benzo(g,h,i)perylene	0.0002(U)	0.000010	mg/L	0.000012	<0.000010
Benzo(k)fluoranthene	0.0004(U)	0.000010	mg/L	0.000010	<0.000010
Chrysene	0.0007(U)	0.000010	mg/L	0.000021	<0.000010
Dibenz(a,h)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenz(a,h)anthracene	0.0004(U)	0.0000050	mg/L	<0.0000050	<0.0000050
Dibenz(a,j)acridine		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(a,i)pyrene		0.000050	mg/L	<0.000050	<0.000050
Dibenzo(c,g)carbazole, 7H-		0.000050	mg/L	<0.000050	<0.000050
Dinitropyrene, 1,3-		0.0010	mg/L	<0.0010	<0.0010
Dinitropyrene, 1,6-		0.0010	mg/L	<0.0010	<0.0010

Table A8: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Dinitropyrene, 1,8-		0.0010	mg/L	<0.0010	<0.0010
Fluoranthene	0.044(U)	0.000010	mg/L	0.000056	<0.000010
Indeno(1,2,3-c,d)pyrene	0.0002(U)	0.000010	mg/L	0.000012	<0.000010
Methylcholanthrene, 3-		0.000050	mg/L	<0.000050	<0.000050
Perylene		0.000010	mg/L	0.000043	0.000015
Phenanthrene	0.38(U)	0.000010	mg/L	0.000035	<0.000010
Pyrene	0.0057(U)	0.000010	mg/L	0.000049	<0.000010
PAHs, total (ON Sewer Use)		0.00175	mg/L	<0.00175	<0.00175
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)					
Chrysene-d12		0.1	%	114	115
Naphthalene-d8		0.1	%	98.8	96.5
Phenanthrene-d10		0.1	%	106	104
Terphenyl-d14, p-		0.1	%	100	121
Phthalate Esters (Matrix: Water)					
Di-n-butyl phthalate		1.0	µg/L	<1.0	<1.0
bis(2-Ethylhexyl) phthalate [DEHP]	30(U)	0.60	µg/L	<0.60	<0.60
Semi-Volatile Organics (Matrix: Water)					
Dichlorobenzidine, 3,3'-	500(U)	0.40	µg/L	<0.40	<0.40
Semi-Volatile Organics Surrogates (Matrix: Water)					
Fluorobiphenyl, 2-		1.0	%	85.0	90.0
Nitrobenzene-d5		1.0	%	96.0	93.4
Terphenyl-d14, p-		1.0	%	72.0	71.6
Chlorinated Phenolics (Matrix: Water)					
Pentachlorophenol [PCP]	50(U)	0.50	µg/L	<0.50	<0.50
Phenolics Surrogates (Matrix: Water)					
Tribromophenol, 2,4,6-		0.50	%	93.9	100
Nonylphenols (Matrix: Water)					
Nonylphenol [NP]		0.40	µg/L	<0.40	<0.40
Nonylphenol diethoxylate [NP2EO]		0.10	µg/L	<0.10	<0.10
Nonylphenol ethoxylates, mono+di		2.0	µg/L	<2.0	<2.0
Nonylphenol monoethoxylate [NP1EO]		0.40	µg/L	<0.40	<0.40
Polychlorinated Biphenyls (Matrix: Water)					
Aroclor 1016		0.020	µg/L	<0.020	<0.020
Aroclor 1221		0.020	µg/L	<0.020	<0.020
Aroclor 1232		0.020	µg/L	<0.020	<0.020
Aroclor 1242		0.020	µg/L	<0.020	<0.020
Aroclor 1248		0.020	µg/L	<0.020	<0.020
Aroclor 1254		0.020	µg/L	<0.020	<0.020
Aroclor 1260		0.020	µg/L	<0.020	<0.020
Aroclor 1262		0.020	µg/L	<0.020	<0.020

Table A8: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506001

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:38
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW25-01	MW25-02
Date Sampled				20-Mar-2025	21-Mar-2025
Time Sampled				11:00	10:30
ALS Sample ID				WT2506001-001	WT2506001-002
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water
Aroclor 1268		0.020	µg/L	<0.020	<0.020
Polychlorinated biphenyls [PCBs], total	0.2(U)	0.060	µg/L	<0.060	<0.060
Polychlorinated Biphenyls Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.1	%	60.1	79.4
Tetrachloro-m-xylene		0.1	%	87.2	83.5
Organochlorine Pesticides (Matrix: Water)					
Aldrin	3(U)	0.0080	µg/L	<0.0080	<0.0080
Chlordane, cis- (alpha)		0.0080	µg/L	<0.0080	<0.0080
Chlordane, total	0.06(U)	0.011	µg/L	<0.011	<0.011
Chlordane, trans- (gamma)		0.0080	µg/L	<0.0080	<0.0080
DDD, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDD, total	1.8(U)	0.0060	µg/L	<0.0060	<0.0060
DDE, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDE, total	17(U)	0.0060	µg/L	<0.0060	<0.0060
DDT + metabolites, total		0.010	µg/L	<0.010	<0.010
DDT, 2,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, 4,4'-		0.0040	µg/L	<0.0040	<0.0040
DDT, total	0.05(U)	0.0060	µg/L	<0.0060	<0.0060
Dieldrin	0.56(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorobenzene	3.1(U)	0.0080	µg/L	<0.0080	<0.0080
Hexachlorocyclohexane, gamma-	0.95(U)	0.0080	µg/L	<0.0080	<0.0080
Mirex		0.0080	µg/L	<0.0080	<0.0080
Aldrin + Dieldrin		0.011	µg/L	<0.011	<0.011
Organochlorine Pesticides Surrogates (Matrix: Water)					
Decachlorobiphenyl		0.10	%	47.7	64.2
Tetrachloro-m-xylene		0.10	%	108	105

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLHC

DLM

PEHR

SLMI

Results highlighted in red exceed the guideline

Table A9: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506008

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:40
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
Date Sampled				20-Mar-2025	20-Mar-2025	20-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				14:00	15:30	17:00	14:00	14:00
ALS Sample ID				WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
Dissolved Metals (Matrix: Water)								
Lead, dissolved	20(U)	0.050	µg/L	<0.500	<0.500	<0.500	<0.500	<0.500
Volatile Organic Compounds (Matrix: Water)								
Benzene	0.5(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	54(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	15(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	320(U)	0.50	µg/L	<0.50	<0.50	<0.50	0.68	0.63
Xylene, m+p-		0.40	µg/L	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene, o-		0.30	µg/L	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes, total	72(U)	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total		1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Hydrocarbons (Matrix: Water)								
Chromatogram to baseline at nC50			-	YES	YES	YES	YES	YES
F1 (C6-C10)	420(U)	25	µg/L	<25	<25	<25	<25	<25
F2 (C10-C16)	150(U)	100	µg/L	<100	<100	<100	<100	<100
F2-Naphthalene		100	µg/L	<100	<100	<100	<100	<100
F3 (C16-C34)	500(U)	250	µg/L	<250	<250	<250	<250	<250
F3-PAH		250	µg/L	<250	<250	<250	<250	<250
F4 (C34-C50)	500(U)	250	µg/L	<250	<250	<250	<250	<250
F1-BTEX	420(U)	25	µg/L	<25	<25	<25	<25	<25
Hydrocarbons, total (C6-C50)		240	µg/L	<370	<370	<370	<370	<370
Hydrocarbons Surrogates (Matrix: Water)								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)		1.0	%	88.3	93.2	90.1	87.5	89.7
Dichlorotoluene, 3,4-		1.0	%	91.7	86.1	98.8	100	105
Volatile Organic Compounds Surrogates (Matrix: Water)								
Bromofluorobenzene, 4-		1.0	%	86.6 86.6	86.7 86.7	87.3 87.3	86.8 86.8	87.5 87.5
Difluorobenzene, 1,4-		1.0	%	95.5 95.5	94.5 94.5	94.3 94.3	94.9 94.9	94.4 94.4
Polycyclic Aromatic Hydrocarbons (Matrix: Water)								
Acenaphthene	17(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.123	0.131
Acenaphthylene	1(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	1(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	1.8(U)	0.010	µg/L	0.017	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	0.81(U)	0.0050	µg/L	0.0157	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	0.75(U)	0.010	µg/L	0.021	<0.010	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	0.2(U)	0.010	µg/L	0.013	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	0.4(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	0.7(U)	0.010	µg/L	0.016	<0.010	<0.010	<0.010	<0.010

Table A9: Groundwater Analytical Results Comparison to SCS Table 7

Results Summary WT2506008

Project	H/368027 (NB RIP TRACK)
Report To	Owen Salvucci, Hatch Ltd.
Date Received	24-Mar-2025 11:30
Issue Date	16-Jun-2025 15:40
Amendment	1

Guideline Category: Ontario Regulation 153/04 - April 15, 2011 Standards (JUL, 2011) - 153 T7-Non-Potable Ground Water-All Types of Property Use - Coarse

Client Sample ID				MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
Date Sampled				20-Mar-2025	20-Mar-2025	20-Mar-2025	19-Mar-2025	19-Mar-2025
Time Sampled				14:00	15:30	17:00	14:00	14:00
ALS Sample ID				WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
Analyte	Guideline Limit	Lowest Detection Limit	Units	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water	Sub-Matrix: Water
Dibenz(a,h)anthracene	0.4(U)	0.0050	µg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	44(U)	0.010	µg/L	0.033	<0.010	<0.010	<0.010	<0.010
Fluorene	290(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.014	0.014
Indeno(1,2,3-c,d)pyrene	0.2(U)	0.010	µg/L	0.014	<0.010	<0.010	<0.010	<0.010
Methylnaphthalene, 1+2-	1500(U)	0.015	µg/L	<0.015	<0.015	<0.015	0.022	0.021
Methylnaphthalene, 1-	1500(U)	0.010	µg/L	<0.010	<0.010	<0.010	0.022	0.021
Methylnaphthalene, 2-	1500(U)	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Naphthalene	7(U)	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	380(U)	0.020	µg/L	0.024	<0.020	<0.020	<0.020	<0.020
Pyrene	5.7(U)	0.010	µg/L	0.028	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Water)								
Chrysene-d12		0.1	%	114	115	125	113	118
Naphthalene-d8		0.1	%	97.1	99.7	107	95.6	99.4
Phenanthrene-d10		0.1	%	104	106	115	104	109

(L) = Lower Limit

(U) = Upper Limit

Qualifier Legend

DLM

Results highlighted in red exceed the guideline

Figures

Sources: Esri, USGS, NOAA, Maxar

N

Historic Landfill

Storage Building

Paint Shop

Office Building

Car Shop

Diesel Shop

Wheel Shop

Former Pumphouse

Former AST

Fuel Stand

Veterans Park

WHITSON STREET

JAMES AVENUE

AMELIA STREET

MEMORIAL DRIVE

Lake Nipissing

COLGAN AVENUE

BETH AVENUE

LEASK AVENUE

JUDGE AVENUE

POLLARD AVENUE

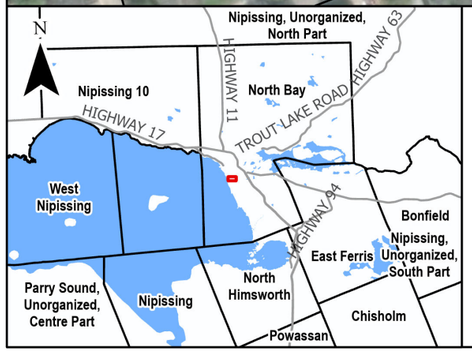
MAIN STREET EAST

LAKESHORE DRIVE

LEE AVENUE

OLD CALLANDER ROAD

INDUSTRIAL AVENUE



Legend

- Point of Interest
- Track
- Road
- Site Boundary

Notes
1. Produced by Hatch, contains information under the Open Government License - Ontario
2. Spatial referencing: NAD 83 CSRS UTM Zone 17N

0 25 50 100 Meters

1:2,500

PROJECT:	RIP Track Geoenvironmental Investigation
FIGURE TITLE:	Site Location Plan
CLIENT:	Ontario Northland

DWG BY:	CHK BY:	FIG NO.:	REV NO.:	PROJ No.:
J. SNELGROVE	N. SIMPSON	1	0	H-375313
DATE: 25/10/07	**PAGE:** 1 of 1			HATCH

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Maxar, Microsoft, Sources: Esri, USGS, NOAA

N

WHITSON STREET

Historic Landfill

Storage Building

Office Building

MW24-25

Paint Shop

Car Shop

MW24-22

Diesel Shop

MW24-17

Wheel Shop

MW24-16

Former Pumphouse

Former AST

BH25-01

BH25-09

BH25-02

BH25-03

BH25-05

BH25-04

BH25-06

Fuel Stand

Veterans Park

BH25-07

MW25-02

MW25-01

BH25-08

JAMES AVENUE

AMELIA STREET

MEMORIAL DRIVE

COLGAN AVENUE

BETH AVENUE

LEASK AVENUE

MAIN STREET EAST

LAKESHORE DRIVE

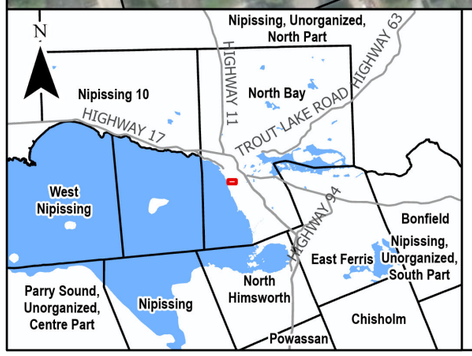
LEE AVENUE

JUDGE AVENUE

POLLARD AVENUE

OLD CALLANDER ROAD

INDUSTRIAL AVENUE



Legend

- Point of Interest
- Site Boundary
- Track
- Road
- Borehole
- Monitoring Well

Notes
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2. Spatial referencing: NAD 83 CSRS UTM Zone 17N

0 25 50 100 Meters

1:2,500

PROJECT:	RIP Track Geoenvironmental Investigation
FIGURE TITLE:	Borehole Plan
CLIENT:	Ontario Northland

DWG BY:	CHK BY:	FIG NO.:	REV NO.:	PROJ No.:
J. SNELGROVE	N. SIMPSON	2	0	H-375313
DATE: 25/10/07	**PAGE:** 1 of 1			HATCH

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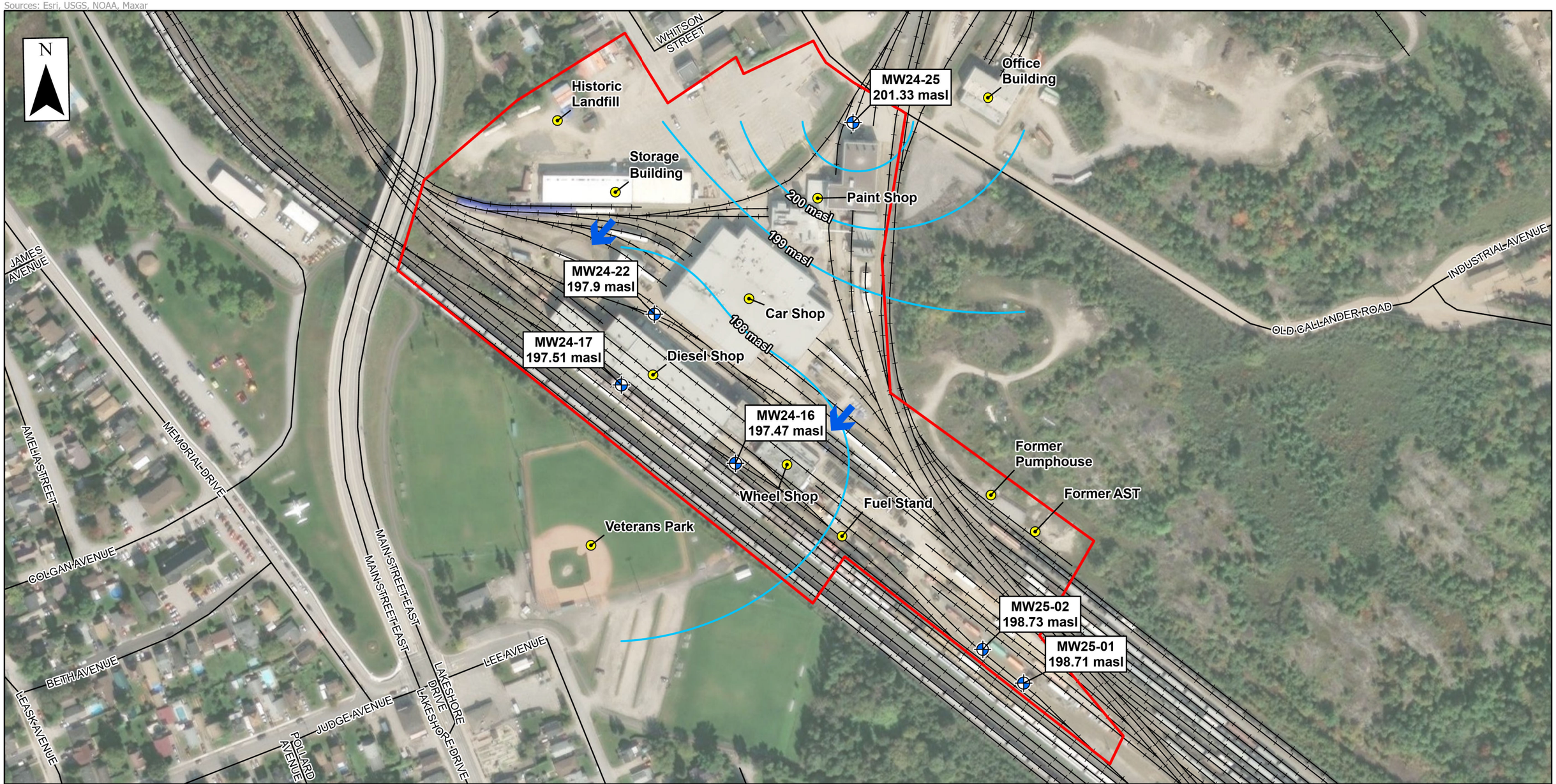
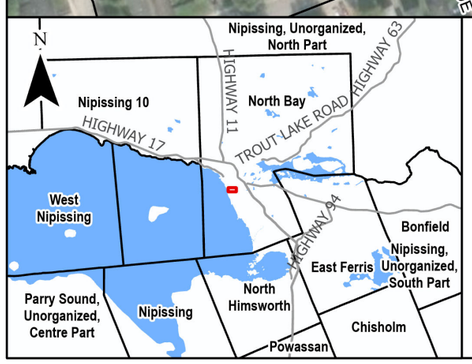
Sources: Esri, USGS, NOAA, Maxar





Legend

- Point of Interest
- Monitoring Well
- Site Boundary
- Groundwater Contour (1m)
- Track
- Road
- Groundwater Flow Direction

Notes
1. Produced by Hatch, contains information under the Open Government License - Ontario
2. Spatial referencing: NAD 83 CSRS UTM Zone 17N

0 30 60 120 Meters

1:2,500

PROJECT:	RIP Track Geoenvironmental Investigation				
FIGURE TITLE:	Groundwater Elevation and Flow Direction				
CLIENT:	Ontario Northland				
DWG BY: J. SNELGROVE	**CHK BY:** N. SIMPSON	**FIG NO.:** 3	**REV NO.:** 0	**PROJ No.:** H-375313	
DATE: 25/10/07	**PAGE:** 1 of 1			HATCH	

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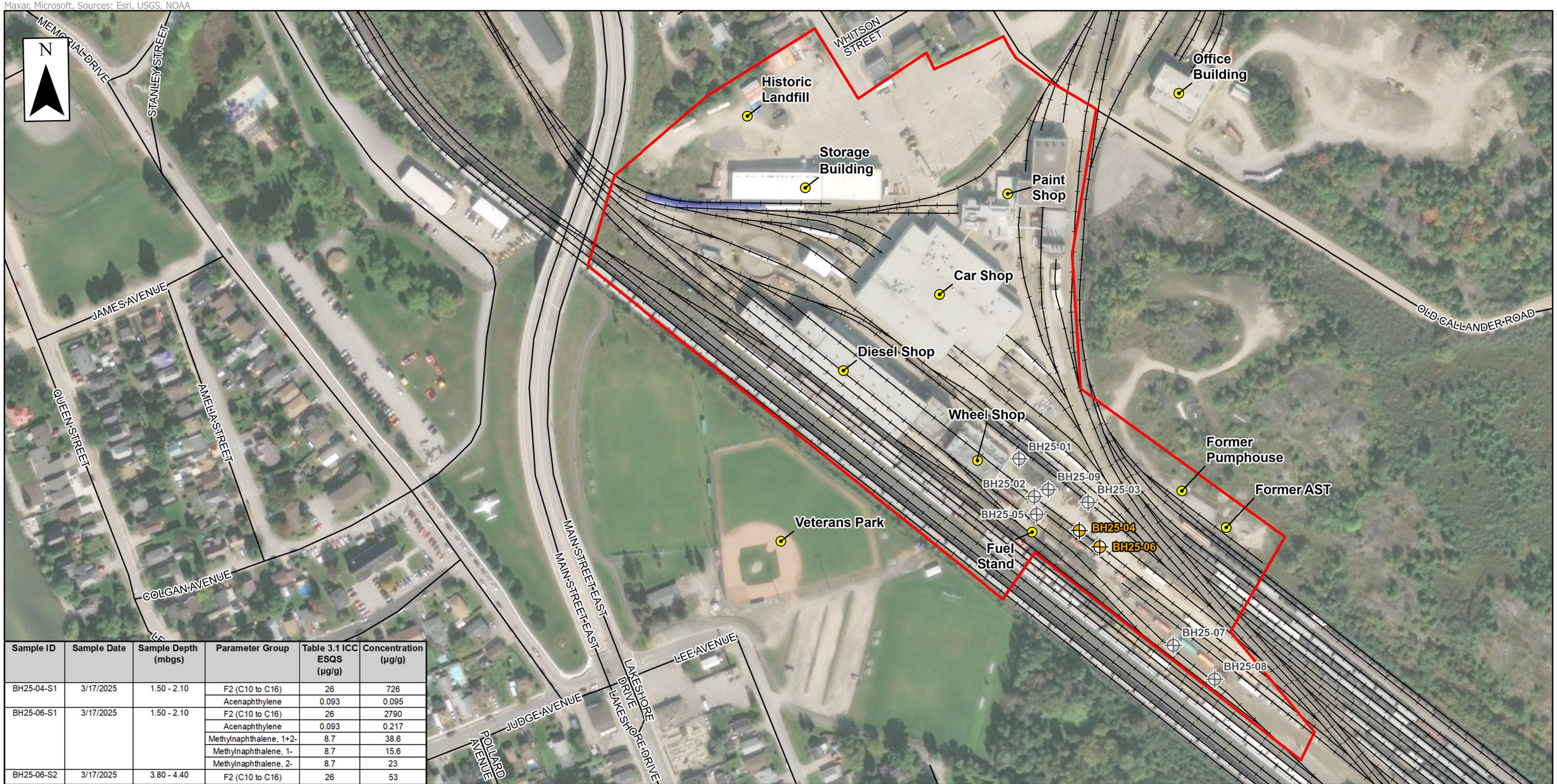
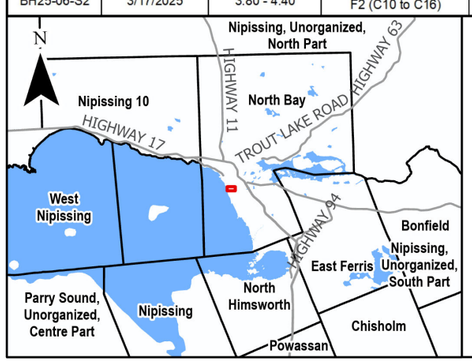
Maxar, Microsoft, Sources: Esri, USGS, NOAA



Sample ID	Sample Date	Sample Depth (mbgs)	Parameter Group	Table 3.1 ICC ESQS (µg/g)	Concentration (µg/g)
BH25-04-S1	3/17/2025	1.50 - 2.10	F2 (C10 to C16)	26	726
			Acenaphthylene	0.093	0.095
BH25-06-S1	3/17/2025	1.50 - 2.10	F2 (C10 to C16)	26	2790
			Acenaphthylene	0.093	0.217
			Methylnaphthalene, 1+2-	8.7	38.6
			Methylnaphthalene, 1-	8.7	15.6
			Methylnaphthalene, 2-	8.7	23
BH25-06-S2	3/17/2025	3.80 - 4.40	F2 (C10 to C16)	26	53



Legend

- Point of Interest

Borehole

- Exceedance
- No Exceedance
- Site Boundary
- Track
- Road

Notes
1. Produced by Hatch, contains information under the Open Government License - Ontario
2. Spatial referencing: NAD 83 CSRS UTM Zone 17N

0 25 50 100 Meters

1:2,500

PROJECT: RIP Track Geoenvironmental Investigation					
FIGURE TITLE: Soil Exceedances					
CLIENT: Ontario Northland					
DWG BY: J. SNELGROVE	**CHK BY:** N. SIMPSON	**FIG NO.:** 4	**REV NO.:** 0	**PROJ No.:** H-375313	
DATE: 25/10/07	**PAGE:** 1 of 1			HATCH	

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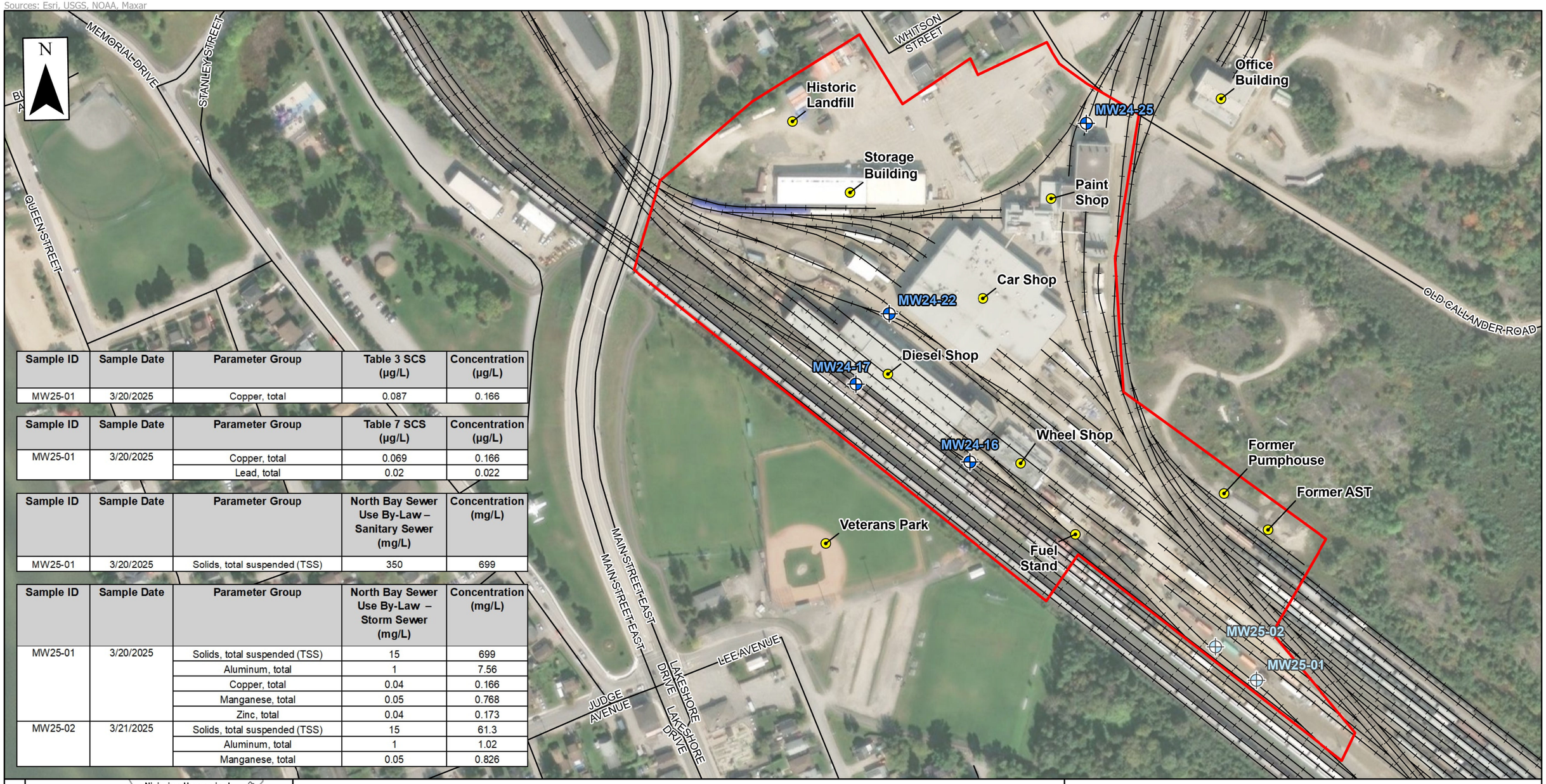
Sources: Esri, USGS, NOAA, Maxar

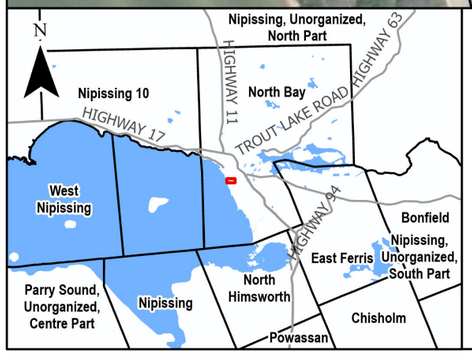


Sample ID	Sample Date	Parameter Group	Table 3 SCS (µg/L)	Concentration (µg/L)
MW25-01	3/20/2025	Copper, total	0.087	0.166

Sample ID	Sample Date	Parameter Group	Table 7 SCS (µg/L)	Concentration (µg/L)
MW25-01	3/20/2025	Copper, total	0.069	0.166
		Lead, total	0.02	0.022

Sample ID	Sample Date	Parameter Group	North Bay Sewer Use By-Law – Sanitary Sewer (mg/L)	Concentration (mg/L)
MW25-01	3/20/2025	Solids, total suspended (TSS)	350	699

Sample ID	Sample Date	Parameter Group	North Bay Sewer Use By-Law – Storm Sewer (mg/L)	Concentration (mg/L)
MW25-01	3/20/2025	Solids, total suspended (TSS)	15	699
		Aluminum, total	1	7.56
		Copper, total	0.04	0.166
		Manganese, total	0.05	0.768
		Zinc, total	0.04	0.173
MW25-02	3/21/2025	Solids, total suspended (TSS)	15	61.3
		Aluminum, total	1	1.02
		Manganese, total	0.05	0.826



Legend

- Point of Interest
- **Monitoring Well**
  - Exceedance
  - No Exceedance
- Site Boundary
- Track
- Road

Notes
1. Produced by Hatch, contains information under the Open Government License - Ontario
2. Spatial referencing: NAD 83 CSRS UTM Zone 17N

0 25 50 100 Meters

1:2,500

PROJECT: RIP Track Geoenvironmental Investigation				
FIGURE TITLE: Groundwater Exceedances				
CLIENT: Ontario Northland				
DWG BY: J. SNELGROVE	**CHK BY:** N. SIMPSON	**FIG NO.:** 5	**REV NO.:** 0	**PROJ No.:** H-375313
DATE: 25/10/07	**PAGE:** 1 of 1			HATCH

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Appendix A
Sampling and Analysis Plan

Sample and Analysis Plan - Soil

Borehole Number	Site	Method	Depth (mbgs)	Monitoring Well	Screen Depth (mbgs)	General COPCs for Testing	Sample ID	Sampling Depth (mbgs)	Submission Requirements								Notes	Purpose (in addition to addressing APEC)
									PHC	BTEX	M&I	PAH	VOC	PCB	OCP	TCLP		
BH25-01	NB Shop Complex	Drill Rig	6	Yes	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-01-S1	> 1.5	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-01-S2	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-01-S3	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
BH25-02	NB Shop Complex	Drill Rig	6	Yes	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-02-S1	> 1.5	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-02-S2	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-02-S3	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
BH25-03	NB Shop Complex	Drill Rig	6	No	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-03-S1	> 1.5	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-03-S2	Duplicate of BH25-03-S1	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-03-S3	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-03-S4	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
BH25-04	NB Shop Complex	Drill Rig	6	No	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-04-S1	> 1.5	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-04-S2	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-04-S3	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
BH25-05	NB Shop Complex	Drill Rig	6	No	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-05-S1	> 1.5	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-05-S2	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-05-S3	Duplicate of BH25-05-S2	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-05-S4	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
BH25-06	NB Shop Complex	Drill Rig	6	No	NA	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-06-S1	> 1.5	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-06-S2	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-06-S3	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
BH25-07	NB Shop Complex	Drill Rig	6	No	Shallow groundwater, as observed	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-07-S1	> 1.5	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-07-S2	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-07-S3	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
							BH25-07-S4	Duplicate of BH25-07-S3	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
BH25-08	NB Shop Complex	Drill Rig	6	No	Deep groundwater, as observed	PHC, BTEX, M&I, PAH, VOC, PCB	BH25-08-S1	> 1.5	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-08-S2	TBD (field screening)	1	1	1	1					1	Characterize RIP Track Project Area.
							BH25-08-S3	TBD (field screening)	1	1	1	1	1	1			1	Characterize RIP Track Project Area.
-	NB Shop Complex	-	-	-	-	TCLP (M&I, VOC, PAH, PCB)	TCLP-01	TBD (field screening)								1	1	Characterize RIP Track Project Area.
-	NB Shop Complex	-	-	-	-	TCLP (M&I, VOC, PAH, PCB)	TCLP-02	TBD (field screening)								1	1	Characterize RIP Track Project Area.
								TOTAL	**27**	**27**	**27**	**27**	**15**	**15**	**0**	**2**		

Notes (from table):

1. Field screening every Split Spoon and subsample from ziplock bag.

Sample and Analysis Plan - Groundwater

Borehole Number	Site	Method	General COPCs for Testing	Submission Requirements									Filter for Metals	Notes	Purpose (in addition to addressing APEC)
				PHC	BTEX	M&I	PAH	VOC	PCB	MTBE	Lead	Sewer Use Bylaw			
MW24-16	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	NA		1			1	1		x	1	Monitor existing well southwest of Diesel Shop.
MW24-17	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	1		1			1	1		x	1	Monitor existing well southwest of Diesel Shop.
MW24-22	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	1		1			1	1		x	1	Monitor existing well under Main St E Bridge.
MW24-25	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	NA		1			1	1		x	1	Monitor existing well north of Paint Shop.
MW25-01	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	1		1			1	1	1	x	1	Monitor proposed well inside RIP Track Project Area.
MW25-02	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	1		1			1	1	1	x	1	Monitor proposed well outside RIP Track Project Area.
DUP-01	NB Shop Complex	Low-Flow	PHC, BTEX, MTBE, Lead	1	1		1			1	1		x	1	Duplicate sample for QAQC.
			TOTAL	**7**	**5**	**0**	**7**	**0**	**0**	**7**	**7**	**2**			

Notes (From Table):

1. Minimum of 3 well volumes should be purged. Sampling can occur once physical chemistry is stable.

Appendix B
Certificates of Calibration

CERTIFICATE OF CALIBRATION

The RKI Instrument listed below has been inspected and calibrated following the Manufacturer's specifications and methods.

Instrument Model: **RKI Eagle 2** *Serial Number:* **E2F558** *Calibration Date:* **March 12, 2025**

SENSOR	CALIBRATION GAS STANDARD	CALIBRATION GAS CONCENTRATION	READING PRIOR TO ADJUSTMENT	INSTRUMENT SPAN SETTINGS	ALARM LEVEL SETTING
VOC	Isobutylene LOT# 24-2275	100 PPM	100 PPM	100 PPM	400 & 1000 PPM
Combustible	Methane LOT# 23-1219	50% LEL	<500 PPM	VERIFICATION ONLY "METHANE ELIMINATION" MODE	
Combustible	Hexane LOT# 24-2625	15% LEL	15% LEL	15% LEL "METHANE ELIMINATION" MODE	10 & 50% LEL
Combustible	Hexane LOT# 24-2625	15% LEL	15% LEL	15% LEL FULL GAS RESPONSE MODE	10 & 50% LEL

The calibration gas standard used is considered to be a certified standard and is traceable to the National Institute of Standards and Technology (NIST). Certificate of Analysis is available upon request.

The instrument indicated above is now certified to be operating within the Manufacturer's specifications. This does not eliminate the requirement for regular maintenance and pre-use sensor response checks in order to ensure continued complete and accurate operating condition.

Certified By: Johan Mesa

MAXIM Environmental and Safety Inc.

sales@maximenvironmental.com
www.maximenvironmental.com

9 - 170 Ambassador Dr., Mississauga, ON L5T 2H9
(905)670-1304 | Toll Free (888)285-2324

9 - 148 Colonnade Rd., Ottawa, ON K2E 7R4
(613)224-4747 | Toll Free (888)285-2324

CERTIFICATE OF CALIBRATION

The YSI Instrument listed below has been inspected and calibrated following the Manufacturer's specifications and methods.

