DILLON CONSULTING

BUILD NOVA SCOTIA

Open Hearth Park and Harbourside East 2025 Long Term Maintenance and Monitoring Groundwater Event

Final Report

July 2026 – 25-1391-1000

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July 28, 2026

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Attention: Cory MacPhee, P.Eng.
Project Manager

Open Hearth Park and Harbourside East
2025 Long Term Maintenance and Monitoring Groundwater Event

Dillon Consulting Limited (Dillon) is pleased to submit the above referenced report. Should you have any questions or comments, please contact the undersigned at nwambolt@dillon.ca, (902) 562-9880 extension 5206 (office) or (902) 565-8539 (cellular).

Sincerely,

DILLON CONSULTING LIMITED

Nadine J. Wambolt, B.Tech., CET
Project Manager

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Site Professional

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Our file: 25-1391

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Executive Summary

Build Nova Scotia (BNS) is a Crown Corporation of the Province of Nova Scotia responsible for the Long Term Maintenance and Monitoring Program (LTMM) implemented at Open Hearth Park (OHP) and Harbourside East (HE). BNS retained Dillon Consulting Limited (Dillon) to conduct the LTMM program, which consists of an annual groundwater sampling program. The LTMM event completed in 2025 included measurement of hydraulic head levels and sample collection from monitor wells around the shorelines of OHP and across HE.

Groundwater quality trend analysis was performed for select monitor wells within the OHP and HE areas via Mann-Kendall trend analysis, and included PAH indicator parameters (i.e., anthracene, benzo(a)pyrene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene), and additional indicator general chemistry and metal parameters (i.e., sulfate, pH, total dissolved solids (TDS), and selenium). The purpose of the comparison of groundwater data collected during the LTMM monitoring event with post-remediation monitoring events is to identify changes (if any) in groundwater over time.

Overall, review of trend analysis for OHP indicates general plume stability. Review of trend analysis for HE indicates that the plume is stable or declining and not migrating though fluctuating concentrations occur for the select parameters.

Analytical data were assessed in comparison to the Nova Scotia Contaminated Sites Regulations (NS CSR) Tier I Environmental Quality Standards (EQS) for groundwater. Where Tier I EQS were not available (e.g., for some polycyclic aromatic hydrocarbons (PAHs) and metals in groundwater at non-potable sites), the Ontario Ministry of the Environment, Conservation and Parks (MECP) Groundwater Standards for use under Ontario's Environmental Protection Act were applied.

Analytical results indicate no exceedances of the NS Tier I EQS during the 2025 LTMM.

During the 2025 LTMM monitoring event, two monitor wells located in the former Domtar site had organic parameter concentrations above the default MECP standards (used when no Tier I EQS is available). Specifically, the findings indicated MECP exceedances in the following HE monitor wells for the parameters noted:

- CODT-201-MWC: The anthracene concentration exceeded the MECP standard. These findings are consistent with historical LTMM results. Mann-Kendall analysis indicates that anthracene concentrations in this well are stable; and

- CODT-008-MWB: The benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene concentrations exceeded the respective MECP standards. No exceedances were observed at this location during the 2024 LTMM; however, exceedances noted in 2025 are similar with 2023 results (noting in 2023 they were the first occurrence of these parameter exceedances at this location since 2016). Mann-Kendall analysis indicates the benzo(a)pyrene, chrysene, and indeno(1,2,3-cd)pyrene concentrations in this well are fluctuating.

Dense non-aqueous phase liquid (DNAPL) and light non-aqueous phase liquid (LNAPL) were not detected in the OHP and HE LTMM wells during the 2025 program.

This report was prepared by Dillon Consulting Limited for the sole benefit of our client, Build Nova Scotia. The conclusions reflect Dillon's judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report or any reliance on or decisions made based on it are the responsibilities of such third parties. Dillon accepts no responsibilities for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

1.0 Introduction

The footprint of the Sydney Tar Ponds and former Coke Ovens sites encompassed approximately 100 hectares of property within the Muggah Creek Watershed in the Cape Breton Regional Municipality of Nova Scotia. Extensive testing identified widespread contamination of soil, groundwater, surface water and sediments due to historical long term industrial use (former Sydney Steel Mill) of the property. The remediation project, managed by the Sydney Tar Ponds Agency (STPA), was a complex undertaking, consisting of many design and construction elements completed over several years. An Environmental Effects Monitoring (EEM) and Surface Water Compliance Monitoring Program was established as part of the remediation program to assess performance of construction/remedial measures.

Long term maintenance and monitoring (LTMM) was one of the major components of the proposed remedial strategy designed to be carried out following the completion of the primary remediation project (2009-2014). Build Nova Scotia is a Crown Corporation of the Province of Nova Scotia responsible for former lands involved in the Tar Ponds and Coke Ovens cleanup, now known as Open Hearth Park (OHP) and Harbourside East (HE) (Figures 1 and 2). As such, Build Nova Scotia is responsible for the LTMM, which has been implemented at OHP and HE.

This document details the groundwater monitoring completed at OHP and HE in 2025. Section 1.0 describes the scope of work. Methodologies are detailed in Section 2.0. Findings are presented in Section 3.0 and summarized in Section 4.0. Recommendations are presented in Section 5.0 and the disclaimer in Section 6.0. Data tables and supporting information are found in appendices referenced throughout the document.

1.1 Scope of Work

The annual LTMM groundwater sampling program for OHP and HE typically consisted of low flow groundwater sampling at 40 specific monitor wells located around the shorelines of OHP (i.e., North and South Ponds) and at HE (i.e., the former Coke Ovens site), and the collection of water levels, including product measurement checks, at an additional 19 monitor wells not designated for sampling. During 2025, one monitoring well CODT-206-MW was found destroyed (the protective casing and dedicated submersible pump were found laying on the nearby ground surface). Decommissioning was recommended and, upon approval from BNS, completed on August 6, 2025. Therefore, the 2025 LTMM included a total of 58 monitoring wells (i.e., 39 sampling wells and 19 additional select wells).

Samples were collected at each of the 39 monitor wells scheduled for sampling. The 39 groundwater samples, 4 field duplicate samples, and an equipment blank sample were analyzed for metals and general inorganic chemistry parameters. One monitor well (i.e., CODT-201-MWC located at the former Domtar site) was also analyzed for benzene, toluene, ethylbenzene, xylenes (collectively referred to as

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OPEN HEARTH PARK AND HARBOURSIDE EAST

2025 GROUNDWATER MONITORING EVENT

Site Location

Figure 1

- Harbourside East
- Open Hearth Park

0 250 500 1,000 1,500 m

SCALE 1:40,000

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OPEN HEARTH PARK AND HARBOURSIDE EAST

2025 GROUNDWATER MONITORING EVENT

Study Areas

Figure 2

Monitoring Wells

- Active Water Level Only
- Active Sample and Water Level
- Decommissioned 2025

0 50 100 200 300 m

MAP DRAWING INFORMATION:
Province of Nova Scotia Mapping

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BTEX) and modified total petroleum hydrocarbons (TPH). Five monitor wells (i.e., CODT-008-MWB, CODT-201-MWA, CODT-201-MWC, CODT-203-MW, and MCWS-309-MW, located at HE, in the area of the former Domtar site, and on the west portion of OHP) were also analyzed for polycyclic aromatic hydrocarbons (PAHs).

2.0 Project Methodologies

Methodologies are provided in the following sub-sections:

- **Section 2.1**: Health and Safety Processes;
- **Section 2.2**: Quality Control Processes;
- **Section 2.3**: LTMM Groundwater Monitoring Program; and
- **Section 2.4**: Data Compilation/Assessment.

2.1 Health and Safety Processes

Dillon developed a site-specific health and safety (H&S) plan for groundwater monitoring. Site specific information, such as, local emergency contact information and hospital routes are included in the plan, as well as, but not limited to the following:

- Identification of site activities and potential hazards;
- Completion of utility locates;
- Description of safe work practices and procedures;
- Description of PPE;
- Identification of safety training and first aid requirements; and
- Identification of emergency response procedures.

The project manager reviewed the H&S plan with field personnel prior to their mobilizing to the site. Field personnel were responsible for following the H&S plan, including conducting a job hazard analysis upon arrival at the site (i.e., OHP and HE).

2.2 Quality Control Process

Data Quality Objectives (DQOs) and applicable Standard Operating Procedures (SOPs) were reviewed with the team prior to embarking on field work. Other QC measures included, but were not necessarily limited to the following:

- Assignment of a coordinator to oversee field activities;
- Use of dedicated materials and equipment to reduce/prevent the potential of sample contamination;
- For equipment requiring use at multiple stations, appropriate decontamination prior to and after each deployment;
- Use of laboratory supplied sample bottles/containers;
- Collection of an appropriate number of duplicates and blanks;
- Proper storage of samples on ice in coolers immediately after collection;
- Timely transport of samples to the laboratory; and
- Daily documentation/review of notes.

Duplicate and Blank Collection

Four field duplicate samples, and one equipment blank were collected during the 2025 monitoring event. The field equipment used for the equipment blank was a stainless-steel interface probe; which is the only piece of field equipment that interacts with each of the monitor wells (i.e., as each well has a dedicated pump or dedicated low flow tubing).

Laboratory QC

Samples were delivered to Bureau Veritas (BV) Laboratories in Sydney, Nova Scotia for analysis. BV is accredited through the Standard Council of Canada (SCC) and is a member of the Canadian Association for Laboratory Accreditation (CALA). BV also applied internal laboratory QC measures including:

- Laboratory duplicates;
- Matrix Spikes (MS);
- Spiked Blanks (Process Recovery %); and
- Method blanks.

Laboratory DQOs, including MS recoveries, process recoveries, relative percent differences, and holding times, were reviewed to assess the quality of the data.

2.3 LTMM Groundwater Monitoring Program

Groundwater characteristics within the boundaries of the Muggah Creek Watershed were previously assessed through the installation and testing of a significant number of monitor wells as part of Phase II and III Environmental Site Assessments (ESAs) (JDAC, 2001 and 2002). The wells were either terminated within fill, native till, and/or shallow, intermediate and deeper bedrock units. Analytical data collected in conjunction with the ESAs, as well as in subsequent sampling events, confirmed widespread impacts, particularly PAHs, metals, and inorganic parameters, resulting from long term industrial use of the land. The JDAC data also suggested that the more permeable fractured shallow bedrock (SRx) unit represented the primary pathway for contaminant migration. The sampling wells included in the LTMM plan are specifically located in different areas across OHP and HE in an attempt to monitor and assess the performance of remediation.

The field component of the 2025 groundwater monitoring event was consistent with pre-construction/ baseline and quarterly construction monitoring events and involved the following activities:

- Measurement of hydraulic head levels; and
- Low flow groundwater sample collection.