Instrument Model: **YSI Professional Plus** *Serial Number:* 18K102429 *Calibration Date:* MAR.13 2025

3-POINT pH	*CONDUCTIVITY*	*DISSOLVED OXYGEN*	*OXIDIZATION - REDUCTION POTENTIAL*
4.00 pH, 7.00 pH, 10.00 pH	1413uS/cm	9.02 @ 20 DegC MG/L	240 mV
4.00 pH LOT # 3GG0502	LOT # 3GO0678		LOT# 5766
Expiry Date: August 2, 2026	Expiry Date: May 30, 2025		Expiry Date: May 20, 2026
7.00 pH LOT # 3GH0684	@25 DegC		
Expiry Date: June 22, 2026			
10.00 pH LOT # 3GE0945			
Expiry Date: May 16, 2026			

The calibration standard used is considered to be a certified standard and is traceable to the National Institute of Standards and Technology (NIST). Certificate of Analysis is available upon request.

The instrument indicated above is now certified to be operating within the Manufacturer's specifications. This does not eliminate the requirement for regular maintenance and pre-use sensor response checks in order to ensure continued complete and accurate operating condition.

Certified By:

Appendix C
Borehole Records

Method for Soil Classification – Symbols and Terms

Terminology describing soil types:
The classification of soil types are made on the basis of grain size and plasticity in accordance with the Geotechnical Soil Classification as outlined in the Hatch Geotechnical Field Investigations Manual. Soil classification is in general conformance with the Unified Soil Classification System (USCS) as outlined in ASTM D2487, D2488 and in the Canadian Foundation Engineering Manual, 5th Edition. Both a group symbol (e.g. SM) and a group name (e.g. silty sand) are assigned for identification of soil particles smaller than 75 mm.

Standard Penetration Test (SPT), N-value[1]

The number of blows by a 63.5 kg hammer dropped 760 mm required to drive a 50 mm split-spoon sampler for 300 mm after an initial penetration of 150 mm.

WOH: Sampler advanced by static weight of hammer
WOR: Sampler advanced by weight of sampler and rod

Non-Cohesive Soils - Density[2]	
Term	**SPT N-Value (blows/0.3 m)[1]**
Very Loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very Dense	>50

Cohesive Soils - Consistency		
Term	**Undrained Shear Strength (kPa)**	**SPT N-Value (blows/0.3 m)[1]**
Very Soft	< 12	0 to 2
Soft	12 to 25	2 to 4
Firm	25 to 50	4 to 8
Stiff	50 to 100	8 to 15
Very Stiff	100 to 200	15 to 30
Hard	> 200	> 30

1. SPT 'N' in accordance with ASTM D1586, uncorrected for the effect of overburden pressure.
2. Definition of compactness terms are based on SPT 'N' ranges as provided in Terzaghi, Peck and Mesri (1996). Many factors affect the recorded SPT 'N' value, including hammer efficiency (which may be greater than 60% in automatic trip hammers), overburden pressure, groundwater conditions, and grainsize. As such, the recorded SPT 'N' value(s) should be considered only an approximate guide to the soil compactness. These factors need to be considered when evaluating the results, and the stated compactness terms should not be relied upon for design or construction

Gradational terms (Modifier)

The percentages of gravel, sand and fines may be stated in terms indicating a range of percentages as follows:

Modifier	Percentage by Dry Weight
Trace	≤ 5%
Few	> 5% to ≤ 12%
Little	> 12% to ≤ 30%
Some	> 30% to ≤ 50%
Mostly	≥ 50% to 100%

Particle Sizes of Constituents

Soil Constituent	Soil Type		Particle Size (mm)
Cobbles and boulders	Boulders		>300
	Cobbles		75 – 300
Coarse-grained soils	Gravel	Coarse	19 – 75
		Fine	4.75 – 19
	Sand	Coarse	2.0 – 4.75
		Medium	0.425 – 2.0
		Fine	0.075 – 0.425
Fine-grained soils	Silt		0.002 – 0.075
	Clay		<0.002

Particle Angularity

Description	Criteria
Rounded	Particles have smoothly curved sides, no edges and smooth or polished surfaces
Subrounded	Particles have nearly plane sides, well-rounded edges and partially polished surfaces
Subangular	Particles have plane sides, partially sharp edges and unpolished surfaces
Angular	Particles have relatively plane sides, sharp edges and unpolished surfaces

Sample Type

AU	Auger Cuttings
BS	Block Sample
ES	Environmental Sample
GS	Grab Sample
MC	Modified California Sampler
PS	Piston Sample
RC	Rock Core
SC	Soil Core
SS	Split Spoon
ST	Shelby Tube Sample
WS	Wash Sample

Moisture Condition

Dry	Absence of moisture, dusty, dry to touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

Plasticity

Non-plastic	PL cannot be measured
Low	LL < 50
High	LL ≥ 50

Water Levels

	Temporary Water Level / at time of drilling
	Measured in standpipe, piezometer or monitoring well after drilling
	Measured upon completion of drilling / end of drilling

HATCH

Abbreviations and Terms

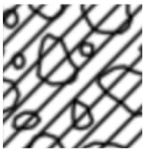
Soil Tests

C	Consolidation (oedometer) test
CID	Consolidated isotropically drained triaxial test
CIU	Consolidated isotropically undrained triaxial test with porewater pressure measurement
DS	Direct shear test
Field Peak Vane	Undrained Shear Strength of soil measured with field vane, in natural state
Field Rem. Vane	Undrained Shear Strength of soil measured with field vane, in remoulded state
GR SA SI CL	Particle Size (in Percent [%]) GR: Gravel SA: Sand SI: Silt CL: Clay
GS	Specific gravity
LL	Liquid Limit
MC (%)	Water content
MPC	Modified Proctor compaction test
OC	Organic content test
PL	Plastic Limit
PP	Undrained Shear Strength measured using Pocket Penetrometer
SPC	Standard Proctor compaction test
UC	Unconfined compression test
UU	Unconsolidated undrained triaxial test
V (FV)	Field vane (LV-laboratory vane test)
γ	Unit weight

Soil Environmental Analytical Laboratory Testing

BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
M&I	Metals and Inorganics, includes Metals, Hydride-Forming Metals, and Other Regulated Parameters (ORPs)
mSPLP	Modified Synthetic Precipitation Leaching Procedure (E9003)
OCs	Organochlorine Pesticides
PCBs	Polychlorinated Biphenyls
PHCs	Petroleum Hydrocarbons
Corr.	Corrosivity Suite
sVOCs	Semi Volatile Organic Compounds, includes sVOCs, Polycyclic Aromatic Hydrocarbons (PAHs), Acid, Base, Neutral Compounds (ABNs), and Chlorophenols (CPs)
VOCs	Volatile Organic Compounds

Hatching Patterns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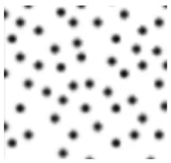	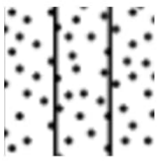	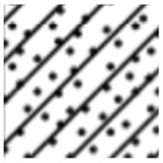	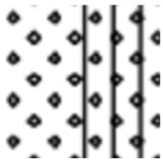	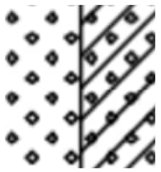
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	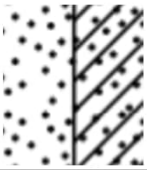		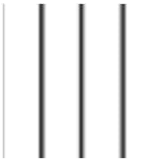	
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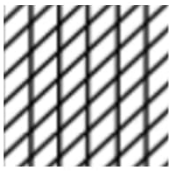				
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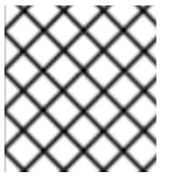
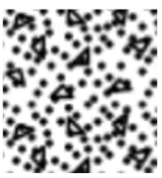
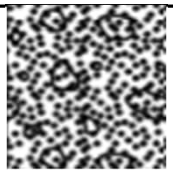
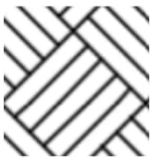
				
PEAT	FILL	TOPSOIL	BOULDERS/ COBBLES	CONCRETE
				
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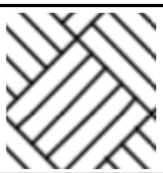		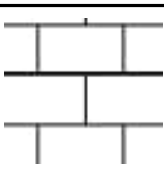	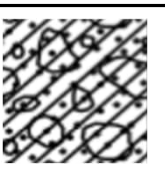	
BEDROCK	SHALE	LIMESTONE	TILL	VOID/NO CORE

HATCH

BOREHOLE RECORD

BH25-01

Client:	Ontario Northland	**Final Depth:**	0.60 m	**Easting:**	619199.48 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128322.22 m
Project No:	H375313-1000	**Location:**	NE corner existing retaining wall	**Vertical Datum:**	CGVD28	**Elevation:**	200.16 m
Contractor:	LandShark	**Rig Type:**	Track mounted auger	**Bearing:**	0.00º	**Date Logged:**	Mar 19, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Illio	**Hole Diam (mm):**		**Inclination:**	90.00º	**Date Checked:**		**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Particle Size GR	SA	SI CL (FINES)
200.0				Poorly graded SAND with Gravel (SP): subangular to subrounded, medium ; brown, dry to moist (FILL).							
				CONCRETE							
				End of hole at 0.60 m.							
199.0	1.0										
198.0	2.0										
197.0	3.0										
196.0	4.0										
195.0	5.0										
194.0	6.0										
193.0	7.0										
	8.0										

MC (%)
PL & LL (%)
SPT N-value
10 20 30 40
50 100 150 200
PP (kPa)
Field Peak Vane (kPa)
Field Rem. Vane (kPa)

Notes:
1. Encountered concrete at 0.5 m depth; hole terminated due to unfavourable drilling conditions.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:47

BOREHOLE RECORD

BH25-02

Client:	Ontario Northland	**Final Depth:**	0.90 m	**Easting:**	619209.39 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128297.50 m
Project No:	H375313-1000 **Location:** Top of access ramp to raised grade	**Vertical Datum:**	CGVD28	**Elevation:**	200.18 m
Contractor:	LandShark **Rig Type:** Hydrovac	**Bearing:**	0.00º **Date Logged:** Mar 18, 2025	**Logged by:**	D. Ouellette
Driller:	**Hole Diam (mm):**	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description NAME (SYMBOL): gradational components including plasticity or particle characteristics (size, angularity, shape), consistency/density, colour, moisture, additional description, (GEOLOGICAL FORMATION).	Run Recovery	Sample Type	Sample Number	Recovery %	○ MC (%) ⊢ PL & LL (%) ■ SPT N-value 10 20 30 40 50 100 150 200 ▲ PP (kPa) ✕ Field Peak Vane (kPa) × Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)
200.0				CONCRETE						
				Poorly graded SAND (SP): subangular to subrounded, medium ; compact, brown, dry to moist (FILL).						
				CONCRETE						
				Boulder						
	1.0			End of hole at 0.90 m.						
199.0										
	2.0									
198.0										
	3.0									
197.0										
	4.0									
196.0										
	5.0									
195.0										
	6.0									
194.0										
	7.0									
193.0										
	8.0									

Notes:
1. Encountered boulder at 0.55 m depth; hole terminated due to unfavourable drilling conditions.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:48

BOREHOLE RECORD

BH25-03

Client:	Ontario Northland	**Final Depth:**	9.45 m	**Easting:**	619224.55 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128293.50 m
Project No:	H375313-1000	**Location:**	Bottom of ramp, lower grade S of retaining wall	**Vertical Datum:**	CGVD28	**Elevation:**	199.53 m
Contractor:	LandShark	**Rig Type:**	Track mounted auger	**Bearing:**	0.00º	**Date Logged:**	Mar 17-Mar 18, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio	**Hole Diam (mm):**	210	**Inclination:**	90.00º	**Date Checked:**		**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value (10 20 30 40 / 50 100 150 200) / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR	SA	SI CL (FINES)	Headspace Readings	Lab Testing
199.0	0.0	Hollow Stem Auger		CONCRETE												
	1.0			Poorly graded SAND with Gravel (SP): subangular to subrounded, medium to coarse ; compact to dense, brownish gray, moist to wet, slight hydrocarbon odour (FILL).		SPT	SS-01	47	16-13-20-6	33					HEX = 0 PPM IBL = 0 PPM	
198.0						SPT	SS-02	42	4-6-6-4	12					HEX = 0 PPM IBL = 0 PPM	N* = 18
	2.0			WOOD; brown, moist												
197.0				SILT with Sand (ML): non-plastic subrounded, fine to medium ; compact, dark brown, dry to moist, slight hydrocarbon odour .		SPT	SS-03	45	3-3-6-8	9					HEX = 0 PPM IBL = 0 PPM	
	3.0			Poorly graded SAND with Silt (SM): subrounded to rounded, fine to medium ; loose to compact, gray, moist to wet, containing wood fragments, slight hydrocarbon odour.		SPT	SS-04	100	4-6-6-8	12					HEX = 0 PPM IBL = 0 PPM	
196.0				- 3.10 m: Moderate hydrocarbon odour												PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	4.0			- 4.00 to 4.20 m: Coarse sand		SPT	SS-05	83	14-13-13-16	26					HEX = 0 PPM IBL = 0 PPM	N* = 40; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
195.0				- 4.60 to 4.70 m: Coarse sand and gravel												
	5.0	Mud Rotary		SILTY CLAY (CL): low plasticity ; very soft to firm, gray, moist, trace sand, no odour.		SPT	SS-06	100	WOH-WOH-WOH-3	0					HEX = 0 PPM IBL = 1 PPM	PHCs, BTEX, M&I, PAHs, VOCs, PCBs
194.0						SPT	SS-07	100	WOH-WOH-5-13	5		2	23	44 31		N* = 8; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	6.0			- 5.80 to 6.00 m: Sandy, slight hydrocarbon odour											HEX = 0 PPM IBL = 1 PPM	
193.0						SPT	SS-08	47	WOH-4-6-14	10						
	7.0			SILTY SAND with Gravel (SM): subrounded to rounded, coarse ; compact to dense, gray with black, pink, and white grains, moist, slight hydrocarbon odour.		SPT	SS-09	75	8-22-27-45	49		8	53	(39)	HEX = 0 PPM IBL = 0 PPM	
192.0				Poorly graded SAND with Silt and Gravel (SP-SM): subangular to subrounded, fine to medium ; compact to very dense, gray, moist, containing cobbles.												
	8.0															

Notes:
1. Hole resumed 18 Mar 2025; 2. Terminated at target depth, SPT refusal; 3. N* indicates LPT blow count using Burnister 1962.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:49

BOREHOLE RECORD

BH25-03

Client:	Ontario Northland	**Final Depth:**	9.45 m	**Easting:**	619224.55 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128293.50 m
Project No:	H375313-1000	**Location:**	Bottom of ramp, lower grade S of retaining wall	**Vertical Datum:**	CGVD28	**Elevation:**	199.53 m
Contractor:	LandShark	**Rig Type:**	Track mounted auger	**Bearing:**	0.00º	**Date Logged:**	Mar 17-Mar 18, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio	**Hole Diam (mm):**	210	**Inclination:**	90.00º	**Date Checked:**		**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR	Particle Size SA	Particle Size SI CL (FINES)	Headspace Readings	Lab Testing
191.0	9.0	Mud Rotary		Poorly graded SAND with Silt and Gravel (SP-SM): subangular to subrounded, fine to medium ; compact to very dense, gray, moist, containing cobbles.		SPT	SS-10	71	2-10-50/50 mm	R	○ N>5■				HEX = 0 PPM IBL = 0 PPM	
190.0				End of hole at 9.45 m.												
	10.0															
189.0																
	11.0															
188.0																
	12.0															
187.0																
	13.0															
186.0																
	14.0															
185.0																
	15.0															
184.0																
	16.0															

Notes: 1. Hole resumed 18 Mar 2025; 2. Terminated at target depth, SPT refusal; 3. N* indicates LPT blow count using Burnister 1962.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:49

BOREHOLE RECORD

BH25-04

Client:	Ontario Northland	**Final Depth:**	6.70 m	**Easting:**	619238.54 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128275.22 m
Project No:	H375313-1000 **Location:** Bottom of ramp	**Vertical Datum:**	CGVD28	**Elevation:**	199.48 m
Contractor:	LandShark **Rig Type:** Track mounted auger	**Bearing:**	0.00º **Date Logged:** Mar 17, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio **Hole Diam (mm):** 210	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing
199.0	0.0	Hollow Stem Auger		CONCRETE										
				Poorly graded SAND with Gravel (SP): subrounded to rounded, medium to coarse ; compact to very dense, dark brownish gray, moist (FILL).		SPT	SS-01	100	35-50/100 mm	R	N>50			
	1.0			- 0.60 m: Containing wood fragments		SPT	SS-02	83	5-50/150 mm	R	N>50			
198.0						SPT	SS-03	77	3-4-8-10	12			HEX = 165 PPM IBL = 110 PPM	N* = 18; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	2.0			SILTY SAND (SM): angular to subrounded, fine to medium ; compact, gray, wet, strong hydrocarbon odour, intermittent black staining.										
197.0						SPT	SS-04	83	5-13-16-14	29			HEX = 0 PPM IBL = 0 PPM	N* = 45
	3.0													
196.0						SPT	SS-05	100	4-9-17-17	26			HEX = 0 PPM IBL = 0 PPM	N* = 40; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	4.0					SPT	SS-06	83	7-9-9-13	18				N* = 28
195.0													HEX = 0 PPM IBL = 0 PPM	
	5.0			SILTY CLAY (CL): low plasticity ; very soft, gray, moist, trace sand.		SPT	SS-07	67	3-1-0-1	1				
194.0						SPT	SS-08	100	WOH-WOH-WOH-WOH	0			HEX = 0 PPM IBL = 0 PPM	PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	6.0													
193.0				Poorly graded SAND (SP): subrounded to rounded, coarse ; loose, gray with black pink and white grains, wet.		SPT	SS-09	75	0-2-4-9	6			HEX = 0 PPM IBL = 0 PPM	
				End of hole at 6.70 m.										
	7.0													
192.0														
	8.0													

Notes: 1. Terminated at Target Depth; 2. N* indicates LPT blow count using Burnister 1962.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:49

BOREHOLE RECORD

BH25-05

Client:	Ontario Northland	**Final Depth:**	0.60 m	**Easting:**	619211.16 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128286.36 m
Project No:	H375313-1000 **Location:** W raised slab	**Vertical Datum:**	CGVD28	**Elevation:**	200.17 m
Contractor:	LandShark **Rig Type:** Hydrovac	**Bearing:**	0.00º **Date Logged:** Mar 18, 2025	**Logged by:**	D. Ouellette
Driller:	**Hole Diam (mm):**	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Particle Size GR	SA	SI CL (FINES)
200.0	0.0			ASPHALT Poorly graded SAND with Gravel (SP): subangular to subrounded, medium to coarse ; dry to moist (FILL). - 0.40 m: 1/2in rebar reinforcement grid							
				End of hole at 0.60 m.							
199.0	1.0										
198.0	2.0										
197.0	3.0										
196.0	4.0										
195.0	5.0										
194.0	6.0										
193.0	7.0										
	8.0										

MC (%)
PL & LL (%)
SPT N-value
10 20 30 40
50 100 150 200
PP (kPa)
Field Peak Vane (kPa)
Field Rem. Vane (kPa)

Notes:
1. Encountered 1/2in rebar reinforcement grid at 0.4 m depth; hole terminated due to unfavourable drilling conditions.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:50

BOREHOLE RECORD

BH25-06

Client:	Ontario Northland	**Final Depth:**	6.70 m	**Easting:**	619252.28 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128264.35 m
Project No:	H375313-1000 **Location:** Bottom of ramp	**Vertical Datum:**	CGVD28	**Elevation:**	199.50 m
Contractor:	LandShark **Rig Type:** Track mounted auger	**Bearing:**	0.00º **Date Logged:** Mar 17, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio **Hole Diam (mm):** 210	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value (10 20 30 40 / 50 100 150 200) / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR	Particle Size SA	Particle Size SI CL (FINES)	Headspace Readings	Lab Testing
199.0				CONCRETE												
	1.0			Poorly graded SAND with Gravel (SP): subangular to subrounded, fine to medium ; loose, dark brownish gray, dry to moist (FILL).												
198.0				- 1.45 m: Containing wood fragments		SPT	SS-01	100	5-4-3-9	7					HEX = 0 PPM IBL = 16 PPM	PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	2.0															
197.0				SILTY SAND (SM): subangular to subrounded, fine to medium ; compact to dense, gray, moist to wet, trace gravel, strong hydrocarbon odour, intermittent black staining .		SPT	SS-02	75	16-30-12-16	42					HEX = 0 PPM IBL = 2 PPM	N* = 65
	3.0	Hollow Stem Auger		- 2.30 m: Trace silt												
196.0						SPT	SS-03	100	5-9-10-15	19		4	63	(33)	HEX = 0 PPM IBL = 0 PPM	
	4.0					SPT	SS-04	73	8-9-10-6	19					HEX = 0 PPM IBL = 9 PPM	N* = 29; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
195.0				Sandy SILTY CLAY (CL): low plasticity ; very soft to stiff, gray, moist to wet, trace sand, slight hydrocarbon odour .		SPT	SS-05	100	WOH-WOH-WOH-WOH	0	>50%	0	17	41 42	HEX = 0 PPM IBL = 0 PPM	
	5.0															
194.0						SPT	SS-06	33	4-2-5-8	7					HEX = 0 PPM IBL = 2 PPM	N* = 11
	6.0															
193.0						SPT	SS-07	77	4-5-5-14	10					HEX = 0 PPM IBL = 2 PPM	PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	7.0			End of hole at 6.70 m.												
192.0																
	8.0															

Notes: 1. Terminated at Target Depth; 2. N* indicates LPT blow count using Burnister 1962.

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BOREHOLE RECORD

BH25-07/MW25-02

Client:	Ontario Northland	**Final Depth:**	6.70 m	**Easting:**	619300.46 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128197.99 m
Project No:	H375313-1000 **Location:** Access road, near proposed seacans	**Vertical Datum:**	CGVD28	**Elevation:**	199.38 m
Contractor:	LandShark **Rig Type:** Track mounted auger	**Bearing:**	0.00º **Date Logged:** Mar 18, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio **Hole Diam (mm):** 210	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value
199.0	0.0	Hollow Stem Auger		**Poorly graded SAND with Gravel (SP): subangular to subrounded, medium to coarse ; very dense, brownish gray, dry to moist (FILL).**		SPT	SS-01	(100)	25/150 mm	R
	1.0			- 0.90 m: Cobble or boulder						
198.0				**SILTY SAND with Gravel (SM): subangular to subrounded, medium ; compact, gray, moist, intermittent black staining .**		SPT	SS-02	55	10-10-8-6	18
	2.0			- 1.50 m: Containing wood debris						
197.0				- 2.30 m: Wet, slight hydrocarbon odour		SPT	SS-03	60	2-5-8-10	13
	3.0			- 3.10 m: Fine to medium						
196.0				- 3.10 to 3.70 m: Moderate hydrocarbon odour		SPT	SS-04	100	5-10-9-12	19
	4.0			- 3.80 m: Slight hydrocarbon odour		SPT	SS-05	67	4-7-9-8	16
195.0				- 4.60 m: Moderate hydrocarbon odour		SPT	SS-06	72	2-10-10-8	20
	5.0									
194.0						SPT	SS-07	75	2-1-1-WOH	2
	6.0			**SILTY CLAY (CL): low plasticity ; soft, gray, moist, trace sand, no odour.**						
193.0				- 6.50 to 6.70 m: Intermittent coarse sand lenses		SPT	SS-08	100	1-1-1-3	2
	7.0			End of hole at 6.70 m.						
192.0										
	8.0									

MC (%) / PL & LL (%) / SPT N-value: 10 20 30 40 / 50 100 150 200 / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)

N>50

Particle Size: GR SA SI CL (FINES)

Headspace Readings	Lab Testing
HEX = 0 PPM IBL = 1 PPM	
HEX = 0 PPM IBL = 1 PPM	N* = 28; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
HEX = 0 PPM IBL = 0 PPM	
HEX = 0 PPM IBL = 1 PPM	N* = 29; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
HEX = 0 PPM IBL = 0 PPM	N* = 29; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
HEX = 0 PPM IBL = 0 PPM	N* = 31
HEX = 0 PPM IBL = 0 PPM	
HEX = 0 PPM IBL = 0 PPM	N* = 3; PHCs, BTEX, M&I, PAHs, VOCs, PCBs

Construction and Installation: 0.00 - 0.30m: / 0.30 - 0.61m: / 20 Mar 2025 / 0.61 - 1.52m: / 1.52 - 6.10m: / 6.10 - 6.70m:

Notes: 1. Terminated at Target Depth; 2. TCLP-01 sample collected: M&I, PAHs, VOCs, PCBs; 3. N* indicates LPT blow count using Burnister 1962.

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BOREHOLE RECORD

BH25-08/MW25-01

Client:	Ontario Northland	**Final Depth:**	6.40 m	**Easting:**	619327.53 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128175.85 m
Project No:	H375313-1000 **Location:** Access road, near proposed seacans	**Vertical Datum:**	CGVD28	**Elevation:**	199.42 m
Contractor:	LandShark **Rig Type:** Track mounted auger	**Bearing:**	0.00º **Date Logged:** Mar 19, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio **Hole Diam (mm):** 210	**Inclination:**	90.00º **Date Checked:**	**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing	Construction and Installation
199.0				Poorly graded SAND (SP): subangular to subrounded, medium to coarse ; compact to very dense, brownish gray, dry to moist, slight hydrocarbon odour (FILL).											0.00 - 0.30m:
	1.0			- 1.25 m: Wet		SPT	SS-01	80	13-50-14-6	64	N>50		HEX = 0 PPM IBL = 1 PPM		20 Mar 2025
198.0				- 1.50 to 1.90 m: Dry to moist											0.30 - 2.44m:
	2.0			SILTY SAND (SM): subrounded to rounded, fine to medium ; loose to compact, gray, moist to wet, strong hydrocarbon odour .		SPT	SS-02	50	5-5-7-6	12			HEX = 0 PPM IBL = 1 PPM	N* = 18; PHCs, BTEX, M&I, PAHs, VOCs, PCBs	
197.0				- 1.90 m: Black band											
	3.0	Hollow Stem Auger		- 1.90 to 2.10 m: Orange and black staining, oily residue		SPT	SS-03	67	3-4-6-7	10			HEX = 0 PPM IBL = 1 PPM		
196.0				- 2.30 m: No odour											
				- 3.10 m: Strong hydrocarbon odour		SPT	SS-04	100	3-7-10-12	17			HEX = 0 PPM IBL = 1 PPM	N* = 26; PHCs, BTEX, M&I, PAHs, VOCs, PCBs	
	4.0			- 3.10 to 3.30 m: Oily residue											
195.0				- 3.80 m: Moderate hydrocarbon odour		SPT	SS-05	67	9-7-7-10	14			HEX = 0 PPM IBL = 1 PPM		2.44 - 6.10m:
													HEX = 25 PPM IBL = 1 PPM		
	5.0			- 4.80 to 5.20 m: Black staining		SPT	SS-06	100	2-5-8-12	13				N* = 20; PHCs, BTEX, M&I, PAHs, VOCs, PCBs	
194.0				- 5.35 m: Slight hydrocarbon odour		SPT	SS-07	63	2-3-4-3	7			HEX = 0 PPM IBL = 2 PPM		
	6.0			Sandy SILT (ML): ; very dense, gray, moist, no odour.		SPT	SS-08	121	2-50/130 mm	R	N>50		HEX = 0 PPM IBL = 1 PPM		6.10 - 6.40m:
193.0				SILTY CLAY (CL): low plasticity ; hard, greenish gray, moist, no odour .											
	7.0			End of hole at 6.40 m.											
192.0															
	8.0														

Notes: 1. Terminated at Target Depth; 2. N* indicates LPT blow count using Burnister 1962.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:57

BOREHOLE RECORD

BH25-09

Client:	Ontario Northland	**Final Depth:**	6.70 m	**Easting:**	619218.52 m
Project:	ONTC North Bay RIP Track Facility	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128301.95 m
Project No:	H375313-1000	**Location:**	S of existing retaining wall, lower grade	**Vertical Datum:**	CGVD28	**Elevation:**	199.56 m
Contractor:	LandShark	**Rig Type:**	Track mounted auger	**Bearing:**	0.00º	**Date Logged:**	Mar 19, 2025	**Logged by:**	D. Ouellette
Driller:	B. Di Ilio	**Hole Diam (mm):**	210	**Inclination:**	90.00º	**Date Checked:**		**Reviewed by:**	T. Beadle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	Blows	SPT N-Value	MC (%) / PL & LL (%) / SPT N-value (10 20 30 40 / 50 100 150 200) / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR	SA	SI CL (FINES)	Headspace Readings	Lab Testing
199.0	0.0			CONCRETE												
				Poorly graded SAND (SP): subangular to subrounded, medium to coarse ; loose to compact, brownish gray, with pink, white and black grains, moist to wet, trace gravel (FILL).		SPT	SS-01	40	1-2-3-3	5					HEX = 0 PPM IBL = 0 PPM	
198.0	1.0					SPT	SS-02	42	9-10-5-7	15					HEX = 0 PPM IBL = 0 PPM	N* = 23
197.0	2.0	Hollow Stem Auger		WOOD; brown, moist SILTY SAND (SM): subangular to subrounded, fine to medium ; compact to dense, brown, moist to wet, slight to moderate hydrocarbon odour . - 2.30 m: Gray		SPT	SS-03	47	4-4-6-7	10					HEX = 0 PPM IBL = 0 PPM	
196.0	3.0			- 3.25 m: Containing rootlets, wood fragments - 3.30 m: Strong hydrocarbon odour		SPT	SS-04	100	8-15-16-22	31					HEX = 680 PPM IBL = 0 PPM HEX = 0 PPM IBL = 0 PPM	N* = 48; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
195.0	4.0			SILTY CLAY (CL): low plasticity ; very soft to soft, gray, moist, trace sand, slight hydrocarbon odour .		SPT	SS-05	100	1-WOH-WOH-WOH	0					HEX = 20 PPM IBL = 1 PPM	
194.0	5.0			- 5.00 to 5.15 m: Medium to coarse sand layer, wood fragments		SPT	SS-06	25	1-1-1-1	2					HEX = 20 PPM IBL = 1 PPM	N* = 3
193.0	6.0			SILTY SAND with Gravel (SM): subrounded to rounded, fine to coarse ; compact, gray, moist, slight hydrocarbon odour . - 5.35 to 5.70 m: Coarse sand - 6.10 to 6.30 m: Coarse sand, some black hair - 6.30 to 6.70 m: Very dense, trace gravel		SPT	SS-07	83	8-7-10-22	17					HEX = 30 PPM IBL = 1 PPM	PHCs, BTEX, M&I, PAHs, VOCs, PCBs
192.0	7.0			End of hole at 6.70 m.		SPT	SS-08	100	22-50-33-50	83	N>50	21	48	(31)		N* = 128; PHCs, BTEX, M&I, PAHs, VOCs, PCBs
	8.0															

Notes: 1. Terminated at Target Depth; 2. N* indicates LPT blow count using Burnister 1962.

Created using Hatch BH - Dynamic Soil Rock Log V2 on April 25 2025 07:52

BOREHOLE RECORD

MW24-16

Client:	Ontario Northland Transportation Commission	**Final Depth:**	4.65 m	**Easting:**	619138.25 m
Project:	ONR North Bay Complex, 2024 Investigation	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128320.24 m
Project No:	H368027 **Location:**	**Vertical Datum:**	CGVD28	**Elevation:**	199.81 m
Contractor:	Landshark **Rig Type:** Geoprobe 7820	**Bearing:**	0.00º	**Date Logged:** 09/10/2024	**Logged by:** Phil Snable
Driller:	Robert Ferri **Hole Diam (mm):** 51	**Inclination:**	90.00º	**Date Checked:** 11/12/2024	**Reviewed by:** Warren Hoyle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing	Construction and Installation
199.0	0	Direct Push		Poorly graded GRAVEL with Sand: non-plastic coarse ; brown to light brown, dry. - 0.20 to 0.90 m: black staining		ES	S0				HEX = 15 PPM IBL = 0 PPM		0.00 - 0.15m: Flush Mount Casing 0.15 - 0.30m: Bentonite Seal
	1.0			Poorly graded SAND: non-plastic ; light brown stained black intermittently, moist, Light odour of hydrocarbons.		ES	S1				HEX = 20 PPM IBL = 1 PPM		0.30 - 1.52m: Screen
198.0				- 1.83 to 2.00 m: black staining									
	2.0			Poorly graded SAND: non-plastic medium ; grayish brown, wet.		ES	S2				HEX = 15 PPM IBL = 1 PPM		
				- 2.40 to 2.60 m: black staining									
197.0				Poorly graded SAND: non-plastic fine ; gray, wet.							HEX = 35 PPM IBL = 1 PPM		1.22 - 4.65m: Sand Pack
	3.0					ES	S3						
196.0	4.0			End of hole at 4.65 m.									

Notes: Inferred screen depth.

Created using Hatch BH - Dynamic Soil Rock Log V2 on December 11 2024 09:41

BOREHOLE RECORD

MW24-17

Client:	Ontario Northland Transportation Commission	**Final Depth:**	4.60 m	**Easting:**	619063.02 m
Project:	ONR North Bay Complex, 2024 Investigation	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128371.68 m
Project No:	H368027 **Location:**	**Vertical Datum:**	CGVD28	**Elevation:**	199.54 m
Contractor:	Landshark **Rig Type:** Geoprobe 7822	**Bearing:**	0.00º	**Date Logged:** 09/10/2024	**Logged by:** Phil Snable
Driller:	Robert Ferri **Hole Diam (mm):** 51	**Inclination:**	90.00º	**Date Checked:** 11/12/2024	**Reviewed by:** Warren Hoyle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing	Construction and Installation
199.0	0	Direct Push		Poorly graded GRAVEL: non-plastic ; gray, dry.									0.00 - 0.15m:
				Poorly graded SAND with Gravel: non-plastic ; brown, dry.									0.15 - 0.30m:
				Poorly graded SAND: non-plastic medium to coarse ; black staining, dry.		ES	S1				HEX = 20 PPM IBL = 1 PPM		
				Poorly graded SAND with Gravel: non-plastic medium to coarse ; brown to light brown, dry, Oxidation. - 0.50 to 0.60 m: black staining									0.30 - 1.15m:
198.0	1.0			Poorly graded SAND: non-plastic medium to coarse ; brown to light brown, dry.									
	2.0			Poorly graded SAND: non-plastic fine ; gray, dry.									
197.0				ORGANIC CLAY: fine ; black staining, moist.							HEX = 200 PPM IBL = 0 PPM		
				Poorly graded SAND: non-plastic fine ; gray, wet.		ES	S2						1.15 - 4.50m:
196.0	3.0										HEX = 500 PPM IBL = 0 PPM		
						ES	S3						
195.0	4.0			End of hole at 4.60 m.									

Notes: Borehole had a strong odour of hydrocarbons. Inferred screen depth.

Created using Hatch BH - Dynamic Soil Rock Log V2 on December 11 2024 09:43

BOREHOLE RECORD

MW24-22

Client:	Ontario Northland Transportation Commission	**Final Depth:**	4.60 m	**Easting:**	619084.98 m
Project:	ONR North Bay Complex, 2024 Investigation	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128418.21 m
Project No:	H368027 **Location:**	**Vertical Datum:**	CGVD28	**Elevation:**	200.18 m
Contractor:	Landshark **Rig Type:** Geoprobe 7822	**Bearing:**	0.00º	**Date Logged:** 09/10/2024	**Logged by:** Phil Snable
Driller:	Robert Ferri **Hole Diam (mm):** 51	**Inclination:**	90.00º	**Date Checked:** 11/12/2024	**Reviewed by:** Warren Hoyle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing	Construction and Installation
200.0				ASPHALT: non-plastic coarse ; gray, dry.									0.00 - 0.15m:
				Poorly graded GRAVEL with Sand: non-plastic coarse ; grayish brown, dry.									0.15 - 0.30m:
				Poorly graded SAND with Gravel: non-plastic fine ; light brown to dark brown, intermittent black staining, moist.		ES	S1				HEX = 30 PPM IBL = 1 PPM		0.30 - 0.95m:
199.0	1.0												
						ES	S2				HEX = 5 PPM IBL = 1 PPM		
198.0	2.0	Direct Push											
				Sandy SILT (ML): fine ; dark brown to light gray, wet.		ES	S3				HEX = 40 PPM IBL = 1 PPM		0.95 - 4.31m:
197.0	3.0										HEX = 105 PPM IBL = 0 PPM		
						ES	S4						
196.0	4.0										HEX = 5 PPM IBL = 1 PPM		
						ES	S5						
				End of hole at 4.60 m.									