2.3.1 Monitor Well Decommissioning and Repair

One monitoring well, CODT-206-MW (formerly included in the LTMM), was found destroyed in August 2025. The monitoring well was broken at surface, with the steel stickup protective casing, submersible pump, and j-plug removed (found laying on the nearby ground surface). Decommissioning was recommended and, upon approval from BNS, completed on August 6, 2025.

The monitoring well was manually decommissioned by filling with bentonite chips and then hydrated. The stickup protective casing, compression j-plugs and portions of the PVC casing (that could be removed) were removed from the site for appropriate disposal. The borehole was reinstated at surface with local soil material.

As there are other nearby wells providing sufficient coverage for this area as part of the LTMM, replacement of CODT-206-MW is not considered necessary at this time.

Another monitoring well CODT-205-MWA (not included in current LTMM) was found to have a damaged cover. The well cover and lock were replaced for this monitoring well on August 6, 2025.

2.3.2 Measurement of Hydraulic Head Levels

The number of monitor wells measured for water levels during the 2025 groundwater monitoring event was 58 (i.e., 39 sampling wells and 19 water level wells). Depth to water and the presence of light non-aqueous phase liquid (LNAPL) and/or dense non-aqueous phase liquid (DNAPL) in wells were manually measured using an interface probe. Measurements were taken from established reference points and water level information was recorded on field sampling sheets.

2.3.3 Sample Collection

Using 12V submersible pumps, installed as part of the EEM program for the Sydney Tar Ponds (STP) remediation project, water was purged from each well scheduled for sample collection until select field parameters stabilized, including water level. The rate of flow (0.1 to 0.4 liters/minute) at each well was controlled by an in-line valve. In instances where the dedicated submersible pumps were no longer working, a peristaltic pump was used. The water level was measured at 3-minute intervals and maintained at a constant head; if the water level started to drop, the flow rate was reduced to maintain a constant head. The sample tube was connected to a flow-through cell containing a Horiba U-22 multi-parameter probe. The general stabilization of the following parameters was used as indication that water representative of the groundwater in the aquifer was being collected:

- pH (+/- 0.1 unit);
- Specific conductance (+ / - 3%);
- Temperature (+ / - 3%); and
- Turbidity (+ / -10% for values greater than 1 NTU).

The time required for sampling generally ranged from 15 to 30 minutes, and typically 6 to 12 liters (L) of water was removed. Similar to the EEM program, stabilization of turbidity provided some challenges for a number of wells. In these cases, additional parameters, including dissolved oxygen (DO) and oxidation reduction potential (ORP), were referenced to confirm stabilized conditions.

2.3.4 Groundwater Analysis

Pursuant to RFP BNS-2526-0004 Groundwater Monitoring Services, groundwater samples were analyzed for BTEX and modified TPH (i.e., CODT-201-MWC sample only), PAHs (i.e., CODT-008-MWB, CODT-201-MWA, CODT-201-MWC, CODT-203-MW, and MCWS-309-MW only), metals and general chemistry parameters, as listed in Table 1. Petroleum hydrocarbon (PHC) and PAH sample bottles were filled with no head space. Metal aliquots were field filtered and preserved with nitric acid in order to maintain constituents in solution. Samples were delivered to the Canadian Association for Laboratory Accreditation (CALA) certified laboratory BV in Sydney, Nova Scotia for analysis.

Table 1: Water Quality Analytical Suite of Parameters

PHC[1]	PAHs	General Chemistry	Metals (dissolved)
Benzene Toluene Ethylbenzene Total Xylenes C6-C10 (Less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons >C21-<C32 Hydrocarbons Modified TPH (Tier I)	Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Perylene Phenanthrene Pyrene 1-Methylnaphthalene 2-Methylnaphthalene	Anion/Cation sums Ion Balance (% Difference) Langelier Index @ 4&20 C Saturation pH @ 4&20 C Alkalinity (total as CaCo3) Sodium Potassium Calcium Magnesium Chloride TDS Colour Nitrate Nitrite Nitrate + Nitrite Nitrogen (Ammonic N) Total Organic Carbon Orthophosphate pH Silica Sulphate Turbidity Conductivity	Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Phosphorus Selenium Silver Strontium Thallium Tin Titanium Uranium Vanadium Zinc

Notes:
1. Since 2015, only monitor well CODT-201-MWC has been sampled for PHCs.
2. Since 2023 only monitor wells CODT-008-MWB, CODT-201-MWA, CODT-201-MWC, CODT-203-MW, CODT-206-MW and MCWS-309-MW have been sampled for PAHs. However, CODT-206-MW was decommissioned in 2025.

2.4 Data Compilation/Assessment

BV provided analytical results in a database compatible format, alleviating potential errors associated with manual entry. Data tables generated as part of the 2025 monitoring event also include available post-remediation data.

2.4.1 Regulatory Framework

Pursuant to RFP BNS-2526-0004 Groundwater Monitoring Services, the remedial criteria used for this assessment were the Nova Scotia Contaminated Sites Regulations (NS CSR) Tier I Environmental Quality

Standards (EQS) for groundwater established pursuant to the NS CSRs, which came into effect in 2013 and were last updated in October 2022. The subject property is classified as having commercial receptors, non-potable groundwater usage and coarse-grained soil. Where Tier I EQS are not available (e.g., for most PAHs and metals in groundwater at non-potable sites), the Ontario Ministry of the Environment, Conservation and Parks (MECP) Groundwater Standards for use under Ontario's Environmental Protection Act were used.

2.4.2 Groundwater Quality Trend Analysis – Mann Kendall

Mann-Kendall trend analysis as a non-parametric statistic test routinely used to assess the stability of solute plume. At least four independent sampling events are required to evaluate groundwater quality trends via Mann-Kendall analysis. The Mann-Kendall test procedure starts by comparing the most recent round of water quality data with the results of earlier rounds (since the LTMM commenced). Non-detect data values are typically assigned a value that is half the laboratory detection limit. The Mann-Kendall test is not designed to account for seasonal variation in data, rather Mann-Kendall is used to identify concentration trends in individual wells for individual parameters (i.e., decreasing or increasing) and, if there is no trend, whether conditions are fluctuating or stable.

Based on a review of the analytical results from the LTMM and available post-remediation data, parameters with concentrations consistently (or historically consistently) above applicable standards were selected for Mann-Kendall analysis. These include PAH indicator parameters anthracene, benzo(a)pyrene, chrysene, indeno(1,2,3-cd)pyrene and naphthalene. Additional indicator general chemistry and metal parameters (i.e., selenium, sulfate, pH, and TDS) were also selected for Mann-Kendall analysis at three monitor wells, which are located in the vicinity of the solidification and stabilization (S/S) area in consideration of monitoring the S/S performance over the long-term period. At least four rounds of post-remediation groundwater analytical data were applied for performing the trend analysis for the indicator parameters.

3.0 Results

Results are presented in the following subsections:

- **Section 3.1**: Weather Conditions and General Observations;
- **Section 3.2**: Groundwater Flow and Hydraulic Head Levels;
- **Section 3.3.1**: OHP Findings;
- **Section 3.3.2**: HE Area Findings; and
- **Section 3.4**: QC Summary.

3.1 Weather Conditions and General Observations

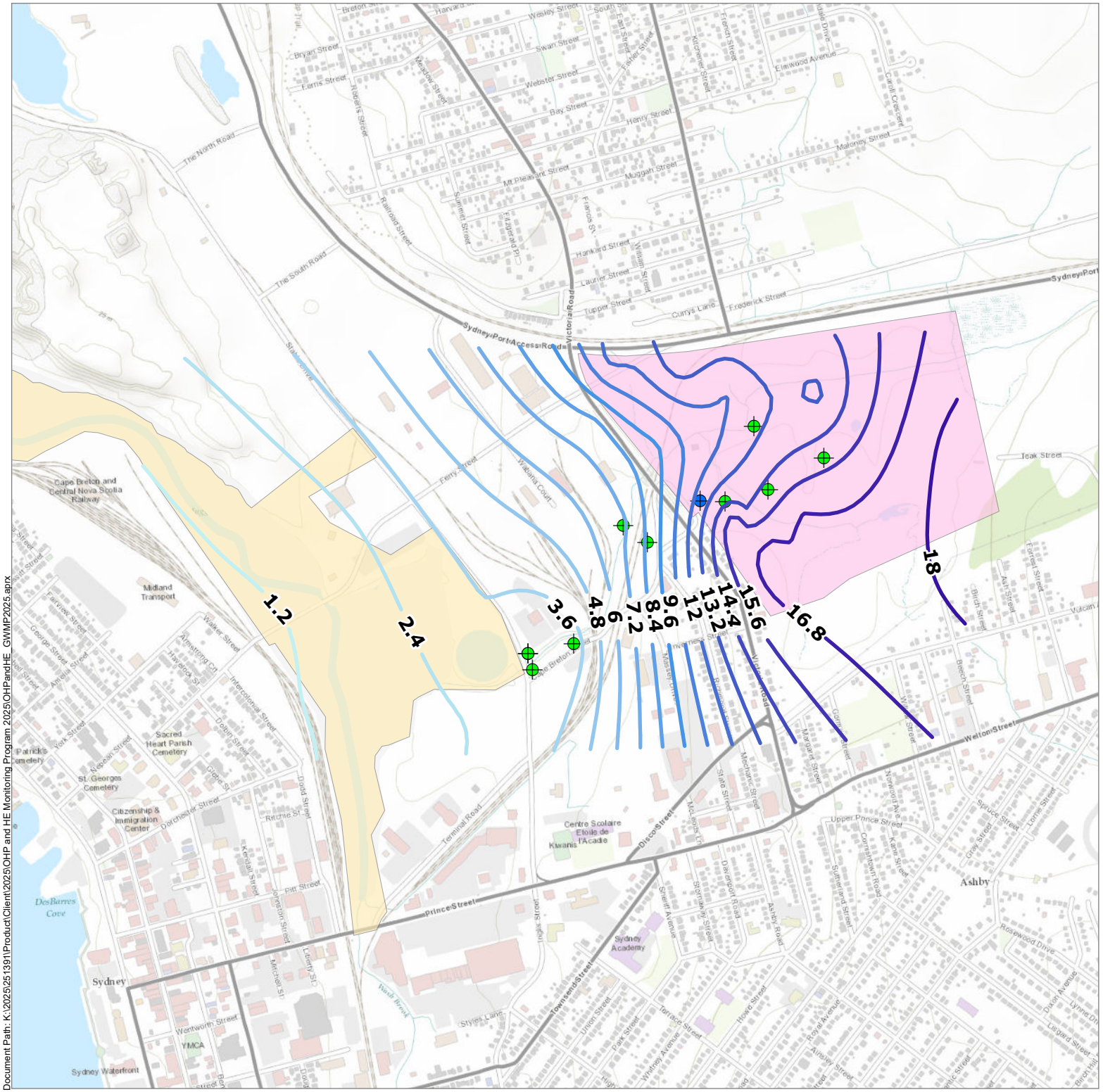
The current meteorological station (i.e., Sydney CS) is an official in-situ station established by Environment Canada. Historical precipitation recordings for the Sydney area can be traced back as far as 1870. Comparison of the recordings at the Sydney CS station indicates that precipitation of approximately 1064.3 millimeters (mm) was recorded for 2025, which is 453 mm lower than the normal value of yearly precipitation of 1517 mm (as recorded between 1981-2010) (http://climate.weather.gc.ca). The monthly precipitation recorded for November 2025 was 236.8 mm. The total precipitation recorded between November 12, 2025, and November 18, 2025 (the duration of OHP and HE sampling program) was 25 mm.

It is noted that drought conditions were experienced throughout the Nova Scotia during the summer/early Fall of 2025.

3.2 Groundwater Flow and Hydraulic Head Levels

A survey of the EEM program monitor well elevations across the OHP and HE sites was initially conducted in December 2011, with a supplemental survey in May 2014. As part of the 2020 LTMM program, replacement well MCES-201-MWB (i.e., which replaced MCES-001-MWB) was surveyed. The hydraulic head for the monitor wells at the OHP and HE sites are provided based on these surveys (with the most current survey information used).

The hydraulic head data obtained from the monitoring areas during the 2025 monitoring event were employed to plot the equipotential groundwater contours. The groundwater contours were identified for different media within the unconsolidated till and/or fill unit (Figure 3), the upper fractured shallow bedrock (Figure 4), and the intermediate/deep bedrock (Figure 5).



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OPEN HEARTH PARK AND HARBOURSIDE EAST 2025 GROUNDWATER MONITORING EVENT

Equipotential Contours Fill Till

Figure 3

- Active Sample and Water Level
- Active Water Level Only
- Decomissioned
- Harbourside East
- Open Hearth Park

Equipotential Groundwater Contours

6m — Groundwater Elevations are measured in meters above sea level (mASL)

0 50 100 200 300 m

N W E S

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MAP CHECKED BY: NJW
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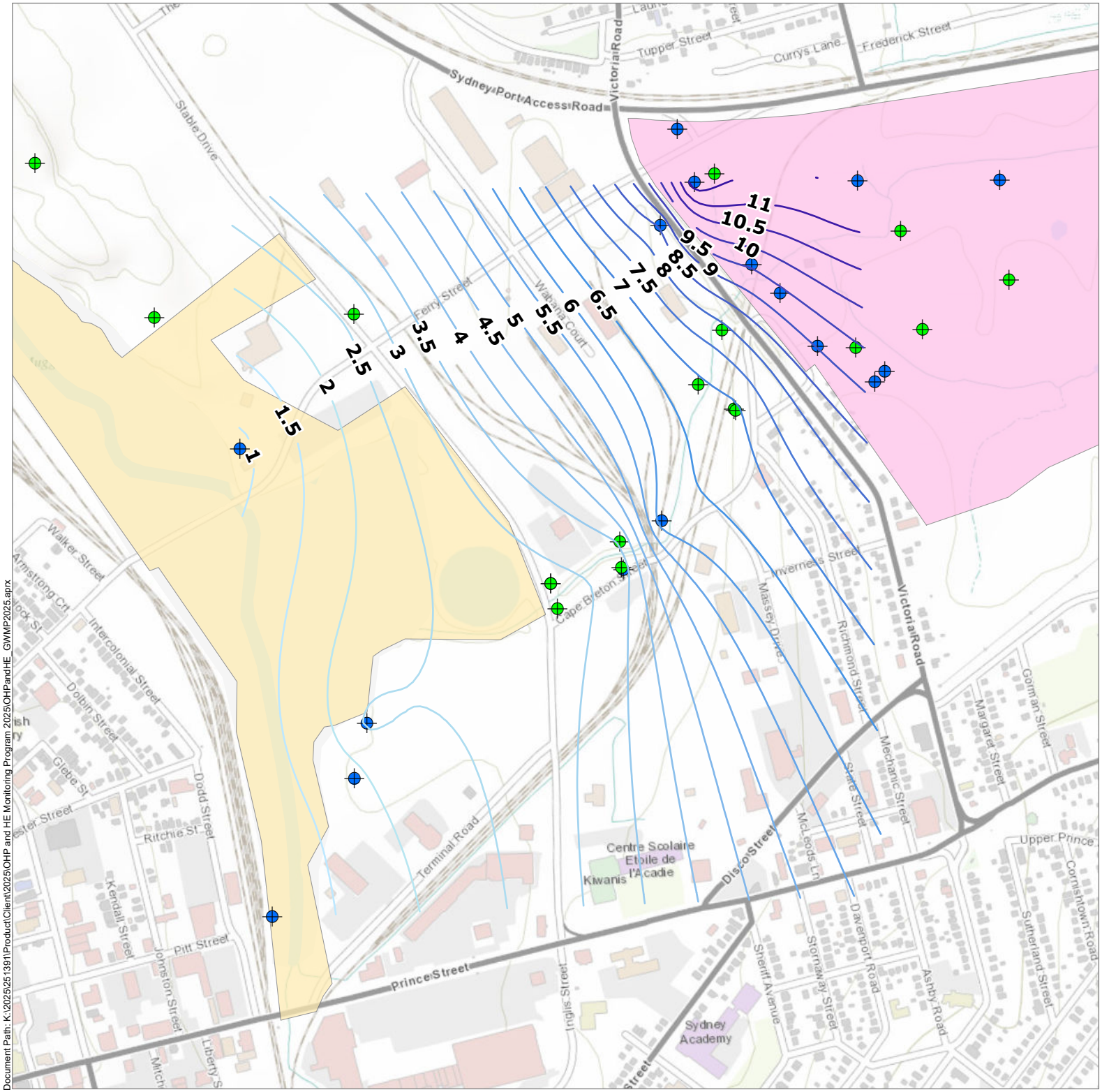

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OPEN HEARTH PARK AND HARBOURSIDE EAST
2025 GROUNDWATER MONITORING EVENT

Equipotential Groundwater Contours Bedrock Aquifer
Figure 4

- Active Sample and Water Level
- Active Water Level Only
- Harbourside East
- Open Hearth Park

Equipotential Groundwater Contours

6m — *Groundwater Elevations are measured in meters above sea level, (mASL)*

0 50 100 200 300 m

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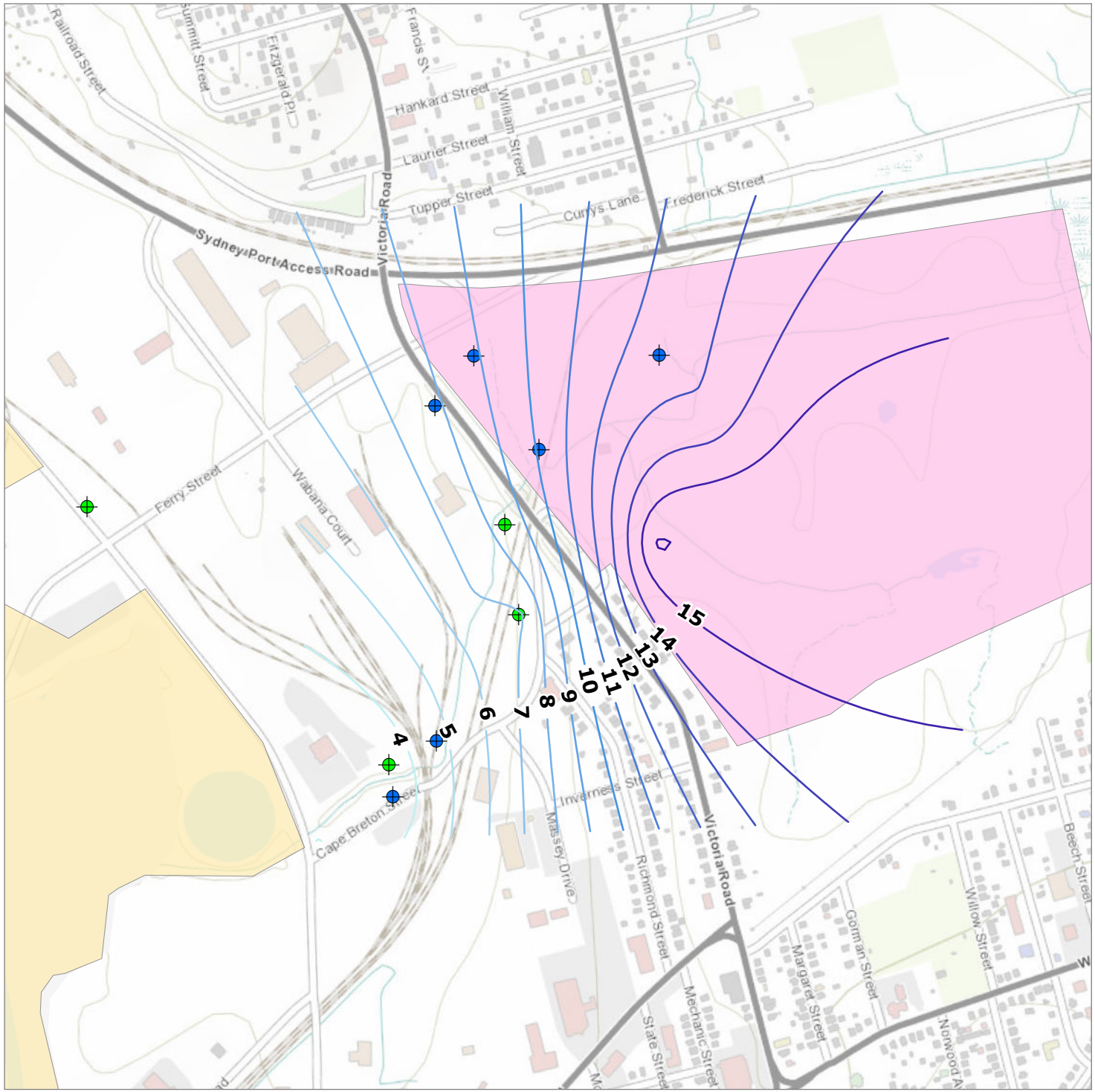

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OPEN HEARTH PARK AND HARBOURSIDE EAST

2025 GROUNDWATER MONITORING EVENT

Equipotential Groundwater Contours Intermediate/Deep Bedrock Aquifer

Figure 5

- Active Sample and Water Level
- Active Water Level Only
- Open Hearth Park
- Harbourside East

Equipotential Groundwater Contours

6m *Groundwater Elevations are measured in meters above sea level, (mASL)*

0 50 100 200 300 m

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Review of the available equipotential contour plots for the three media units (i.e., the fill/till, shallow bedrock and intermediate/deep bedrock) indicates that the groundwater flow direction in each of the units is generally consistent between the 2025 event and that observed during the previous LTMM programs and the EEM program associated with the STP remediation project. Based on hydraulic head data, the groundwater flows generally from HE towards the southwest into Sydney Harbour.