Notes: Inferred screen depth.

BOREHOLE RECORD

MW24-25

Client:	Ontario Northland Transportation Commission	**Final Depth:**	1.83 m	**Easting:**	619215.31 m
Project:	ONR North Bay Complex, 2024 Investigation	**Coord. System:**	NAD83 / UTM zone 17N	**Northing:**	5128544.11 m
Project No:	H368027 **Location:**	**Vertical Datum:**	CGVD28	**Elevation:**	202.40 m
Contractor:	Landshark **Rig Type:** Geoprobe 7822	**Bearing:**	0.00º	**Date Logged:**	09/10/2024 **Logged by:** Phil Snable
Driller:	Robert Ferri **Hole Diam (mm):** 51	**Inclination:**	90.00º	**Date Checked:**	11/12/2024 **Reviewed by:** Warren Hoyle

Elevation (m)	Depth (m)	Method	Graphic Log	Soil Description	Run Recovery	Sample Type	Sample Number	Recovery %	MC (%) / PL & LL (%) / SPT N-value / PP (kPa) / Field Peak Vane (kPa) / Field Rem. Vane (kPa)	Particle Size GR SA SI CL (FINES)	Headspace Readings	Lab Testing	Construction and Installation
202.0	0	Direct push		ASPHALT: non-plastic coarse ; .									0.00 - 0.10m:
				Poorly graded SAND with Gravel: non-plastic fine to coarse ; dark brown.		ES	S1				HEX = 15 PPM IBL = 1 PPM		0.10 - 0.20m: Bentonite
													0.20 - 0.30m: Sand
				Poorly graded SAND with Gravel: non-plastic fine to coarse ; black stained.		ES	S2				HEX = 25 PPM IBL = 1 PPM		
	1.0			Gravelly SILT with Sand: non-plastic ; dark gray.		ES	S3				HEX = 10 PPM IBL = 1 PPM		0.30 - 1.74m: Screen
201.0				Gravelly SILT (ML): non-plastic fine to coarse ; black stained.		ES	S4				HEX = 30 PPM IBL = 1 PPM		
				ORGANIC SOIL: non-plastic ; black stained, This layer is entirely wood.									
				Gravelly low plasticity CLAY: non-plastic fine to coarse ; gray, Hard layer, comprised of shale chips, course sand to gravel size.									
	2.0			End of hole at 1.83 m.									
200.0													
	3.0												
199.0													
	4.0												
198.0													

Notes: Inferred screen depth.

Appendix D
Monitoring Well Development and Purging/Sampling Records

Monitoring Well Development Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW25-01	**Responsible Professional:**	O. Salvucci		

General Information

MECP Monitoring Well ID:		Driller:	LandShark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	Hand Purge
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 19, 2025 6:30 PM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 20, 2025 9:29 AM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	5.36
Initial Static Water Depth (m)	0.71
Is there a difference measured depth to bottom of well from the borehole log?	Unknown

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Strong PHC odour

Development Information

Development Date and Start Time:	March 20, 2025 9:31 AM
Flow Rate (L/min):	5
Total Volume Removed (L):	80
Total Time to Develop Well (h:min):	0: 45: 0
Final Water Depth (m):	1.3
Did the well go dry while developing?	No

Monitoring Well Development Record

Client: ONTC		**Project Title:** North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:** H/375313
Monitoring Well ID: MW25-01		**Responsible Professional:** O. Salvucci	
Monitoring Well Volume (L): 9.13 Minimum Required Volume to Develop Well (L): 27.39			Where was the purged water disposed? Buckets

Well Development Record Table

Volume Number	Time	Volume Removed (L)	Water Depth (m)	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Appearance/Odour

Monitoring Well Purging and Sampling Record

Client: ONTC		**Project Title:** North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:** H/368027
Monitoring Well ID: MW25-01		**Responsible Professional:**	O. Salvucci

General Information

MECP Monitoring Well ID:		Driller:	LandShark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 20, 2025 10:33 AM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 20, 2025 10:33 AM

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/368027
Monitoring Well ID:	MW25-01	**Responsible Professional:**	O. Salvucci		

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 20, 2025 10:33 AM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	6.12
Initial Static Water Depth (m)	0.75
Is there a difference measured depth to bottom of well from the borehole log?	Unknown
Monitoring Well Volume (L):	10.544
Minimum Required Volume to Purge Well (L):	March 20, 2025 10:35 AM

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Purging Information

Purging Date and Start Time:	March 20, 2025 11:00 AM
Flow Rate (L/min):	0.4
Total Volume Removed (L):	8
Total Time to Purge Well (h:min):	0 :30: 0
Did the well go dry while purging?	No
Where was the purged water disposed?	Drum

Well Purging Record Table

Volume Number	Time	Volume Removed (L)	Water Depth (m)	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Appearance/Odour
1	10:40	0.5	0.86	5.8	6.15	327.1	1.32	19.3	Light brown, turbid, slight odour
1	10:42	0.5	0.86	5.8	6.17	326.3	1.25	5.5	Light brown, turbid,slight odour

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation		**Project No.:**	H/368027	
Monitoring Well ID:	MW25-01					**Responsible Professional:**	O. Salvucci		
1	10:45	0.5	0.86	5.6	6.22	329.6	1.19	-2.2	Light yellowishbrown, turbid, moderate phc
1	10:48	0.5	0.86	5.3	6.28	338	1.19	-6.4	Yellowush brown, moderate phc
1	10:51	0.5	0.86	5.4	6.35	342.8	1.04	-9.2	Yelkowish brown,moderate phc
1	10:53	0.5	0.85	5.5	6.34	346.7	1.02	-13	Yellowish brown, turbid, moderate phc
1	10:56	0.5	0.85	5.6	6.37	361.3	1.13	-14.8	Light yellowish brown, turbid, moderate phc
1	10:58	0.5	0.85	5.6	6.41	362.8	0.98	-16.3	Light yellowish briwn, turbid, moderate phc
1	11:01	0.5	0.86	5.6	6.42	375.6	1.07	-16.2	Lught Yellowish brown, turbid, moderate phc
1	11:03	0.5	0.85	5.6	6.46	395.6	1.07	-17	Light yellowish brown, mod phc, turbid
Sampling Information									

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/368027
Monitoring Well ID:	MW25-01			**Responsible Professional:**	O. Salvucci
Sampling Date and Time:	March 20, 2025 11:00 AM			General Parameters Sampled:	Sewer use bylaws
Sample Depth (m):	3			Total Number of Bottles:	22
Physical Description of Sample:	Ligt yellowis brown, turbid, moderate phc			Final Water Depth (m)	0.78

Monitoring Well Development Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW25-02	**Responsible Professional:**	OS		

General Information

MECP Monitoring Well ID:	A377183	Driller:	Landshark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	Hand Purge
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 18, 2025 6:31 PM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 19, 2025 6:32 PM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	4.23
Initial Static Water Depth (m)	0.65
Is there a difference measured depth to bottom of well from the borehole log?	Unknown
Monitoring Well Volume (L):	7.029
Minimum Required Volume to Develop Well (L):	21.087

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Still turbid after purging 80 L

Development Information

Development Date and Start Time:	March 19, 2025 6:36 PM
Flow Rate (L/min):	5
Total Volume Removed (L):	80
Total Time to Develop Well (h:min):	: :
Final Water Depth (m):	0.87
Did the well go dry while developing?	No
Where was the purged water disposed?	Drum

Monitoring Well Development Record

Client: ONTC	**Project Title:** North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:** H/375313	
Monitoring Well ID: MW25-02	**Responsible Professional:** OS		

Well Development Record Table

Volume Number	Time	Volume Removed (L)	Water Depth (m)	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Appearance/Odour

Monitoring Well Purging and Sampling Record

Client: ONTC	**Project Title:** North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:** H/375313	
Monitoring Well ID: MW25-02	**Responsible Professional:** O. Salvucci		

General Information

MECP Monitoring Well ID:	A377183	Driller:	LandShark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 21, 2025 9:16 AM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 21, 2025 9:16 AM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 21, 2025 9:16 AM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	5.08
	0.79

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	

Purging Information

Purging Date and Start Time:	March 21, 2025 10:30 AM
Flow Rate (L/min):	0.3
Total Volume Removed (L):	16
	1 :0: 0

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW25-02			**Responsible Professional:**	O. Salvucci
Initial Static Water Depth (m)		Other Gases		Total Time to Purge Well (h:min):	
Is there a difference measured depth to bottom of well from the borehole log?	Unknown	**Additional Notes**		Did the well go dry while purging?	No
Monitoring Well Volume (L):	8.423			Where was the purged water disposed?	Bucket
Minimum Required Volume to Purge Well (L):	March 21, 2025 9:27 AM				

Well Purging Record Table

Volume Number	Time	Volume Removed (L)	Water Depth (m)	Temperature (°C)	pH	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Appearance/Odour
1	09:32	0.5	0.86	5.3	6.94	317	1.94	10	Light brown, turbid, moderate phc
1	09:33	0.5	0.86	5.3	6.97	303	1.43	-1	Light brown, turbic, moderate phc
1	09:36	0.5	0.86	5.2	6.92	290.3	0.99	-15	Light brown, turbid, moderate phc

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation		**Project No.:**	H/375313	
Monitoring Well ID:	MW25-02					**Responsible Professional:**	O. Salvucci		
1	09:38	0.5	0.86	5.2	6.88	285.6	0.83	-20.9	Light brown, turbid, moderate phc
1	09:40	0.5	0.86	5.1	6.86	280	0.73	-24.7	Light brown, turbid, moderate phc
1	09:42	0.5	0.86	5	6.92	273.2	0.66	-27.3	Light brown, turbid, moderate phc
1	09:45	0.5	0.86	5	6.94	268	0.65	-30.3	Light brown, turbid, moderate phc
1	09:49	1	0.86	5	6.95	262.8	0.57	-36.8	Light brown, turbid, moderate phc
1	09:54	1	0.86	5.1	7.21	261.5	0.5	-43.2	Light brown, turbid, moderate phc
1	09:58	1	0.87	5.2	7.27	257.5	0.45	-47.3	Light yellow, turbid, moderate phc

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation		**Project No.:**	H/375313	
Monitoring Well ID:	MW25-02					**Responsible Professional:**	O. Salvucci		
1	10:03	1	0.87	5.1	7.37	258.1	0.43	-51.4	Light yellow, cloudy, moderate phc
1	10:07	1	0.87	5.2	7.41	258.8	0.41	-53.6	Light yellow, cloudy, moderate phc
1	10:12	1.5	0.89	5.3	7.45	261.1	0.41	-56.3	Light yellow, cloudy, moderate phc
1	10:16	1	0.89	5.3	7.47	262.7	0.54	57.5	Light yellow, cloudy, moderate phc
1	10:20	1	0.89	5.3	7.46	263.4	0.43	-58.9	Light yellow, cloudy, moderate phc
1	10:24	1	0.89	5.3	7.44	264.3	0.41	-59.7	Light yellow, cloudy, moderate phc
Sampling Information									
Sampling Date and Time:	March 21, 2025 10:30 AM					General Parameters Sampled:	Sewer bylaws		
Sample Depth (m):	4.5					Total Number of Bottles:	22		

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW25-02		**Responsible Professional:**	O. Salvucci	
Physical Description of Sample:	Light yellow, cloudy, moderate phc		Final Water Depth (m)	0.87	

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW24-16			**Responsible Professional:**	O Salvucci

General Information

MECP Monitoring Well ID:		Driller:	LandShark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 20, 2025 1:21 PM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 20, 2025 1:21 PM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 20, 2025 1:22 PM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	4.28
Initial Static Water Depth (m)	2.34
Is there a difference measured depth to bottom of well from the borehole log?	Unknown
Monitoring Well Volume (L):	3.809
Minimum Required Volume to Purge Well (L):	March 20, 2025 1:23 PM

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Purging Information

Purging Date and Start Time:	March 20, 2025 2:00 PM
Flow Rate (L/min):	0.2
Total Volume Removed (L):	4.5
Total Time to Purge Well (h:min):	0 :45: 0
Did the well go dry while purging?	No
Where was the purged water disposed?	Drum

Well Purging Record Table

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation			**Project No.:**	H/375313
Monitoring Well ID:	MW24-16					**Responsible Professional:**	O Salvucci		
Volume Number	**Time**	**Volume Removed (L)**	**Water Depth (m)**	**Temperature (°C)**	**pH**	**Electrical Conductivity (mS/cm)**	**Dissolved Oxygen (mg/L)**	**Oxidation Reduction Potential (mV)**	**Appearance/Odour**
1	13:37	0.25	2.53	7.1	6.36	430.7	1.34	20.1	Org brwn, no odour
1	13:40	0.25	2.58	7.5	6.41	409.2	1.55	5.9	Light orange brown,cloudy,slight phc
1	13:43	0.25	2.59	7.5	6.51	399.1	3.86	13.3	Light orange brown, turbid slight phc
1	13:49	0.25	2.51	7.7	6.61	399.7	1.18	-9.9	Yellow,turbid
1	13:52	0.25	2.6	8.2	6.64	407.5	0.58	-21.6	Yellow, turbid slight phc
1	13:57	0.5	2.65	8.1	6.67	408.4	0.55	-27	Yellow, turbd,slight phc
1	13:58	0.5	2.68	8.2	6.68	408.9	0.54	-32.2	Yellow, turbid, slight phc

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation			**Project No.:**	H/375313
Monitoring Well ID:	MW24-16					**Responsible Professional:**	O Salvucci		
1	14:02	0.5	2.7	8.1	6.69	408.5	0.56	-32.1	Yellow, turbid , slight phc
1	14:05	0.5	2.7	8.1	6.7	409	0.57	-33.8	Yellow tutid slight phc

Sampling Information

Sampling Date and Time:	March 20, 2025 2:00 PM	General Parameters Sampled:	Phc, pah,btex, lea mtve
Sample Depth (m):	4	Total Number of Bottles:	5
Physical Description of Sample:	Yellow, turbi, moderate phc	Final Water Depth (m)	2.45

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW24-17			**Responsible Professional:**	O. Salvucci

General Information

MECP Monitoring Well ID:		Driller:	Landshark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 20, 2025 2:47 PM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 20, 2025 2:47 PM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 20, 2025 2:47 PM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	4.55
Initial Static Water Depth (m)	2.03
Is there a difference measured depth to bottom of well from the borehole log?	Unknown
Monitoring Well Volume (L):	4.948
Minimum Required Volume to Purge Well (L):	March 20, 2025 2:54 PM

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Purging Information

Purging Date and Start Time:	March 20, 2025 3:30 PM
Flow Rate (L/min):	0.2
Total Volume Removed (L):	4.5
Total Time to Purge Well (h:min):	0 :30: 0
Did the well go dry while purging?	No
Where was the purged water disposed?	Bucket

Well Purging Record Table

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation		**Project No.:**	H/375313	
Monitoring Well ID:	MW24-17					**Responsible Professional:**	O. Salvucci		
Volume Number	**Time**	**Volume Removed (L)**	**Water Depth (m)**	**Temperature (°C)**	**pH**	**Electrical Conductivity (mS/cm)**	**Dissolved Oxygen (mg/L)**	**Oxidation Reduction Potential (mV)**	**Appearance/Odour**
1	14:58	0.5	2.22	7.2	6.45	994	1.22	-4.1	Orange, turbid
1	15:01	0.5	2.3	7.3	6.52	989	0.84	-17.5	Orange, turbid, slight phc
1	15:04	0.5	2.34	7.3	6.56	987	0.8	-24.1	Orange, turbid
1	15:08	0.5	2.36	7.3	6.6	988	0.61	-29.4	Orange, turbid, moderate phc
1	15:12	0.5	2.36	7.5	6.57	992	0.48	-33.6	Orange, turbid, moderate phc
1	15:15	0.5	2.38	7.5	6.62	994	0.44	-37.2	Orange, turbid, moderate phc
1	15:19	0.5	2.38	7.5	6.64	995	0.41	-40.8	Orange, turbid, moderate phc
Sampling Information									

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW24-17			**Responsible Professional:**	O. Salvucci
Sampling Date and Time:	March 20, 2025 3:30 PM			General Parameters Sampled:	Phc, pah, btex, lead, mtve
Sample Depth (m):	4.2			Total Number of Bottles:	5
Physical Description of Sample:	Orange, turbid, moderate phc			Final Water Depth (m)	2.29

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW24-22			**Responsible Professional:**	O. Salvucci

General Information

MECP Monitoring Well ID:		Driller:	LandHark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 20, 2025 4:18 PM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 20, 2025 4:18 PM

Monitoring Well Dimensions and Volume

Measurement Date and Time:	March 20, 2025 4:18 PM
Internal Diameter of Well (m):	0.05
Initial Depth to Bottom of Well (m):	4.24
Initial Static Water Depth (m)	2.28
Is there a difference measured depth to bottom of well from the borehole log?	Unknown
Monitoring Well Volume (L):	3.848
Minimum Required Volume to Purge Well (L):	March 20, 2025 4:26 PM

Headspace Vapour Readings

Parameter	Reading (ppm)
HEX	
IBL	
Methane	
Other Gases	

Additional Notes

Purging Information

Purging Date and Start Time:	March 20, 2025 5:01 PM
Flow Rate (L/min):	0.2
Total Volume Removed (L):	5
Total Time to Purge Well (h:min):	0 :45: 0
Did the well go dry while purging?	No
Where was the purged water disposed?	Bucket

Well Purging Record Table

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation			**Project No.:**	H/375313
Monitoring Well ID:	MW24-22					**Responsible Professional:**	O. Salvucci		
Volume Number	**Time**	**Volume Removed (L)**	**Water Depth (m)**	**Temperature (°C)**	**pH**	**Electrical Conductivity (mS/cm)**	**Dissolved Oxygen (mg/L)**	**Oxidation Reduction Potential (mV)**	**Appearance/Odour**
1	16:29	0.5	2.53	4.8	6.6	1,092	1.66	187.5	Orange, turbid, slight phc
1	16:32	0.5	2.67	5.2	6.64	1,101	1.02	121.3	Orange, turbid, slight phc
1	16:35	0.5	2.72	5.2	6.67	1,029	2.36	57.9	Yellow, turbid, slight phc
1	16:39	0.5	2.77	5.6	6.7	1,007	2.08	36	Yellow, turbid, moderate phc
1	16:47	0.5	2.67	6.2	6.73	1,084	0.52	15.2	Yellow, turbid, slight phc
1	16:50	0.5	2.79	6.4	6.77	1,113	0.43	5.1	Yellow, turbid, slight phc
1	16:53	0.5	2.85	6.2	6.77	1,105	0.43	-1.6	Yellow, turbid, slight phc

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation		**Project No.:**	H/375313	
Monitoring Well ID:	MW24-22					**Responsible Professional:**	O. Salvucci		
1	16:56	0.5	2.91	6.4	6.78	1,095	0.44	-10.7	Yellow, turbid, slight phc
1	16:59	0.5	2.95	6.3	6.79	1,078	0.46	-14.2	Yellow, turbid, slight phc

Sampling Information

Sampling Date and Time:	March 20, 2025 5:01 PM	General Parameters Sampled:	PHC, PAH, BTEX, LEAD, MTBE
Sample Depth (m):	3.90	Total Number of Bottles:	5
Physical Description of Sample:	Yellow, turbid, and slight PHC odour.	Final Water Depth (m)	2.63

Monitoring Well Purging and Sampling Record

Client:	ONTC	**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation	**Project No.:**	H/375313
Monitoring Well ID:	MW24-25			**Responsible Professional:**	OS

General Information

MECP Monitoring Well ID:		Driller:	Landshark
Type of Monitoring Well:	Flush Mount	Pump/Bailer Type:	March 19, 2025 1:19 PM
Depth Measurements Measured From:	Metres below ground surface (mbgs)	Date and Time of Well Installation:	March 19, 2025 1:19 PM

Monitoring Well Dimensions and Volume		**Headspace Vapour Readings**		**Purging Information**	
Measurement Date and Time:	March 19, 2025 1:20 PM	**Parameter**	**Reading (ppm)**	Purging Date and Start Time:	March 19, 2025 2:00 PM
Internal Diameter of Well (m):	0.05	HEX		Flow Rate (L/min):	0.2
Initial Depth to Bottom of Well (m):	1.8	IBL		Total Volume Removed (L):	6
Initial Static Water Depth (m)	1.07	Methane		Total Time to Purge Well (h:min):	0 :45: 0
		Other Gases			
Is there a difference measured depth to bottom of well from the borehole log?	Unknown	**Additional Notes**		Did the well go dry while purging?	No
				Where was the purged water disposed?	Soil drum
Monitoring Well Volume (L):	1.433				
Minimum Required Volume to Purge Well (L):	March 19, 2025 1:28 PM				

Well Purging Record Table

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation			**Project No.:**	H/375313
Monitoring Well ID:	MW24-25					**Responsible Professional:**	OS		
Volume Number	**Time**	**Volume Removed (L)**	**Water Depth (m)**	**Temperature (°C)**	**pH**	**Electrical Conductivity (mS/cm)**	**Dissolved Oxygen (mg/L)**	**Oxidation Reduction Potential (mV)**	**Appearance/Odour**
1	13:34	0.25	1.12	2.5	6.35	1,015	8.64	217.7	Turbid yellowish briwn, no odour
1	13:37	0.25	1.12	2.5	6.95	1,082	7.84	211.6	Turbid, light yellow, slight phc odour
1	13:40	0.25	1.14	1.7	6.9	1,113	8.12	209.2	Turbid, light yellow, no odour
1	13:42	0.25	1.15	1.7	6.97	1,164	8.08	204.5	Less turbid
1	13:45	0.25	1.16	1.6	7.03	1,150	7.87	201.7	Some turbidity, yellow tinge
1	13:48	0.25	1.17	1.8	7.22	1,174	7.7	200	Little turbid, no odour
1	13:51	0.25	1.17	1.7	7.11	1,189	7.56	198.9	Less turbid

Monitoring Well Purging and Sampling Record

Client:	ONTC			**Project Title:**	North Bay Shop Complex 2024 Geoenvironmental Investigation			**Project No.:**	H/375313
Monitoring Well ID:	MW24-25					**Responsible Professional:**	OS		
1	13:56	0.5	1.17	1.6	7.09	1,212	7.36	196.8	Slight yellow tinge, no odour
1	13:59	0.5	1.17	1.7	7.05	1,212	8.49	194.7	
1	14:02	0.5	1.18	1.7	6.96	1,235	7.21	197	Clear
1	14:05	0.5	1.18	1.8	7.1	1,231	7.15	196.2	Clear
1	14:09	0.5	1.18	1.7	7.03	1,240	7.12	197.2	Clear
1	14:12	0.5	1.18	1.8	7.03	1,254	6.85	196.3	Clear

Sampling Information

Sampling Date and Time:	March 19, 2025 2:00 PM	General Parameters Sampled:	Lead, phc, pah,mtbe
Sample Depth (m):	1.65	Total Number of Bottles:	5
Physical Description of Sample:	Clear	Final Water Depth (m)	1.12

Appendix E
Certificates of Analysis

CERTIFICATE OF ANALYSIS

Work Order	:	**WT2506001**			
Amendment	:	**1**			
Client	:	**Hatch Ltd.**	Laboratory	:	ALS Environmental - Waterloo
Contact	:	Owen Salvucci	Account Manager	:	Andrew Martin
Address	:	2599 Speakman Drive Mississauga Ontario Canada L5K 2R7	Address	:	60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	:	----	E-mail	:	andrew.martin@alsglobal.com
Project	:	H/368027 (NB RIP TRACK)	Telephone	:	+1 519 886 6910
PO	:	----	Date Samples Received	:	24-Mar-2025 11:30
C-O-C number	:	23-1116791	Date Analysis Commenced	:	24-Mar-2025
Sampler	:	----	Issue Date	:	16-Jun-2025 15:38
Site	:	----			
Quote number	:	Ontario 2024/2025 SOA			
No. of samples received	:	2			
No. of samples analysed	:	2			

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*
Amaninder Dhillon		Organics, Waterloo, Ontario
Danielle Gravel		Organics, Waterloo, Ontario
Greg Pokocky		Inorganics, Waterloo, Ontario
Greg Pokocky		Metals, Waterloo, Ontario
Hannah Lewis		Inorganics, Waterloo, Ontario
Jocelyn Kennedy		Organics, Waterloo, Ontario
Johanna Vargas		Microbiology, Waterloo, Ontario
Kelly Fischer		Inorganics, Waterloo, Ontario
Sarah Birch		VOC, Waterloo, Ontario
Stephanie Pinheiro		LCMS, Waterloo, Ontario
Walt Kippenhuck		Inorganics, 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).

Unit	*Description*
CFU/100mL	colony forming units per hundred millilitres
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre

<: less than.
>: greater than.
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.

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

Amendment (16/Jun/2025): This report has been amended to include requested guideline(s). All analysis results are as per the previous report.

Qualifiers

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
PEHR	Parameter exceeded recommended holding time on receipt: Proceeded with analysis as requested.
SLMI	Surrogate recovery was outside ALS DQO (Low) due to Matrix Interference

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MW25-01	MW25-02	----	----	----
					Client sampling date / time	20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
						WT2506001-001	WT2506001-002	----	----	----
						Result	Result	----	----	----
Physical Tests										
pH	----	E108/WT	0.10	pH units		6.83	6.68	----	----	----
Solids, total suspended [TSS]	----	E160/WT	3.0	mg/L		699 DLHC	61.3	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L		1.24	1.41	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L		0.116	0.135	----	----	----
Kjeldahl nitrogen, total [TKN]	----	E318/WT	0.050	mg/L		1.90	1.82	----	----	----
Phosphorus, total	7723-14-0	E372-U/WT	0.0020	mg/L		0.285	0.0994	----	----	----
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L		<0.0020	<0.0020	----	----	----
Inorganics										
Chlorine, total	7782-50-5	E326/WT	0.050	mg/L		<0.500 DLM, PEHR	<0.500 DLM, PEHR	----	----	----
Microbiological Tests										
Coliforms, Escherichia coli [E. coli]	----	E012A.EC/WT	1	CFU/100 mL		Not Detected PEHR	Not Detected PEHR	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/WT	0.0030	mg/L		7.56 DLHC	1.02 DLHC	----	----	----
Antimony, total	7440-36-0	E420/WT	0.00010	mg/L		<0.00100 DLHC	<0.00100 DLHC	----	----	----
Arsenic, total	7440-38-2	E420/WT	0.00010	mg/L		0.00346 DLHC	0.0125 DLHC	----	----	----
Cadmium, total	7440-43-9	E420/WT	0.0000050	mg/L		0.000418 DLHC	<0.0000500 DLHC	----	----	----
Chromium, total	7440-47-3	E420/WT	0.00050	mg/L		0.0314 DLHC	0.00776 DLHC	----	----	----
Cobalt, total	7440-48-4	E420/WT	0.00010	mg/L		0.00604 DLHC	0.00522 DLHC	----	----	----
Copper, total	7440-50-8	E420/WT	0.00050	mg/L		0.166 DLHC	<0.00500 DLHC	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	MW25-01	MW25-02	----	----	----
Client sample ID					MW25-01	MW25-02	----	----	----
Client sampling date / time					20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
					WT2506001-001	WT2506001-002	----	----	----
					Result	Result	----	----	----
Total Metals									
Lead, total	7439-92-1	E420/WT	0.000050	mg/L	0.0220 DLHC	<0.000500 DLHC	----	----	----
Manganese, total	7439-96-5	E420/WT	0.00010	mg/L	0.768 DLHC	0.826 DLHC	----	----	----
Mercury, total	7439-97-6	E508/WT	0.0000050	mg/L	0.0000061	<0.0000050	----	----	----
Molybdenum, total	7439-98-7	E420/WT	0.000050	mg/L	0.00182 DLHC	0.00226 DLHC	----	----	----
Nickel, total	7440-02-0	E420/WT	0.00050	mg/L	0.0160 DLHC	<0.00500 DLHC	----	----	----
Selenium, total	7782-49-2	E420/WT	0.000050	mg/L	<0.000500 DLHC	<0.000500 DLHC	----	----	----
Silver, total	7440-22-4	E420/WT	0.000010	mg/L	0.000607 DLHC	<0.000100 DLHC	----	----	----
Tin, total	7440-31-5	E420/WT	0.00010	mg/L	<0.00100 DLHC	<0.00100 DLHC	----	----	----
Titanium, total	7440-32-6	E420/WT	0.00030	mg/L	0.553 DLHC	0.0502 DLHC	----	----	----
Zinc, total	7440-66-6	E420/WT	0.0030	mg/L	0.173 DLHC	<0.0300 DLHC	----	----	----
Speciated Metals									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/WT	0.00050	mg/L	<0.00050	<0.00050	----	----	----
Aggregate Organics									
Biochemical oxygen demand [BOD]	----	E550/WT	2.0	mg/L	5.4	6.2	----	----	----
Oil & grease (gravimetric)	----	E567/WT	5.0	mg/L	<5.0	<5.0	----	----	----
Oil & grease, animal/vegetable (gravimetric)	----	EC567A.SG/WT	5.0	mg/L	<5.0	<5.0	----	----	----
Oil & grease, mineral (gravimetric)	----	E567SG/WT	5.0	mg/L	<5.0	<5.0	----	----	----
Phenols, total (4AAP)	----	E562/WT	0.0010	mg/L	0.0012	<0.0010	----	----	----
Volatile Organic Compounds									
Benzene	71-43-2	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	MW25-01	MW25-02	----	----	----
Client sample ID					MW25-01	MW25-02	----	----	----
Client sampling date / time					20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
					WT2506001-001	WT2506001-002	----	----	----
					Result	Result	----	----	----
Volatile Organic Compounds									
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	98.1	99.6	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	98.9	98.2	----	----	----
Polycyclic Aromatic Hydrocarbons									
Anthracene	120-12-7	E641A-L/WT	0.000010	mg/L	<0.000010	<0.000010	----	----	----
Benz(a)anthracene	56-55-3	E641A-L/WT	0.000010	mg/L	0.000015	<0.000010	----	----	----
Benzo(a)pyrene	50-32-8	E641A-L/WT	0.0000050	mg/L	0.0000128	<0.0000050	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A-L/WT	0.000010	mg/L	0.000025	<0.000010	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	MW25-01	MW25-02	----	----	----
Client sample ID					MW25-01	MW25-02	----	----	----
Client sampling date / time					20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
					WT2506001-001	WT2506001-002	----	----	----
					Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons									
Benzo(e)pyrene	192-97-2	E641A-L/WT	0.000010	mg/L	0.000016	<0.000010	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A-L/WT	0.000010	mg/L	0.000012	<0.000010	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A-L/WT	0.000010	mg/L	0.000010	<0.000010	----	----	----
Chrysene	218-01-9	E641A-L/WT	0.000010	mg/L	0.000021	<0.000010	----	----	----
Dibenz(a,h)acridine	226-36-8	E642D/WT	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A-L/WT	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----
Dibenz(a,j)acridine	224-42-0	E642D/WT	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Dibenzo(a,i)pyrene	189-55-9	E642D/WT	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Dibenzo(c,g)carbazole, 7H-	194-59-2	E642D/WT	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Dinitropyrene, 1,3-	75321-20-9	E642D/WT	0.0010	mg/L	<0.0010	<0.0010	----	----	----
Dinitropyrene, 1,6-	42397-64-8	E642D/WT	0.0010	mg/L	<0.0010	<0.0010	----	----	----
Dinitropyrene, 1,8-	42397-65-9	E642D/WT	0.0010	mg/L	<0.0010	<0.0010	----	----	----
Fluoranthene	206-44-0	E641A-L/WT	0.000010	mg/L	0.000056	<0.000010	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L/WT	0.000010	mg/L	0.000012	<0.000010	----	----	----
Methylcholanthrene, 3-	56-49-5	E642D/WT	0.000050	mg/L	<0.000050	<0.000050	----	----	----
Perylene	198-55-0	E641A-L/WT	0.000010	mg/L	0.000043	0.000015	----	----	----
Phenanthrene	85-01-8	E641A-L/WT	0.000010	mg/L	0.000035	<0.000010	----	----	----
Pyrene	129-00-0	E641A-L/WT	0.000010	mg/L	0.000049	<0.000010	----	----	----
PAHs, total (ON Sewer Use)	n/a	EC640A/WT	0.00175	mg/L	<0.00175	<0.00175	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A-L/WT	0.1	%	114	115	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	MW25-01	MW25-02	----	----	----
Client sample ID					MW25-01	MW25-02	----	----	----
Client sampling date / time					20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
					WT2506001-001	WT2506001-002	----	----	----
					Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Naphthalene-d8	1146-65-2	E641A-L/WT	0.1	%	98.8	96.5	----	----	----
Phenanthrene-d10	1517-22-2	E641A-L/WT	0.1	%	106	104	----	----	----
Terphenyl-d14, p-	1718-51-0	E642D/WT	0.1	%	100	121	----	----	----
Phthalate Esters									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A/WT	0.60	µg/L	<0.60	<0.60	----	----	----
Di-n-butyl phthalate	84-74-2	E625A/WT	1.0	µg/L	<1.0	<1.0	----	----	----
Semi-Volatile Organics									
Dichlorobenzidine, 3,3'-	91-94-1	E625A/WT	0.40	µg/L	<0.40	<0.40	----	----	----
Semi-Volatile Organics Surrogates									
Fluorobiphenyl, 2-	321-60-8	E625A/WT	1.0	%	85.0	90.0	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	1.0	%	96.0	93.4	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	1.0	%	72.0	71.6	----	----	----
Chlorinated Phenolics									
Pentachlorophenol [PCP]	87-86-5	E625A/WT	0.50	µg/L	<0.50	<0.50	----	----	----
Phenolics Surrogates									
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	0.50	%	93.9	100	----	----	----
Nonylphenols									
Nonylphenol [NP]	84852-15-3	E749A/WT	0.40	µg/L	<0.40	<0.40	----	----	----
Nonylphenol diethoxylate [NP2EO]	20427-84-3	E749B/WT	0.10	µg/L	<0.10	<0.10	----	----	----
Nonylphenol ethoxylates, mono+di	n/a	E749B/WT	2.0	µg/L	<2.0	<2.0	----	----	----
Nonylphenol monoethoxylate [NP1EO]	27986-36-3	E749B/WT	0.40	µg/L	<0.40	<0.40	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: MW25-01	MW25-02	----	----	----
					Client sampling date / time: 20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
					WT2506001-001	WT2506001-002	----	----	----
					Result	Result	----	----	----
Polychlorinated Biphenyls									
Aroclor 1016	12674-11-2	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1221	11104-28-2	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1232	11141-16-5	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1242	53469-21-9	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1248	12672-29-6	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1254	11097-69-1	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1260	11096-82-5	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1262	37324-23-5	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Aroclor 1268	11100-14-4	E687/WT	0.020	µg/L	<0.020	<0.020	----	----	----
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.060	µg/L	<0.060	<0.060	----	----	----
Polychlorinated Biphenyls Surrogates									
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%	60.1	79.4	----	----	----
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%	87.2	83.5	----	----	----
Organochlorine Pesticides									
Aldrin	309-00-2	E660F/WT	0.0080	µg/L	<0.0080	<0.0080	----	----	----
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	0.0080	µg/L	<0.0080	<0.0080	----	----	----
Chlordane, total	57-74-9	E660F/WT	0.011	µg/L	<0.011	<0.011	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	0.0080	µg/L	<0.0080	<0.0080	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	0.0040	µg/L	<0.0040	<0.0040	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	0.0040	µg/L	<0.0040	<0.0040	----	----	----
DDD, total	----	E660F/WT	0.0060	µg/L	<0.0060	<0.0060	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	MW25-01	MW25-02	----	----	----
					Client sampling date / time	20-Mar-2025 11:00	21-Mar-2025 10:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WT2506001-001	WT2506001-002	----	----	----
						Result	Result	----	----	----
Organochlorine Pesticides										
DDE, 2,4'-	3424-82-6	E660F/WT	0.0040	µg/L		<0.0040	<0.0040	----	----	----
DDE, 4,4'-	72-55-9	E660F/WT	0.0040	µg/L		<0.0040	<0.0040	----	----	----
DDE, total	----	E660F/WT	0.0060	µg/L		<0.0060	<0.0060	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	0.0040	µg/L		<0.0040	<0.0040	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	0.0040	µg/L		<0.0040	<0.0040	----	----	----
DDT, total	----	E660F/WT	0.0060	µg/L		<0.0060	<0.0060	----	----	----
Dieldrin	60-57-1	E660F/WT	0.0080	µg/L		<0.0080	<0.0080	----	----	----
Hexachlorobenzene	118-74-1	E660F/WT	0.0080	µg/L		<0.0080	<0.0080	----	----	----
Hexachlorocyclohexane, gamma-	58-89-9	E660F/WT	0.0080	µg/L		<0.0080	<0.0080	----	----	----
Mirex	2385-85-5	E660F/WT	0.0080	µg/L		<0.0080	<0.0080	----	----	----
Aldrin + Dieldrin	----	E660F/WT	0.011	µg/L		<0.011	<0.011	----	----	----
DDT + metabolites, total	----	E660F/WT	0.010	µg/L		<0.010	<0.010	----	----	----
Organochlorine Pesticides Surrogates										
Decachlorobiphenyl	2051-24-3	E660F/WT	0.10	%		47.7 SLMI	64.2	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	0.10	%		108	105	----	----	----