3.3 Results

Analytical data, including available historical post-remediation data for reference, are presented in Appendix A (Table A-1 (BTEX/TPH), Table A-2 (PAHs) and Table A-3 (general chemistry and metals)). Laboratory certificates are presented in Appendix C. Monitor well locations are presented on Figure 6.

During the 2025 monitoring event, no DNAPL or LNAPL was measured in monitor wells included in the OHP and HE LTMM.

3.3.1 OHP Findings

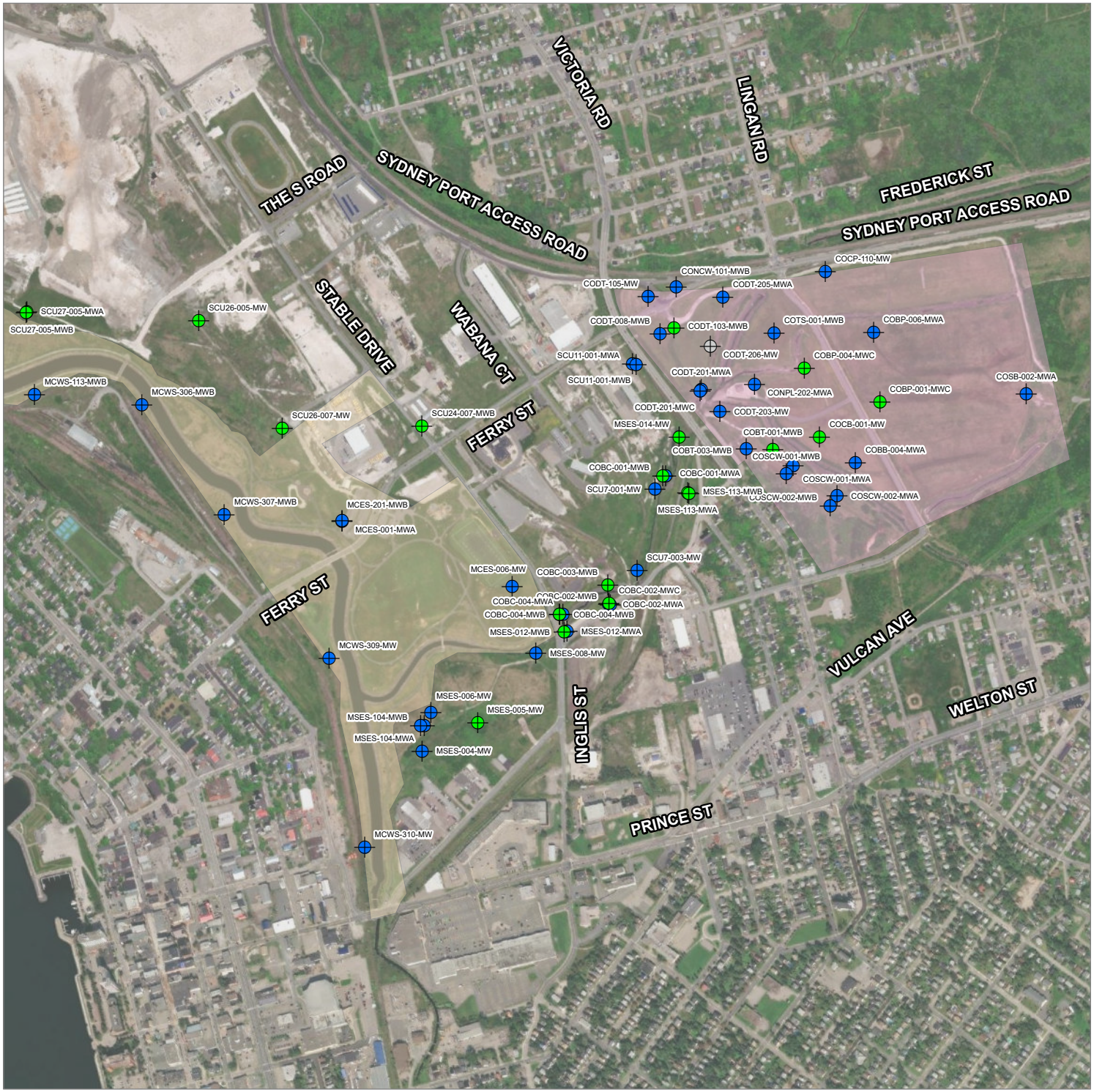
The OHP area (i.e., formerly TP2/TP6/TP7 areas) includes the east, southeast, and western shorelines of the former Tar Ponds, and a portion of the former SYSCO property along Inglis Street. This area was remediated as part of the STP project using S/S processes. The LTMM program is used to evaluate groundwater quality post remediation. Results of the 2025 monitoring event are presented and discussed in the following subsections.

Monitor wells used for water level measurements in the OHP area include wells located in the “high dump”, which is part of the HCP site, and is located at the north end of the eastern shoreline. The high dump was used for disposal of blast furnace slag from the former steel plant. Historical in-filling of the southeast shoreline of the OHP used a variety of materials including slag, coal, brick and scrap wood, in addition to a former municipal disposal area on the south shoreline of OHP. The OHP also includes the footprint of a former open cooling pond used to contain steel plant effluents, a number of municipal outfalls, a rail yard, bulk fuel terminal and other former industrial sites on the west shoreline.

3.3.1.1 OHP Groundwater Quality

The 2025 LTMM program included the collection of samples from 39 locations for analysis, 14 of which were collected from monitor wells located on the OHP site. Results of the 2025 monitoring event at OHP indicate no exceedances of the Tier I EQS or the default MECP standards for the 14 monitor wells sampled.

Indicator parameter concentrations for select monitor wells, which are located in the vicinity of the S/S area in consideration of monitoring the S/S performance over the long-term period, are summarized in Table 2. As shown in the table, indicator parameter concentrations in the OHP area were consistent with previous results.



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OPEN HEARTH PARK AND HARBOURSIDE EAST

2025 GROUNDWATER MONITORING EVENT

AREA FEATURES

FIGURE 6

- Active Sample and Water Level
- Active Water Level Only
- Decommissioned
- Open Hearth Park
- Harbourside East

0 50 100 200 300 m

MAP DRAWING INFORMATION:
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Date: 2026-02-03

Table 2: Summary of Indicator Parameter Concentrations

Well ID		Inorganic Parameters			
	Date	Selenium (ug/L)	Sulphate (mg/L)	TDS (mg/L)	pH
MECP Table 3[1]		63	-	-	-
MCES-006-MW	Mar 2013	6.3	34	374	7.50
	Jul 2013	<1.0	28	376	7.57
	Nov 2013	<1.0	34	390	7.61
	Dec 2014	2.9	70	260	8.91
	Dec 2015	3.3	88	260	9.44
	Dec 2016	<1.0	48	220	7.95
	Dec 2017	1.7	35	200	7.86
	Nov 2018	1.5	64	200	9.15
	Dec 2019	2.2	83	220	10.3
	Nov 2020	4.2	62	200	9.02
	Dec 2021	1.6	62	190	9.41
	Nov 2022	2.3	58	190	9.19
	Dec 2023	1.3	81	210	9.19
	Nov 2024	0.77	22	180	7.80
	Nov 2025	0.69	12	220	7.84

Well ID	Inorganic Parameters				
	Date	Selenium (ug/L)	Sulphate (mg/L)	TDS (mg/L)	pH
MECP Table 3[1]		63	-	-	-
MCES-001-MWA	Mar 2013	1.8	85	631	11.8
	July 2013	1.6	160	542	11.8
	Dec 2014	1.8	120	730	11.9
	Dec 2015	1.5	160	540	11.8
	Nov 2016	1.9	190	730	11.9
	Dec 2017	1.8	160	560	12
	Nov 2018	1.5	110	580	12
	Dec 2019	1.6	130	570	11.9
	Nov 2020	Dry			
	Dec 2021	1.7	130	770	12.1
	Nov 2022	Insufficient Water for Sampling			
	Nov 2023	1.8	120	680	11.9
	Nov 2024	2.2	110	590	11.8
	Nov 2025	1.2	92	470	11.4
MCES-001-MWB (Decommissioned in 2020)[5]	Mar 2013	32	29	24,700	7.1
	July 2013	<10	25	21,000	7.42
	Nov 2013	<10	10	22,000	7.32
	Dec 2014	<1.0	6.7	21,000	7.4
	Dec 2015	<10	<2.0	22,000	7.49
	Nov 2016	<10	<2.0	19,000	7.42
	Dec 2017	<10	<2.0	21,000	7.47
	Nov 2018	1.8	94	520	11.9
	Dec 2019	1.6	96	510	12

Well ID	Inorganic Parameters				
	Date	Selenium (ug/L)	Sulphate (mg/L)	TDS (mg/L)	pH
MECP Table 3[1]		63	-	-	-
MCES-201-MWB[5]	Dec 2020	<5	34	8000	7.49
	Dec 2021	1.6	130	720	12.1
	Nov 2022	1.6	120	640	11.9
	Nov 2023	1.6	120	650	11.8
	Nov 2024	1.4	87	520	11.7
	Nov 2025	1.2	79	490	11.7

Notes:

1. Ontario MECP Table 3 Full Depth Generic Site Condition Standards in a Non-potable Groundwater (Coarse Grained Soil) 2011.
2. There are no NSE Tier I EQS for Groundwater on a site with Coarse-Grained Soil, Non-potable Groundwater and Commercial/Industrial land use (2022) for selenium, sulphate, TDS or pH.
3. BOLD Exceeds the MECP Table 3 standards (when no Tier I EQS is available).
4. "-" Denotes no Tier I EQS or MECP standards available.
5. Due to a suspected monitor well seal failure (supported by 2018 and 2019 data), MCES-001-MWB was decommissioned in 2020 and replaced with MCES-201-MWB.

3.3.1.2 Trend Analysis – OHP

Mann-Kendall analysis was conducted based on available post-remediation data. Statistical analysis of available indicator parameter data indicated that select parameter concentration trends are generally decreasing or have stable conditions, as presented in Table 3.

Table 3: OHP – Trend Analysis Summary

Well ID	Indicator Parameter	Trend
MCES-006-MW	Selenium	Stable
	pH	Stable
	TDS	Decreasing
	SO4	Decreasing
MCES-001-MWA	Selenium	Stable
	pH	Stable
	TDS	Stable
	SO4	Decreasing
MCES-201-MWB[1]	Selenium	Decreasing
	pH	Stable
	TDS	Decreasing
	SO4	Stable

Notes:
1. MCES-001-MWB was decommissioned in November 2020 and replaced with MCES-201-MWB. Mann-Kendall results are from the data of MCES-201-MWB (2020 onward).