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

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2506001**	Page	: 1 of 17
Amendment	: 1		
Client	: **Hatch Ltd.**	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Issue Date	: 16-Jun-2025 15:37
C-O-C number	: 23-1116791		
Sampler	: ----		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 2		
No. of samples analysed	: 2		

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 Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Test sample Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Polycyclic Aromatic Hydrocarbons	QC-1925552-002	----	Dibenz(a,h)acridine	226-36-8	E642D	137 % LCS-H	60.0-130%	Recovery greater than upper control limit
Polycyclic Aromatic Hydrocarbons	QC-1925552-002	----	Dibenz(a,j)acridine	224-42-0	E642D	145 % LCS-H	60.0-130%	Recovery greater than upper control limit
Polycyclic Aromatic Hydrocarbons	QC-1925552-002	----	Dibenzo(c,g)carbazole, 7H-	194-59-2	E642D	140 % LCS-H	60.0-130%	Recovery greater than upper control limit
Polycyclic Aromatic Hydrocarbons	QC-1925552-002	----	Methylcholanthrene, 3-	56-49-5	E642D	147 % LCS-H	60.0-130%	Recovery greater than upper control limit

Result Qualifiers

Qualifier	*Description*
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

Regular Sample Surrogates

Sub-Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Result	Limits	Comment
Samples Submitted							
Organochlorine Pesticides Surrogates	WT2506001-001	MW25-01	Decachlorobiphenyl	2051-24-3	47.7 %	50.0-130 %	Recovery less than lower data quality objective

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*
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW25-02	E550	21-Mar-2025	----	----	----		24-Mar-2025	4 days	3 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-4d] MW25-01	E550	20-Mar-2025	----	----	----		24-Mar-2025	4 days	4 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW25-02	E567SG	21-Mar-2025	27-Mar-2025	28 days	6 days	✓	28-Mar-2025	28 days	6 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW25-01	E567SG	20-Mar-2025	27-Mar-2025	28 days	7 days	✓	28-Mar-2025	28 days	7 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW25-02	E567	21-Mar-2025	27-Mar-2025	28 days	6 days	✓	28-Mar-2025	28 days	6 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) MW25-01	E567	20-Mar-2025	27-Mar-2025	28 days	7 days	✓	28-Mar-2025	28 days	7 days	✓
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) MW25-02	E562	21-Mar-2025	26-Mar-2025	28 days	5 days	✓	26-Mar-2025	28 days	5 days	✓

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
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid)										
MW25-01	E562	20-Mar-2025	26-Mar-2025	28 days	6 days	✓	26-Mar-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)										
MW25-02	E298	21-Mar-2025	26-Mar-2025	28 days	5 days	✓	26-Mar-2025	28 days	5 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)										
MW25-01	E298	20-Mar-2025	26-Mar-2025	28 days	6 days	✓	26-Mar-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
MW25-02	E235.F	21-Mar-2025	27-Mar-2025	28 days	6 days	✓	28-Mar-2025	28 days	6 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP]										
MW25-01	E235.F	20-Mar-2025	27-Mar-2025	28 days	7 days	✓	28-Mar-2025	28 days	7 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
MW25-02	E318	21-Mar-2025	27-Mar-2025	28 days	6 days	✓	27-Mar-2025	28 days	6 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid)										
MW25-01	E318	20-Mar-2025	27-Mar-2025	28 days	7 days	✓	27-Mar-2025	28 days	7 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
MW25-02	E372-U	21-Mar-2025	27-Mar-2025	28 days	6 days	✓	27-Mar-2025	28 days	6 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
MW25-01	E372-U	20-Mar-2025	27-Mar-2025	28 days	7 days	✓	27-Mar-2025	28 days	7 days	✓

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
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-02	E625A	21-Mar-2025	26-Mar-2025	14 days	5 days	✓	26-Mar-2025	40 days	0 days	✓
Chlorinated Phenolics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-01	E625A	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	0 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide)										
MW25-02	E333	21-Mar-2025	25-Mar-2025	14 days	4 days	✓	25-Mar-2025	14 days	4 days	✓
Cyanides : Total Cyanide										
Opaque HDPE - total (sodium hydroxide)										
MW25-01	E333	20-Mar-2025	25-Mar-2025	14 days	5 days	✓	25-Mar-2025	14 days	5 days	✓
Inorganics : Total Chlorine (Residual) by DPD Colourimetry										
HDPE [ON MECP]										
MW25-02	E326	21-Mar-2025	----	----	----		26-Mar-2025	0.25 hrs	116 hrs	× EHTR-FM
Inorganics : Total Chlorine (Residual) by DPD Colourimetry										
HDPE [ON MECP]										
MW25-01	E326	20-Mar-2025	----	----	----		26-Mar-2025	0.25 hrs	140 hrs	× EHTR-FM
Microbiological Tests : E. coli (MF-mFC-BCIG)										
Sterile HDPE (sodium thiosulfate) [ON MECP]										
MW25-01	E012A.EC	20-Mar-2025	----	----	----		25-Mar-2025	48 hrs	122 hrs	× EHTR
Microbiological Tests : E. coli (MF-mFC-BCIG)										
Sterile HDPE (sodium thiosulfate) [ON MECP]										
MW25-02	E012A.EC	21-Mar-2025	----	----	----		25-Mar-2025	48 hrs	99 hrs	× EHTR
Nonylphenols : Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode										
Amber glass/Teflon lined cap - LCMS										
MW25-02	E749B	21-Mar-2025	25-Mar-2025	7 days	4 days	✓	25-Mar-2025	7 days	0 days	✓

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
Nonylphenols : Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode										
Amber glass/Teflon lined cap - LCMS										
MW25-01	E749B	20-Mar-2025	25-Mar-2025	7 days	5 days	✓	25-Mar-2025	7 days	0 days	✓
Nonylphenols : Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode										
Amber glass/Teflon lined cap - LCMS										
MW25-02	E749A	21-Mar-2025	25-Mar-2025	7 days	4 days	✓	25-Mar-2025	7 days	0 days	✓
Nonylphenols : Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode										
Amber glass/Teflon lined cap - LCMS										
MW25-01	E749A	20-Mar-2025	25-Mar-2025	7 days	5 days	✓	25-Mar-2025	7 days	0 days	✓
Organochlorine Pesticides : OCP Analysis by GC-MS-MS										
Amber glass/Teflon lined cap										
MW25-02	E660F	21-Mar-2025	26-Mar-2025	7 days	5 days	✓	27-Mar-2025	40 days	1 days	✓
Organochlorine Pesticides : OCP Analysis by GC-MS-MS										
Amber glass/Teflon lined cap										
MW25-01	E660F	20-Mar-2025	26-Mar-2025	7 days	6 days	✓	27-Mar-2025	40 days	1 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-02	E625A	21-Mar-2025	26-Mar-2025	14 days	5 days	✓	26-Mar-2025	40 days	0 days	✓
Phthalate Esters : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-01	E625A	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	0 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP]										
MW25-02	E108	21-Mar-2025	27-Mar-2025	14 days	6 days	✓	27-Mar-2025	14 days	6 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP]										
MW25-01	E108	20-Mar-2025	27-Mar-2025	14 days	7 days	✓	27-Mar-2025	14 days	7 days	✓

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
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP]										
MW25-02	E160	21-Mar-2025	----	----	----		27-Mar-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE [ON MECP]										
MW25-01	E160	20-Mar-2025	----	----	----		27-Mar-2025	7 days	7 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap										
MW25-02	E687	21-Mar-2025	26-Mar-2025	365 days	5 days	✓	26-Mar-2025	40 days	0 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Amber glass/Teflon lined cap										
MW25-01	E687	20-Mar-2025	26-Mar-2025	365 days	6 days	✓	26-Mar-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs (ON Special List) by GC-MS										
Amber glass/Teflon lined cap										
MW25-02	E642D	21-Mar-2025	27-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs (ON Special List) by GC-MS										
Amber glass/Teflon lined cap										
MW25-01	E642D	20-Mar-2025	27-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW25-02	E641A-L	21-Mar-2025	28-Mar-2025	14 days	7 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS (Low Level)										
Amber glass/Teflon lined cap (sodium bisulfate)										
MW25-01	E641A-L	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-02	E625A	21-Mar-2025	26-Mar-2025	14 days	5 days	✓	26-Mar-2025	40 days	0 days	✓

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
Semi-Volatile Organics : BNA (Routine List) by GC-MS-MS										
Amber glass/Teflon lined septa cap - SVOCs (sodium thiosulfate) [ON MECP]										
MW25-01	E625A	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	0 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
HDPE - total (NaOH+Buf) [ON MECP]										
MW25-02	E532	21-Mar-2025	----	----	----		26-Mar-2025	28 days	5 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
HDPE - total (NaOH+Buf) [ON MECP]										
MW25-01	E532	20-Mar-2025	----	----	----		26-Mar-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW25-02	E508	21-Mar-2025	25-Mar-2025	28 days	4 days	✓	25-Mar-2025	28 days	4 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
MW25-01	E508	20-Mar-2025	25-Mar-2025	28 days	5 days	✓	25-Mar-2025	28 days	5 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
MW25-02	E420	21-Mar-2025	25-Mar-2025	180 days	4 days	✓	25-Mar-2025	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
MW25-01	E420	20-Mar-2025	25-Mar-2025	180 days	5 days	✓	25-Mar-2025	180 days	5 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW25-02	E611D	21-Mar-2025	26-Mar-2025	14 days	5 days	✓	26-Mar-2025	14 days	5 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
MW25-01	E611D	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

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)							
E. coli (MF-mFC-BCIG)	E012A.EC	1923835	1	11	9.0	5.0	✓
pH by Meter	E108	1926876	1	17	5.8	5.0	✓
TSS by Gravimetry	E160	1925516	2	40	5.0	4.7	✓
Fluoride in Water by IC	E235.F	1926871	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1925009	1	19	5.2	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1925005	1	20	5.0	5.0	✓
Total Chlorine (Residual) by DPD Colourimetry	E326	1924755	1	9	11.1	5.0	✓
Total Cyanide	E333	1922782	1	13	7.6	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1925007	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1922609	1	15	6.6	5.0	✓
Total Mercury in Water by CVAAS	E508	1922826	1	7	14.2	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1925175	1	17	5.8	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1921698	1	8	12.5	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1925010	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1924716	1	20	5.0	5.0	✓
Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode	E749A	1922807	1	4	25.0	5.0	✓
Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode	E749B	1922808	1	4	25.0	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter	E108	1926876	1	17	5.8	5.0	✓
TSS by Gravimetry	E160	1925516	2	40	5.0	4.7	✓
Fluoride in Water by IC	E235.F	1926871	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1925009	1	19	5.2	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1925005	1	20	5.0	5.0	✓
Total Chlorine (Residual) by DPD Colourimetry	E326	1924755	1	9	11.1	5.0	✓
Total Cyanide	E333	1922782	1	13	7.6	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1925007	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1922609	1	15	6.6	5.0	✓
Total Mercury in Water by CVAAS	E508	1922826	1	7	14.2	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1925175	1	17	5.8	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1921698	1	8	12.5	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1925010	1	14	7.1	5.0	✓
Oil & Grease by Gravimetry	E567	1927263	1	5	20.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	1927264	1	3	33.3	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1924716	1	20	5.0	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1924585	1	15	6.6	5.0	✓
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L	1928702	1	3	33.3	5.0	✓

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 Control Samples (LCS) - Continued							
PAHs (ON Special List) by GC-MS	E642D	1925552	1	4	25.0	5.0	✓
OCP Analysis by GC-MS-MS	E660F	1925063	1	6	16.6	5.0	✓
PCB Aroclors by GC-MS	E687	1925062	1	4	25.0	4.7	✓
Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode	E749A	1922807	1	4	25.0	5.0	✓
Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode	E749B	1922808	1	4	25.0	5.0	✓
Method Blanks (MB)							
E. coli (MF-mFC-BCIG)	E012A.EC	1923835	1	11	9.0	5.0	✓
TSS by Gravimetry	E160	1925516	2	40	5.0	4.7	✓
Fluoride in Water by IC	E235.F	1926871	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1925009	1	19	5.2	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1925005	1	20	5.0	5.0	✓
Total Chlorine (Residual) by DPD Colourimetry	E326	1924755	1	9	11.1	5.0	✓
Total Cyanide	E333	1922782	1	13	7.6	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1925007	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1922609	1	15	6.6	5.0	✓
Total Mercury in Water by CVAAS	E508	1922826	1	7	14.2	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1925175	1	17	5.8	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	1921698	1	8	12.5	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1925010	1	14	7.1	5.0	✓
Oil & Grease by Gravimetry	E567	1927263	1	5	20.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	1927264	1	3	33.3	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1924716	1	20	5.0	5.0	✓
BNA (Routine List) by GC-MS-MS	E625A	1924585	1	15	6.6	5.0	✓
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L	1928702	1	3	33.3	5.0	✓
PAHs (ON Special List) by GC-MS	E642D	1925552	1	4	25.0	5.0	✓
OCP Analysis by GC-MS-MS	E660F	1925063	1	6	16.6	5.0	✓
PCB Aroclors by GC-MS	E687	1925062	1	4	25.0	4.7	✓
Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode	E749A	1922807	1	4	25.0	5.0	✓
Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode	E749B	1922808	1	4	25.0	5.0	✓
Matrix Spikes (MS)							
Fluoride in Water by IC	E235.F	1926871	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1925009	1	19	5.2	5.0	✓
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1925005	1	20	5.0	5.0	✓
Total Chlorine (Residual) by DPD Colourimetry	E326	1924755	1	9	11.1	5.0	✓
Total Cyanide	E333	1922782	1	13	7.6	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1925007	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1922609	1	15	6.6	5.0	✓
Total Mercury in Water by CVAAS	E508	1922826	1	7	14.2	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1925175	1	17	5.8	5.0	✓

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*
Matrix Spikes (MS) - Continued							
Phenols (4AAP) in Water by Colorimetry	E562	1925010	1	14	7.1	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1924716	1	20	5.0	5.0	✓
Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode	E749A	1922807	1	4	25.0	5.0	✓
Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode	E749B	1922808	1	4	25.0	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
E. coli (MF-mFC-BCIG)	E012A.EC ALS Environmental - Waterloo	Water	APHA 9222D (mod)	Following filtration (0.45 µm), and incubation at 44.5±0.2°C for 24 hours, colonies exhibiting characteristic morphology of the target organism are enumerated.
pH by Meter	E108 ALS Environmental - Waterloo	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 ALS Environmental - Waterloo	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Fluoride in Water by IC	E235.F ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021).
Total Chlorine (Residual) by DPD Colourimetry	E326 ALS Environmental - Waterloo	Water	APHA 4500-Cl G (mod)	Chlorine (residual), as free or total, is analyzed using the DPD colourimetric method. The recommended hold time for this test is 15 minutes and field testing is recommended when determining Chlorine concentrations at the time of sampling. Chlorine if present in a sample container after sampling can be rapidly consumed by any inorganic or organic matter in the sample and dissipates rapidly into headspace. Laboratory results may be requested when chlorine concentrations that may be present at the time of laboratory analysis are required for the interpretation of other laboratory analysis where the presence of Chlorine may affect results. e.g. laboratory toxicity testing

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Cyanide	E333 ALS Environmental - Waterloo	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Waterloo	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Waterloo	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Total Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. Results are based on an un-filtered, field-preserved sample.
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Waterloo	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Phenols (4AAP) in Water by Colorimetry	E562 ALS Environmental - Waterloo	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide ($K_3Fe(CN)_6$) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.
Oil & Grease by Gravimetry	E567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Mineral Oil & Grease by Gravimetry	E567SG ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane, followed by silica gel treatment after which the extract is evaporated to dryness. The residue is then weighed to determine Mineral Oil and Grease.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D 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.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
BNA (Routine List) by GC-MS-MS	E625A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	BNA are analyzed by GC-MS-MS.
PAHs in Water by Hexane LVI GC-MS (Low Level)	E641A-L ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
PAHs (ON Special List) by GC-MS	E642D ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by GC-MS.
OCP Analysis by GC-MS-MS	E660F ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Pesticides are analyzed by GC-MS-MS
PCB Aroclors by GC-MS	E687 ALS Environmental - Waterloo	Water	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
Nonylphenol, Octylphenol and BPA in Water by LC-MS-MS Negative Mode	E749A ALS Environmental - Waterloo	Water	ASTM D7485-16 (mod)	An aliquot of 5.0 mL of sample is spiked with internal standards and analyzed by Direct Aqueous Injection and LC-MS-MS-Negative mode.
Nonylphenol Ethoxylates in Water by LC-MS-MS Positive Mode	E749B ALS Environmental - Waterloo	Water	ASTM D7485-16 (mod)	An aliquot of 5.0 mL of sample is spiked with internal standards and analyzed by Direct Aqueous Injection and LC-MS-MS.
Animal & Vegetable Oil & Grease by Gravimetry	EC567A.SG ALS Environmental - Waterloo	Water	APHA 5520 (mod)	Animal & vegetable oil and grease is calculated as follows: Oil & Grease (gravimetric) minus Mineral Oil & Grease (gravimetric)
Total PAH (Ontario Sewer Use Extended List)	EC640A ALS Environmental - Waterloo	Water	Calculation (Sum of the Squares)	Total PAH (Ontario Sewer Use) is the sum of the following PAHs: anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b+j)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-c,d)pyrene, phenanthrene, pyrene, benzo(e)pyrene, perylene, 3-methylcholanthrene, 1,3-dinitropyrene, 1,6-dinitropyrene, 1,8-dinitropyrene, 7H-dibenzo(c,g)carbazole, dibenzo(a,i)pyrene, dibenz(a,j)acridine, and dibenz(a,h)acridine. When the PAH is less than LOR, zero is used for calculation.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for TKN in water	EP318 ALS Environmental - Waterloo	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Waterloo	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Waterloo	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
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.
BNA Extraction	EP625 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	SVOCs are extracted from aqueous sample using DCM liquid-liquid extraction.
PAHs DCM Extraction	EP642 ALS Environmental - Waterloo	Water	EPA 3510C (mod)	PAH are extracted from aqueous sample using DCM liquid-liquid extraction.
Pesticides, PCB, and Neutral Extractable Chlorinated Hydrocarbons Extraction	EP660 ALS Environmental - Waterloo	Water	EPA 3511 (mod)	Samples are extracted from aqueous sample using an organic solvent liquid-liquid extraction.
Preparation of Nonylphenol and Nonylphenol Ethoxylates	EP749 ALS Environmental - Waterloo	Water	ASTM D7485-16 (mod)	An aliquot of 5.0 mL of sample is spiked with internal standards and analyzed by Direct Aqueous Injection and LC-MS/MS.

QUALITY CONTROL REPORT

Work Order	: **WT2506001**	Page	: 1 of 15
Amendment	: **1**		
Client	: Hatch Ltd.	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Date Analysis Commenced	: 24-Mar-2025
C-O-C number	: 23-1116791	Issue Date	: 16-Jun-2025 15:37
Sampler	: ----		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 2		
No. of samples analysed	: 2		

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*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Hannah Lewis	Inorganics Analyst	Waterloo Inorganics, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Johanna Vargas	Analyst	Waterloo Microbiology, Waterloo, Ontario
Kelly Fischer	Technical Specialist	Waterloo Inorganics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Stephanie Pinheiro	Team Leader - LCMS	Waterloo LCMS, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, 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*
Physical Tests (QC Lot: 1925516)											
WT2505908-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	5.8	7.8	2.0	Diff <2x LOR	----
Physical Tests (QC Lot: 1926753)											
WT2505975-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	8.9	8.9	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1926876)											
WT2505995-001	Anonymous	pH	----	E108	0.10	pH units	8.08	8.10	0.247%	4%	----
Anions and Nutrients (QC Lot: 1925005)											
HA2500722-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	0.500	mg/L	7.70	8.16	5.93%	20%	----
Anions and Nutrients (QC Lot: 1925007)											
HA2500721-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0200	mg/L	3.48	3.46	0.409%	20%	----
Anions and Nutrients (QC Lot: 1925009)											
HA2500604-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.250	mg/L	16.1	15.0	6.73%	20%	----
Anions and Nutrients (QC Lot: 1926871)											
WT2506040-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.063	0.062	0.0006	Diff <2x LOR	----
Cyanides (QC Lot: 1922782)											
WT2506001-001	MW25-01	Cyanide, strong acid dissociable (Total)	----	E333	0.0020	mg/L	<0.0020	<0.0020	0	Diff <2x LOR	----
Inorganics (QC Lot: 1924755)											
WT2505583-001	Anonymous	Chlorine, total	7782-50-5	E326	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Microbiological Tests (QC Lot: 1923835)											
WT2506093-001	Anonymous	Coliforms, Escherichia coli [E. coli]	----	E012A.EC	1	CFU/100mL	<1	<1	0	Diff <2x LOR	----
Total Metals (QC Lot: 1922609)											
HA2500740-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	46.2 µg/L	0.0454	1.67%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.22 µg/L	0.00022	0.000006	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0086 µg/L	0.0000105	0.0000019	Diff <2x LOR	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	<0.50 µg/L	<0.00050	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	33.6 µg/L	0.0332	1.38%	20%	----

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*
Total Metals (QC Lot: 1922609) - continued											
HA2500740-001	Anonymous	Molybdenum, total	7439-98-7	E420	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	1.33 µg/L	0.00134	0.00002	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.050 µg/L	<0.000050	0	Diff <2x LOR	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.010 µg/L	<0.000010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.10 µg/L	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00030	mg/L	<0.30 µg/L	<0.00030	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<3.0 µg/L	<0.0030	0	Diff <2x LOR	----
Total Metals (QC Lot: 1922826)											
WT2505820-001	Anonymous	Mercury, total	7439-97-6	E508	0.000100	mg/L	<0.100 µg/L	<0.000100	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1925175)											
WP2503851-021	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1921698)											
WT2505974-001	Anonymous	Biochemical oxygen demand [BOD]	----	E550	2.0	mg/L	46.3	43.9	5.2%	30%	----
Aggregate Organics (QC Lot: 1925010)											
WP2503861-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	<0.0010	0.0010	0.00002	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1924716)											
WT2505920-001	Anonymous	Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Nonylphenols (QC Lot: 1922807)											
WT2506011-001	Anonymous	Nonylphenol [NP]	84852-15-3	E749A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
Nonylphenols (QC Lot: 1922808)											
WT2506011-001	Anonymous	Nonylphenol diethoxylate [NP2EO]	20427-84-3	E749B	0.10	µg/L	<0.10	<0.10	0	Diff <2x LOR	----

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*
Nonylphenols (QC Lot: 1922808) - continued											
WT2506011-001	Anonymous	Nonylphenol monoethoxylate [NP1EO]	27986-36-3	E749B	0.40	µg/L	<0.40	<0.40	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
Physical Tests (QCLot: 1925516)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1926753)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Anions and Nutrients (QCLot: 1925005)						
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1925007)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1925009)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1926871)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Cyanides (QCLot: 1922782)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	<0.0020	----
Inorganics (QCLot: 1924755)						
Chlorine, total	7782-50-5	E326	0.05	mg/L	<0.050	----
Microbiological Tests (QCLot: 1923835)						
Coliforms, Escherichia coli [E. coli]	----	E012A.EC	1	CFU/100mL	<1	----
Total Metals (QCLot: 1922609)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1922609) - continued						
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Total Metals (QCLot: 1922826)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1925175)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1921698)						
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics (QCLot: 1925010)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Aggregate Organics (QCLot: 1927263)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 1927264)						
Oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	<5.0	----
Volatile Organic Compounds (QCLot: 1924716)						
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1925552)						
Dibenz(a,h)acridine	226-36-8	E642D	0.05	µg/L	<0.050	----
Dibenz(a,j)acridine	224-42-0	E642D	0.05	µg/L	<0.050	----
Dibenzo(a,i)pyrene	189-55-9	E642D	0.05	µg/L	<0.050	----
Dibenzo(c,g)carbazole, 7H-	194-59-2	E642D	0.05	µg/L	<0.050	----
Dinitropyrene, 1,3-	75321-20-9	E642D	1	µg/L	<1.0	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1925552) - continued						
Dinitropyrene, 1,6-	42397-64-8	E642D	1	µg/L	<1.0	----
Dinitropyrene, 1,8-	42397-65-9	E642D	1	µg/L	<1.0	----
Methylcholanthrene, 3-	56-49-5	E642D	0.05	µg/L	<0.050	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1928702)						
Anthracene	120-12-7	E641A-L	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	<0.010	----
Benzo(e)pyrene	192-97-2	E641A-L	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	<0.010	----
Perylene	198-55-0	E641A-L	0.01	µg/L	<0.010	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	<0.010	----
Pyrene	129-00-0	E641A-L	0.01	µg/L	<0.010	----
Phthalate Esters (QCLot: 1924585)						
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	<0.60	----
Di-n-butyl phthalate	84-74-2	E625A	1	µg/L	<1.0	----
Semi-Volatile Organics (QCLot: 1924585)						
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	<0.40	----
Chlorinated Phenolics (QCLot: 1924585)						
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	<0.50	----
Nonylphenols (QCLot: 1922807)						
Nonylphenol [NP]	84852-15-3	E749A	0.4	µg/L	<0.40	----
Nonylphenols (QCLot: 1922808)						
Nonylphenol diethoxylate [NP2EO]	20427-84-3	E749B	0.1	µg/L	<0.10	----
Nonylphenol monoethoxylate [NP1EO]	27986-36-3	E749B	0.4	µg/L	<0.40	----
Polychlorinated Biphenyls (QCLot: 1925062)						
Aroclor 1016	12674-11-2	E687	0.02	µg/L	<0.020	----
Aroclor 1221	11104-28-2	E687	0.02	µg/L	<0.020	----
Aroclor 1232	11141-16-5	E687	0.02	µg/L	<0.020	----
Aroclor 1242	53469-21-9	E687	0.02	µg/L	<0.020	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 1925062) - continued						
Aroclor 1248	12672-29-6	E687	0.02	µg/L	<0.020	----
Aroclor 1254	11097-69-1	E687	0.02	µg/L	<0.020	----
Aroclor 1260	11096-82-5	E687	0.02	µg/L	<0.020	----
Aroclor 1262	37324-23-5	E687	0.02	µg/L	<0.020	----
Aroclor 1268	11100-14-4	E687	0.02	µg/L	<0.020	----
Organochlorine Pesticides (QCLot: 1925063)						
Aldrin	309-00-2	E660F	0.008	µg/L	<0.0080	----
Chlordane, cis- (alpha)	5103-71-9	E660F	0.008	µg/L	<0.0080	----
Chlordane, trans- (gamma)	5103-74-2	E660F	0.008	µg/L	<0.0080	----
DDD, 2,4'-	53-19-0	E660F	0.004	µg/L	<0.0040	----
DDD, 4,4'-	72-54-8	E660F	0.004	µg/L	<0.0040	----
DDE, 2,4'-	3424-82-6	E660F	0.004	µg/L	<0.0040	----
DDE, 4,4'-	72-55-9	E660F	0.004	µg/L	<0.0040	----
DDT, 2,4'-	789-02-6	E660F	0.004	µg/L	<0.0040	----
DDT, 4,4'-	50-29-3	E660F	0.004	µg/L	<0.0040	----
Dieldrin	60-57-1	E660F	0.008	µg/L	<0.0080	----
Hexachlorobenzene	118-74-1	E660F	0.008	µg/L	<0.0080	----
Hexachlorocyclohexane, gamma-	58-89-9	E660F	0.008	µg/L	<0.0080	----
Mirex	2385-85-5	E660F	0.008	µg/L	<0.0080	----

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
Physical Tests (QCLot: 1925516)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	98.0	85.0	115	----
Physical Tests (QCLot: 1926753)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	99.8	85.0	115	----
Physical Tests (QCLot: 1926876)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Anions and Nutrients (QCLot: 1925005)									
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	4 mg/L	110	75.0	125	----
Anions and Nutrients (QCLot: 1925007)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.333 mg/L	97.2	80.0	120	----
Anions and Nutrients (QCLot: 1925009)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	99.4	85.0	115	----
Anions and Nutrients (QCLot: 1926871)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	102	90.0	110	----
Cyanides (QCLot: 1922782)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	93.2	80.0	120	----
Inorganics (QCLot: 1924755)									
Chlorine, total	7782-50-5	E326	0.05	mg/L	0.272 mg/L	114	75.0	125	----
Total Metals (QCLot: 1922609)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	0.1 mg/L	108	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	0.05 mg/L	103	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	0.05 mg/L	104	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.005 mg/L	95.6	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.012 mg/L	102	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.012 mg/L	91.9	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.012 mg/L	97.8	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.025 mg/L	104	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.012 mg/L	103	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.012 mg/L	94.6	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.025 mg/L	98.4	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1922609) - continued									
Selenium, total	7782-49-2	E420	0.00005	mg/L	0.05 mg/L	95.6	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.005 mg/L	96.6	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.025 mg/L	98.0	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.012 mg/L	101	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.025 mg/L	101	80.0	120	----
Total Metals (QCLot: 1922826)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	98.6	80.0	120	----
Speciated Metals (QCLot: 1925175)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	101	80.0	120	----
Aggregate Organics (QCLot: 1921698)									
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	96.8	85.0	115	----
Aggregate Organics (QCLot: 1925010)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	106	85.0	115	----
Aggregate Organics (QCLot: 1927263)									
Oil & grease (gravimetric)	----	E567	5	mg/L	200 mg/L	99.9	70.0	130	----
Aggregate Organics (QCLot: 1927264)									
Oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	100 mg/L	94.0	70.0	130	----
Volatile Organic Compounds (QCLot: 1924716)									
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	98.0	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	95.7	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	100.0	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	97.9	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	93.8	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	98.7	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	96.6	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	96.1	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	99.8	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	97.2	70.0	130	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	95.4	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	98.8	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1925552)									
Dibenz(a,h)acridine	226-36-8	E642D	0.05	µg/L	1.6 µg/L	# 137	60.0	130	LCS-H
Dibenz(a,j)acridine	224-42-0	E642D	0.05	µg/L	1.6 µg/L	# 145	60.0	130	LCS-H
Dibenzo(a,i)pyrene	189-55-9	E642D	0.05	µg/L	1.6 µg/L	104	60.0	130	----
Dibenzo(c,g)carbazole, 7H-	194-59-2	E642D	0.05	µg/L	1.6 µg/L	# 140	60.0	130	LCS-H
Dinitropyrene, 1,3-	75321-20-9	E642D	1	µg/L	1.6 µg/L	90.0	60.0	130	----
Dinitropyrene, 1,6-	42397-64-8	E642D	1	µg/L	1.6 µg/L	69.8	60.0	130	----
Dinitropyrene, 1,8-	42397-65-9	E642D	1	µg/L	1.6 µg/L	81.4	60.0	130	----
Methylcholanthrene, 3-	56-49-5	E642D	0.05	µg/L	1.6 µg/L	# 147	60.0	130	LCS-H
Polycyclic Aromatic Hydrocarbons (QCLot: 1928702)									
Anthracene	120-12-7	E641A-L	0.01	µg/L	0.526 µg/L	83.2	50.0	140	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	µg/L	0.526 µg/L	114	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A-L	0.005	µg/L	0.526 µg/L	87.6	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	µg/L	0.526 µg/L	94.3	50.0	140	----
Benzo(e)pyrene	192-97-2	E641A-L	0.01	µg/L	0.526 µg/L	94.3	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	µg/L	0.526 µg/L	98.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	µg/L	0.526 µg/L	90.4	50.0	140	----
Chrysene	218-01-9	E641A-L	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	µg/L	0.526 µg/L	93.9	50.0	140	----
Fluoranthene	206-44-0	E641A-L	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A-L	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Perylene	198-55-0	E641A-L	0.01	µg/L	0.526 µg/L	95.3	50.0	140	----
Phenanthrene	85-01-8	E641A-L	0.01	µg/L	0.526 µg/L	98.5	50.0	140	----
Pyrene	129-00-0	E641A-L	0.01	µg/L	0.526 µg/L	97.8	50.0	140	----
Phthalate Esters (QCLot: 1924585)									
bis(2-Ethylhexyl) phthalate [DEHP]	117-81-7	E625A	0.6	µg/L	33.7 µg/L	99.0	50.0	140	----
Di-n-butyl phthalate	84-74-2	E625A	1	µg/L	33.7 µg/L	94.5	50.0	140	----
Semi-Volatile Organics (QCLot: 1924585)									
Dichlorobenzidine, 3,3'-	91-94-1	E625A	0.4	µg/L	8.42 µg/L	62.2	50.0	140	----
Chlorinated Phenolics (QCLot: 1924585)									
Pentachlorophenol [PCP]	87-86-5	E625A	0.5	µg/L	25.3 µg/L	82.4	50.0	140	----
Nonylphenols (QCLot: 1922807)									
Nonylphenol [NP]	84852-15-3	E749A	0.4	µg/L	10 µg/L	89.9	60.0	140	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Nonylphenols (QCLot: 1922808)									
Nonylphenol diethoxylate [NP2EO]	20427-84-3	E749B	0.1	µg/L	2 µg/L	98.7	60.0	140	----
Nonylphenol monoethoxylate [NP1EO]	27986-36-3	E749B	0.4	µg/L	10 µg/L	97.3	60.0	140	----
Polychlorinated Biphenyls (QCLot: 1925062)									
Aroclor 1016	12674-11-2	E687	0.02	µg/L	0.2 µg/L	106	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.02	µg/L	0.2 µg/L	106	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.02	µg/L	0.2 µg/L	106	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.02	µg/L	0.2 µg/L	106	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.02	µg/L	0.2 µg/L	109	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.02	µg/L	0.2 µg/L	88.4	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.02	µg/L	0.2 µg/L	117	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.02	µg/L	0.2 µg/L	117	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.02	µg/L	0.2 µg/L	117	60.0	140	----
Organochlorine Pesticides (QCLot: 1925063)									
Aldrin	309-00-2	E660F	0.008	µg/L	0.2 µg/L	100.0	50.0	150	----
Chlordane, cis- (alpha)	5103-71-9	E660F	0.008	µg/L	0.2 µg/L	83.6	50.0	150	----
Chlordane, trans- (gamma)	5103-74-2	E660F	0.008	µg/L	0.2 µg/L	90.8	50.0	150	----
DDD, 2,4'-	53-19-0	E660F	0.004	µg/L	0.2 µg/L	102	50.0	150	----
DDD, 4,4'-	72-54-8	E660F	0.004	µg/L	0.2 µg/L	96.8	50.0	150	----
DDE, 2,4'-	3424-82-6	E660F	0.004	µg/L	0.2 µg/L	101	50.0	150	----
DDE, 4,4'-	72-55-9	E660F	0.004	µg/L	0.2 µg/L	97.4	50.0	150	----
DDT, 2,4'-	789-02-6	E660F	0.004	µg/L	0.2 µg/L	113	50.0	150	----
DDT, 4,4'-	50-29-3	E660F	0.004	µg/L	0.2 µg/L	104	50.0	150	----
Dieldrin	60-57-1	E660F	0.008	µg/L	0.2 µg/L	94.8	50.0	150	----
Hexachlorobenzene	118-74-1	E660F	0.008	µg/L	0.2 µg/L	104	50.0	150	----
Hexachlorocyclohexane, gamma-	58-89-9	E660F	0.008	µg/L	0.2 µg/L	117	50.0	150	----
Mirex	2385-85-5	E660F	0.008	µg/L	0.2 µg/L	99.6	50.0	150	----

Qualifiers

Qualifier	Description
LCS-H	*Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.*

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
Anions and Nutrients (QCLot: 1925005)										
HA2500722-002	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	30.1 mg/L	25 mg/L	120	70.0	130	----
Anions and Nutrients (QCLot: 1925007)										
HA2500721-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	ND mg/L	----	ND	70.0	130	----
Anions and Nutrients (QCLot: 1925009)										
HA2500604-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1926871)										
WT2506040-001	Anonymous	Fluoride	16984-48-8	E235.F	1.02 mg/L	1 mg/L	102	75.0	125	----
Cyanides (QCLot: 1922782)										
WT2506001-001	MW25-01	Cyanide, strong acid dissociable (Total)	----	E333	0.237 mg/L	0.25 mg/L	94.9	75.0	125	----
Inorganics (QCLot: 1924755)										
WT2505583-001	Anonymous	Chlorine, total	7782-50-5	E326	0.300 mg/L	0.272 mg/L	110	70.0	130	----
Total Metals (QCLot: 1922609)										
HA2500740-002	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	----	ND	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0505 mg/L	0.05 mg/L	101	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0492 mg/L	0.05 mg/L	98.4	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00483 mg/L	0.005 mg/L	96.6	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0122 mg/L	0.012 mg/L	97.2	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0111 mg/L	0.012 mg/L	88.7	70.0	130	----
		Copper, total	7440-50-8	E420	0.0119 mg/L	0.012 mg/L	95.5	70.0	130	----
		Lead, total	7439-92-1	E420	0.0251 mg/L	0.025 mg/L	100	70.0	130	----
		Manganese, total	7439-96-5	E420	ND mg/L	----	ND	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0118 mg/L	0.012 mg/L	94.9	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0236 mg/L	0.025 mg/L	94.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0473 mg/L	0.05 mg/L	94.6	70.0	130	----
		Silver, total	7440-22-4	E420	0.00479 mg/L	0.005 mg/L	95.9	70.0	130	----
		Tin, total	7440-31-5	E420	0.0244 mg/L	0.025 mg/L	97.5	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0118 mg/L	0.012 mg/L	94.8	70.0	130	----
		Zinc, total	7440-66-6	E420	0.0239 mg/L	0.025 mg/L	95.6	70.0	130	----
Total Metals (QCLot: 1922826)										
WT2506001-001	MW25-01	Mercury, total	7439-97-6	E508	0.0000859 mg/L	0 mg/L	85.9	70.0	130	----
Speciated Metals (QCLot: 1925175)										
WP2503851-021	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0411 mg/L	0.04 mg/L	103	70.0	130	----
Aggregate Organics (QCLot: 1925010)										
WP2503861-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0216 mg/L	0.02 mg/L	108	75.0	125	----

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: 1924716)										
WT2505920-001	Anonymous	Benzene	71-43-2	E611D	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Chloroform	67-66-3	E611D	92.5 µg/L	100 µg/L	92.5	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	94.1 µg/L	100 µg/L	94.1	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	92.5 µg/L	100 µg/L	92.5	60.0	140	----
		Dichloromethane	75-09-2	E611D	89.2 µg/L	100 µg/L	89.2	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Ethylbenzene	100-41-4	E611D	92.4 µg/L	100 µg/L	92.4	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	90.0 µg/L	100 µg/L	90.0	60.0	140	----
		Toluene	108-88-3	E611D	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Trichloroethylene	79-01-6	E611D	93.2 µg/L	100 µg/L	93.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	183 µg/L	200 µg/L	91.5	60.0	140	----
		Xylene, o-	95-47-6	E611D	95.2 µg/L	100 µg/L	95.2	60.0	140	----
Nonylphenols (QCLot: 1922807)										
WT2506011-001	Anonymous	Nonylphenol [NP]	84852-15-3	E749A	8.04 µg/L	10 µg/L	80.4	50.0	140	----
Nonylphenols (QCLot: 1922808)										
WT2506011-001	Anonymous	Nonylphenol diethoxylate [NP2EO]	20427-84-3	E749B	2.08 µg/L	2 µg/L	104	50.0	140	----
		Nonylphenol monoethoxylate [NP1EO]	27986-36-3	E749B	6.11 µg/L	10 µg/L	61.1	50.0	140	----

05-960 | B-280 | SC-189
066-315 | GC-709 | CN-718
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Chain of Custody (COC) / Analytical Request Form

COC Number: 23 - 1116791

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Canada Toll Free: 1 800 668 9878

Report To — Contact and company name below will appear on the final report

Company:	Hatch
Contact:	Owen Salvucci
Phone:	905-973-1331
Company address below will appear on the final report	
Street:	2644 Speakman Dr
City/Province:	Mississauga, ON
Postal Code:	L5K 1B1

Invoice To

Same as Report To	[X] YES [ ] NO
Copy of Invoice with Report	[X] YES [ ] NO
Company:	
Contact:	

Project Information

ALS Client Code / QUOTE #:	
Job / Project #:	H368027 (NB RIP Track)
PO / AFE:	
LSD:	
ALS Lab Work Order # (ALS use only):	WT2506001

Reports / Recipients

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Merge QC/QCI Reports with COA [X] YES [ ] NO [ ] N/A
[ ] Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax: owen.salvucci@hatch.com
Email 2: warren.hoyle@hatch.com
Email 3:

Invoice Recipients

Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax: owen.salvucci@hatch.com
Email 2:

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Turnaround Time (TAT) Requested

[X] Routine [R] if received by 3pm M-F - no surcharges apply
[ ] 4 day [P4] if received by 3pm M-F - 20% rush surcharge m
[ ] 3 day [P3] if received by 3pm M-F - 25% rush surcharge r
[ ] 2 day [P2] if received by 3pm M-F - 50% rush surcharge n
[ ] 1 day [E] if received by 3pm M-F - 100% rush surcharge n
[ ] Same day [E2] if received by 10am M-S - 200% rush surcl
Additional fees may apply to rush requests on w
Date and Time Required for all E&P TATs:
For all tests with rush TATs requested, pl

Environmental Division
Waterloo
Work Order Reference
WT2506001

Telephone : +1 519 886 6910

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	Ammonia/TNK/TPP/Acids	BOD	CrVI Ontario	E.coli	Free/Total Chlorine	General/TSS	NP/NPE	OCPs/PCBs	Oil & Grease	PAHs + PAHs (ONSP	SVOCs + VOCs	Total Cyanide	Total Mercury	Total Metals	SAMPLES ON HOLD	EXTENDED STORAGE REQ	SUSPECTED HAZARD (see notes)
	MW25-01	20-03-25	11:00	Water	22	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
	MW25-02	21-03-25	10:30	Water	22	R	R	R	R	R	R	R	R	R	R	R	R	R	R			

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

Are samples taken from a Regulated DW System? [ ] YES [X] NO
Are samples for human consumption/ use? [ ] YES [X] NO

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

Assumed samples contaminated w hydrocarbons

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: [ ] NONE [X] ICE [X] ICE PACKS [ ] FROZEN [ ] COOLING INITIATED
Cooler Custody Seals Intact: [X] YES [ ] N/A Sample Custody Seals Intact: [ ] YES [ ] N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				4.5	3.8		

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Owen Salvucci	21-03-25	16:00

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
	3/24/25	9:30

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JAN 2023 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**.

CERTIFICATE OF ANALYSIS

Work Order	:	**WT2506008**			
Amendment	:	**1**			
Client	:	**Hatch Ltd.**	Laboratory	:	ALS Environmental - Waterloo
Contact	:	Owen Salvucci	Account Manager	:	Andrew Martin
Address	:	2599 Speakman Drive Mississauga Ontario Canada L5K 2R7	Address	:	60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	:	----	E-mail	:	andrew.martin@alsglobal.com
Project	:	H/368027 (NB RIP TRACK)	Telephone	:	+1 519 886 6910
PO	:	----	Date Samples Received	:	24-Mar-2025 11:30
C-O-C number	:	23-1125971	Date Analysis Commenced	:	25-Mar-2025
Sampler	:	OS	Issue Date	:	16-Jun-2025 15:41
Site	:	----			
Quote number	:	Ontario 2024/2025 SOA			
No. of samples received	:	5			
No. of samples analysed	:	5			

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		Organics, Waterloo, Ontario
Greg Pokocky		Metals, Waterloo, Ontario
Sarah Birch		VOC, Waterloo, Ontario
Walt Kippenhuck		Metals, 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).

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

<: less than.
>: greater than.
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.

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

RRQC:Matrix spike recovery was above ALS DQO. Non-detect sample results are considered reliable

Amendment (16/Jun/2025): This report has been amended to include requested guideline(s). All analysis results are as per the previous report.

Qualifiers

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

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
					Client sampling date / time	20-Mar-2025 14:00	20-Mar-2025 15:30	20-Mar-2025 17:00	19-Mar-2025 14:00	19-Mar-2025 14:00
						WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
						Result	Result	Result	Result	Result
Dissolved Metals										
Lead, dissolved	7439-92-1	E421/WT	0.050	µg/L		<0.500 DLM	<0.500 DLM	<0.500 DLM	<0.500 DLM	<0.500 DLM
Volatile Organic Compounds										
Benzene	71-43-2	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	108-88-3	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	0.68	0.63
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L		<0.40	<0.40	<0.40	<0.40	<0.40
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L		<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L		<0.50	<0.50	<0.50	<0.50	<0.50
BTEX, total	----	E611D/WT	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Hydrocarbons										
F1 (C6-C10)	----	E581.F1-L/WT	25	µg/L		<25	<25	<25	<25	<25
F2 (C10-C16)	----	E601.SG/WT	100	µg/L		<100	<100	<100	<100	<100
F2-Naphthalene	----	EC600SG/WT	100	µg/L		<100	<100	<100	<100	<100
F3 (C16-C34)	----	E601.SG/WT	250	µg/L		<250	<250	<250	<250	<250
F3-PAH	n/a	EC600SG/WT	250	µg/L		<250	<250	<250	<250	<250
F4 (C34-C50)	----	E601.SG/WT	250	µg/L		<250	<250	<250	<250	<250
F1-BTEX	----	EC580/WT	25	µg/L		<25	<25	<25	<25	<25
Hydrocarbons, total (C6-C50)	n/a	EC581SG/WT	240	µg/L		<370	<370	<370	<370	<370
Chromatogram to baseline at nC50	n/a	E601.SG/WT	-	-		YES	YES	YES	YES	YES

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
Client sample ID									
Client sampling date / time					20-Mar-2025 14:00	20-Mar-2025 15:30	20-Mar-2025 17:00	19-Mar-2025 14:00	19-Mar-2025 14:00
					WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
					Result	Result	Result	Result	Result
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WT	1.0	%	88.3	93.2	90.1	87.5	89.7
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L/WT	1.0	%	91.7	86.1	98.8	100	105
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611A/WT	1.0	%	86.6	86.7	87.3	86.8	87.5
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	86.6	86.7	87.3	86.8	87.5
Difluorobenzene, 1,4-	540-36-3	E611A/WT	1.0	%	95.5	94.5	94.3	94.9	94.4
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	95.5	94.5	94.3	94.9	94.4
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	E641A/WT	0.010	µg/L	<0.010	<0.010	<0.010	0.123	0.131
Acenaphthylene	208-96-8	E641A/WT	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Anthracene	120-12-7	E641A/WT	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Benz(a)anthracene	56-55-3	E641A/WT	0.010	µg/L	0.017	<0.010	<0.010	<0.010	<0.010
Benzo(a)pyrene	50-32-8	E641A/WT	0.0050	µg/L	0.0157	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.010	µg/L	0.021	<0.010	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.010	µg/L	0.013	<0.010	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Chrysene	218-01-9	E641A/WT	0.010	µg/L	0.016	<0.010	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.0050	µg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	206-44-0	E641A/WT	0.010	µg/L	0.033	<0.010	<0.010	<0.010	<0.010
Fluorene	86-73-7	E641A/WT	0.010	µg/L	<0.010	<0.010	<0.010	0.014	0.014
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.010	µg/L	0.014	<0.010	<0.010	<0.010	<0.010

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	MW24-16	MW24-17	MW24-22	MW24-25	DUP-01
					Client sampling date / time	20-Mar-2025 14:00	20-Mar-2025 15:30	20-Mar-2025 17:00	19-Mar-2025 14:00	19-Mar-2025 14:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WT2506008-001	WT2506008-002	WT2506008-003	WT2506008-004	WT2506008-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.010	µg/L		<0.010	<0.010	<0.010	0.022	0.021
Methylnaphthalene, 1+2-	----	E641A/WT	0.015	µg/L		<0.015	<0.015	<0.015	0.022	0.021
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.010	µg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Naphthalene	91-20-3	E641A/WT	0.050	µg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	85-01-8	E641A/WT	0.020	µg/L		0.024	<0.020	<0.020	<0.020	<0.020
Pyrene	129-00-0	E641A/WT	0.010	µg/L		0.028	<0.010	<0.010	<0.010	<0.010
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		114	115	125	113	118
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		97.1	99.7	107	95.6	99.4
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		104	106	115	104	109

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

ALS Canada Ltd.

right solutions.
right partner.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2506008**	Page	: 1 of 9
Amendment	: **1**		
Client	: **Hatch Ltd.**	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Issue Date	: 16-Jun-2025 15:40
C-O-C number	: 23-1125971		
Sampler	: OS		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 5		
No. of samples analysed	: 5		

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
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW24-22	E421	20-Mar-2025	25-Mar-2025	180 days	4 days	✓	25-Mar-2025	180 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW24-16	E421	20-Mar-2025	25-Mar-2025	180 days	5 days	✓	25-Mar-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW24-17	E421	20-Mar-2025	25-Mar-2025	180 days	5 days	✓	25-Mar-2025	180 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) DUP-01	E421	19-Mar-2025	25-Mar-2025	180 days	6 days	✓	25-Mar-2025	180 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) MW24-25	E421	19-Mar-2025	25-Mar-2025	180 days	6 days	✓	25-Mar-2025	180 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW24-16	E581.F1-L	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW24-17	E581.F1-L	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓

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) MW24-22	E581.F1-L	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) DUP-01	E581.F1-L	19-Mar-2025	26-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	7 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID (Low Level)										
Glass vial (sodium bisulfate) MW24-25	E581.F1-L	19-Mar-2025	26-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	7 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-16	E601.SG	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-17	E601.SG	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-22	E601.SG	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP-01	E601.SG	19-Mar-2025	28-Mar-2025	14 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Hydrocarbons : Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-25	E601.SG	19-Mar-2025	28-Mar-2025	14 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-16	E641A	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓

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
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-17	E641A	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-22	E641A	20-Mar-2025	28-Mar-2025	14 days	8 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) DUP-01	E641A	19-Mar-2025	28-Mar-2025	14 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) MW24-25	E641A	19-Mar-2025	28-Mar-2025	14 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW24-16	E611D	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW24-17	E611D	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW24-22	E611D	20-Mar-2025	26-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	6 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) DUP-01	E611D	19-Mar-2025	26-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	7 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) MW24-25	E611D	19-Mar-2025	26-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	7 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)							
Dissolved Metals in Water by CRC ICPMS	E421	1922625	1	12	8.3	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1925447	1	18	5.5	5.0	✓
BTEX by Headspace GC-MS	E611A	1925448	1	5	20.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1925449	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Dissolved Metals in Water by CRC ICPMS	E421	1922625	1	12	8.3	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1925447	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1928703	1	17	5.8	5.0	✓
BTEX by Headspace GC-MS	E611A	1925448	1	5	20.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1925449	1	20	5.0	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1928704	1	5	20.0	5.0	✓
Method Blanks (MB)							
Dissolved Metals in Water by CRC ICPMS	E421	1922625	1	12	8.3	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1925447	1	18	5.5	5.0	✓
Silica Gel Treated CCME PHCs - F2-F4sg by GC-FID	E601.SG	1928703	1	17	5.8	5.0	✓
BTEX by Headspace GC-MS	E611A	1925448	1	5	20.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1925449	1	20	5.0	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1928704	1	5	20.0	5.0	✓
Matrix Spikes (MS)							
Dissolved Metals in Water by CRC ICPMS	E421	1922625	1	12	8.3	5.0	✓
CCME PHC - F1 by Headspace GC-FID (Low Level)	E581.F1-L	1925447	1	18	5.5	5.0	✓
BTEX by Headspace GC-MS	E611A	1925448	1	5	20.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1925449	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
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
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.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D 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.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Waterloo	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
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.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
F2-F4 (sg) minus PAH	EC600SG ALS Environmental - Waterloo	Water	CCME PHC in Soil - Tier 1	F2-F4 (sg) minus PAH is calculated as follows: F2-F4 minus PAH = Sum of CCME Fraction 2 (C10-C16), CCME Fraction 3 (C16-C34), and CCME Fraction 4 (C34-C50), minus select Polycyclic Aromatic Hydrocarbons (PAH).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
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	: **WT2506008**	Page	: 1 of 6
Amendment	: **1**		
Client	: Hatch Ltd.	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Date Analysis Commenced	: 25-Mar-2025
C-O-C number	: 23-1125971	Issue Date	: 16-Jun-2025 15:40
Sampler	: OS		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 5		
No. of samples analysed	: 5		

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
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, 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*
Dissolved Metals (QC Lot: 1922625)											
WT2506008-001	MW24-16	Lead, dissolved	7439-92-1	E421	0.000500	mg/L	<0.500 µg/L	<0.000500	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1925449)											
WT2506008-001	MW24-16	Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1925447)											
WT2506008-001	MW24-16	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
Dissolved Metals (QCLot: 1922625)						
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Volatile Organic Compounds (QCLot: 1925449)						
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1925447)						
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----
Hydrocarbons (QCLot: 1928703)						
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	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1928704)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641A	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	<0.0050	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641A	0.01	µg/L	<0.010	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641A	0.05	µg/L	<0.050	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1928704) - continued						
Phenanthrene	85-01-8	E641A	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641A	0.01	µg/L	<0.010	----

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
Dissolved Metals (QCLot: 1922625)									
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	98.1	80.0	120	----
Volatile Organic Compounds (QCLot: 1925449)									
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	113	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	112	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	114	70.0	130	----
Hydrocarbons (QCLot: 1925447)									
F1 (C6-C10)	----	E581.F1-L	25	µg/L	2000 µg/L	108	80.0	120	----
Hydrocarbons (QCLot: 1928703)									
F2 (C10-C16)	----	E601.SG	100	µg/L	3770 µg/L	100	70.0	130	----
F3 (C16-C34)	----	E601.SG	250	µg/L	7760 µg/L	105	70.0	130	----
F4 (C34-C50)	----	E601.SG	250	µg/L	4200 µg/L	115	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1928704)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.526 µg/L	94.2	50.0	140	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.526 µg/L	90.8	50.0	140	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.526 µg/L	83.2	50.0	140	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.526 µg/L	114	50.0	140	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.526 µg/L	87.6	50.0	140	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.526 µg/L	94.3	50.0	140	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.526 µg/L	98.2	50.0	140	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.526 µg/L	90.4	50.0	140	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.526 µg/L	93.9	50.0	140	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.526 µg/L	103	50.0	140	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.526 µg/L	101	50.0	140	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.526 µg/L	108	50.0	140	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.526 µg/L	95.0	50.0	140	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.526 µg/L	99.4	50.0	140	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1928704) - continued									
Naphthalene	91-20-3	E641A	0.05	µg/L	0.526 µg/L	97.1	50.0	140	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.526 µg/L	98.5	50.0	140	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.526 µg/L	97.8	50.0	140	----

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**

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike (MS) Report: Spike: Concentration	Spike: Target	Recovery (%): MS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1922625)										
WT2506008-002	MW24-17	Lead, dissolved	7439-92-1	E421	0.232 mg/L	0.25 mg/L	92.8	70.0	130	----
Volatile Organic Compounds (QCLot: 1925449)										
WT2506008-001	MW24-16	Benzene	71-43-2	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Ethylbenzene	100-41-4	E611D	107 µg/L	100 µg/L	107	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	100 µg/L	100 µg/L	100	60.0	140	----
		Toluene	108-88-3	E611D	108 µg/L	100 µg/L	108	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	212 µg/L	200 µg/L	106	60.0	140	----
		Xylene, o-	95-47-6	E611D	107 µg/L	100 µg/L	107	60.0	140	----
Hydrocarbons (QCLot: 1925447)										
WT2506008-001	MW24-16	F1 (C6-C10)	----	E581.F1-L	1860 µg/L	2000 µg/L	92.8	60.0	140	----

OR - 281
NW - 291
MM - 714

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Chain of Custody (COC) / Analytical Request Form

COC Number: 23 - 1125971

Page 1 of 1

Canada Toll Free: 1 800 668 9878

Environmental Division Waterloo
Work Order Reference
WT2506008

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:	Hatch	Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	☒ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:	Owen Salvucci	Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge min
Phone:	905-973-1331	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge mi
	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 mi
Street:	7699 Spectrum Dr	Email 1 or Fax owen.salvucci@hatch.com	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge mi
City/Province:	~~Mississauga~~ Mississauga	Email 2 Warren.hoyle@hatch.com	☐ Same day [E2] if received by 10am M-S - 200% rush surcha
Postal Code:	L5K 1B1	Email 3	Additional fees may apply to rush requests on we
Invoice To	Same as Report To ☒ YES ☐ NO	**Invoice Recipients**	**Date and Time Required for all E&P TATs:**
	Copy of Invoice with Report ☒ YES ☐ NO	Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, pl
Company:		Email 1 or Fax owen.salvucci@hatch.com	Analysi
Contact:		Email 2	

Project Information		Oil and Gas Required Fields (client use)	
ALS Client Code / QUOTE #:		AFE/Cost Center:	PO#
Job / Project #:	H368027 (NB RIP Track)	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact: Andrew Marton

Sampler: Owen Salvucci

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	PHC(F1-F4)+BTEX	PAH	LEAD (F)	MTBE	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRE	SUSPECTED HAZARD (see notes)
	MW24-16	20-03-25	14:00	Water	5	R	R	R	R			
	MW24-17	〃	15:30	〃	5	R	R	R	R			
	MW24-22	〃	17:00	〃	5	R	R	R	R			
	MW24-25	19-03-25	14:00	〃	5	R	R	R	R			
	DUP-01	〃	〃	〃	5	R	R	R	R			

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	*Assumed all samples are contaminated w hydrocarbons*
Are samples for human consumption/ use? ☐ YES ☒ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

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

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

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5.0			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by: Owen Salvucci	Date: 21-03-25	Time: ~~Edited~~	Received by:	Date:	Time:	Received by:	Date: 3/24/25	Time: 1130

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JAN 2023 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**.

CERTIFICATE OF ANALYSIS

Work Order	:	**WT2506041**			
Amendment	:	**1**			
Client	:	**Hatch Ltd.**	Laboratory	:	ALS Environmental - Waterloo
Contact	:	Owen Salvucci	Account Manager	:	Andrew Martin
Address	:	2599 Speakman Drive Mississauga Ontario Canada L5K 2R7	Address	:	60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	:	----	E-mail	:	andrew.martin@alsglobal.com
Project	:	H/368027 (NB RIP TRACK)	Telephone	:	+1 519 886 6910
PO	:	----	Date Samples Received	:	24-Mar-2025 11:30
C-O-C number	:	----	Date Analysis Commenced	:	25-Mar-2025
Sampler	:	----	Issue Date	:	16-Jun-2025 16:02
Site	:	----			
Quote number	:	Ontario 2024/2025 SOA			
No. of samples received	:	32			
No. of samples analysed	:	32			

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		Organics, Waterloo, Ontario
Jocelyn Kennedy		Organics, Waterloo, Ontario
Josphin Masihi		Centralized Prep, Waterloo, Ontario
Robert Braun		Inorganics, Waterloo, Ontario
Sarah Birch		VOC, Waterloo, Ontario
Walt Kippenhuck		Inorganics, Waterloo, Ontario
Walt Kippenhuck		Metals, 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).

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

<: less than.
>: greater than.
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.

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

Amendment (16/Jun/2025): This report has been amended to include requested guideline(s). All analysis results are as per the previous report.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLQ	Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.
EMPC	Estimated Maximum Possible Concentration. Parameter detected but didn't meet all criteria for positive identification.
SRI	Surrogate result incalculable due to high sample dilution.

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity (1:2 leachate)	----	E100-L/WT	0.00500	mS/cm		0.197	0.0900	0.0776	0.547	0.0420
Moisture	----	E144/WT	0.25	%		12.3	20.3	12.0	21.0	19.7
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.88	6.92	7.48	9.62	5.59
Cyanides										
Cyanide, weak acid dissociable	----	E336A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fixed-Ratio Extractables										
Calcium, soluble ion content	7440-70-2	E484/WT	0.50	mg/L		6.23	1.95	3.48	79.9	1.10
Magnesium, soluble ion content	7439-95-4	E484/WT	0.50	mg/L		1.57	0.89	2.22	<0.50	1.01
Sodium, soluble ion content	17341-25-2	E484/WT	0.50	mg/L		17.4	4.86	2.53	21.2	1.04
Sodium adsorption ratio [SAR]	----	E484/WT	0.10	-		1.61	0.72	0.26	0.65	0.17
Metals										
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		0.51	<0.10	<0.10	0.23	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		2.03	0.82	0.81	2.16	1.06
Barium	7440-39-3	E440C/WT	0.50	mg/kg		52.6	12.7	18.6	32.0	16.9
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.21	0.10	0.12	0.17	0.12
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		0.12	<0.10	<0.10	0.19	0.16
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.364	0.022	<0.020	0.695	0.027
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		58.0	14.4	11.2	14.2	16.7
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		5.86	2.73	2.14	6.35	3.18
Copper	7440-50-8	E440C/WT	0.50	mg/kg		18.3	2.72	4.37	76.9	3.94

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Metals										
Lead	7439-92-1	E440C/WT	0.50	mg/kg		8.64	1.22	1.28	4.91	1.29
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		0.0156	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		1.20	<0.10	0.27	0.32	0.16
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		15.0	7.39	5.16	7.92	8.63
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		0.20	<0.20	<0.20	<0.20	<0.20
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.10	<0.10	0.12	<0.10
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		0.103	<0.050	<0.050	<0.050	<0.050
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		0.579	0.333	0.439	0.423	0.298
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		17.7	10.9	9.89	11.9	13.4
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		106	10.8	9.4	64.6	13.1
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	0.14	0.10	0.14	0.35
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	71-43-2	E611D/WT	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromodichloromethane	75-27-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	75-25-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	74-83-9	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	56-23-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	108-90-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	67-66-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Dibromochloromethane	124-48-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	75-71-8	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	75-09-2	E611D/WT	0.045	mg/kg		<0.045	<0.045	<0.045	<0.045	<0.045
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Ethylbenzene	100-41-4	E611D/WT	0.015	mg/kg		0.015	<0.015	<0.015	<0.015	<0.015
Hexane, n-	110-54-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Styrene	100-42-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	127-18-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	108-88-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	79-01-6	E611D/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	75-69-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	75-01-4	E611D/WT	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Xylene, m+p-	179601-23-1	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611D/WT	0.030	mg/kg		0.031	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611D/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WT	5.0	mg/kg		24.2	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG-L/WT	10	mg/kg		2790	53	21	<10	<10
F2-Naphthalene	----	EC600/WT	25	mg/kg		2790	53	<25	<25	<25
F3 (C16-C34)	----	E601.SG-L/WT	50	mg/kg		701	<50	<50	<50	<50
F3-PAH	n/a	EC600/WT	50	mg/kg		700	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG-L/WT	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Hydrocarbons										
F1-BTEX	----	EC580/WT	5.0	mg/kg		24.2	<5.0	<5.0	<5.0	<5.0
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	80	mg/kg		3520	<80	<80	<80	<80
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	-		YES	YES	YES	YES	YES
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	1.0	%		107	95.9	95.7	96.8	92.7
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	1.0	%		68.2	108	97.0	97.4	103
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	0.10	%		76.3	91.0	135	84.1	87.1
Difluorobenzene, 1,4-	540-36-3	E611D/WT	0.10	%		88.2	100	101	93.6	95.8
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.573 DLQ	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		0.217 EMPC	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.085 DLQ	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		1.14	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		15.6	0.224	0.095	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		38.6	0.463	0.196	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		23.0	0.239	0.101	0.042	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<1.27 DLM	<0.024 DLM	<0.010	0.016	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		1.29	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		81.7	80.7	83.4	84.7	83.5
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		84.8	88.2	92.3	89.3	88.2
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		89.7	83.9	87.5	84.3	92.6
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		84.1	84.0	86.0	89.7	85.2
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1221	11104-28-2	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1232	11141-16-5	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1242	53469-21-9	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	12672-29-6	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	11097-69-1	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	11096-82-5	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-06-S1	BH25-06-S2	BH25-06-S3	BH25-07-S1	BH25-07-S2
					Client sampling date / time	17-Mar-2025 18:30	17-Mar-2025 18:30	17-Mar-2025 18:30	18-Mar-2025 17:30	18-Mar-2025 17:30
						WT2506041-001	WT2506041-002	WT2506041-003	WT2506041-006	WT2506041-007
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
Aroclor 1262	37324-23-5	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Aroclor 1268	11100-14-4	E687/WT	0.010	mg/kg		<0.224 DLM	<0.010	<0.010	<0.010	<0.010
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.030	mg/kg		<0.672	<0.030	<0.030	<0.030	<0.030
Polychlorinated Biphenyls Surrogates										
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%		N.R SRI	102	97.0	92.6	87.2
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%		N.R SRI	100	97.4	83.4	94.5

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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity (1:2 leachate)	----	E100-L/WT	0.00500	mS/cm		0.0680	0.165	----	0.0771	0.0844
Moisture	----	E144/WT	0.25	%		18.3	27.1	----	23.4	16.0
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.24	7.36	----	6.69	6.79
Cyanides										
Cyanide, weak acid dissociable	----	E336A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Fixed-Ratio Extractables										
Calcium, soluble ion content	7440-70-2	E484/WT	0.50	mg/L		2.12	13.0	----	1.93	1.85
Magnesium, soluble ion content	7439-95-4	E484/WT	0.50	mg/L		0.74	11.8	----	0.86	1.18
Sodium, soluble ion content	17341-25-2	E484/WT	0.50	mg/L		1.84	6.73	----	3.93	3.41

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Fixed-Ratio Extractables										
Sodium adsorption ratio [SAR]	----	E484/WT	0.10	-		0.28	0.32	----	0.59	0.48
Metals										
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	<0.10	----	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		1.11	1.69	----	0.79	1.08
Barium	7440-39-3	E440C/WT	0.50	mg/kg		10.1	107	----	12.1	14.3
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		<0.10	0.38	----	<0.10	0.10
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	5.8	----	<5.0	<5.0
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		0.10	0.11	----	<0.10	<0.10
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.020	0.061	----	0.020	0.023
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		10.5	58.3	----	11.6	15.5
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		2.56	9.23	----	2.82	2.74
Copper	7440-50-8	E440C/WT	0.50	mg/kg		2.45	18.7	----	2.44	2.99
Lead	7439-92-1	E440C/WT	0.50	mg/kg		0.92	3.96	----	0.95	1.37
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		<0.0050	<0.0050	----	<0.0050	<0.0050
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		<0.10	0.49	----	<0.10	0.10
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		6.57	30.3	----	7.43	7.53
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		<0.20	<0.20	----	<0.20	<0.20
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.10	----	<0.10	<0.10
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		<0.050	0.121	----	<0.050	<0.050
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		0.240	0.823	----	0.254	0.411
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		8.57	37.4	----	8.52	12.5

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Metals										
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		9.2	39.9	----	10.1	11.6
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.23	<0.10	----	0.25	0.20
TCLP Anions & Nutrients										
Nitrate + Nitrite (as N), TCLP	----	EC240.N+N/WT	7.50	mg/L		----	----	<7.50	----	----
TCLP Extractables										
Acenaphthene, TCLP	83-32-9	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Acenaphthylene, TCLP	208-96-8	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Acridine, TCLP	260-94-6	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Anthracene, TCLP	120-12-7	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Aroclor 1016, TCLP	12674-11-2	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1221, TCLP	11104-28-2	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1232, TCLP	11141-16-5	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1242, TCLP	53469-21-9	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1248, TCLP	12672-29-6	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1254, TCLP	11097-69-1	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1260, TCLP	11096-82-5	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1262, TCLP	37324-23-5	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Aroclor 1268, TCLP	11100-14-4	E688A/WT	0.00020	mg/L		----	----	<0.00020	----	----
Benz(a)anthracene, TCLP	56-55-3	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Benzo(a)pyrene, TCLP	50-32-8	E644/WT	0.00020	mg/L		----	----	<0.00020	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
TCLP Extractables										
Benzo(b+j)fluoranthene, TCLP	----	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Benzo(g,h,i)perylene, TCLP	191-24-2	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Benzo(k)fluoranthene, TCLP	207-08-9	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Chrysene, TCLP	218-01-9	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Cyanide, weak acid dissociable, TCLP	----	E337A/WT	0.10	mg/L		----	----	<0.10	----	----
Dibenz(a,h)anthracene, TCLP	53-70-3	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Fluoranthene, TCLP	206-44-0	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Fluorene, TCLP	86-73-7	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Fluoride, TCLP	16984-48-8	E240.F/WT	10	mg/L		----	----	<10	----	----
Indeno(1,2,3-cd)pyrene, TCLP	193-39-5	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Naphthalene, TCLP	91-20-3	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Nitrate (as N), TCLP	14797-55-8	E240.NO3/WT	5.0	mg/L		----	----	<5.0	----	----
Nitrite (as N), TCLP	14797-65-0	E240.NO2/WT	5.0	mg/L		----	----	<5.0	----	----
Phenanthrene, TCLP	85-01-8	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Pyrene, TCLP	129-00-0	E644/WT	0.0050	mg/L		----	----	<0.0050	----	----
Decachlorobiphenyl, TCLP	2051-24-3	E688A/WT	0.1	%		----	----	92.7	----	----
Tetrachloro-m-xylene, TCLP	877-09-8	E688A/WT	0.1	%		----	----	97.5	----	----
TCLP Extractables Surrogates										
Chrysene-d12, TCLP	1719-03-5	E644/WT	5.0	%		----	----	85.5	----	----
Naphthalene-d8, TCLP	1146-65-2	E644/WT	5.0	%		----	----	117	----	----
Phenanthrene-d10, TCLP	1517-22-2	E644/WT	5.0	%		----	----	114	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
TCLP Metals										
Arsenic, TCLP	7440-38-2	E444/WT	1.0	mg/L		----	----	<1.0	----	----
Barium, TCLP	7440-39-3	E444/WT	2.5	mg/L		----	----	<2.5	----	----
Boron, TCLP	7440-42-8	E444/WT	0.50	mg/L		----	----	<0.50	----	----
Cadmium, TCLP	7440-43-9	E444/WT	0.050	mg/L		----	----	<0.050	----	----
Chromium, TCLP	7440-47-3	E444/WT	0.25	mg/L		----	----	<0.25	----	----
Lead, TCLP	7439-92-1	E444/WT	0.25	mg/L		----	----	<0.25	----	----
Mercury, TCLP	7439-97-6	E512/WT	0.0010	mg/L		----	----	<0.0010	----	----
pH, TCLP 1st preliminary	----	EPP444/WT	0.010	pH units		----	----	10.71	----	----
pH, TCLP 2nd preliminary	----	EPP444/WT	0.010	pH units		----	----	1.80	----	----
pH, TCLP extraction fluid initial	----	EPP444/WT	0.010	pH units		----	----	4.88	----	----
pH, TCLP final	----	EPP444/WT	0.010	pH units		----	----	5.12	----	----
Selenium, TCLP	7782-49-2	E444/WT	0.10	mg/L		----	----	<0.10	----	----
Silver, TCLP	7440-22-4	E444/WT	0.050	mg/L		----	----	<0.050	----	----
Uranium, TCLP	7440-61-1	E444/WT	0.20	mg/L		----	----	<0.20	----	----
TCLP VOCs										
Benzene, TCLP	71-43-2	E615B/WT	0.0050	mg/L		----	----	<0.0050	----	----
Carbon tetrachloride, TCLP	56-23-5	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Chlorobenzene, TCLP	108-90-7	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Chloroform, TCLP	67-66-3	E615B/WT	0.10	mg/L		----	----	<0.10	----	----
Dichlorobenzene, 1,2-, TCLP	95-50-1	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Dichlorobenzene, 1,4-, TCLP	106-46-7	E615B/WT	0.025	mg/L		----	----	<0.025	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
TCLP VOCs										
Dichloroethane, 1,2-, TCLP	107-06-2	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Dichloroethylene, 1,1-, TCLP	75-35-4	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Dichloromethane, TCLP	75-09-2	E615B/WT	0.10	mg/L		----	----	<0.10	----	----
Methyl ethyl ketone [MEK], TCLP	78-93-3	E615B/WT	0.10	mg/L		----	----	<0.10	----	----
Tetrachloroethylene, TCLP	127-18-4	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Trichloroethylene, TCLP	79-01-6	E615B/WT	0.025	mg/L		----	----	<0.025	----	----
Vinyl chloride, TCLP	75-01-4	E615B/WT	0.050	mg/L		----	----	<0.050	----	----
TCLP VOCs Surrogates										
Bromofluorobenzene, 4-, TCLP	460-00-4	E615B/WT	1.0	%		----	----	99.7	----	----
Difluorobenzene, 1,4-, TCLP	540-36-3	E615B/WT	1.0	%		----	----	98.8	----	----
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	----	<0.50	<0.50
Benzene	71-43-2	E611D/WT	0.0050	mg/kg		<0.0050	<0.0050	----	<0.0050	<0.0050
Bromodichloromethane	75-27-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Bromoform	75-25-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Bromomethane	74-83-9	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Carbon tetrachloride	56-23-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Chlorobenzene	108-90-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Chloroform	67-66-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dibromochloromethane	124-48-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichlorodifluoromethane	75-71-8	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloromethane	75-09-2	E611D/WT	0.045	mg/kg		<0.045	<0.045	----	<0.045	<0.045
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Ethylbenzene	100-41-4	E611D/WT	0.015	mg/kg		<0.015	<0.015	----	<0.015	<0.015
Hexane, n-	110-54-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	0.50	mg/kg		<0.50	<0.50	----	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	----	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.040	mg/kg		<0.040	<0.040	----	<0.040	<0.040
Styrene	100-42-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Tetrachloroethylene	127-18-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Toluene	108-88-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Trichloroethylene	79-01-6	E611D/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Trichlorofluoromethane	75-69-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Vinyl chloride	75-01-4	E611D/WT	0.020	mg/kg		<0.020	<0.020	----	<0.020	<0.020
Xylene, m+p-	179601-23-1	E611D/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Xylene, o-	95-47-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Xylenes, total	1330-20-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
BTEX, total	----	E611D/WT	0.10	mg/kg		<0.10	<0.10	----	<0.10	<0.10
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WT	5.0	mg/kg		<5.0	<5.0	----	<5.0	<5.0
F2 (C10-C16)	----	E601.SG-L/WT	10	mg/kg		<10	<10	----	<10	<10
F2-Naphthalene	----	EC600/WT	25	mg/kg		<25	<25	----	<25	<25
F3 (C16-C34)	----	E601.SG-L/WT	50	mg/kg		<50	<50	----	<50	<50
F3-PAH	n/a	EC600/WT	50	mg/kg		<50	<50	----	<50	<50
F4 (C34-C50)	----	E601.SG-L/WT	50	mg/kg		<50	<50	----	<50	<50
F1-BTEX	----	EC580/WT	5.0	mg/kg		<5.0	<5.0	----	<5.0	<5.0
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	80	mg/kg		<80	<80	----	<80	<80