The groundwater quality trend analysis for the 2025 monitoring event was based on the available analytical results (i.e., a minimum four rounds of data are required) since the LTMM commenced for the parameters with concentrations above (or historically above) the applicable guidelines.

Overall, review of trend analysis indicates general plume stability. Historical trend analysis indicated a potentially increasing trend for pH in MCES-001-MWB (2018 and 2019) that required further verification. The trend analysis for the replacement well, MCES-201-MWB (2020 onward), indicates stable conditions for pH in 2025.

Trend analysis is presented on Figure 7. Mann-Kendall tables are presented in Appendix B.

Build NOVA SCOTIA

OPEN HEARTH PARK AND HARBOURSIDE EAST

2025 GROUNDWATER MONITORING EVENT

INDICATOR PARAMETER CONCENTRATION TREND

FIGURE 7

Trend Analysis

- Increasing/Potentially Increasing
- Fluctuating
- Stable
- Decreasing
- Monitoring Well
- Open Hearth Park
- Harbourside East

0 50 100 200 300 m

MAP DRAWING INFORMATION:
Province of Nova Scotia Mapping

MAP CREATED BY: SCM/HEB
MAP CHECKED BY: NJW
MAP PROJECTION: NAD 1983 UTM Zone 20N

DILLON CONSULTING

PROJECT: 25-1391
Date: 2026-02-04

Document Path: K:\2025\251391\ProductClient\2025\OHP and HE Monitoring Program 2025\OHPandHE_GWMP2025.aprx

3.3.2 HE Area Findings

The HE area includes most of the former Coke Ovens Site; along Coke Ovens Brook from the southern area of the former Domtar site (near Victoria Road) and the mergence of Coke Ovens Brook into the South Pond to the downstream of the Municipal Ash Incinerator Disposal (MAID) area. In particular, the HE area contains part of the former CO1 (Coke Ovens Brook Connector), CO2 (Tar Cell), CO5 (Vertical Cut-Off Walls), CO6 (Surface Cap) and CO7 (Groundwater Collection System).

Historical investigations confirmed the presence of contaminated sediments in the Coke Oven Brook and the Domtar Interceptor trench, as well as the in-filling of coal tar, particularly at the former Domtar site. Elevated concentrations of organics (i.e., PHCs and PAHs) and inorganics, such as metals, were present in the groundwater.

The 2025 LTMM program included the collection of samples from 39 locations for analysis, 25 of which were collected from monitor wells located on the HE.

3.3.2.1 HE Groundwater Quality

Results of the 2025 monitoring event at HE indicates that the concentrations of analyzed parameters at the majority of the sampling wells were below applicable standards, with the exception of PAHs (as detailed below). Detections of BTEX and modified TPH were reported for monitoring well CODT-201-MWC and its corresponding field duplicate sample (i.e., the only well in the program sampled for BTEX/TPH); however, concentrations were below the Tier I EQS and consistent with historical findings. There were no exceedances reported for general chemistry or metals.

Two of the five (noting that CODT-206-MW was decommissioned) monitor wells sampled for PAHs on the HE site (specifically located on the former Domtar site) exhibited organic parameter concentrations above the MECP standards (used for comparison when no Tier I EQS is available), as follows:

- CODT-201-MWC: The anthracene concentration of 4.7 ug/L (in parent and its field duplicate sample) exceeded the MECP standard of 2.4 ug/L. These findings are consistent with historical LTMM results. Mann-Kendall analysis (see **Section 3.3.2.2**) indicates the trend for anthracene in this well is stable; and
- CODT-008-MWB: The benzo(a)pyrene concentration of 1.9 ug/L, benzo(b)fluoranthene concentration of 1.3 ug/L, benzo(g,h,i)perylene concentration of 0.72 ug/L, benzo(k)fluoranthene concentration of 0.84 ug/L, chrysene concentration of 2.0 ug/L, and indeno(1,2,3-cd)pyrene concentration of 0.75 ug/L exceeded the MECP standards of 0.81 ug/L, 0.75 ug/L, 0.2 ug/L, 0.4 ug/L, 1.0 ug/L, and 0.2 ug/L, respectively. No exceedances were observed at this location during the 2024 LTMM; however, the exceedances noted in 2025 are lower than the 2023 results (noting in 2023 they were the first occurrence of these parameter exceedances at this location since 2015 or 2016). Mann-Kendall analysis (see **Section 3.3.2.2**) indicates that concentrations in this well are fluctuating.

Table 4 summarizes indicator parameter concentrations for select monitor wells exhibiting concentrations above applicable criteria (with the exceedance discussion as presented above). Of note, there were no PAH parameter exceedances observed at CODT-201-MWA or CODT-203-MW in 2025.

Table 4: HE – Summary of Indicator Parameter Concentrations

Well ID		Indicator Organic Parameters				
	Date	Anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Chrysene (ug/L)	Indeno(1,2,3-cd) pyrene (ug/L)	Naphthalene (ug/L)
NSE Tier I EQS (or defaulted MECP Table 3 Standards (as noted)		2.4[2]	0.81[2]	1[2]	0.2[2]	7000[1]
CODT-008-MWB	Mar 2013	15	1.7	4.2	0.65	17
	Jul 2013	140	30	57	14	29
	Oct 2013	11	2.6	46	0.64	2.8
	Dec 2014	2.0	0.032	0.058	0.018	<0.20
	Dec 2015	0.13	1.2	0.96	0.31	<0.20
	Nov 2016	43	*<5.0*	6.0	*<5.0*	4100
	Dec 2017	0.19	0.22	0.29	0.10	<0.20
	Dec 2018	0.13	0.11	0.15	0.052	0.56
	Nov 2019	<0.080	0.037	0.050	0.013	0.20
	Nov 2020	0.086	0.054	0.072	0.027	<0.2
	Dec 2021	0.055	0.050	0.063	<0.030	<0.20
	Dec 2022	0.12	0.11	0.087	0.059	<0.010
	Nov 2023	4.6	3.5	2.9	1.2	0.21
	Nov 2024	0.022	0.0038	0.030	0.019	0.055
	Nov 2025	0.75	1.9	2.0	0.75	<0.20

Well ID	Date	Indicator Organic Parameters				
		Anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Chrysene (ug/L)	Indeno(1,2,3-cd) pyrene (ug/L)	Naphthalene (ug/L)
NSE Tier I EQS (or defaulted MECP Table 3 Standards (as noted)		2.4[2]	0.81[2]	1[2]	0.2[2]	7000[1]
CODT-201-MWA	Mar 2013	0.45	0.73	0.91	0.33	1.1
	Jul 2013	2.5	3.6	4.8	1.5	0.22
	Oct 2013	1.7	2.5	2.9	1.1	<0.2
	Dec 2014	2.5	3.7	4.5	1.5	46
	Dec 2015	2.3	4.7	5.1	1.9	<0.20
	Nov 2016	0.85	1.8	2.1	0.78	<0.20
	Dec 2017	3.7	6.9	8.6	2.9	<0.20
	Dec 2018	0.49	0.99	1.4	0.49	50
	Nov 2019	1.4	2.9	3.2	0.87	<0.20
	Nov 2020	4.9	9.7	14	3.9	0.32
	Dec 2021	1.7	2.5	3.3	1.1	0.21
	Dec 2022	0.13	0.30	0.29	0.16	<0.010
	Nov 2023	1.3	0.57	0.51	0.23	<0.20
	Nov 2024	0.45	1.0	0.95	0.48	0.016
	Nov 2025	0.048	0.052	0.056	0.022	<0.20
CODT-201-MWC	Mar 2013	4.9	<0.01	0.04	<0.01	5100
	Jul 2013	4.5	0.016	0.064	0.014	4900
	Mar 2013	3.3	<0.01	0.032	<0.01	6300
	Dec 2014	5.9	<0.01	0.048	<0.01	7200
	Dec 2015	*<10*	*<10*	*<10*	*<10*	9500
	Nov 2016	3.3	<0.010	0.036	<0.010	7500
	Dec 2017	4.5	<0.010	0.042	<0.010	6200
	Dec 2018	4.2	0.011	0.056	<0.010	7800
	Nov 2019	5.4	<0.010	0.033	<0.010	8300
	Dec 2020	5.0	0.011	0.073	<0.010	4400
	Dec 2021	5.5	<0.02	0.079	<0.010	7300
	Dec 2022	4.3	*<0.90*	*<1.0*	*<1.0*	3800
	Nov 2023	4.4	<0.010	0.042	<0.010	4500
	Nov 2024	5.2	<0.0090	0.036	<0.010	4500
	Nov 2025	4.7	0.016	0.083	<0.010	2700

Well ID	Date	Indicator Organic Parameters				
		Anthracene (ug/L)	Benzo(a)pyrene (ug/L)	Chrysene (ug/L)	Indeno(1,2,3-cd) pyrene (ug/L)	Naphthalene (ug/L)
NSE Tier I EQS (or defaulted MECP Table 3 Standards (as noted)		2.4[2]	0.81[2]	1[2]	0.2[2]	7000[1]
CODT-203-MW	Mar 2013	2.1	0.64	1.1	0.24	0.62
	Jul 2013	2.6	1.1	1.7	0.38	6.3
	Mar 2013	2.5	0.71	1.2	0.29	1.5
	Dec 2014	0.55	0.69	0.83	0.28	<0.2
	Dec 2015	0.42	0.61	0.73	0.29	<0.20
	Nov 2016	0.79	1.5	1.6	0.64	<0.20
	Dec 2017	0.27	0.24	0.35	0.10	0.52
	Dec 2018	0.27	0.27	0.40	0.11	1.6
	Nov 2019[5]	6.4	9.7	11	3.3	0.39
	Nov 2020	0.54	0.53	0.72	0.19	<0.20
	Dec 2021	3.4	4.8	6.0	1.9	<0.20
	Nov 2022	0.36	0.54	0.52	0.28	0.019
	Nov 2023	0.83	1.5	1.6	0.53	<0.20
	Nov 2024	2.8	4.6	4.3	1.9	0.13
	Nov 2025	0.094	0.18	0.21	0.066	<0.20

Notes:
1. NS Tier I EQS for Groundwater (Coarse Grained Soil, Non-potable Groundwater Commercial/ Industrial Site) 2022.
2. Ontario MECP Table 3 Full Depth Generic Site Condition Standards in a Non-potable Groundwater (Coarse Grained Soil) 2011.
3. Bold exceeds NSE Tier I EQS or default MECP standards when no Tier I EQS is available.
4. Italics denotes detection limit elevated above applicable standards.

3.3.2.2 Trend Analysis - HE

Mann-Kendall analysis was conducted based on available post-remediation data. Statistical analysis of available indicator parameter data indicated that most select parameter concentration trends are decreasing or have fluctuating concentrations. For CODT-201-MWC, anthracene was stable. Trend analysis is presented on Figure 7. Results of Mann-Kendall trend analysis for HE is presented in Table 5.