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	-		YES	YES	----	YES	YES
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	1.0	%		95.7	95.1	----	93.8	94.8
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	1.0	%		102	95.8	----	91.8	89.2
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	0.10	%		92.9	89.1	----	84.7	86.3
Difluorobenzene, 1,4-	540-36-3	E611D/WT	0.10	%		108	102	----	97.2	97.9
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	----	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		86.4	80.7	----	85.4	84.1
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		92.4	88.5	----	89.7	89.9
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		98.5	95.0	----	97.3	97.0
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		89.0	87.5	----	87.2	87.0
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1221	11104-28-2	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1232	11141-16-5	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1242	53469-21-9	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1248	12672-29-6	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1254	11097-69-1	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1260	11096-82-5	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1262	37324-23-5	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010
Aroclor 1268	11100-14-4	E687/WT	0.010	mg/kg		<0.010	<0.010	----	<0.010	<0.010

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-07-S3	BH25-07-S4	TCLP-01	BH25-03-S1	BH25-03-S2
					Client sampling date / time	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 17:30	18-Mar-2025 10:00	18-Mar-2025 10:00
						WT2506041-008	WT2506041-009	WT2506041-011	WT2506041-012	WT2506041-013
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
Polychlorinated biphenyls [PCBs], total, TCLP	n/a	E688A/WT	0.00060	mg/L		----	----	<0.00060	----	----
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.030	mg/kg		<0.030	<0.030	----	<0.030	<0.030
Polychlorinated Biphenyls Surrogates										
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%		105	112	----	110	109
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%		89.4	95.0	----	93.6	91.7

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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity (1:2 leachate)	----	E100-L/WT	0.00500	mS/cm		0.0732	0.180	0.201	0.0984	0.210
Moisture	----	E144/WT	0.25	%		15.4	20.9	20.7	17.4	31.7
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.67	7.34	6.28	7.02	7.55
Cyanides										
Cyanide, weak acid dissociable	----	E336A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fixed-Ratio Extractables										
Calcium, soluble ion content	7440-70-2	E484/WT	0.50	mg/L		1.58	11.8	4.34	2.32	14.8
Magnesium, soluble ion content	7439-95-4	E484/WT	0.50	mg/L		1.12	9.72	0.71	1.27	8.18
Sodium, soluble ion content	17341-25-2	E484/WT	0.50	mg/L		3.44	12.5	25.8	3.97	9.67
Sodium adsorption ratio [SAR]	----	E484/WT	0.10	-		0.51	0.65	3.03	0.52	0.50

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Metals										
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		0.84	1.65	1.05	0.71	2.15
Barium	7440-39-3	E440C/WT	0.50	mg/kg		13.5	113	23.0	10.8	153
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		<0.10	0.39	0.16	<0.10	0.52
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	5.6	<5.0	<5.0	7.2
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		<0.10	0.11	0.18	<0.10	<0.10
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.036	0.075	0.023	<0.020	0.069
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		13.1	56.8	17.7	12.6	82.9
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		2.71	8.65	4.35	2.64	12.1
Copper	7440-50-8	E440C/WT	0.50	mg/kg		2.69	17.9	4.61	2.61	24.2
Lead	7439-92-1	E440C/WT	0.50	mg/kg		1.08	4.09	1.59	0.94	5.02
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		<0.0050	<0.0050	0.0114	<0.0050	0.0050
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		0.14	0.41	0.17	0.12	0.54
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		6.95	28.2	10.4	6.78	42.0
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		<0.050	0.127	<0.050	<0.050	0.178
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		0.319	0.909	0.234	0.224	1.16
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		10.5	37.7	14.0	9.30	51.6
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		11.8	41.9	21.0	11.5	52.7

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.17	<0.10	<0.10	0.20	<0.10
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	71-43-2	E611D/WT	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromodichloromethane	75-27-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	75-25-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	74-83-9	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	56-23-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	108-90-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	67-66-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	124-48-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	75-71-8	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Dichloromethane	75-09-2	E611D/WT	0.045	mg/kg		<0.045	<0.045	<0.045	<0.045	<0.045
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Ethylbenzene	100-41-4	E611D/WT	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Hexane, n-	110-54-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040
Styrene	100-42-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	127-18-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	108-88-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	79-01-6	E611D/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	75-69-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	75-01-4	E611D/WT	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Xylene, m+p-	179601-23-1	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Xylene, o-	95-47-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611D/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WT	5.0	mg/kg		<5.0	<5.0	8.2	<5.0	<5.0
F2 (C10-C16)	----	E601.SG-L/WT	10	mg/kg		<10	<10	726	<10	<10
F2-Naphthalene	----	EC600/WT	25	mg/kg		<25	<25	726	<25	<25
F3 (C16-C34)	----	E601.SG-L/WT	50	mg/kg		<50	<50	220	<50	<50
F3-PAH	n/a	EC600/WT	50	mg/kg		<50	<50	220	<50	<50
F4 (C34-C50)	----	E601.SG-L/WT	50	mg/kg		<50	<50	<50	<50	<50
F1-BTEX	----	EC580/WT	5.0	mg/kg		<5.0	<5.0	8.2	<5.0	<5.0
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	80	mg/kg		<80	<80	954	<80	<80
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	-		YES	YES	YES	YES	YES
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	1.0	%		93.4	94.7	100	94.6	95.4
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	1.0	%		92.8	96.0	81.0	94.3	68.8
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	0.10	%		87.2	87.4	99.5	92.5	88.0
Difluorobenzene, 1,4-	540-36-3	E611D/WT	0.10	%		99.0	99.1	107	99.6	97.6
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.190 DLQ	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.095 EMPC	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.423	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	5.69	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	6.69	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	1.00	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.401 DLM	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.426	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		78.4	87.0	88.4	83.1	81.1
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		84.8	89.6	92.3	91.1	84.5

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-03-S3	BH25-03-S4	BH25-04-S1	BH25-04-S2	BH25-04-S3
					Client sampling date / time	18-Mar-2025 10:00	18-Mar-2025 10:00	17-Mar-2025 13:00	17-Mar-2025 13:00	17-Mar-2025 13:00
						WT2506041-014	WT2506041-015	WT2506041-018	WT2506041-019	WT2506041-020
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		89.0	97.2	94.2	97.2	91.5
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		80.9	89.0	88.3	86.8	82.9
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1221	11104-28-2	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1232	11141-16-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1242	53469-21-9	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	12672-29-6	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	11097-69-1	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	11096-82-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1262	37324-23-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1268	11100-14-4	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Polychlorinated Biphenyls Surrogates										
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%		108	109	87.1	106	110
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%		92.6	90.4	81.4	87.8	91.5

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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Physical Tests										
Conductivity (1:2 leachate)	----	E100-L/WT	0.00500	mS/cm		0.263	0.112	0.0787	0.0785	0.0827
Moisture	----	E144/WT	0.25	%		19.6	19.7	23.7	20.9	10.4
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		6.95	6.43	6.51	6.31	7.51
Cyanides										
Cyanide, weak acid dissociable	----	E336A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fixed-Ratio Extractables										
Calcium, soluble ion content	7440-70-2	E484/WT	0.50	mg/L		16.1	2.43	1.83	1.40	2.45
Magnesium, soluble ion content	7439-95-4	E484/WT	0.50	mg/L		1.11	0.61	1.16	0.82	0.62
Sodium, soluble ion content	17341-25-2	E484/WT	0.50	mg/L		19.2	6.56	1.33	4.26	1.73
Sodium adsorption ratio [SAR]	----	E484/WT	0.10	-		1.25	0.97	0.19	0.71	0.26
Metals										
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		0.17	<0.10	<0.10	<0.10	<0.10
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		2.01	0.80	0.82	1.00	0.82
Barium	7440-39-3	E440C/WT	0.50	mg/kg		18.2	13.0	16.9	11.5	40.2
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.16	<0.10	0.11	<0.10	0.22
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		<0.10	<0.10	<0.10	0.11	<0.10
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.088	0.033	0.021	0.023	0.023
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		18.8	11.5	18.9	12.3	14.5
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		2.79	2.71	3.95	3.05	2.64
Copper	7440-50-8	E440C/WT	0.50	mg/kg		34.1	7.81	3.64	3.35	4.91

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Metals										
Lead	7439-92-1	E440C/WT	0.50	mg/kg		4.05	1.58	1.34	1.13	1.26
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		0.0072	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		0.28	0.11	<0.10	0.12	0.25
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		8.69	6.98	9.96	7.66	6.34
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		0.286	0.316	0.344	0.246	0.610
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		15.1	8.87	14.7	9.30	14.5
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		33.4	20.9	14.9	11.0	15.9
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.67	0.28	0.15	0.18	<0.10
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	71-43-2	E611D/WT	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Bromodichloromethane	75-27-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	75-25-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	74-83-9	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	56-23-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	108-90-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	67-66-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Dibromochloromethane	124-48-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	75-71-8	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	75-09-2	E611D/WT	0.045	mg/kg		<0.045	<0.045	<0.045	<0.045	<0.045
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Ethylbenzene	100-41-4	E611D/WT	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Hexane, n-	110-54-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.040	mg/kg		<0.040	<0.040	<0.040	<0.040	<0.040

Analytical Results

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

					Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Volatile Organic Compounds										
Styrene	100-42-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	127-18-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	108-88-3	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	79-01-6	E611D/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	75-69-4	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	75-01-4	E611D/WT	0.020	mg/kg		<0.020	<0.020	<0.020	<0.020	<0.020
Xylene, m+p-	179601-23-1	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611D/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611D/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611D/WT	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WT	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG-L/WT	10	mg/kg		<10	<10	<10	<10	<10
F2-Naphthalene	----	EC600/WT	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG-L/WT	50	mg/kg		<50	<50	<50	<50	<50
F3-PAH	n/a	EC600/WT	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG-L/WT	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Hydrocarbons										
F1-BTEX	----	EC580/WT	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	80	mg/kg		<80	<80	<80	<80	<80
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	-		YES	YES	YES	YES	YES
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	1.0	%		93.8	97.1	95.1	95.1	92.6
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	1.0	%		91.6	97.9	79.8	87.7	108
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	0.10	%		85.3	90.5	91.8	88.1	94.9
Difluorobenzene, 1,4-	540-36-3	E611D/WT	0.10	%		93.7	101	103	102	107
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		82.8	87.3	82.3	79.4	79.9
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		88.2	91.0	85.7	87.7	89.5
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		93.7	97.6	91.8	91.5	94.2
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		86.1	88.6	85.8	82.8	86.6
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1221	11104-28-2	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1232	11141-16-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1242	53469-21-9	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1248	12672-29-6	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1254	11097-69-1	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1260	11096-82-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-08-S1	BH25-08-S2	BH25-08-S3	BH25-09-S1	BH25-09-S2
					Client sampling date / time	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 17:00	19-Mar-2025 11:00	19-Mar-2025 11:00
						WT2506041-023	WT2506041-024	WT2506041-025	WT2506041-028	WT2506041-029
						Result	Result	Result	Result	Result
Polychlorinated Biphenyls										
Aroclor 1262	37324-23-5	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Aroclor 1268	11100-14-4	E687/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Polychlorinated Biphenyls Surrogates										
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%		99.6	101	92.8	89.4	91.0
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%		97.5	84.2	90.5	85.2	85.1

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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Physical Tests										
Conductivity (1:2 leachate)	----	E100-L/WT	0.00500	mS/cm		0.0867	----	----	----	----
Moisture	----	E144/WT	0.25	%		10.3	----	----	----	----
pH (1:2 soil:CaCl2-aq)	----	E108A/WT	0.10	pH units		7.58	----	----	----	----
Cyanides										
Cyanide, weak acid dissociable	----	E336A/WT	0.050	mg/kg		<0.050	----	----	----	----
Fixed-Ratio Extractables										
Calcium, soluble ion content	7440-70-2	E484/WT	0.50	mg/L		4.88	----	----	----	----
Magnesium, soluble ion content	7439-95-4	E484/WT	0.50	mg/L		7.28	----	----	----	----
Sodium, soluble ion content	17341-25-2	E484/WT	0.50	mg/L		4.47	----	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Fixed-Ratio Extractables										
Sodium adsorption ratio [SAR]	----	E484/WT	0.10	-		0.30	----	----	----	----
Metals										
Antimony	7440-36-0	E440C/WT	0.10	mg/kg		<0.10	----	----	----	----
Arsenic	7440-38-2	E440C/WT	0.10	mg/kg		0.83	----	----	----	----
Barium	7440-39-3	E440C/WT	0.50	mg/kg		53.5	----	----	----	----
Beryllium	7440-41-7	E440C/WT	0.10	mg/kg		0.24	----	----	----	----
Boron	7440-42-8	E440C/WT	5.0	mg/kg		<5.0	----	----	----	----
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		<0.10	----	----	----	----
Cadmium	7440-43-9	E440C/WT	0.020	mg/kg		0.023	----	----	----	----
Chromium	7440-47-3	E440C/WT	0.50	mg/kg		17.6	----	----	----	----
Cobalt	7440-48-4	E440C/WT	0.10	mg/kg		3.34	----	----	----	----
Copper	7440-50-8	E440C/WT	0.50	mg/kg		8.16	----	----	----	----
Lead	7439-92-1	E440C/WT	0.50	mg/kg		1.54	----	----	----	----
Mercury	7439-97-6	E510C/WT	0.0050	mg/kg		<0.0050	----	----	----	----
Molybdenum	7439-98-7	E440C/WT	0.10	mg/kg		0.31	----	----	----	----
Nickel	7440-02-0	E440C/WT	0.50	mg/kg		7.75	----	----	----	----
Selenium	7782-49-2	E440C/WT	0.20	mg/kg		<0.20	----	----	----	----
Silver	7440-22-4	E440C/WT	0.10	mg/kg		<0.10	----	----	----	----
Thallium	7440-28-0	E440C/WT	0.050	mg/kg		0.070	----	----	----	----
Uranium	7440-61-1	E440C/WT	0.050	mg/kg		0.614	----	----	----	----
Vanadium	7440-62-2	E440C/WT	0.20	mg/kg		17.3	----	----	----	----

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WT2506041-030	----	----	----	----
						Result	----	----	----	----
Metals										
Zinc	7440-66-6	E440C/WT	2.0	mg/kg		20.3	----	----	----	----
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	----	----	----	----
Volatile Organic Compounds										
Acetone	67-64-1	E611D/WT	0.50	mg/kg		<0.50	----	----	----	----
Benzene	71-43-2	E611D/WT	0.0050	mg/kg		<0.0050	----	----	----	----
Bromodichloromethane	75-27-4	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Bromoform	75-25-2	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Bromomethane	74-83-9	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Chlorobenzene	108-90-7	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Chloroform	67-66-3	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Volatile Organic Compounds										
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	0.045	mg/kg		<0.045	----	----	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.030	mg/kg		<0.030	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.030	mg/kg		<0.030	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.015	mg/kg		<0.015	----	----	----	----
Hexane, n-	110-54-3	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	0.50	mg/kg		<0.50	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	0.50	mg/kg		<0.50	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.040	mg/kg		<0.040	----	----	----	----
Styrene	100-42-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Toluene	108-88-3	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.010	mg/kg		<0.010	----	----	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Volatile Organic Compounds										
Vinyl chloride	75-01-4	E611D/WT	0.020	mg/kg		<0.020	----	----	----	----
Xylene, m+p-	179601-23-1	E611D/WT	0.030	mg/kg		<0.030	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.030	mg/kg		<0.030	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.050	mg/kg		<0.050	----	----	----	----
BTEX, total	----	E611D/WT	0.10	mg/kg		<0.10	----	----	----	----
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WT	5.0	mg/kg		<5.0	----	----	----	----
F2 (C10-C16)	----	E601.SG-L/WT	10	mg/kg		<10	----	----	----	----
F2-Naphthalene	----	EC600/WT	25	mg/kg		<25	----	----	----	----
F3 (C16-C34)	----	E601.SG-L/WT	50	mg/kg		<50	----	----	----	----
F3-PAH	n/a	EC600/WT	50	mg/kg		<50	----	----	----	----
F4 (C34-C50)	----	E601.SG-L/WT	50	mg/kg		<50	----	----	----	----
F1-BTEX	----	EC580/WT	5.0	mg/kg		<5.0	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/WT	80	mg/kg		<80	----	----	----	----
Chromatogram to baseline at nC50	n/a	E601.SG-L/WT	-	-		YES	----	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG-L/WT	1.0	%		95.9	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WT	1.0	%		97.0	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611D/WT	0.10	%		94.0	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	0.10	%		107	----	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	----	----	----	----
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	----	----	----	----
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		85.7	----	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH25-09-S3	----	----	----	----
					Client sampling date / time	19-Mar-2025 11:00	----	----	----	----
						WT2506041-030	----	----	----	----
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		94.9	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		97.5	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		89.7	----	----	----	----
Polychlorinated Biphenyls										
Aroclor 1016	12674-11-2	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1221	11104-28-2	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1232	11141-16-5	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1242	53469-21-9	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1248	12672-29-6	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1254	11097-69-1	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1260	11096-82-5	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1262	37324-23-5	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Aroclor 1268	11100-14-4	E687/WT	0.010	mg/kg		<0.010	----	----	----	----
Polychlorinated biphenyls [PCBs], total	n/a	E687/WT	0.030	mg/kg		<0.030	----	----	----	----
Polychlorinated Biphenyls Surrogates										
Decachlorobiphenyl	2051-24-3	E687/WT	0.1	%		85.8	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E687/WT	0.1	%		89.8	----	----	----	----

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

ALS Canada Ltd.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WT2506041**	Page	: 1 of 45
Amendment	: 1		
Client	: **Hatch Ltd.**	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Issue Date	: 16-Jun-2025 16:01
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 32		
No. of samples analysed	: 32		

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
- Matrix Spike outliers occur - please see following pages for full details.
- 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.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
TCLP Extractables	Anonymous	Anonymous	Benz(a)anthracene, TCLP	56-55-3	E644	179 % K	50.0-140%	Recovery greater than upper data quality objective
TCLP Extractables	Anonymous	Anonymous	Benzo(b+j)fluoranthene, TCLP	----	E644	164 % K	50.0-140%	Recovery greater than upper data quality objective
TCLP Extractables	Anonymous	Anonymous	Chrysene, TCLP	218-01-9	E644	152 % K	50.0-140%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	Acetone	67-64-1	E611D	146 % MES	50.0-140%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	Methyl ethyl ketone [MEK]	78-93-3	E611D	148 % MES	50.0-140%	Recovery greater than upper data quality objective
Volatile Organic Compounds	Anonymous	Anonymous	Methyl isobutyl ketone [MIBK]	108-10-1	E611D	142 % MES	50.0-140%	Recovery greater than upper data quality objective

Result Qualifiers

Qualifier	Description
K	*Matrix Spike recovery outside ALS DQO due to sample matrix effects.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

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]										
BH25-08-S1	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S3	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E336A	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 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
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E336A	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 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
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 days	1 days	✓
Cyanides : WAD Cyanide (0.01M NaOH Extraction)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E336A	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	14 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
BH25-08-S1	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
BH25-08-S2	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
BH25-08-S3	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
BH25-09-S1	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP]										
BH25-09-S2	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	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 PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-09-S3	E581.F1	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-03-S1	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-03-S2	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-03-S3	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-03-S4	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-07-S1	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-07-S2	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-07-S3	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-07-S4	E581.F1	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	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 PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-04-S1	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-04-S2	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-04-S3	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-06-S1	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-06-S2	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial [ON MECP] BH25-06-S3	E581.F1	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S1	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S2	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	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]										
BH25-09-S1	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E601.SG-L	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	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]										
BH25-07-S3	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E601.SG-L	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E601.SG-L	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E487	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	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*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E487	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E487	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E487	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E487	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E487	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E487	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E487	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E487	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E487	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	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*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E487	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E487	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E487	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E487	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	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 : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E487	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S1	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S2	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S3	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S4	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S1	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S2	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S3	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S4	E510C	18-Mar-2025	28-Mar-2025	28 days	10 days	✓	29-Mar-2025	28 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] BH25-04-S1	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S2	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S3	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S1	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S2	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S3	E510C	17-Mar-2025	28-Mar-2025	28 days	11 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S1	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S2	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 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]										
BH25-09-S1	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E510C	19-Mar-2025	28-Mar-2025	28 days	9 days	✓	29-Mar-2025	28 days	1 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 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]										
BH25-07-S3	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E440C	18-Mar-2025	28-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E440C	17-Mar-2025	28-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	11 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 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]										
BH25-08-S2	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S3	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS (<355 µm)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E440C	19-Mar-2025	28-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	9 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E484	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E484	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E484	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E484	18-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	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 : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E484	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E484	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E484	19-Mar-2025	29-Mar-2025	180 days	10 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E484	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E484	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E484	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E484	18-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E484	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E484	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	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 : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E484	17-Mar-2025	29-Mar-2025	180 days	11 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E484	17-Mar-2025	29-Mar-2025	180 days	12 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E484	17-Mar-2025	29-Mar-2025	180 days	12 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E484	17-Mar-2025	29-Mar-2025	180 days	12 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E484	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E484	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	1 days	✓
Metals : Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S3	E484	19-Mar-2025	29-Mar-2025	180 days	9 days	✓	29-Mar-2025	180 days	1 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E100-L	18-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E100-L	18-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 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] BH25-07-S3	E100-L	18-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S4	E100-L	18-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S1	E100-L	19-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S2	E100-L	19-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S3	E100-L	19-Mar-2025	29-Mar-2025	30 days	10 days	✓	30-Mar-2025	30 days	10 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S1	E100-L	18-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S2	E100-L	18-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S3	E100-L	18-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S4	E100-L	18-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 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] BH25-06-S1	E100-L	17-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S2	E100-L	17-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S3	E100-L	17-Mar-2025	29-Mar-2025	30 days	11 days	✓	30-Mar-2025	30 days	11 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S1	E100-L	17-Mar-2025	29-Mar-2025	30 days	12 days	✓	30-Mar-2025	30 days	12 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S2	E100-L	17-Mar-2025	29-Mar-2025	30 days	12 days	✓	30-Mar-2025	30 days	12 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S3	E100-L	17-Mar-2025	29-Mar-2025	30 days	12 days	✓	30-Mar-2025	30 days	12 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S1	E100-L	19-Mar-2025	29-Mar-2025	30 days	9 days	✓	30-Mar-2025	30 days	9 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S2	E100-L	19-Mar-2025	29-Mar-2025	30 days	9 days	✓	30-Mar-2025	30 days	9 days	✓
Physical Tests : Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E100-L	19-Mar-2025	29-Mar-2025	30 days	9 days	✓	30-Mar-2025	30 days	9 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 : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	

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]										
BH25-06-S3	E144	17-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E144	18-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S3	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	

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] BH25-09-S2	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S3	E144	19-Mar-2025	----	----	----		25-Mar-2025	----	----	
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S1	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-08-S2	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-08-S3	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-09-S1	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-09-S2	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-09-S3	E108A	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	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] BH25-03-S1	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	30 days	7 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]										
BH25-03-S2	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-03-S3	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-03-S4	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-07-S1	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-07-S2	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-07-S3	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-07-S4	E108A	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	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]										
BH25-04-S1	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 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]										
BH25-04-S3	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 days	✓
Physical Tests : pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E108A	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	30 days	8 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS (TCLP)										
Amber glass/Teflon lined cap										
TCLP-01	E688A	26-Mar-2025	27-Mar-2025	22 days	9 days	✓	28-Mar-2025	40 days	1 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S1	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S2	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 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
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E687	18-Mar-2025	28-Mar-2025	365 days	10 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S3	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 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
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E687	17-Mar-2025	28-Mar-2025	365 days	11 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S3	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S1	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S2	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polychlorinated Biphenyls : PCB Aroclors by GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-09-S3	E687	19-Mar-2025	28-Mar-2025	365 days	9 days	✓	31-Mar-2025	40 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S1	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-08-S2	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	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
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S1	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S2	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S3	E641A	19-Mar-2025	25-Mar-2025	60 days	6 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S1	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S2	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S3	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S4	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S1	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	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
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S2	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S3	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-07-S4	E641A	18-Mar-2025	25-Mar-2025	60 days	7 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S1	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S2	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-04-S3	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S1	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S2	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	40 days	2 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap [ON MECP] BH25-06-S3	E641A	17-Mar-2025	25-Mar-2025	60 days	8 days	✓	27-Mar-2025	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
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-03-S5	HOLD	18-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-03-S6	HOLD	18-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-04-S4	HOLD	17-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-04-S5	HOLD	17-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-06-S4	HOLD	17-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-06-S5	HOLD	17-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-07-S5	HOLD	18-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-08-S4	HOLD	19-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-08-S5	HOLD	19-Mar-2025	----	----	----		26-Mar-2025	----	----	

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 methanol vial [ON MECP] BH25-09-S4	HOLD	19-Mar-2025	----	----	----		26-Mar-2025	----	----	
Sample Data : Sample Hold Fee for Soil/Solid										
Glass soil methanol vial [ON MECP] BH25-09-S5	HOLD	19-Mar-2025	----	----	----		26-Mar-2025	----	----	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S1	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S2	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-08-S3	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S1	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S2	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-09-S3	E532	19-Mar-2025	25-Mar-2025	30 days	6 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP] BH25-03-S1	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 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]										
BH25-03-S2	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S3	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-03-S4	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S1	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S2	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S3	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-07-S4	E532	18-Mar-2025	25-Mar-2025	30 days	7 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S1	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-04-S2	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 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]										
BH25-04-S3	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S1	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S2	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap [ON MECP]										
BH25-06-S3	E532	17-Mar-2025	25-Mar-2025	30 days	8 days	✓	28-Mar-2025	7 days	3 days	✓
TCLP Extractables : Fluoride by IC (TCLP)										
HDPE [ON MECP]										
TCLP-01	E240.F	26-Mar-2025	27-Mar-2025	36 days	9 days	✓	27-Mar-2025	36 days	9 days	✓
TCLP Extractables : Nitrate by IC (TCLP)										
HDPE [ON MECP]										
TCLP-01	E240.NO3	26-Mar-2025	27-Mar-2025	15 days	9 days	✓	27-Mar-2025	15 days	9 days	✓
TCLP Extractables : Nitrite by IC (TCLP)										
HDPE [ON MECP]										
TCLP-01	E240.NO2	26-Mar-2025	27-Mar-2025	15 days	9 days	✓	27-Mar-2025	15 days	9 days	✓
TCLP Extractables : PAHs by GC-MS (TCLP)										
Amber glass/Teflon lined cap (sodium bisulfate)										
TCLP-01	E644	26-Mar-2025	28-Mar-2025	22 days	10 days	✓	28-Mar-2025	40 days	0 days	✓
TCLP Extractables : PCB Aroclors by GC-MS (TCLP)										
Amber glass/Teflon lined cap										
TCLP-01	E688A	26-Mar-2025	27-Mar-2025	22 days	9 days	✓	28-Mar-2025	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*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
TCLP Extractables : WAD Cyanide (TCLP)										
HDPE-Total (Lab Preserved)										
TCLP-01	E337A	26-Mar-2025	27-Mar-2025	22 days	9 days	✓	27-Mar-2025	22 days	9 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved)										
TCLP-01	E512	26-Mar-2025	27-Mar-2025	36 days	9 days	✓	27-Mar-2025	36 days	9 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
TCLP-01	E444	26-Mar-2025	27-Mar-2025	188 days	9 days	✓	27-Mar-2025	188 days	9 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 14 day HT (e.g. CN,SVOC)										
TCLP-01	EPP444	18-Mar-2025	26-Mar-2025	----	----		----	14 days	8 days	✓
TCLP VOCs : VOCs by Headspace GC-MS (TCLP)										
Glass vial (sodium bisulfate)										
TCLP-01	E615B	26-Mar-2025	27-Mar-2025	22 days	9 days	✓	27-Mar-2025	22 days	9 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
BH25-08-S1	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
BH25-08-S2	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
BH25-08-S3	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP]										
BH25-09-S1	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	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
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-09-S2	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-09-S3	E611D	19-Mar-2025	25-Mar-2025	14 days	6 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-03-S1	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-03-S2	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-03-S3	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-03-S4	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-07-S1	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-07-S2	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-07-S3	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	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*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-07-S4	E611D	18-Mar-2025	25-Mar-2025	14 days	7 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-04-S1	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-04-S2	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-04-S3	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-06-S1	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-06-S2	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass soil methanol vial [ON MECP] BH25-06-S3	E611D	17-Mar-2025	25-Mar-2025	14 days	8 days	✓	26-Mar-2025	40 days	1 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	1923305	1	20	5.0	5.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	1923303	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1923309	1	20	5.0	5.0	✓
Fluoride by IC (TCLP)	E240.F	1927645	1	11	9.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	1927647	1	11	9.0	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	1927646	1	11	9.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	1923299	1	20	5.0	5.0	✓
WAD Cyanide (TCLP)	E337A	1927105	1	11	9.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1923308	1	20	5.0	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	1927046	1	13	7.6	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1923304	1	20	5.0	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	1923306	1	20	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1923307	1	20	5.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	1927041	1	13	7.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1923298	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1923699	2	36	5.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1923301	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1923700	2	38	5.2	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	1926981	1	11	9.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1923300	1	20	5.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	1928482	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS	E687	1928628	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	1927525	1	7	14.2	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	1923305	2	20	10.0	10.0	✓
pH by Meter (1:2 Soil:0.01M CaCl2 Extraction) - As Received	E108A	1923303	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1923309	1	20	5.0	5.0	✓
Fluoride by IC (TCLP)	E240.F	1927645	1	11	9.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	1927647	1	11	9.0	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	1927646	1	11	9.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	1923299	1	20	5.0	5.0	✓
WAD Cyanide (TCLP)	E337A	1927105	1	11	9.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1923308	2	20	10.0	10.0	✓
Metals by CRC ICPMS (TCLP)	E444	1927046	1	13	7.6	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1923304	2	20	10.0	10.0	✓
Boron-Hot Water Extractable by ICPOES	E487	1923306	2	20	10.0	10.0	✓

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*
Laboratory Control Samples (LCS) - Continued							
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1923307	2	20	10.0	10.0	✓
Mercury by CVAAS (TCLP)	E512	1927041	1	13	7.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1923298	2	20	10.0	10.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1923699	2	36	5.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1923301	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1923700	2	38	5.2	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	1926981	1	11	9.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1923300	1	20	5.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	1928482	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS	E687	1928628	2	20	10.0	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	1927525	1	7	14.2	5.0	✓
Method Blanks (MB)							
Conductivity in Soil (1:2 Soil:Water Extraction) (Low Level)	E100-L	1923305	1	20	5.0	5.0	✓
Moisture Content by Gravimetry	E144	1923309	1	20	5.0	5.0	✓
Fluoride by IC (TCLP)	E240.F	1927645	1	11	9.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	1927647	1	11	9.0	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	1927646	1	11	9.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	1923299	1	20	5.0	5.0	✓
WAD Cyanide (TCLP)	E337A	1927105	1	11	9.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS (<355 µm)	E440C	1923308	1	20	5.0	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	1927046	1	13	7.6	5.0	✓
Sodium Adsorption Ratio (SAR) - 1:2 Soil:Water (Dry)	E484	1923304	1	20	5.0	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	1923306	1	20	5.0	5.0	✓
Mercury in Soil/Solid by CVAAS (<355 µm)	E510C	1923307	1	20	5.0	5.0	✓
Mercury by CVAAS (TCLP)	E512	1927041	1	13	7.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1923298	1	20	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1923699	2	36	5.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1923301	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1923700	2	38	5.2	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	1926981	1	11	9.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1923300	1	20	5.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	1928482	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS	E687	1928628	2	20	10.0	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	1927525	1	7	14.2	5.0	✓
Matrix Spikes (MS)							
Fluoride by IC (TCLP)	E240.F	1927645	1	11	9.0	5.0	✓
Nitrite by IC (TCLP)	E240.NO2	1927647	1	11	9.0	5.0	✓
Nitrate by IC (TCLP)	E240.NO3	1927646	1	11	9.0	5.0	✓
WAD Cyanide (0.01M NaOH Extraction)	E336A	1923299	1	20	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*
Matrix Spikes (MS) - Continued							
WAD Cyanide (TCLP)	E337A	1927105	1	11	9.0	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	1927046	1	13	7.6	5.0	✓
Mercury by CVAAS (TCLP)	E512	1927041	1	13	7.6	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1923699	2	36	5.5	5.0	✓
CCME PHCs - F2-F4 by GC-FID (Low Level)	E601.SG-L	1923301	1	20	5.0	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1923700	2	38	5.2	5.0	✓
VOCs by Headspace GC-MS (TCLP)	E615B	1926981	1	11	9.0	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS	E641A	1923300	1	20	5.0	5.0	✓
PAHs by GC-MS (TCLP)	E644	1928482	1	8	12.5	5.0	✓
PCB Aroclors by GC-MS	E687	1928628	1	20	5.0	5.0	✓
PCB Aroclors by GC-MS (TCLP)	E688A	1927525	1	7	14.2	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.
Fluoride by IC (TCLP)	E240.F ALS Environmental - Waterloo	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite by IC (TCLP)	E240.NO2 ALS Environmental - Waterloo	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate by IC (TCLP)	E240.NO3 ALS Environmental - Waterloo	Soil/Solid	EPA 1311/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining an extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311, which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
WAD Cyanide (0.01M NaOH Extraction)	E336A ALS Environmental - Waterloo	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.
WAD Cyanide (TCLP)	E337A ALS Environmental - Waterloo	Soil/Solid	APHA 4500-CN I (mod)	Weak Acid Dissociable (WAD) cyanide is determined after extraction by Continuous Flow Analyzer (CFA) with in-line distillation followed by colourmetric analysis.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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.
Metals by CRC ICPMS (TCLP)	E444 ALS Environmental - Waterloo	Soil/Solid	EPA 1311/6020B (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS.
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 HNO3 and HCl, followed by CVAAS analysis.
Mercury by CVAAS (TCLP)	E512 ALS Environmental - Waterloo	Soil/Solid	EPA 1311/245.1 (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS.
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.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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.
VOCs by Headspace GC-MS (TCLP)	E615B ALS Environmental - Waterloo	Soil/Solid	EPA 1311/8260D (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.
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. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
PAHs by GC-MS (TCLP)	E644 ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by GC-MS.
PCB Aroclors by GC-MS	E687 ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS
PCB Aroclors by GC-MS (TCLP)	E688A ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	PCB Aroclors are analyzed by GC-MS

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Nitrate and Nitrite (as N), (TCLP) (Calculation)	EC240.N+N ALS Environmental - Waterloo	Soil/Solid	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
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.
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
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.
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 HNO3 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 Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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.
VOCs Preparation for Headspace Analysis (TCLP)	EP582 ALS Environmental - Waterloo	Soil/Solid	EPA 5021A (mod)	Liquid obtained after the TCLP process is 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.
PHCs and PAHs Extraction (TCLP)	EP602 ALS Environmental - Waterloo	Soil/Solid	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
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.
Pesticides, PCB, and Neutral Extractable Chlorinated Hydrocarbons Extraction (TCLP)	EP661 ALS Environmental - Waterloo	Soil/Solid	EPA 3511 (mod)	Samples are extracted from aqueous sample using an organic solvent liquid-liquid extraction.
TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 ALS Environmental - Waterloo	Soil/Solid	EPA 1311	Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18+/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests.
TCLP Leachate Preparation (VOCs)	EPP582 ALS Environmental - Waterloo	Soil/Solid	EPA 1311	An extract produced by the Toxicity Characteristic Leaching Procedure (TCLP) as per EPA 1311.

QUALITY CONTROL REPORT

Work Order	: **WT2506041**	Page	: 1 of 29
Amendment	: **1**		
Client	: Hatch Ltd.	Laboratory	: ALS Environmental - Waterloo
Contact	: Owen Salvucci	Account Manager	: Andrew Martin
Address	: 2599 Speakman Drive Mississauga ON Canada L5K 2R7	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: ----	Telephone	: +1 519 886 6910
Project	: H/368027 (NB RIP TRACK)	Date Samples Received	: 24-Mar-2025 11:30
PO	: ----	Date Analysis Commenced	: 25-Mar-2025
C-O-C number	: ----	Issue Date	: 16-Jun-2025 16:01
Sampler	: ----		
Site	: ----		
Quote number	: Ontario 2024/2025 SOA		
No. of samples received	: 32		
No. of samples analysed	: 32		

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
- Reference Material (RM) 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
Ismat Sultana	Account Manager Assistant	Waterloo Administration, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
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Robert Braun	Soils Team Supervisor	Waterloo Inorganics, Waterloo, Ontario
Sarah Birch	VOC Section Supervisor	Waterloo VOC, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, 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: 1923303)											
WT2506041-002	BH25-06-S2	pH (1:2 soil:CaCl2-aq)	----	E108A	0.10	pH units	6.92	6.90	0.289%	5%	----
Physical Tests (QC Lot: 1923305)											
WT2506041-002	BH25-06-S2	Conductivity (1:2 leachate)	----	E100-L	5.00	µS/cm	0.0900 mS/cm	93.5	3.81%	20%	----
Physical Tests (QC Lot: 1923309)											
WT2506041-001	BH25-06-S1	Moisture	----	E144	0.25	%	12.3	11.8	4.23%	20%	----
Cyanides (QC Lot: 1923299)											
WT2506041-001	BH25-06-S1	Cyanide, weak acid dissociable	----	E336A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Metals (QC Lot: 1923304)											
WT2506041-002	BH25-06-S2	Calcium, soluble ion content	7440-70-2	E484	0.50	mg/L	1.95	2.03	0.08	Diff <2x LOR	----
		Magnesium, soluble ion content	7439-95-4	E484	0.50	mg/L	0.89	0.84	0.05	Diff <2x LOR	----
		Sodium, soluble ion content	17341-25-2	E484	0.50	mg/L	4.86	5.04	3.64%	30%	----
Metals (QC Lot: 1923306)											
WT2506041-001	BH25-06-S1	Boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	0.12	0.13	0.004	Diff <2x LOR	----
Metals (QC Lot: 1923307)											
WT2506041-001	BH25-06-S1	Mercury	7439-97-6	E510C	0.0050	mg/kg	0.0156	0.0180	0.0024	Diff <2x LOR	----
Metals (QC Lot: 1923308)											
WT2506041-001	BH25-06-S1	Antimony	7440-36-0	E440C	0.10	mg/kg	0.51	0.49	0.02	Diff <2x LOR	----
		Arsenic	7440-38-2	E440C	0.10	mg/kg	2.03	1.97	2.89%	30%	----
		Barium	7440-39-3	E440C	0.50	mg/kg	52.6	50.9	3.33%	40%	----
		Beryllium	7440-41-7	E440C	0.10	mg/kg	0.21	0.19	0.01	Diff <2x LOR	----
		Boron	7440-42-8	E440C	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440C	0.020	mg/kg	0.364	0.381	4.51%	30%	----
		Chromium	7440-47-3	E440C	0.50	mg/kg	58.0	46.0	23.1%	30%	----
		Cobalt	7440-48-4	E440C	0.10	mg/kg	5.86	5.61	4.41%	30%	----
		Copper	7440-50-8	E440C	0.50	mg/kg	18.3	16.3	11.6%	30%	----
		Lead	7439-92-1	E440C	0.50	mg/kg	8.64	8.16	5.78%	40%	----
		Molybdenum	7439-98-7	E440C	0.10	mg/kg	1.20	0.88	30.6%	40%	----
		Nickel	7440-02-0	E440C	0.50	mg/kg	15.0	13.8	8.09%	30%	----
		Selenium	7782-49-2	E440C	0.20	mg/kg	0.20	<0.20	0.004	Diff <2x LOR	----
		Silver	7440-22-4	E440C	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----

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*
Metals (QC Lot: 1923308) - continued											
WT2506041-001	BH25-06-S1	Thallium	7440-28-0	E440C	0.050	mg/kg	0.103	0.095	0.008	Diff <2x LOR	----
		Uranium	7440-61-1	E440C	0.050	mg/kg	0.579	0.484	17.9%	30%	----
		Vanadium	7440-62-2	E440C	0.20	mg/kg	17.7	16.0	10.3%	30%	----
		Zinc	7440-66-6	E440C	2.0	mg/kg	106	102	3.33%	30%	----
Speciated Metals (QC Lot: 1923298)											
WT2506041-001	BH25-06-S1	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1927105)											
WT2505978-002	Anonymous	Cyanide, weak acid dissociable, TCLP	----	E337A	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1927525)											
WT2505978-002	Anonymous	Aroclor 1016, TCLP	12674-11-2	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1221, TCLP	11104-28-2	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1232, TCLP	11141-16-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1242, TCLP	53469-21-9	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1248, TCLP	12672-29-6	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1254, TCLP	11097-69-1	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1260, TCLP	11096-82-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1262, TCLP	37324-23-5	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Aroclor 1268, TCLP	11100-14-4	E688A	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1927645)											
WT2505978-002	Anonymous	Fluoride, TCLP	16984-48-8	E240.F	10	mg/L	<10	<10	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1927646)											
WT2505978-002	Anonymous	Nitrate (as N), TCLP	14797-55-8	E240.NO3	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1927647)											
WT2505978-002	Anonymous	Nitrite (as N), TCLP	14797-65-0	E240.NO2	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
TCLP Extractables (QC Lot: 1928482)											
WT2505978-002	Anonymous	Acenaphthene, TCLP	83-32-9	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Acenaphthylene, TCLP	208-96-8	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Acridine, TCLP	260-94-6	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Anthracene, TCLP	120-12-7	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Benz(a)anthracene, TCLP	56-55-3	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----

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*
TCLP Extractables (QC Lot: 1928482) - continued											
WT2505978-002	Anonymous	Benzo(a)pyrene, TCLP	50-32-8	E644	0.20	µg/L	<0.00020 mg/L	<0.20	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene, TCLP	----	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene, TCLP	191-24-2	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Benzo(k)fluoranthene, TCLP	207-08-9	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Chrysene, TCLP	218-01-9	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene, TCLP	53-70-3	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Fluoranthene, TCLP	206-44-0	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Fluorene, TCLP	86-73-7	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Indeno(1,2,3-cd)pyrene, TCLP	193-39-5	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Naphthalene, TCLP	91-20-3	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Phenanthrene, TCLP	85-01-8	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Pyrene, TCLP	129-00-0	E644	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 1927041)											
WT2505991-001	Anonymous	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 1927046)											
WT2505991-001	Anonymous	Arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		Boron, TCLP	7440-42-8	E444	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Selenium, TCLP	7782-49-2	E444	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
		Silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Uranium, TCLP	7440-61-1	E444	0.20	mg/L	<0.20	<0.20	0	Diff <2x LOR	----
TCLP VOCs (QC Lot: 1926981)											
TY2502786-001	Anonymous	Benzene, TCLP	71-43-2	E615B	5.0	µg/L	<0.0050 mg/L	<5.0	0	Diff <2x LOR	----
		Carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Chloroform, TCLP	67-66-3	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Dichloromethane, TCLP	75-09-2	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----

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*
TCLP VOCs (QC Lot: 1926981) - continued											
TY2502786-001	Anonymous	Methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	<0.10 mg/L	<100	0	Diff <2x LOR	----
		Tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	<0.025 mg/L	<25	0	Diff <2x LOR	----
		Vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	<0.050 mg/L	<50	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1923700)											
WT2506005-001	Anonymous	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	0.0064	0.0060	0.0004	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	0.020	0.019	0.0008	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.050	mg/kg	0.423	0.432	2.00%	40%	----
		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	----

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*
Volatile Organic Compounds (QC Lot: 1923700) - continued											
WT2506005-001	Anonymous	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	----
		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	0.179	0.177	1.20%	40%	----
		Xylene, o-	95-47-6	E611D	0.030	mg/kg	0.061	0.061	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1924179)											
WT2505905-001	Anonymous	Acetone	67-64-1	E611D	0.50	mg/kg	<0.50 µg/g	<0.50	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.0050	mg/kg	<0.0050 µg/g	<0.0050	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	0.045	mg/kg	<0.045 µg/g	<0.045	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.030	mg/kg	<0.030 µg/g	<0.030	0	Diff <2x LOR	----

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*
Volatile Organic Compounds (QC Lot: 1924179) - continued											
WT2505905-001	Anonymous	Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.030	mg/kg	<0.030 µg/g	<0.030	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.015	mg/kg	<0.015 µg/g	<0.015	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	0.50	mg/kg	<0.50 µg/g	<0.50	0	Diff <2x LOR	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.50	mg/kg	<0.50 µg/g	<0.50	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.040	mg/kg	<0.040 µg/g	<0.040	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.010	mg/kg	<0.010 µg/g	<0.010	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.020	mg/kg	<0.020 µg/g	<0.020	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.030	mg/kg	<0.030 µg/g	<0.030	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.030	mg/kg	<0.030 µg/g	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1923301)											
WT2506041-002	BH25-06-S2	F2 (C10-C16)	----	E601.SG-L	10	mg/kg	53	42	10	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	----
Hydrocarbons (QC Lot: 1923699)											
WT2506005-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	9.4	10.1	0.7	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1924180)											
WT2505905-001	Anonymous	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0 µg/g	<5.0	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 1923300)											
WT2506041-002	BH25-06-S2	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	----

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*
Polycyclic Aromatic Hydrocarbons (QC Lot: 1923300) - continued											
WT2506041-002	BH25-06-S2	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-c,d)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	0.224	0.220	1.98%	50%	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	0.239	0.250	4.65%	50%	----
		Naphthalene	91-20-3	E641A	0.024	mg/kg	<0.024	<0.024	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: 1931496)											
WT2506041-002	BH25-06-S2	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	----

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: 1923305)						
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	<5.00	----
Physical Tests (QCLot: 1923309)						
Moisture	----	E144	0.25	%	<0.25	----
Cyanides (QCLot: 1923299)						
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	<0.050	----
Metals (QCLot: 1923304)						
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 (QCLot: 1923306)						
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Metals (QCLot: 1923307)						
Mercury	7439-97-6	E510C	0.005	mg/kg	<0.0050	----
Metals (QCLot: 1923308)						
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	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Speciated Metals (QCLot: 1923298)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
TCLP Extractables (QCLot: 1927105)						
Cyanide, weak acid dissociable, TCLP	----	E337A	0.1	mg/L	<0.10	----
TCLP Extractables (QCLot: 1927525)						
Aroclor 1016, TCLP	12674-11-2	E688A	0.2	µg/L	<0.20	----
Aroclor 1221, TCLP	11104-28-2	E688A	0.2	µg/L	<0.20	----
Aroclor 1232, TCLP	11141-16-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1242, TCLP	53469-21-9	E688A	0.2	µg/L	<0.20	----
Aroclor 1248, TCLP	12672-29-6	E688A	0.2	µg/L	<0.20	----
Aroclor 1254, TCLP	11097-69-1	E688A	0.2	µg/L	<0.20	----
Aroclor 1260, TCLP	11096-82-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1262, TCLP	37324-23-5	E688A	0.2	µg/L	<0.20	----
Aroclor 1268, TCLP	11100-14-4	E688A	0.2	µg/L	<0.20	----
TCLP Extractables (QCLot: 1927645)						
Fluoride, TCLP	16984-48-8	E240.F	10	mg/L	<10	----
TCLP Extractables (QCLot: 1927646)						
Nitrate (as N), TCLP	14797-55-8	E240.NO3	5	mg/L	<5.0	----
TCLP Extractables (QCLot: 1927647)						
Nitrite (as N), TCLP	14797-65-0	E240.NO2	5	mg/L	<5.0	----
TCLP Extractables (QCLot: 1928482)						
Acenaphthene, TCLP	83-32-9	E644	5	µg/L	<5.0	----
Acenaphthylene, TCLP	208-96-8	E644	5	µg/L	<5.0	----
Acridine, TCLP	260-94-6	E644	5	µg/L	<5.0	----
Anthracene, TCLP	120-12-7	E644	5	µg/L	<5.0	----
Benz(a)anthracene, TCLP	56-55-3	E644	5	µg/L	<5.0	----
Benzo(a)pyrene, TCLP	50-32-8	E644	0.2	µg/L	<0.20	----
Benzo(b+j)fluoranthene, TCLP	----	E644	5	µg/L	<5.0	----
Benzo(g,h,i)perylene, TCLP	191-24-2	E644	5	µg/L	<5.0	----
Benzo(k)fluoranthene, TCLP	207-08-9	E644	5	µg/L	<5.0	----
Chrysene, TCLP	218-01-9	E644	5	µg/L	<5.0	----
Dibenz(a,h)anthracene, TCLP	53-70-3	E644	5	µg/L	<5.0	----
Fluoranthene, TCLP	206-44-0	E644	5	µg/L	<5.0	----
Fluorene, TCLP	86-73-7	E644	5	µg/L	<5.0	----
Indeno(1,2,3-cd)pyrene, TCLP	193-39-5	E644	5	µg/L	<5.0	----
Naphthalene, TCLP	91-20-3	E644	5	µg/L	<5.0	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP Extractables (QCLot: 1928482) - continued						
Phenanthrene, TCLP	85-01-8	E644	5	µg/L	<5.0	----
Pyrene, TCLP	129-00-0	E644	5	µg/L	<5.0	----
TCLP Metals (QCLot: 1927041)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 1927046)						
Arsenic, TCLP	7440-38-2	E444	1	mg/L	<1.0	----
Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	----
Boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
TCLP VOCs (QCLot: 1926981)						
Benzene, TCLP	71-43-2	E615B	5	µg/L	<5.0	----
Carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	<25	----
Chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	<25	----
Chloroform, TCLP	67-66-3	E615B	100	µg/L	<100	----
Dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	<25	----
Dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	<25	----
Dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	<25	----
Dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	<25	----
Dichloromethane, TCLP	75-09-2	E615B	100	µg/L	<100	----
Methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	<100	----
Tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	<25	----
Trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	<25	----
Vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	<50	----
Volatile Organic Compounds (QCLot: 1923700)						
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	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1923700) - continued						
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	<0.050	----
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	----
Volatile Organic Compounds (QCLot: 1924179)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1924179) - continued						
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	----
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	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1924179) - continued						
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 (QCLot: 1923301)						
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	----
Hydrocarbons (QCLot: 1923699)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 1924180)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1923300)						
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-c,d)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	----
Polychlorinated Biphenyls (QCLot: 1928628)						
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	NR	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	NR	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polychlorinated Biphenyls (QCLot: 1928628) - continued						
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	NR	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	NR	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	NR	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	NR	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	NR	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	NR	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	NR	----
Polychlorinated Biphenyls (QCLot: 1931496)						
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	----

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: 1923303)									
pH (1:2 soil:CaCl2-aq)	----	E108A	----	pH units	7 pH units	99.6	98.0	102	----
Physical Tests (QCLot: 1923305)									
Conductivity (1:2 leachate)	----	E100-L	5	µS/cm	1410 µS/cm	98.6	90.0	110	----
Physical Tests (QCLot: 1923309)									
Moisture	----	E144	0.25	%	50 %	99.6	90.0	110	----
Cyanides (QCLot: 1923299)									
Cyanide, weak acid dissociable	----	E336A	0.05	mg/kg	1.25 mg/kg	88.0	80.0	120	----
Metals (QCLot: 1923304)									
Calcium, soluble ion content	7440-70-2	E484	0.5	mg/L	300 mg/L	105	80.0	120	----
Magnesium, soluble ion content	7439-95-4	E484	0.5	mg/L	50 mg/L	102	80.0	120	----
Sodium, soluble ion content	17341-25-2	E484	0.5	mg/L	50 mg/L	104	80.0	120	----
Metals (QCLot: 1923306)									
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	2 mg/kg	104	70.0	130	----
Metals (QCLot: 1923307)									
Mercury	7439-97-6	E510C	0.005	mg/kg	0.1 mg/kg	102	80.0	120	----
Metals (QCLot: 1923308)									
Antimony	7440-36-0	E440C	0.1	mg/kg	100 mg/kg	103	80.0	120	----
Arsenic	7440-38-2	E440C	0.1	mg/kg	100 mg/kg	106	80.0	120	----
Barium	7440-39-3	E440C	0.5	mg/kg	25 mg/kg	100	80.0	120	----
Beryllium	7440-41-7	E440C	0.1	mg/kg	10 mg/kg	97.0	80.0	120	----
Boron	7440-42-8	E440C	5	mg/kg	100 mg/kg	93.5	80.0	120	----
Cadmium	7440-43-9	E440C	0.02	mg/kg	10 mg/kg	98.6	80.0	120	----
Chromium	7440-47-3	E440C	0.5	mg/kg	25 mg/kg	99.6	80.0	120	----
Cobalt	7440-48-4	E440C	0.1	mg/kg	25 mg/kg	98.1	80.0	120	----
Copper	7440-50-8	E440C	0.5	mg/kg	25 mg/kg	98.2	80.0	120	----
Lead	7439-92-1	E440C	0.5	mg/kg	50 mg/kg	98.3	80.0	120	----
Molybdenum	7439-98-7	E440C	0.1	mg/kg	25 mg/kg	100	80.0	120	----
Nickel	7440-02-0	E440C	0.5	mg/kg	50 mg/kg	97.5	80.0	120	----
Selenium	7782-49-2	E440C	0.2	mg/kg	100 mg/kg	104	80.0	120	----
Silver	7440-22-4	E440C	0.1	mg/kg	10 mg/kg	89.9	80.0	120	----

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
Metals (QCLot: 1923308) - continued									
Thallium	7440-28-0	E440C	0.05	mg/kg	100 mg/kg	96.3	80.0	120	----
Uranium	7440-61-1	E440C	0.05	mg/kg	0.5 mg/kg	95.7	80.0	120	----
Vanadium	7440-62-2	E440C	0.2	mg/kg	50 mg/kg	100	80.0	120	----
Zinc	7440-66-6	E440C	2	mg/kg	50 mg/kg	97.0	80.0	120	----
Speciated Metals (QCLot: 1923298)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	102	80.0	120	----
TCLP Extractables (QCLot: 1927105)									
Cyanide, weak acid dissociable, TCLP	----	E337A	0.1	mg/L	6.25 mg/L	91.6	70.0	130	----
TCLP Extractables (QCLot: 1927525)									
Aroclor 1016, TCLP	12674-11-2	E688A	0.2	µg/L	0.2 µg/L	98.5	65.0	130	----
Aroclor 1221, TCLP	11104-28-2	E688A	0.2	µg/L	0.2 µg/L	98.5	65.0	130	----
Aroclor 1232, TCLP	11141-16-5	E688A	0.2	µg/L	0.2 µg/L	98.5	65.0	130	----
Aroclor 1242, TCLP	53469-21-9	E688A	0.2	µg/L	0.2 µg/L	98.5	65.0	130	----
Aroclor 1248, TCLP	12672-29-6	E688A	0.2	µg/L	0.2 µg/L	91.9	65.0	130	----
Aroclor 1254, TCLP	11097-69-1	E688A	0.2	µg/L	0.2 µg/L	93.0	65.0	130	----
Aroclor 1260, TCLP	11096-82-5	E688A	0.2	µg/L	0.2 µg/L	101	65.0	130	----
Aroclor 1262, TCLP	37324-23-5	E688A	0.2	µg/L	0.2 µg/L	101	65.0	130	----
Aroclor 1268, TCLP	11100-14-4	E688A	0.2	µg/L	0.2 µg/L	101	65.0	130	----
TCLP Extractables (QCLot: 1927645)									
Fluoride, TCLP	16984-48-8	E240.F	10	mg/L	1 mg/L	88.9	70.0	130	----
TCLP Extractables (QCLot: 1927646)									
Nitrate (as N), TCLP	14797-55-8	E240.NO3	5	mg/L	2.5 mg/L	97.2	85.0	115	----
TCLP Extractables (QCLot: 1927647)									
Nitrite (as N), TCLP	14797-65-0	E240.NO2	5	mg/L	0.5 mg/L	93.0	85.0	115	----
TCLP Extractables (QCLot: 1928482)									
Acenaphthene, TCLP	83-32-9	E644	5	µg/L	0.526 µg/L	104	50.0	130	----
Acenaphthylene, TCLP	208-96-8	E644	5	µg/L	0.526 µg/L	104	50.0	130	----
Acridine, TCLP	260-94-6	E644	5	µg/L	0.526 µg/L	132	50.0	140	----
Anthracene, TCLP	120-12-7	E644	5	µg/L	0.526 µg/L	98.6	50.0	130	----
Benz(a)anthracene, TCLP	56-55-3	E644	5	µg/L	0.526 µg/L	126	50.0	140	----
Benzo(a)pyrene, TCLP	50-32-8	E644	0.2	µg/L	0.526 µg/L	85.0	60.0	140	----
Benzo(b+j)fluoranthene, TCLP	----	E644	5	µg/L	0.526 µg/L	94.4	50.0	130	----
Benzo(g,h,i)perylene, TCLP	191-24-2	E644	5	µg/L	0.526 µg/L	84.1	50.0	140	----
Benzo(k)fluoranthene, TCLP	207-08-9	E644	5	µg/L	0.526 µg/L	73.2	50.0	150	----

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
TCLP Extractables (QCLot: 1928482) - continued									
Chrysene, TCLP	218-01-9	E644	5	µg/L	0.526 µg/L	102	50.0	140	----
Dibenz(a,h)anthracene, TCLP	53-70-3	E644	5	µg/L	0.526 µg/L	106	50.0	140	----
Fluoranthene, TCLP	206-44-0	E644	5	µg/L	0.526 µg/L	108	50.0	130	----
Fluorene, TCLP	86-73-7	E644	5	µg/L	0.526 µg/L	109	50.0	130	----
Indeno(1,2,3-cd)pyrene, TCLP	193-39-5	E644	5	µg/L	0.526 µg/L	115	50.0	140	----
Naphthalene, TCLP	91-20-3	E644	5	µg/L	0.526 µg/L	102	50.0	130	----
Phenanthrene, TCLP	85-01-8	E644	5	µg/L	0.526 µg/L	117	50.0	130	----
Pyrene, TCLP	129-00-0	E644	5	µg/L	0.526 µg/L	107	50.0	140	----
TCLP Metals (QCLot: 1927041)									
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	0 mg/L	92.9	70.0	130	----
TCLP Metals (QCLot: 1927046)									
Arsenic, TCLP	7440-38-2	E444	1	mg/L	0.05 mg/L	102	70.0	130	----
Barium, TCLP	7440-39-3	E444	2.5	mg/L	0.012 mg/L	97.1	70.0	130	----
Boron, TCLP	7440-42-8	E444	0.5	mg/L	0.05 mg/L	96.6	70.0	130	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	0.005 mg/L	96.6	70.0	130	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	0.012 mg/L	98.7	70.0	130	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	0.025 mg/L	103	70.0	130	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	0.05 mg/L	98.9	70.0	130	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	0.005 mg/L	89.8	70.0	130	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	0 mg/L	103	70.0	130	----
TCLP VOCs (QCLot: 1926981)									
Benzene, TCLP	71-43-2	E615B	5	µg/L	100 µg/L	98.4	70.0	130	----
Carbon tetrachloride, TCLP	56-23-5	E615B	25	µg/L	100 µg/L	96.0	60.0	140	----
Chlorobenzene, TCLP	108-90-7	E615B	25	µg/L	100 µg/L	99.9	70.0	130	----
Chloroform, TCLP	67-66-3	E615B	100	µg/L	100 µg/L	96.8	70.0	130	----
Dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	25	µg/L	100 µg/L	101	70.0	130	----
Dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	25	µg/L	100 µg/L	98.6	70.0	130	----
Dichloroethane, 1,2-, TCLP	107-06-2	E615B	25	µg/L	100 µg/L	92.1	70.0	130	----
Dichloroethylene, 1,1-, TCLP	75-35-4	E615B	25	µg/L	100 µg/L	98.4	70.0	130	----
Dichloromethane, TCLP	75-09-2	E615B	100	µg/L	100 µg/L	93.8	70.0	130	----
Methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	100	µg/L	100 µg/L	100	50.0	150	----
Tetrachloroethylene, TCLP	127-18-4	E615B	25	µg/L	100 µg/L	97.5	70.0	130	----
Trichloroethylene, TCLP	79-01-6	E615B	25	µg/L	100 µg/L	99.2	70.0	130	----
Vinyl chloride, TCLP	75-01-4	E615B	50	µg/L	100 µg/L	94.0	60.0	130	----

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
Volatile Organic Compounds (QCLot: 1923700)									
Acetone	67-64-1	E611D	0.5	mg/kg	3.48 mg/kg	124	60.0	140	----
Benzene	71-43-2	E611D	0.005	mg/kg	3.48 mg/kg	96.0	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.48 mg/kg	92.4	50.0	140	----
Bromoform	75-25-2	E611D	0.05	mg/kg	3.48 mg/kg	99.0	70.0	130	----
Bromomethane	74-83-9	E611D	0.05	mg/kg	3.48 mg/kg	65.3	50.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.48 mg/kg	78.5	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.48 mg/kg	93.4	70.0	130	----
Chloroform	67-66-3	E611D	0.05	mg/kg	3.48 mg/kg	83.6	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.48 mg/kg	97.2	60.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.48 mg/kg	98.3	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.48 mg/kg	90.9	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.48 mg/kg	87.4	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.48 mg/kg	90.0	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.48 mg/kg	58.5	50.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.48 mg/kg	90.8	60.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.48 mg/kg	90.5	60.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.48 mg/kg	84.9	60.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.48 mg/kg	95.1	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.48 mg/kg	92.6	60.0	130	----
Dichloromethane	75-09-2	E611D	0.045	mg/kg	3.48 mg/kg	95.2	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.48 mg/kg	100	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.48 mg/kg	97.1	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.48 mg/kg	100	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.48 mg/kg	92.8	70.0	130	----
Hexane, n-	110-54-3	E611D	0.05	mg/kg	3.48 mg/kg	91.4	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.48 mg/kg	128	60.0	140	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.48 mg/kg	122	60.0	140	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.48 mg/kg	89.8	70.0	130	----
Styrene	100-42-5	E611D	0.05	mg/kg	3.48 mg/kg	99.6	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.48 mg/kg	88.8	60.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.48 mg/kg	108	60.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.48 mg/kg	82.5	60.0	130	----
Toluene	108-88-3	E611D	0.05	mg/kg	3.48 mg/kg	93.9	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.48 mg/kg	79.0	60.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.48 mg/kg	98.7	60.0	130	----

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
Volatile Organic Compounds (QCLot: 1923700) - continued									
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.48 mg/kg	86.7	60.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.48 mg/kg	72.1	50.0	140	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.48 mg/kg	81.0	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	92.2	70.0	130	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	3.48 mg/kg	93.6	70.0	130	----
Volatile Organic Compounds (QCLot: 1924179)									
Acetone	67-64-1	E611D	0.5	mg/kg	3.48 mg/kg	103	60.0	140	----
Benzene	71-43-2	E611D	0.005	mg/kg	3.48 mg/kg	89.2	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.05	mg/kg	3.48 mg/kg	84.2	50.0	140	----
Bromoform	75-25-2	E611D	0.05	mg/kg	3.48 mg/kg	86.6	70.0	130	----
Bromomethane	74-83-9	E611D	0.05	mg/kg	3.48 mg/kg	65.4	50.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.05	mg/kg	3.48 mg/kg	87.2	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.05	mg/kg	3.48 mg/kg	84.9	70.0	130	----
Chloroform	67-66-3	E611D	0.05	mg/kg	3.48 mg/kg	88.3	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.05	mg/kg	3.48 mg/kg	83.6	60.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.05	mg/kg	3.48 mg/kg	78.9	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.05	mg/kg	3.48 mg/kg	87.9	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.05	mg/kg	3.48 mg/kg	88.6	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.05	mg/kg	3.48 mg/kg	88.1	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.05	mg/kg	3.48 mg/kg	67.6	50.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.05	mg/kg	3.48 mg/kg	88.4	60.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.05	mg/kg	3.48 mg/kg	87.9	60.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.05	mg/kg	3.48 mg/kg	87.2	60.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.05	mg/kg	3.48 mg/kg	89.8	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.05	mg/kg	3.48 mg/kg	90.7	60.0	130	----
Dichloromethane	75-09-2	E611D	0.045	mg/kg	3.48 mg/kg	85.1	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.05	mg/kg	3.48 mg/kg	89.7	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.03	mg/kg	3.48 mg/kg	86.7	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.03	mg/kg	3.48 mg/kg	83.4	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.015	mg/kg	3.48 mg/kg	86.2	70.0	130	----
Hexane, n-	110-54-3	E611D	0.05	mg/kg	3.48 mg/kg	90.2	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	0.5	mg/kg	3.48 mg/kg	91.7	60.0	140	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	0.5	mg/kg	3.48 mg/kg	83.8	60.0	140	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.04	mg/kg	3.48 mg/kg	89.9	70.0	130	----
Styrene	100-42-5	E611D	0.05	mg/kg	3.48 mg/kg	88.8	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.05	mg/kg	3.48 mg/kg	82.5	60.0	130	----

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
Volatile Organic Compounds (QCLot: 1924179) - continued									
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.05	mg/kg	3.48 mg/kg	85.7	60.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.05	mg/kg	3.48 mg/kg	80.9	60.0	130	----
Toluene	108-88-3	E611D	0.05	mg/kg	3.48 mg/kg	85.0	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.05	mg/kg	3.48 mg/kg	87.0	60.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.05	mg/kg	3.48 mg/kg	80.6	60.0	130	----
Trichloroethylene	79-01-6	E611D	0.01	mg/kg	3.48 mg/kg	85.0	60.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.05	mg/kg	3.48 mg/kg	82.4	50.0	140	----
Vinyl chloride	75-01-4	E611D	0.02	mg/kg	3.48 mg/kg	81.7	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.03	mg/kg	6.95 mg/kg	88.1	70.0	130	----
Xylene, o-	95-47-6	E611D	0.03	mg/kg	3.48 mg/kg	87.2	70.0	130	----
Hydrocarbons (QCLot: 1923301)									
F2 (C10-C16)	----	E601.SG-L	10	mg/kg	671 mg/kg	92.8	70.0	130	----
F3 (C16-C34)	----	E601.SG-L	50	mg/kg	1380 mg/kg	103	70.0	130	----
F4 (C34-C50)	----	E601.SG-L	50	mg/kg	748 mg/kg	101	70.0	130	----
Hydrocarbons (QCLot: 1923699)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.2 mg/kg	100	80.0	120	----
Hydrocarbons (QCLot: 1924180)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	69.2 mg/kg	102	80.0	120	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1923300)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	89.0	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	89.8	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	83.7	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	84.5	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	86.6	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	83.7	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	85.6	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	88.9	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	90.4	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	89.2	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	89.8	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	89.4	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	87.9	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	87.6	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	93.7	60.0	130	----

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
Polycyclic Aromatic Hydrocarbons (QCLot: 1923300) - continued									
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	93.3	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	86.1	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	87.5	60.0	130	----
Polychlorinated Biphenyls (QCLot: 1931496)									
Aroclor 1016	12674-11-2	E687	0.01	mg/kg	0.012 mg/kg	103	60.0	140	----
Aroclor 1221	11104-28-2	E687	0.01	mg/kg	0.012 mg/kg	103	60.0	140	----
Aroclor 1232	11141-16-5	E687	0.01	mg/kg	0.012 mg/kg	103	60.0	140	----
Aroclor 1242	53469-21-9	E687	0.01	mg/kg	0.012 mg/kg	103	60.0	140	----
Aroclor 1248	12672-29-6	E687	0.01	mg/kg	0.012 mg/kg	91.8	60.0	140	----
Aroclor 1254	11097-69-1	E687	0.01	mg/kg	0.012 mg/kg	95.2	60.0	140	----
Aroclor 1260	11096-82-5	E687	0.01	mg/kg	0.012 mg/kg	112	60.0	140	----
Aroclor 1262	37324-23-5	E687	0.01	mg/kg	0.012 mg/kg	112	60.0	140	----
Aroclor 1268	11100-14-4	E687	0.01	mg/kg	0.012 mg/kg	112	60.0	140	----

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
Cyanides (QCLot: 1923299)										
WT2506041-001	BH25-06-S1	Cyanide, weak acid dissociable	----	E336A	1.15 mg/kg	1.25 mg/kg	91.9	70.0	130	----
TCLP Extractables (QCLot: 1927105)										
WT2505978-002	Anonymous	Cyanide, weak acid dissociable, TCLP	----	E337A	5.27 mg/L	6.25 mg/L	84.3	50.0	140	----
TCLP Extractables (QCLot: 1927525)										
WT2505978-002	Anonymous	Aroclor 1016, TCLP	12674-11-2	E688A	0.20 µg/L	0.2 µg/L	99.0	50.0	150	----
		Aroclor 1221, TCLP	11104-28-2	E688A	0.20 µg/L	0.2 µg/L	99.0	50.0	150	----
		Aroclor 1232, TCLP	11141-16-5	E688A	0.20 µg/L	0.2 µg/L	99.0	50.0	150	----
		Aroclor 1242, TCLP	53469-21-9	E688A	0.20 µg/L	0.2 µg/L	98.5	50.0	150	----
		Aroclor 1248, TCLP	12672-29-6	E688A	0.20 µg/L	0.2 µg/L	99.0	50.0	150	----
		Aroclor 1254, TCLP	11097-69-1	E688A	0.19 µg/L	0.2 µg/L	97.0	50.0	150	----
		Aroclor 1260, TCLP	11096-82-5	E688A	0.21 µg/L	0.2 µg/L	103	50.0	150	----
		Aroclor 1262, TCLP	37324-23-5	E688A	0.21 µg/L	0.2 µg/L	104	50.0	150	----
		Aroclor 1268, TCLP	11100-14-4	E688A	0.21 µg/L	0.2 µg/L	104	50.0	150	----
TCLP Extractables (QCLot: 1927645)										
WT2505978-002	Anonymous	Fluoride, TCLP	16984-48-8	E240.F	17 mg/L	20 mg/L	87.3	50.0	140	----
TCLP Extractables (QCLot: 1927646)										
WT2505978-002	Anonymous	Nitrate (as N), TCLP	14797-55-8	E240.NO3	48.3 mg/L	50 mg/L	96.6	50.0	140	----
TCLP Extractables (QCLot: 1927647)										
WT2505978-002	Anonymous	Nitrite (as N), TCLP	14797-65-0	E240.NO2	9.3 mg/L	10 mg/L	92.9	50.0	140	----
TCLP Extractables (QCLot: 1928482)										
WT2505978-002	Anonymous	Acenaphthene, TCLP	83-32-9	E644	0.5 µg/L	0.526 µg/L	104	50.0	140	----
		Acenaphthylene, TCLP	208-96-8	E644	0.5 µg/L	0.526 µg/L	103	50.0	140	----
		Acridine, TCLP	260-94-6	E644	0.6 µg/L	0.526 µg/L	125	50.0	140	----
		Anthracene, TCLP	120-12-7	E644	0.5 µg/L	0.526 µg/L	94.0	50.0	140	----
		Benz(a)anthracene, TCLP	56-55-3	E644	0.9 µg/L	0.526 µg/L	179	50.0	140	K
		Benzo(a)pyrene, TCLP	50-32-8	E644	0.65 µg/L	0.526 µg/L	124	50.0	140	----
		Benzo(b+j)fluoranthene, TCLP	----	E644	0.9 µg/L	0.526 µg/L	164	50.0	140	K
		Benzo(g,h,i)perylene, TCLP	191-24-2	E644	0.4 µg/L	0.526 µg/L	83.8	50.0	140	----
		Benzo(k)fluoranthene, TCLP	207-08-9	E644	0.6 µg/L	0.526 µg/L	125	50.0	140	----
		Chrysene, TCLP	218-01-9	E644	0.8 µg/L	0.526 µg/L	152	50.0	140	K
		Dibenz(a,h)anthracene, TCLP	53-70-3	E644	0.5 µg/L	0.526 µg/L	99.9	50.0	140	----
		Fluoranthene, TCLP	206-44-0	E644	0.6 µg/L	0.526 µg/L	108	50.0	140	----
		Fluorene, TCLP	86-73-7	E644	0.6 µg/L	0.526 µg/L	108	50.0	140	----
		Indeno(1,2,3-cd)pyrene, TCLP	193-39-5	E644	0.6 µg/L	0.526 µg/L	112	50.0	140	----
		Naphthalene, TCLP	91-20-3	E644	0.7 µg/L	0.526 µg/L	128	50.0	140	----
		Phenanthrene, TCLP	85-01-8	E644	0.6 µg/L	0.526 µg/L	115	50.0	140	----