Table 5: HE – Trend Analysis Summary

Well ID	Indicator Parameter	Trend
CODT-008-MWB	Anthracene	Fluctuating
	Benzo(a)pyrene	Fluctuating
	Chrysene	Fluctuating
	Indeno(1,2,3-cd)pyrene	Fluctuating
	Naphthalene	Fluctuating
CODT-201-MWA	Anthracene	Decreasing
	Benzo(a)pyrene	Decreasing
	Chrysene	Decreasing
	Indeno(1,2,3-cd)pyrene	Decreasing
	Naphthalene	Fluctuating
CODT-201-MWC	Anthracene	Stable
	Chrysene	Fluctuating
	Naphthalene	Decreasing
CODT-203-MW	Anthracene	Fluctuating
	Benzo(a)pyrene	Fluctuating
	Chrysene	Fluctuating
	Indeno(1,2,3-cd)pyrene	Fluctuating
	Naphthalene	Fluctuating

Note:
1. Trend analysis was not completed for naphthalene in monitor well CODT-201-MWA or for benzo(a)pyrene and indeno(1,2,3-cd)pyrene in monitor well CODT-201-MWC, as the majority of the analytical results for these parameters in these wells are below laboratory detection limits.

In general, review of trend analysis indicates that the plume is stable or declining and not migrating though fluctuating concentrations occur for the select parameters. The Mann-Kendall tables are presented in Appendix B.

3.4 QC Summary

Supporting QC data are found in Appendix D. The results are discussed in the following five sub-sections:

- **Section 3.4.1**: Relative Percent Difference;
- **Section 3.4.2**: Laboratory Matrix Spikes, Spiked Blank and Method Blanks;
- **Section 3.4.3**: Trip Blank;
- **Section 3.4.4:** Equipment Blank; and
- **Section 3.4.5**: Holding Times.

3.4.1 Relative Percent Difference

Four field duplicates (FD) were analyzed and had results suitable for quantitative calculation of Relative Percent Difference (RPD). The RPD was not calculated for those parameters where one or both of the results associated with the original and/or field duplicate sample exhibited concentrations less than five times the RDL. Comparison of the field duplicate data to the original samples indicated the calculated RPDs were within generally within the acceptable RPD range (i.e., less than 40% RPD), exceptions were noted for turbidity (RPD 122.81%) at MCWS-307-MWB and its field duplicate (i.e., 25FD-06). Turbidity has no available comparison criteria, further based on the review of field notes, and as noted on the laboratory certificate, sediments were observed in the sample and field duplicate sample. Therefore, there is a potential of sediment bias to have contributed to the elevated concentration in the sample collected at MCWS-307-MWB.

The remaining parameters remain within the acceptable RPD range. Overall, the data quality is considered acceptable.

3.4.2 Laboratory Matrix Spikes, Spiked Blank and Method Blanks

The laboratory analytical certificates have been reviewed for quality assurance/quality control purposes. The laboratory completes quality control analysis including duplicates, blanks, spikes, surrogate recoveries and spiked blanks to assess accuracy and precision as well as the potential for bias, contamination and degradation or matrix effects. The laboratory quality control reports have identified the following minor issues:

- Elevated RDLs, due to sample turbidity, were reported for total organic carbon (TOC) in MCWS-309-MW, COSCW-001-MWA, and COSCW-002-MWA;
- Elevated RDLs, due to sample matrix, were reported for TOC in COBP-006-MWA, CODT-201-MWC, MCES-006-MW, MSES-104-MWB, and MCWS-113-MWB; and
- A pH linear range exceedance was reported for CONCW-101-MWB, MCES-001-MWA, MCES-201-MWB and in field duplicate 25FD-05.

Overall laboratory data quality is considered acceptable and the results representative with no identification of significant quality issues requiring further investigation or resampling. The QA report is presented within the certificates of analysis in Appendix C.

3.4.3 Equipment Blank

One equipment blank (i.e., 25 EB-01) was collected associated with the LTMM at OHP and HE (which is completed in conjunction with the LTMM at HCP). The field equipment used for the equipment blank was a stainless-steel interface probe, which is the only piece of field equipment that interacts with each of the monitor wells (i.e., as each well has a dedicated pump or dedicated low flow tubing). No detected metal parameters were reported for the equipment blank sample.

3.4.4 Holding Times

Samples were analyzed within specified hold times.

4.0 Summary

The OHP and HE 2025 findings were compared to NS CSR Tier I EQS for groundwater. Where Tier I EQS were not available, MECP standards were used.

The groundwater elevation and flow direction for the monitored areas during the 2025 monitoring event was generally comparable to historical monitoring events. The groundwater flows generally from HE towards the southwest to Sydney Harbour.

The following observations are made based on the 2025 data.

OHP

Analytical results indicate no exceedances of the NS Tier I EQS or the default MECP standards for the 14 monitor wells sampled on the OHP site. Overall, review of trend analysis indicates general plume stability. Dense non-aqueous phase liquid (DNAPL) and light non-aqueous phase liquid (LNAPL) were not detected in the OHP and HE LTMM wells during the 2025 program.

HE

During the 2025 monitoring event, two monitor wells located in the former Domtar site had organic parameter concentrations above the default MECP standards (used when no Tier I EQS is available). Specifically, the findings indicated MECP exceedances in the following wells for the parameters noted:

- CODT-201-MWC: The anthracene concentration exceeded the MECP standard. These findings are consistent with historical LTMM results. Mann-Kendall analysis indicates that anthracene in this well is stable; and
- CODT-008-MWB: The benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene concentrations exceeded the respective MECP standards. No exceedances were observed at this location during the 2024 LTMM; however, the exceedances noted in 2025 are lower than the 2023 results (noting in 2023 they were the first occurrence of these parameter exceedances at this location since 2015 or 2016). Mann-Kendall analysis indicates the benzo(a)pyrene, chrysene, and indeno(1,2,3-cd)pyrene concentrations in this well are fluctuating.

In general, review of trend analysis indicates that the plume is stable or declining and not migrating though fluctuating concentrations occur for the select parameters. No DNAPL or LNAPL was detected in the HE LTMM wells during the 2025 program.

5.0 Recommendations

The following recommendations are based upon review of the 2025 groundwater sampling results, in conjunction with historical results:

- Based on 10 years or more of analytical data with no reported comparison criteria exceedances, and noting that other monitoring and sampling locations in the LTMM program provide adequate coverage of remediated areas and site limits, it is recommended that seven monitoring wells be removed from the LTMM going forward, as follows:
  - COTS-001-MWB
  - CONCW-101-MWB
  - COSCW-001-MWA
  - COSCW-001-MWB
  - MSES-006-MW
  - COBT-003-MWB
  - COBC-004-MWA
- Only monitoring well CODT-201-MWC is currently analyzed for BTEX/TPH. As no BTEX/TPH exceedances of the Tier I EQS have been reported in this monitoring well since the LTMM commenced, it is recommended that the sampling frequency for BTEX/TPH parameters be reduced from yearly to once every two years.
- Continued sampling of 32 monitor wells for general inorganic chemistry analysis.[1]
- Sampling of four monitoring wells for PAH analysis (i.e., CODT-008-MWB, CODT-201-MWA, CODT-201-MWC, CODT-203-MW). Noting that it is recommended that PAH analysis be discontinued at MCWS-309-MW as no PAH exceedances have been reported at this location since 2015.
- Sampling of 29 monitoring wells for metals analysis, noting that is recommended that metals analysis be discontinued at CODT-008-MWB, CODT-201-MWA and CODT-201-MWC, as no metals exceedances have been reported in these three wells since the LTMM commenced.
- Reduction from annual to biannual monitoring and sampling at: COBB-004-MWA, COBC-001-MWA, COBC-002-MWA, COBC-004-MWA, COBP-006-MWA, CODT-008-MWB, CODT-105-MW, CODT-201-MWA, CODT-201-MWC, CODT-205-MWA, CONPL-202-MWA, COSCW-002-MWA, COSCW-002-MWB, MCES-001-MWA, MCES-006-MW, MCWS-113-MWB, MCWS-306-MWB, MCWS-307-MWB, MCWS-309-MW, MCWS-310-MW, MSES-004-MW, MSES-008-MW, MSES-012-MWA, and MSES-104-MWB.[2]
- While the collection of water levels would continue at designated sampling wells each year, the collection of water levels at the nineteen additional wells slated for water level readings only would

[1] Reduced from 39 monitoring wells contingent on approval from NSECC and BNS for removal of COTS-001-MWB, CONCW-101-MWB, COSCW-001-MWA, COSCW-001-MWB, MSES-006-MW, COBT-003-MWB and COBC-004-MWA from the LTMM program.

[2] Based on approval from NSECC and BNS, these monitoring wells would be monitored and sampled next in 2027.

occur every second year, with the provision of contour mapping for the site also being provided every second year.[3]

[3] The next water level only checks would occur in 2027. The next contour mapping would be provided in the 2027 groundwater monitoring report.

6.0 Disclaimer

This report was prepared exclusively for the purposes, project and site location outlined in the report. The report is based on information provided to or obtained by Dillon Consulting Limited ("Dillon") as indicated in the report and applies solely to site conditions existing at the time of the site investigation. Although a reasonable investigation was conducted by Dillon, Dillon's investigation was by no means exhaustive and cannot be construed as a certification of the absence of any contaminants from the site. Rather, Dillon's report represents a reasonable review of available information within an agreed work scope, schedule and budget. It is therefore possible that currently unrecognized contamination or potentially hazardous materials may exist at the site, and that the levels of contamination or hazardous materials may vary across the site. Further review and updating of the report may be required as local and site conditions, and the regulatory and planning frameworks, change over time.

Appendix A

Analytical Tables

TABLE A-1
LTMM GROUNDWATER MONITORING EVENT 2025 OHP AND HE
GROUNDWATER ANALYTICAL RESULTS - BTEX/TPH

Sample Location (Water Level 2025)[4]	Sample Date	BTEX Concentration (mg/L)				Petroleum Hydrocarbons (mg/L)						Reached Baseline at C32
		Benzene	Toluene	E. Benzene	Xylenes	C6 - C10	C10 - C21	C10 - C16	C16-C21	C21 - C32	Modified TPH	
	NS Tier 1 EQS[1]	6.3	20	20	20	-	-	-	-	-	20	-
CODT-201-MWC (3.35 m)	07-05-11	0.073	0.09	0.074	0.26	0.45	7.54	-	-	<0.1	7.9	-
	09/13/11[L]	NM	NM	NM	NM	NM	7.67	-	-	0.2	NM	-
	09-13-11	0.059	0.099	0.065	0.24	0.36	7.55	-	-	0.2	8.1	-
	12-16-11	0.083	0.15	0.091	0.38	0.4	10.34	-	-	0.1	11	-
	03/09/12[L]	NM	NM	NM	NM	NM	13.39	-	-	0.11	NM	-
	03-09-12	0.085	0.18	0.12	0.53	0.76	14.42	-	-	<0.1	15	-
	06-07-12	0.095	0.19	0.13	0.56	0.68	15.44	-	-	0.14	16	-
	09-11-12	0.11	0.23	0.16	0.68	0.92	16.45	-	-	0.13	18	-
	12-11-12	0.099	0.19	0.14	0.56	1	16.58	-	-	0.32	18	-
	03-13-13	0.1	0.22	0.15	0.59	0.9	13.35	-	-	<0.1	15	Yes
	12-15-14	0.1	0.2	0.15	0.61	1.0	-	15	0.49	0.22	17	Yes
	12-09-15	0.11	0.26	0.17	0.71	1.4	-	14	0.38	0.1	16	Yes
	11-28-16	0.072	0.16	0.14	0.57	1.1	-	18	49	<0.01	20	Yes
	12-05-17	0.072	0.13	0.13	0.50	0.87	-	17	0.48	0.1	19	Yes
	12-05-18	0.10	0.20	0.14	0.56	1.2	-	15	<0.50	<1.0	16	Yes
	11-28-19	0.097	0.21	0.13	0.54	0.52	-	17	<1.0	<2.0	18	Yes
	12-02-20	0.062	0.14	0.098	0.38	0.57	-	15	0.43	<0.45	16	Yes
	12-13-21	0.097	0.19	0.14	0.56	0.56	-	13	<0.50	<0.90	14	Yes
	12-15-22	0.079	0.15	0.12	0.44	0.56	-	16	0.54	<0.90	18	Yes
	11-27-23	0.090	0.16	0.12	0.48	0.53	-	14	<0.50	<0.90	15	Yes
	11-26-24	0.080	0.14	0.12	0.43	0.26	-	15	0.41	0.12	16	Yes
	11-12-25	0.076	0.16	0.13	0.52	0.32	-	14	<0.50	<0.90	14	Yes
	11/12/25[FD]	0.070	0.15	0.12	0.47	0.31	-	14	0.52	<0.90	15	Yes

Notes:

FD - Field Duplicate

L - Lab Duplicate

NM - Not measured or not analyzed; lab duplicates do not analyze for all parameters.

mg/L - milligrams per litre

- No applicable guideline criteria.

1 - Nova Scotia Environment (NSE) Tier 1 Environmental Quality Standards (EQS) for Groundwater (Coarse Grained Soil, Non-potable Groundwater Commercial Site) Updated October 2022.

2. Bold and Shaded Exceeds NSE Tier I EQS

3 - This summary is to be used in conjunction with, not as a replacement of, the Laboratory Certificates of Analysis, which contain QA/QC information

4 - Water level measurements were collected as meters below top of casing.

TABLE A-2
LTMM GROUNDWATER MONITORING EVENT 2025 OHP AND HE
GROUNDWATER ANALYTICAL RESULTS - PAHs

Sample Location (Water Level 2025)[12]	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Benzo(k)fluoranthene[4]	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Perylene	Phenanthrene	Pyrene
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NS Tier 1 EQS[1] or MECP Standard[2] Table 3 when no Tier I EQS is available.		600 [2]	7500 [1]	2.4 [2]	4.7 [2]	0.81 [2]	0.75 [2]	0.2 [2]	-	0.4 [2]	1 [2]	0.52 [2]	130 [2]	400 [2]	0.2 [2]	1800 [2]	1800 [2]	7000 [1]	-	580 [2]	68 [2]
CODT-008-MWB (1.54 m)	03-29-13	16	0.6	**15**	**5.3**	**1.7**	**1.3**	**0.54**	NM	**1.7**	**4.2**	0.15	27	18	**0.65**	10	0.62	17	0.44	40	18
	07-24-13	110	2.8	**140**	**57**	**30**	**33**	**12**	24	**22**	**57**	**5.3**	**310**	90	**14**	35	1.9	29	9.1	260	**210**
	10-23-13	64	3.4	**11**	**5.9**	**2.6**	**1.9**	**0.60**	NM	**1.3**	**4.6**	0.22	29	34	**0.64**	40	0.31	2.8	0.47	6.5	19
	12-15-14	0.12	0.026	2.0	0.029	0.032	0.022	0.020	0.016	0.016	0.058	<0.01	0.11	0.060	0.018	0.15	0.064	<0.20	0.010	0.052	0.11
	12-10-15	0.064	0.047	0.13	1.1	**1.2**	**0.84**	**0.32**	0.71	**0.63**	0.96	0.097	2.4	0.11	**0.31**	0.057	<0.050	<0.20	0.28	0.054	4.1
	11-30-16	410	5.3	**43**	**7.6**	*<5.0*	*<5.0*	*<5.0*	<5.0	*<5.0*	**6.0**	*<5.0*	34	200	*<5.0*	970	1000	4100	<5.0	180	21
	12-7-17	0.076	0.02	0.19	0.26	0.22	0.20	0.13	0.11	0.11	0.29	0.033	0.69	0.083	0.10	<0.050	<0.050	<0.20	0.046	0.35	0.66
	12-5-18[FD]	0.21	0.039	0.15	0.14	0.11	0.098	0.061	0.059	0.059	0.17	0.017	0.41	0.11	0.056	0.43	0.18	0.69	0.028	0.21	0.47
	12-5-18	0.21	0.036	0.13	0.14	0.11	0.091	0.059	0.055	0.055	0.15	0.016	0.39	0.10	0.052	0.41	0.17	0.56	0.026	0.21	0.46
	11-28-19	0.31	0.056	<0.080[8]	0.040	0.037	0.026	0.020	<0.02[8]	0.015	0.050	<0.010	0.17	0.13	0.013	0.91	0.35	0.20	<0.010	<0.030[8]	0.32
	11-24-20[FD]	0.13	0.030	0.083	0.048	0.053	0.043	0.035	<0.03[8]	0.028	0.071	<0.010	0.19	<0.04[8]	0.026	<0.050	<0.050	<0.20	0.013	<0.02[8]	0.39
	11-24-20	0.12	0.030	0.086	0.048	0.054	0.043	0.035	<0.038	0.027	0.072	<0.010	0.19	<0.038	0.027	<0.050	<0.050	<0.2	Ia	<0.028	0.38
	12-2-21	0.29	0.036	0.055	0.046	0.05	0.034	0.032	< 0.030[8]	0.019	0.063	<0.010	0.14	0.05	< 0.030[8]	0.55	0.11	<0.20	0.014	0.039	0.26
	12-3-22	1.2	0.11	0.12	0.12	0.11	0.078	0.062	0.047	0.048	0.087	0.014	0.30	0.79	0.059	0.30	<0.010	<0.010	0.019	0.082	0.58
	11-16-23	1.6	0.35	**4.6**	2.9	**3.5**	**2.5**	**1.2**	1.5	**1.4**	**2.9**	0.37	8.3	1.1	**1.2**	0.31	<0.050	0.21	0.60	4.0	6.0
	11-15-24	0.018	<0.010	0.022	0.035	0.038	0.026	0.018	0.020	0.015	0.030	<0.010	0.073	0.015	0.019	0.012	<0.010	0.055	<0.010	0.043	0.061
	11-12-25	0.28	0.032	0.75	2.1	**1.9**	**1.3**	**0.72**	0.87	**0.84**	**2.0**	0.23	4.1	0.28	**0.75**	<0.050	<0.050	<0.20	0.37	3.0	3.3