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
TCLP Extractables (QCLot: 1928482) - continued										
WT2505978-002	Anonymous	Pyrene, TCLP	129-00-0	E644	0.6 µg/L	0.526 µg/L	107	50.0	140	----
TCLP Metals (QCLot: 1927041)										
WT2505991-001	Anonymous	Mercury, TCLP	7439-97-6	E512	0.0026 mg/L	0.003 mg/L	88.1	50.0	140	----
TCLP Metals (QCLot: 1927046)										
WT2505991-001	Anonymous	Arsenic, TCLP	7440-38-2	E444	5.4 mg/L	5 mg/L	108	50.0	140	----
		Barium, TCLP	7440-39-3	E444	13.5 mg/L	12.5 mg/L	108	50.0	140	----
		Boron, TCLP	7440-42-8	E444	10.4 mg/L	10 mg/L	104	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.250 mg/L	0.25 mg/L	99.9	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.30 mg/L	1.25 mg/L	104	50.0	140	----
		Lead, TCLP	7439-92-1	E444	10.2 mg/L	10 mg/L	102	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	5.24 mg/L	5 mg/L	105	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.094 mg/L	0.1 mg/L	94.1	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	5.36 mg/L	5 mg/L	107	50.0	140	----
TCLP VOCs (QCLot: 1926981)										
TY2502786-001	Anonymous	Benzene, TCLP	71-43-2	E615B	210 µg/L	250 µg/L	83.9	50.0	140	----
		Carbon tetrachloride, TCLP	56-23-5	E615B	200 µg/L	250 µg/L	80.0	50.0	140	----
		Chlorobenzene, TCLP	108-90-7	E615B	226 µg/L	250 µg/L	90.5	50.0	140	----
		Chloroform, TCLP	67-66-3	E615B	210 µg/L	250 µg/L	84.0	50.0	140	----
		Dichlorobenzene, 1,2-, TCLP	95-50-1	E615B	237 µg/L	250 µg/L	95.0	50.0	140	----
		Dichlorobenzene, 1,4-, TCLP	106-46-7	E615B	232 µg/L	250 µg/L	92.6	50.0	140	----
		Dichloroethane, 1,2-, TCLP	107-06-2	E615B	202 µg/L	250 µg/L	81.0	50.0	140	----
		Dichloroethylene, 1,1-, TCLP	75-35-4	E615B	197 µg/L	250 µg/L	78.6	50.0	140	----
		Dichloromethane, TCLP	75-09-2	E615B	200 µg/L	250 µg/L	79.0	50.0	140	----
		Methyl ethyl ketone [MEK], TCLP	78-93-3	E615B	230 µg/L	250 µg/L	91.0	50.0	140	----
		Tetrachloroethylene, TCLP	127-18-4	E615B	211 µg/L	250 µg/L	84.3	50.0	140	----
		Trichloroethylene, TCLP	79-01-6	E615B	212 µg/L	250 µg/L	84.9	50.0	140	----
		Vinyl chloride, TCLP	75-01-4	E615B	178 µg/L	250 µg/L	71.0	50.0	140	----
Volatile Organic Compounds (QCLot: 1923700)										
WT2506005-001	Anonymous	Acetone	67-64-1	E611D	3.42 mg/kg	2.34 mg/kg	146	50.0	140	MES
		Benzene	71-43-2	E611D	2.67 mg/kg	2.34 mg/kg	114	50.0	140	----
		Bromodichloromethane	75-27-4	E611D	2.58 mg/kg	2.34 mg/kg	110	50.0	140	----
		Bromoform	75-25-2	E611D	2.71 mg/kg	2.34 mg/kg	116	50.0	140	----
		Bromomethane	74-83-9	E611D	1.96 mg/kg	2.34 mg/kg	83.8	50.0	140	----
		Carbon tetrachloride	56-23-5	E611D	2.19 mg/kg	2.34 mg/kg	93.5	50.0	140	----
		Chlorobenzene	108-90-7	E611D	2.55 mg/kg	2.34 mg/kg	109	50.0	140	----
		Chloroform	67-66-3	E611D	2.34 mg/kg	2.34 mg/kg	100	50.0	140	----
		Dibromochloromethane	124-48-1	E611D	2.65 mg/kg	2.34 mg/kg	113	50.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	2.69 mg/kg	2.34 mg/kg	115	50.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	2.45 mg/kg	2.34 mg/kg	105	50.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	2.38 mg/kg	2.34 mg/kg	102	50.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	2.44 mg/kg	2.34 mg/kg	104	50.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	2.54 mg/kg	2.34 mg/kg	108	50.0	140	----

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: 1923700) - continued										
WT2506005-001	Anonymous	Dichloroethane, 1,1-	75-34-3	E611D	2.56 mg/kg	2.34 mg/kg	109	50.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	2.51 mg/kg	2.34 mg/kg	107	50.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	2.45 mg/kg	2.34 mg/kg	105	50.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	2.66 mg/kg	2.34 mg/kg	114	50.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	2.59 mg/kg	2.34 mg/kg	111	50.0	140	----
		Dichloromethane	75-09-2	E611D	2.65 mg/kg	2.34 mg/kg	113	50.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	2.80 mg/kg	2.34 mg/kg	120	50.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	2.71 mg/kg	2.34 mg/kg	116	50.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	2.76 mg/kg	2.34 mg/kg	118	50.0	140	----
		Ethylbenzene	100-41-4	E611D	2.56 mg/kg	2.34 mg/kg	109	50.0	140	----
		Hexane, n-	110-54-3	E611D	2.65 mg/kg	2.34 mg/kg	113	50.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	3.46 mg/kg	2.34 mg/kg	148	50.0	140	MES
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	3.32 mg/kg	2.34 mg/kg	142	50.0	140	MES
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.37 mg/kg	2.34 mg/kg	101	50.0	140	----
		Styrene	100-42-5	E611D	2.74 mg/kg	2.34 mg/kg	117	50.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	2.42 mg/kg	2.34 mg/kg	104	50.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	2.87 mg/kg	2.34 mg/kg	123	50.0	140	----
		Tetrachloroethylene	127-18-4	E611D	2.25 mg/kg	2.34 mg/kg	96.2	50.0	140	----
		Toluene	108-88-3	E611D	2.58 mg/kg	2.34 mg/kg	110	50.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	2.19 mg/kg	2.34 mg/kg	93.7	50.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	2.70 mg/kg	2.34 mg/kg	115	50.0	140	----
		Trichloroethylene	79-01-6	E611D	2.40 mg/kg	2.34 mg/kg	103	50.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	2.14 mg/kg	2.34 mg/kg	91.5	50.0	140	----
		Vinyl chloride	75-01-4	E611D	2.56 mg/kg	2.34 mg/kg	110	50.0	140	----
		Xylene, m+p-	179601-23-1	E611D	5.03 mg/kg	4.68 mg/kg	108	50.0	140	----
		Xylene, o-	95-47-6	E611D	2.55 mg/kg	2.34 mg/kg	109	50.0	140	----
Volatile Organic Compounds (QCLot: 1924179)										
WT2505905-001	Anonymous	Acetone	67-64-1	E611D	2.78 mg/kg	2.2 mg/kg	126	50.0	140	----
		Benzene	71-43-2	E611D	2.20 mg/kg	2.2 mg/kg	100	50.0	140	----
		Bromodichloromethane	75-27-4	E611D	2.11 mg/kg	2.2 mg/kg	96.0	50.0	140	----
		Bromoform	75-25-2	E611D	2.12 mg/kg	2.2 mg/kg	96.2	50.0	140	----
		Bromomethane	74-83-9	E611D	1.71 mg/kg	2.2 mg/kg	77.8	50.0	140	----
		Carbon tetrachloride	56-23-5	E611D	2.12 mg/kg	2.2 mg/kg	96.5	50.0	140	----
		Chlorobenzene	108-90-7	E611D	2.06 mg/kg	2.2 mg/kg	93.6	50.0	140	----
		Chloroform	67-66-3	E611D	2.19 mg/kg	2.2 mg/kg	99.6	50.0	140	----
		Dibromochloromethane	124-48-1	E611D	2.08 mg/kg	2.2 mg/kg	94.4	50.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	2.00 mg/kg	2.2 mg/kg	90.9	50.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	2.11 mg/kg	2.2 mg/kg	95.9	50.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	2.08 mg/kg	2.2 mg/kg	94.5	50.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	2.08 mg/kg	2.2 mg/kg	94.6	50.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	2.56 mg/kg	2.2 mg/kg	116	50.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	2.19 mg/kg	2.2 mg/kg	99.6	50.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	2.24 mg/kg	2.2 mg/kg	102	50.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	2.19 mg/kg	2.2 mg/kg	99.5	50.0	140	----

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: 1924179) - continued										
WT2505905-001	Anonymous	Dichloroethylene, cis-1,2-	156-59-2	E611D	2.23 mg/kg	2.2 mg/kg	101	50.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	2.24 mg/kg	2.2 mg/kg	102	50.0	140	----
		Dichloromethane	75-09-2	E611D	2.15 mg/kg	2.2 mg/kg	97.8	50.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611D	2.24 mg/kg	2.2 mg/kg	102	50.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	2.18 mg/kg	2.2 mg/kg	98.8	50.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	2.07 mg/kg	2.2 mg/kg	94.1	50.0	140	----
		Ethylbenzene	100-41-4	E611D	2.07 mg/kg	2.2 mg/kg	94.1	50.0	140	----
		Hexane, n-	110-54-3	E611D	2.30 mg/kg	2.2 mg/kg	105	50.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	2.50 mg/kg	2.2 mg/kg	113	50.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	2.26 mg/kg	2.2 mg/kg	103	50.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	2.13 mg/kg	2.2 mg/kg	96.9	50.0	140	----
		Styrene	100-42-5	E611D	2.18 mg/kg	2.2 mg/kg	98.8	50.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	2.01 mg/kg	2.2 mg/kg	91.3	50.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	2.15 mg/kg	2.2 mg/kg	97.7	50.0	140	----
		Tetrachloroethylene	127-18-4	E611D	1.93 mg/kg	2.2 mg/kg	87.6	50.0	140	----
		Toluene	108-88-3	E611D	2.06 mg/kg	2.2 mg/kg	93.5	50.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	2.13 mg/kg	2.2 mg/kg	96.9	50.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	2.03 mg/kg	2.2 mg/kg	92.3	50.0	140	----
		Trichloroethylene	79-01-6	E611D	2.07 mg/kg	2.2 mg/kg	94.1	50.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	2.09 mg/kg	2.2 mg/kg	95.0	50.0	140	----
		Vinyl chloride	75-01-4	E611D	2.23 mg/kg	2.2 mg/kg	101	50.0	140	----
		Xylene, m+p-	179601-23-1	E611D	4.22 mg/kg	4.41 mg/kg	95.8	50.0	140	----
		Xylene, o-	95-47-6	E611D	2.12 mg/kg	2.2 mg/kg	96.1	50.0	140	----
Hydrocarbons (QCLot: 1923301)										
WT2506041-002	BH25-06-S2	F2 (C10-C16)	----	E601.SG-L	517 mg/kg	535 mg/kg	96.6	60.0	140	----
		F3 (C16-C34)	----	E601.SG-L	1070 mg/kg	1100 mg/kg	96.8	60.0	140	----
		F4 (C34-C50)	----	E601.SG-L	606 mg/kg	597 mg/kg	102	60.0	140	----
Hydrocarbons (QCLot: 1923699)										
WT2506005-001	Anonymous	F1 (C6-C10)	----	E581.F1	46.6 mg/kg	46.8 mg/kg	99.5	60.0	140	----
Hydrocarbons (QCLot: 1924180)										
WT2505905-001	Anonymous	F1 (C6-C10)	----	E581.F1	42.8 mg/kg	44.1 mg/kg	97.0	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1923300)										
WT2506041-002	BH25-06-S2	Acenaphthene	83-32-9	E641A	0.363 mg/kg	0.398 mg/kg	91.2	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.370 mg/kg	0.398 mg/kg	92.9	50.0	140	----
		Anthracene	120-12-7	E641A	0.356 mg/kg	0.398 mg/kg	89.4	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.352 mg/kg	0.398 mg/kg	88.4	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.364 mg/kg	0.398 mg/kg	91.4	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.355 mg/kg	0.398 mg/kg	89.1	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.343 mg/kg	0.398 mg/kg	86.2	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.377 mg/kg	0.398 mg/kg	94.5	50.0	140	----
		Chrysene	218-01-9	E641A	0.375 mg/kg	0.398 mg/kg	94.2	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.368 mg/kg	0.398 mg/kg	92.4	50.0	140	----

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
Polycyclic Aromatic Hydrocarbons (QCLot: 1923300) - continued										
WT2506041-002	BH25-06-S2	Fluoranthene	206-44-0	E641A	0.377 mg/kg	0.398 mg/kg	94.7	50.0	140	----
		Fluorene	86-73-7	E641A	0.364 mg/kg	0.398 mg/kg	91.3	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.366 mg/kg	0.398 mg/kg	92.0	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.282 mg/kg	0.398 mg/kg	70.7	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.308 mg/kg	0.398 mg/kg	77.4	50.0	140	----
		Naphthalene	91-20-3	E641A	0.332 mg/kg	0.398 mg/kg	83.4	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.356 mg/kg	0.398 mg/kg	89.4	50.0	140	----
		Pyrene	129-00-0	E641A	0.363 mg/kg	0.398 mg/kg	91.0	50.0	140	----
Polychlorinated Biphenyls (QCLot: 1931496)										
WT2506041-002	BH25-06-S2	Aroclor 1016	12674-11-2	E687	0.020 mg/kg	0.02 mg/kg	101	50.0	150	----
		Aroclor 1221	11104-28-2	E687	0.020 mg/kg	0.02 mg/kg	101	50.0	150	----
		Aroclor 1232	11141-16-5	E687	0.020 mg/kg	0.02 mg/kg	101	50.0	150	----
		Aroclor 1242	53469-21-9	E687	0.020 mg/kg	0.02 mg/kg	99.0	50.0	150	----
		Aroclor 1248	12672-29-6	E687	0.020 mg/kg	0.02 mg/kg	101	50.0	150	----
		Aroclor 1254	11097-69-1	E687	0.018 mg/kg	0.02 mg/kg	90.0	50.0	150	----
		Aroclor 1260	11096-82-5	E687	0.021 mg/kg	0.02 mg/kg	107	50.0	150	----
		Aroclor 1262	37324-23-5	E687	0.022 mg/kg	0.02 mg/kg	109	50.0	150	----
		Aroclor 1268	11100-14-4	E687	0.022 mg/kg	0.02 mg/kg	109	50.0	150	----

Qualifiers

Qualifier	Description
K	*Matrix Spike recovery outside ALS DQO due to sample matrix effects.*
MES	*Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).*

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:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Physical Tests (QCLot: 1923305)									
QC-1923305-003	RM	Conductivity (1:2 leachate)	----	E100-L	3260 µS/cm	98.8	70.0	130	----
Metals (QCLot: 1923304)									
QC-1923304-003	RM	Calcium, soluble ion content	7440-70-2	E484	184 mg/L	97.8	70.0	130	----
QC-1923304-003	RM	Magnesium, soluble ion content	7439-95-4	E484	66.2 mg/L	100	70.0	130	----
QC-1923304-003	RM	Sodium, soluble ion content	17341-25-2	E484	111 mg/L	103	70.0	130	----
Metals (QCLot: 1923306)									
QC-1923306-003	RM	Boron, hot water soluble	7440-42-8	E487	1.69 mg/kg	115	60.0	140	----
Metals (QCLot: 1923307)									
QC-1923307-003	RM	Mercury	7439-97-6	E510C	0.068 mg/kg	102	70.0	130	----
Metals (QCLot: 1923308)									
QC-1923308-003	RM	Antimony	7440-36-0	E440C	24.8 mg/kg	92.1	70.0	130	----
QC-1923308-003	RM	Arsenic	7440-38-2	E440C	21.2 mg/kg	98.7	70.0	130	----
QC-1923308-003	RM	Barium	7440-39-3	E440C	788 mg/kg	102	70.0	130	----
QC-1923308-003	RM	Beryllium	7440-41-7	E440C	1.82 mg/kg	95.9	70.0	130	----
QC-1923308-003	RM	Cadmium	7440-43-9	E440C	2.15 mg/kg	99.1	70.0	130	----
QC-1923308-003	RM	Chromium	7440-47-3	E440C	56.9 mg/kg	99.5	70.0	130	----
QC-1923308-003	RM	Cobalt	7440-48-4	E440C	32 mg/kg	97.4	70.0	130	----
QC-1923308-003	RM	Copper	7440-50-8	E440C	969 mg/kg	106	70.0	130	----
QC-1923308-003	RM	Lead	7439-92-1	E440C	919 mg/kg	92.2	70.0	130	----
QC-1923308-003	RM	Molybdenum	7439-98-7	E440C	25.1 mg/kg	96.4	70.0	130	----
QC-1923308-003	RM	Nickel	7440-02-0	E440C	1000 mg/kg	106	70.0	130	----
QC-1923308-003	RM	Selenium	7782-49-2	E440C	1.04 mg/kg	104	60.0	140	----
QC-1923308-003	RM	Silver	7440-22-4	E440C	8.98 mg/kg	89.3	70.0	130	----
QC-1923308-003	RM	Thallium	7440-28-0	E440C	0.907 mg/kg	89.7	70.0	130	----
QC-1923308-003	RM	Uranium	7440-61-1	E440C	3.97 mg/kg	89.4	70.0	130	----
QC-1923308-003	RM	Vanadium	7440-62-2	E440C	66.2 mg/kg	97.8	70.0	130	----
QC-1923308-003	RM	Zinc	7440-66-6	E440C	828 mg/kg	96.9	70.0	130	----
Speciated Metals (QCLot: 1923298)									
QC-1923298-003	RM	Chromium, hexavalent [Cr VI]	18540-29-9	E532	134 mg/kg	84.2	70.0	130	----

T-737
VS- 1665/1666
SOL - 1666/1667/1668/1669

Chain of Custody (COC) / Analytical Request Form

COC Number: 23 - 1125701

Page 1 of 3

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Canada Toll Free: 1 800 668 9878

Environmental Division
Waterloo
Work Order Reference
WT2506041

Telephone : +1 519 886 6910

Report To	Contact and company name below will appear on the final report
Company:	Hatch
Contact:	Owen Salvucci
Phone:	905-973-1331
Company address below will appear on the final report	
Street:	2699 Speakman Dr
City/Province:	Mississauga, ON
Postal Code:	L5K 1B1
Invoice To	Same as Report To: YES NO
	Copy of Invoice with Report: YES NO
Company:	
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: owen.salvucci@hatch.com
Email 2: warren.hayle@hatch.com
Email 3:

Invoice Recipients

Select Invoice Distribution: EMAIL MAIL FAX
Email 1 or Fax: owen.salvucci@hatch.com
Email 2:

Turnaround Time (TAT) Requested

- [X] Routine [R] if received by 3pm M-F - no surcharges apply
- [ ] 4 day [P4] if received by 3pm M-F - 20% rush surcharge min
- [ ] 3 day [P3] if received by 3pm M-F - 25% rush surcharge mi
- [ ] 2 day [P2] if received by 3pm M-F - 50% rush surcharge mi
- [ ] 1 day [E] if received by 3pm M-F - 100% rush surcharge min
- [ ] Same day [E2] if received by 10am M-S - 200% rush surchar

Additional fees may apply to rush requests on wee

Date and Time Required for all E&P TATs:

For all tests with rush TATs requested, plea

Project Information

ALS Client Code / QUOTE #:
Job / Project #: H/368027 (NB RIP Track)
PO / AFE:
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): WT2506041
ALS Contact: Sampler:

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

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	PHC(F1-F4)+BTEX	PAH	MEI	VOC	PCB	TCLP(MEI, PAH, VOC, PCB)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIR	SUSPECTED HAZARD (see not
	BH25-06-S1	17-03-25	18:30	Soil	4	R	R	R	R	R				
	BH25-06-S2				4	R	R	R	R	R				
	BH25-06-S3				4	R	R	R	R	R				
	BH25-06-S4				3							X		
	BH25-06-S5				3							X		
	BH25-07-S1	18-03-25	17:30		4	R	R	R	R	R				
	BH25-07-S2				4	R	R	R	R	R				
	BH25-07-S3				4	R	R	R	R	R				
	BH25-07-S4				4	R	R	R	R	R		X		
	BH25-07-S5				3							X		
	TCLP-01				3						R			

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)

* Assumed all samples contaminated w hydrocarbons. *

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: NONE ICE ICE PACKS FROZEN COOLING INITIATED
Cooler Custody Seals Intact: YES N/A Sample Custody Seals Intact: YES N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C		
				2.6	4.1	3.0

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Owen Salvucci	21-03-25	18:00

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
	3/24/25	1130

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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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: 23 - 1125700

Page 2 of 3

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	Hatch
Contact:	Owen Salvucci
Phone:	905-977-1331
	Company address below will appear on the final report
Street:	2699 Speakman Dr
City/Province:	Mississauga, ON
Postal Code:	L5K 1B1

Invoice To		
	Same as Report To	[X] YES [ ] NO
	Copy of Invoice with Report	[X] YES [ ] NO
Company:		
Contact:		

Project Information	
ALS Client Code / QUOTE #:	
Job / Project #:	H/368027 (NB RIP Track)
PO / AFE:	
LSD:	
ALS Lab Work Order # (ALS use only):	

Reports / Recipients

Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)

Merge QC/QCI Reports with COA [X] YES [ ] NO [ ] N/A

[ ] Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax: owen.salvucci@hatch.com

Email 2: warren.hayle@hatch.com

Email 3:

Invoice Recipients

Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX

Email 1 or Fax: owen.salvucci@hatch.com

Email 2:

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Contact: | Sampler:

Turnaround Time (TAT) Requested

[X] 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 for 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)

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	PHC(F1-F4)+BTEX	M&I	PAH	VOC	PCB	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	BH25-03-S1	18-03-25	10:00	Soil	4	R	R	R	R	R			
	BH25-03-S2	"	"	"	4	R	R	R	R	R			
	BH25-03-S3	"	"	"	4	R	R	R	R	R			
	BH25-03-S4	"	"	"	4	R	R	R	R	R			
	BH25-03-S5	"	"	"	3						X		
	BH25-03-S6	"	"	"	3						X		
	BH25-04-S1	17-03-25	13:00	"	4	R	R	R	R	R			
	BH25-04-S2	"	"	"	4	R	R	R	R	R			
	BH25-04-S3	"	"	"	4	R	R	R	R	R			
	BH25-04-S4	"	"	"	3						X		
	BH25-04-S5	"	"	"	3						X		

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

Are samples taken from a Regulated DW System? [ ] YES [X] NO

Are samples for human consumption/ use? [ ] YES [X] NO

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

* Assumed all sample contaminated w hydrocarbons. *

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: [ ] NONE [X] ICE [X] ICE PACKS [ ] FROZEN [ ] COOLING INITIATED

Cooler Custody Seals Intact: [X] YES [ ] N/A Sample Custody Seals Intact: [ ] YES [ ] N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				2.6	4.1	3.0	

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Owen Salvucci	21-03-25	8:00

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
	3/24/25	1130

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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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: 23 - 1125702

Page 3 of 3

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	Hatch
Contact:	Owen Salvucci
Phone:	905-973-1331
	Company address below will appear on the final report
Street:	2699 Speakman Dr
City/Province:	Mississauga, ON
Postal Code:	~~L5~~ L5K 1B1
Invoice To	Same as Report To ☒ YES ☐ NO
	Copy of Invoice with Report ☒ YES ☐ NO
Company:	
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: owen.salvucci@hatch.com

Email 2: ~~warren.saltsky~~

Email 3: warren.hoyle@hatch.com

Invoice Recipients

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: owen.salvucci@hatch.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 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.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for 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.

Project Information

ALS Client Code / QUOTE #:	
Job / Project #:	H/368027 (NB RIP Track)
PO / AFE:	
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:

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	PHC (F1-F4) + BTEX	PAH	M&I	VOC	PCB	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	BH25-08-S1	19-03-25	17:00	Soil	4	R	R	R	R	R			
	BH25-08-S2				4	R	R	R	R	R			
	BH25-08-~~S2~~ S3				4	R	R	R	R	R			
	BH25-08-S4				3						X		
	BH25-08-S5				3						X		
	BH25-09-S1		11:00		4	R	R	R	R	R			
	BH25-09-S2				4	R	R	R	R	R			
	BH25-09-S3				4	R	R	R	R	R			
	BH25-09-S4				3						X		
	BH25-09-S5				3						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)

Assumed the samples are contaminated w hydrocarbons.

SAMPLE RECEIPT DETAILS (ALS use only)

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

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

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C		
				2.6	4.1	3.0

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
Owen Salvucci	21-03-25	18:00

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time
	24/03/25	1130

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JAN 2023 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 F
Relative Percent Difference (RPD) Calculations

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Physical Tests (Matrix: Soil/Solid)									
Conductivity (1:2 leachate)	0.0844	0.0732	**14.2%**	0.0420	0.0680	**47.3%**			
Moisture	16.0	15.4	3.8%	19.7	18.3	7.4%			
Oxidation-reduction potential [ORP]									
Resistivity									
pH (1:2 soil:CaCl2-aq)	6.79	6.67	0.12	5.59	6.24	**0.65**			
Cyanides (Matrix: Soil/Solid)									
Cyanide, weak acid dissociable	0.050	0.050	0.0%	0.050	0.050	0.0%			
Inorganics (Matrix: Soil/Solid)									
Sulfate, total, ion content									
Sulfides, acid volatile									
Sulfate, soluble ion content									
Fixed-Ratio Extractables (Matrix: Soil/Solid)									
Calcium, soluble ion content	1.85	1.58	15.7%	1.10	2.12	**63.4%**			
Magnesium, soluble ion content	1.18	1.12	5.2%	1.01	0.74	**30.9%**			
Sodium, soluble ion content	3.41	3.44	0.9%	1.04	1.84	**55.6%**			
Sodium adsorption ratio [SAR]	0.48	0.51	6.1%	0.17	0.28	48.9%			
Metals (Matrix: Soil/Solid)									
Antimony	0.10	0.10	0.0%	0.10	0.10	0.0%			
Arsenic	1.08	0.84	25.0%	1.06	1.11	4.6%			
Barium	14.3	13.5	5.8%	16.9	10.1	**50.4%**			
Beryllium	0.10	0.10	0.0%	0.12	0.10	18.2%			
Boron	5.0	5.0	0.0%	5.0	5.0	0.0%			
Boron, hot water soluble	0.10	0.10	0.0%	0.16	0.10	**46.2%**			
Cadmium	0.023	0.036	**44.1%**	0.027	0.020	29.8%			
Chromium	15.5	13.1	16.8%	16.7	10.5	**45.6%**			
Cobalt	2.74	2.71	1.1%	3.18	2.56	21.6%			
Copper	2.99	2.69	10.6%	3.94	2.45	**46.6%**			
Lead	1.37	1.08	23.7%	1.29	0.92	**33.5%**			

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Mercury	0.0050	0.0050	0.0%	0.0050	0.0050	0.0%			
Molybdenum	0.10	0.14	**33.3%**	0.16	0.10	**46.2%**			
Nickel	7.53	6.95	8.0%	8.63	6.57	27.1%			
Selenium	0.20	0.20	0.0%	0.20	0.20	0.0%			
Silver	0.10	0.10	0.0%	0.10	0.10	0.0%			
Thallium	0.050	0.050	0.0%	0.050	0.050	0.0%			
Uranium	0.411	0.319	25.2%	0.298	0.240	21.6%			
Vanadium	12.5	10.5	17.4%	13.4	8.57	**44.0%**			
Zinc	11.6	11.8	1.7%	13.1	9.2	**35.0%**			
Speciated Metals (Matrix: Soil/Solid)									
Chromium, hexavalent [Cr VI]	0.20	0.17	16.2%	0.35	0.23	**41.4%**			
Leachable Anions & Nutrients (Matrix: Soil/Solid)									
Chloride, soluble ion content									
Sulfate, soluble ion content									
Volatile Organic Compounds (Matrix: Soil/Solid)									
Acetone	0.50	0.50	0.0%	0.50	0.50	0.0%			
Benzene	0.0050	0.0050	0.0%	0.0050	0.0050	0.0%	0.50	0.50	0.0%
Bromodichloromethane	0.050	0.050	0.0%	0.050	0.050	0.0%			
Bromoform	0.050	0.050	0.0%	0.050	0.050	0.0%			
Bromomethane	0.050	0.050	0.0%	0.050	0.050	0.0%			
Carbon disulfide									
Carbon tetrachloride	0.050	0.050	0.0%	0.050	0.050	0.0%			
Chlorobenzene	0.050	0.050	0.0%	0.050	0.050	0.0%			
Chloroethane									
Chloroform	0.050	0.050	0.0%	0.050	0.050	0.0%			
Chloromethane									
Dibromochloromethane	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dibromoethane, 1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichlorobenzene, 1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Dichlorobenzene, 1,3-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichlorobenzene, 1,4-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichlorodifluoromethane	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloroethane, 1,1-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloroethane, 1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloroethylene, 1,1-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloroethylene, cis-1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloroethylene, trans-1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloromethane	0.045	0.045	0.0%	0.045	0.045	0.0%			
Dichloropropane, 1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloropropylene, cis+trans-1,3-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Dichloropropylene, cis-1,3-	0.030	0.030	0.0%	0.030	0.030	0.0%			
Dichloropropylene, trans-1,3-	0.030	0.030	0.0%	0.030	0.030	0.0%			
Ethylbenzene	0.015	0.015	0.0%	0.015	0.015	0.0%	0.50	0.50	0.0%
Hexane, n-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Hexanone, 2-									
Methyl ethyl ketone [MEK]	0.50	0.50	0.0%	0.50	0.50	0.0%			
Methyl isobutyl ketone [MIBK]	0.50	0.50	0.0%	0.50	0.50	0.0%			
Methyl-tert-butyl ether [MTBE]	0.040	0.040	0.0%	0.040	0.040	0.0%	0.50	0.50	0.0%
Styrene	0.050	0.050	0.0%	0.050	0.050	0.0%			
Tetrachloroethane, 1,1,1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Tetrachloroethane, 1,1,2,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Tetrachloroethylene	0.050	0.050	0.0%	0.050	0.050	0.0%			
Toluene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.68	0.63	7.6%
Trichloroethane, 1,1,1-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Trichloroethane, 1,1,2-	0.050	0.050	0.0%	0.050	0.050	0.0%			
Trichloroethylene	0.010	0.010	0.0%	0.010	0.010	0.0%			
Trichlorofluoromethane	0.050	0.050	0.0%	0.050	0.050	0.0%			
Vinyl chloride	0.020	0.020	0.0%	0.020	0.020	0.0%			
Xylene, m+p-	0.030	0.030	0.0%	0.030	0.030	0.0%	0.40	0.40	0.0%
Xylene, o-	0.030	0.030	0.0%	0.030	0.030	0.0%	0.30	0.30	0.0%
Xylenes, total	0.050	0.050	0.0%	0.050	0.050	0.0%	0.50	0.50	0.0%
BTEX, total	0.10	0.10	0.0%	0.10	0.10	0.0%	1.0	1.0	0.0%
Trihalomethanes [THMs], total									

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Hydrocarbons (Matrix: Soil/Solid)									
F1 (C6-C10)	5.0	5.0	0.0%	5.0	5.0	0.0%	25	25	0.0%
F2-Naphthalene	25	25	0.0%	25	25	0.0%	100	100	0.0%
F3-PAH	50	50	0.0%	50	50	0.0%	250	250	0.0%
F1-BTEX	5.0	5.0	0.0%	5.0	5.0	0.0%	25	25	0.0%
F2 (C10-C16)	10	10	0.0%	10	10	0.0%	100	100	0.0%
F3 (C16-C34)	50	50	0.0%	50	50	0.0%	250	250	0.0%
F4 (C34-C50)	50	50	0.0%	50	50	0.0%	250	250	0.0%
F4G-sg									
Hydrocarbons, total (C6-C50)	80	80	0.0%	80	80	0.0%	370	370	0.0%
Chromatogram to baseline at nC50	YES	YES		YES	YES		YES	YES	
Hydrocarbons Surrogates (Matrix: Soil/Solid)									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	94.8	93.4	1.5%	92.7	95.7	3.2%	87.5	89.7	2.5%
Dichlorotoluene, 3,4-	89.2	92.8	4.0%	103	102	1.0%	100	105	4.9%
Volatile Organic Compounds Surrogates (Matrix: Soil/Solid)									
Bromofluorobenzene, 4-	86.3	87.2	1.0%	87.1	92.9	6.4%	86.8 86.8	87.5 87.5	
Difluorobenzene, 1,4-	97.9	99.0	1.1%	95.8	108	12.0%	94.9 94.9	94.4 94.4	
Polycyclic Aromatic Hydrocarbons (Matrix: Soil/Solid)									
Acenaphthene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.123	0.131	6.3%
Acenaphthylene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Anthracene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Benz(a)anthracene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Benzo(a)pyrene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.0050	0.0050	0.0%
Benzo(b+j)fluoranthene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Benzo(g,h,i)perylene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Benzo(k)fluoranthene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Chrysene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Dibenz(a,h)anthracene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.0050	0.0050	0.0%
Fluoranthene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Fluorene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.014	0.014	0.0%
Indeno(1,2,3-c,d)pyrene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Methylnaphthalene, 1+2-	0.050	0.050	0.0%	0.050	0.050	0.0%	0.022	0.021	4.7%
Methylnaphthalene, 1-	0.030	0.030	0.0%	0.030	0.030	0.0%	0.022	0.021	4.7%
Methylnaphthalene, 2-	0.030	0.030	0.0%	0.030	0.030	0.0%	0.010	0.010	0.0%
Naphthalene	0.010	0.010	0.0%	0.010	0.010	0.0%	0.050	0.050	0.0%
Phenanthrene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.020	0.020	0.0%
Pyrene	0.050	0.050	0.0%	0.050	0.050	0.0%	0.010	0.010	0.0%
Polycyclic Aromatic Hydrocarbons Surrogates (Matrix: Soil/Solid)									
Acridine-d9	84.1	78.4	7.0%	83.5	86.4	3.4%			
Chrysene-d12	89.9	84.8	5.8%	88.2	92.4	4.7%	113	118	4.3%
Naphthalene-d8	97.0	89.0	8.6%	92.6	98.5	6.2%	95.6	99.4	3.9%
Phenanthrene-d10	87.0	80.9	7.3%	85.2	89.0	4.4%	104	109	4.7%
Polychlorinated Biphenyls (Matrix: Soil/Solid)									
Aroclor 1016	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1221	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1232	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1242	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1248	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1254	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1260	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1262	0.010	0.010	0.0%	0.010	0.010	0.0%			
Aroclor 1268	0.010	0.010	0.0%	0.010	0.010	0.0%			
Polychlorinated biphenyls [PCBs], total	0.030	0.030	0.0%	0.030	0.030	0.0%			
Polychlorinated Biphenyls Surrogates (Matrix: Soil/Solid)									

Relative Percent Difference (RPD) Calculations

Client Sample ID	BH25-03-S2	BH25-03-S3	RPD	BH25-07-S2	BH25-07-S3	RPD	MW24-25	DUP-01	RPD
Date Sampled	18-Mar-2025	18-Mar-2025		18-Mar-2025	18-Mar-2025		19-Mar-2025	19-Mar-2025	
Time Sampled	10:00	10:00		17:30	17:30		14:00	14:00	
Depth (mbgs)									
ALS Sample ID	WT2506041-013	WT2506041-014		WT2506041-007	WT2506041-008		WT2506008-004	WT2506008-005	
Analyte	Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Soil	Sub-Matrix:Soil		Sub-Matrix:Water	Sub-Matrix:Water	
Decachlorobiphenyl	109	108	0.9%	87.2	105	18.5%			
Tetrachloro-m-xylene	91.7	92.6	1.0%	94.5	89.4	5.5%			

Notes:

1. = RPD Value Not Calculated
2. 0.0% = Exceeded RPD Value