TABLE A-2
LTMM GROUNDWATER MONITORING EVENT 2025 OHP AND HE
GROUNDWATER ANALYTICAL RESULTS - PAHs

Sample Location (Water Level 2025)[12]	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Benzo(k)fluoranthene[4]	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Perylene	Phenanthrene	Pyrene
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NS Tier 1 EQS[1] or MECP Standard[2] Table 3 when no Tier I EQS is available.		600 [2]	7500 [1]	2.4 [2]	4.7 [2]	0.81 [2]	0.75 [2]	0.2 [2]	-	0.4 [2]	1 [2]	0.52 [2]	130 [2]	400 [2]	0.2 [2]	1800 [2]	1800 [2]	7000 [1]	-	580 [2]	68 [2]
CODT-201-MWA (3.47 m)	03-13-13	0.3	0.012	0.45	1.0	0.73	0.5	**0.32**	NM	**0.66**	0.91	0.097	1.8	0.21	**0.33**	0.21	0.1	1.1	0.17	1.5	1.5
	07-16-13	0.98	0.083	**2.5**	**5.0**	**3.6**	**3.1**	**1.6**	1.8	**1.7**	**4.8**	0.49	11	0.98	**1.5**	0.15	0.15	0.22	0.75	8.6	8.7
	10-23-13	0.65	0.053	1.7	3.2	**2.5**	**1.9**	**1.1**	NM	**1.2**	**2.9**	0.34	6.9	0.67	**1.1**	0.087	0.094	<0.2	0.60	6.2	5.6
	12-15-14	1.6	0.16	**2.5**	4.5	**3.7**	**2.9**	**1.6**	1.9	**1.9**	**4.5**	**0.57**	10	1.3	**1.5**	3.3	2.1	46	0.83	8.1	8.1
	12-09-15	0.96	0.078	2.3	**4.9**	**4.7**	**3.5**	**2.0**	2.4	**2.3**	**5.1**	**0.67**	12	0.95	**1.9**	0.12	0.12	<0.20	1.0	9.0	9.3
	11-28-16	0.35	0.033	0.85	2.1	**1.8**	**1.4**	**0.81**	0.88	**0.85**	**2.1**	0.26	4.4	0.38	**0.78**	0.05	0.053	<0.20	0.4	3.2	3.6
	12-5-17	1.2	0.084	**3.7**	**9.5**	**6.9**	**5.9**	**3.1**	3.3	**3.4**	**8.6**	**1.1**	18	1.2	**2.9**	0.12	0.12	<0.20	1.5	12	13
	12-5-18	1.9	0.10	0.49	1.3	**0.99**	**0.83**	**0.51**	0.49	**0.53**	**1.4**	0.16	2.8	0.77	**0.49**	5.1	3.5	50	0.23	2.4	2.2
	11-28-19	4.6	0.048	1.4	3.7	**2.9**	**2.0**	**1.2**	1.4	**1.5**	**3.2**	0.20	6.9	0.44	**0.87**	0.053	0.054	<0.20	0.52	5.1	5.5
	11-23-20	1.8	0.19	**4.9**	**15**	**9.7**	**7.2**	**4.1**	4.7	**4.4**	**14**	**1.3**	28	1.7	**3.9**	0.23	0.17	0.32	2	19	22
	12-2-21	0.71	0.043	**1.7**	**3.5**	**2.5**	**1.7**	**1.1**	1.2	**1.1**	**3.3**	**0.36**	7.3	0.62	**1.1**	0.13	0.084	0.21	0.59	6.2	5.6
	12-05-22[FD]	0.048	<0.010	0.14	0.36	0.31	0.22	0.15	0.15	0.15	0.30	0.043	0.79	0.041	0.17	<0.010	<0.010	<0.010	0.070	0.48	0.64
	12-5-22	0.051	<0.010	0.13	0.35	0.30	0.22	0.15	0.15	0.15	0.29	0.041	0.76	0.041	0.16	<0.010	<0.010	<0.010	0.070	0.46	0.62
	11-16-23	0.086	0.015	1.3	0.49	0.57	0.44	**0.23**	0.28	0.25	0.51	0.067	1.3	0.086	**0.23**	<0.050	<0.050	<0.20	0.11	0.99	1.0
	11-26-24	0.17	0.015	0.45	1.2	**1.0**	0.66	**0.42**	0.47	**0.43**	0.95	0.14	2.4	0.14	**0.48**	0.015	0.011	0.016	0.21	1.5	1.9
	11-12-25	0.055	0.014	0.048	0.050	0.052	0.036	0.028	<0.030[8]	0.022	0.056	<0.010	0.12	0.022	0.022	<0.050	<0.050	<0.20	<0.010	0.044	0.20
CODT-201-MWC (3.35 m)	03-13-13	220	3.8	**4.9**	0.058	<0.01	<0.01	<0.01	NM	<0.01	0.04	<0.01	3.3	90	<0.01	490	310	5100	<0.01	76	1.6
	07-16-13	160	8	**4.5**	0.08	0.016	0.02	0.017	0.01	0.015	0.064	<0.01	2.7	66	0.014	360	300	4900	<0.01	51	1.3
	10-23-13[FD]	190	10	**2.5**	0.036	<0.01	<0.01	<0.01	NM	<0.01	0.029	<0.01	2.2	77	<0.01	450	320	6000	<0.01	57	1.1
	10-23-13	190	10	**3.3**	0.038	<0.01	<0.01	<0.01	NM	<0.01	0.032	<0.01	2.2	78	<0.01	470	330	6300	<0.01	56	1.1
	12-15-14	230	12	**5.9**	0.058	<0.01	<0.01	<0.01	<0.01	<0.01	0.048	<0.01	3.7	110	<0.01	670	450	**7200**	<0.01	76	1.8
	12-9-15	300	18	*<10*	*<10*	*<10*	*<10*	*<10*	<10	*<10*	*<10*	*<10*	<10	120	*<10*	750	610	**9500**	<10	89	<10
	11-28-16	250	11	**3.3**	0.044	<0.010	<0.010	<0.010	<0.010	<0.010	0.036	<0.010	1.9	120	<0.010	660	430	**7500**	<0.010	78	1
	12-5-17	240	11	**4.5**	0.054	<0.010	<0.010	<0.010	<0.010	<0.010	0.042	<0.010	3.5	96	<0.010	560	340	6200	<0.010	74	1.4
	12-5-18	270	10	**4.2**	0.068	0.011	<0.010	<0.010	<0.010	<0.010	0.056	<0.010	4.5	120	<0.010	670	490	**7800**	<0.010	90	2.0
	11-28-19	280	10	**5.4**	0.042	<0.010	<0.010	<0.010	<0.010	<0.010	0.033	<0.010	3.0	120	<0.010	680	600	**8300**	<0.010	88	1.5
	12-2-20	160 [9]	8.3	**5**	0.075	0.011	<0.010	<0.010	<0.010	<0.010	0.073	<0.010	3.7	66 [9]	<0.010	410 [9]	300 [9]	4400 [9]	<0.010	50 [9]	1.8
	12-13-21	270 [9]	8.7	**5.5**	0.1	<0.028	<0.010	<0.010	<0.010	<0.010	0.079	<0.010	4.2	110 [9]	<0.010	710 [9]	470 [9]	**7300** [9]	<0.010	759	2.0
	12-15-22	290	9.2	**4.3**	<1.0	*<0.90*	<0.70	*<1.0*	<0.70	*<1.0*	<1.0	*<1.0*	3.4	110	<1.0	690	380	3800	<1.0	78	1.7
	11-27-23	170 [11]	7.1	**4.4**	0.052	<0.010	<0.010	<0.010	<0.010	<0.010	0.042	<0.010	3.1	69 [11]	<0.010	400 [11]	300 [11]	4500 [11]	<0.010	53 [11]	1.5
	11-26-24	210	5.1	**5.2**	0.058	<0.0090	<0.0070	<0.010	<0.0070	<0.010	0.036	<0.010	3.8	80	<0.010	470	280	4500	<0.010	61	1.7
	11-12-25	210 [9]	6.2	**4.7**	0.10	0.016	0.010	<0.010	<0.010	<0.010	0.083	<0.010	3.6	89 [9]	<0.010	460 [9]	350 [9]	2700 [9]	<0.010	67 [9]	1.8
	11/12/25[FD]	230 [9]	5.9	**4.7**	0.095	0.014	<0.010	<0.010	<0.010	<0.010	0.077	<0.010	3.5	96 [9]	<0.010	490 [9]	380 [9]	2600 [9]	<0.010	72 [9]	1.7

TABLE A-2
LTMM GROUNDWATER MONITORING EVENT 2025 OHP AND HE
GROUNDWATER ANALYTICAL RESULTS - PAHs

Sample Location (Water Level 2025)[12]	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Benzo(k)fluoranthene[4]	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Perylene	Phenanthrene	Pyrene
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NS Tier 1 EQS[1] or MECP Standard[2] Table 3 when no Tier I EQS is available.		600 [2]	7500 [1]	2.4 [2]	4.7 [2]	0.81 [2]	0.75 [2]	0.2 [2]	-	0.4 [2]	1 [2]	0.52 [2]	130 [2]	400 [2]	0.2 [2]	1800 [2]	1800 [2]	7000 [1]	-	580 [2]	68 [2]
CODT-203-MW (2.18 m)	03-13-13	4.8	0.083	2.1	1.3	0.64	0.43	0.2	NM	**0.57**	**1.1**	0.064	4	2.2	**0.24**	0.63	0.22	0.62	0.14	5.1	3
	07-16-13[FD]	7.2	0.11	**2.6**	1.8	**1.2**	**0.93**	**0.48**	0.6	**0.58**	**1.6**	0.16	6.2	3.4	**0.4**	1.6	0.57	6.8	0.2	7.5	4.6
	07-16-13	7.0	0.13	**2.6**	1.8	**1.1**	**0.91**	**0.43**	0.53	**0.56**	**1.7**	0.14	6.2	3.3	**0.38**	1.6	0.53	6.3	0.22	7.6	4.6
	10/23/13[L]	10	0.19	**3.2**	1.8	**1.1**	**0.84**	**0.42**	0.59	**0.53**	**1.5**	0.15	6.6	4.8	**0.43**	2.0	0.31	1.6	0.25	9.8	4.6
	10-23-13	10	0.19	**2.5**	1.7	0.71	0.53	**0.27**	0.35	0.33	**1.2**	0.11	5.1	4.4	**0.29**	1.8	0.23	1.5	0.22	7.0	3.6
	12-12-14	0.23	<0.01	0.55	0.81	0.69	0.49	**0.29**	0.35	0.35	0.83	0.10	1.9	0.29	**0.28**	<0.05	<0.05	<0.2	0.14	1.7	1.4
	12-8-15[FD]	3.0	0.094	0.46	0.6	0.46	0.34	0.17	0.21	0.2	0.59	0.063	1.6	0.96	0.17	0.22	<0.050	<0.20	0.089	1.3	1.1
	12-8-15	0.61	0.026	0.42	0.75	0.61	0.42	**0.29**	0.27	0.26	0.73	0.11	1.8	0.24	**0.29**	<0.050	<0.050	<0.20	0.12	1.5	1.3
	11-23-16	0.37	<0.010	0.79	1.7	**1.5**	**1.1**	**0.65**	0.69	**0.67**	**1.6**	0.23	3.4	0.4	**0.64**	0.063	0.06	<0.20	0.31	2.6	2.7
	12-7-17	1.0	0.027	0.27	0.36	0.24	0.20	0.11	0.14	0.13	0.35	0.035	0.93	0.41	0.10	0.12	<0.050	0.52	0.049	0.74	0.65
	12-10-18	0.66	0.031	0.27	0.40	0.27	0.22	0.11	0.13	0.14	0.40	0.033	1.0	0.26	0.11	0.28	<0.050	1.6	0.054	0.79	0.74
	11-28-19	2.6	0.038	**6.4**	**12**	**9.7**	**6.8**	**3.6**	4.1	**4.2**	**11**	**1.0**	22	2.9	**3.3**	0.33	0.38	0.39	1.8	21	17
	11-24-20	1.5	0.039	0.54	0.78	0.53	0.39	0.19	0.28	0.27	0.72	0.1	1.9	0.47	0.2	0.19	<0.05	<0.20	0.11	1.5	1.4
	12-2-21	1.5	0.02	**3.4**	**6.9**	**4.8**	**3.1**	**1.8**	2.2	**2.1**	**6**	**0.7**	14	1.6	**1.9**	0.17	0.16	<0.20	1	13	10
	11-30-22	0.19	<0.010	0.36	0.64	0.54	0.37	**0.25**	0.24	0.25	0.52	0.085	1.4	0.17	**0.28**	0.025	0.022	0.019	0.12	1.1	1.1
	11-30-23	0.31	<0.010	0.83	1.8	**1.5**	**0.99**	**0.53**	0.63	**0.62**	**1.6**	0.15	3.6	0.33	**0.53**	<0.050	<0.050	<0.20	0.26	2.5	2.7
	11-13-24	2.6	0.039	**2.8**	**5.7**	**4.6**	**2.9**	**1.7**	1.9	**1.8**	**4.3**	**0.59**	11	1.8	**1.9**	0.30	0.16	0.13	0.87	8.8	8.6
	11-12-25	0.059	<0.010	0.094	0.22	0.18	0.12	0.066	<0.090 [8]	0.083	0.21	0.022	0.47	0.054	0.066	<0.050	<0.050	<0.20	0.033	0.35	0.36
CODT-206-MW (2.29 m)	03-13-13	32	1.2	1.6	0.16	0.089	0.08	0.03	NM	0.076	0.13	0.01	3.1	18	0.03	16	3.2	72	0.019	12	1.7
	07-16-13	90	4.4	**4.1**	0.16	0.074	0.068	0.025	0.028	0.035	0.13	<0.01	7.2	56	0.018	43	1.5	140	0.012	54	3.8
	10-23-13	3.6	0.12	0.041	0.048	0.068	0.054	0.03	NM	0.023	0.057	<0.01	0.81	0.073	0.025	<0.05	<0.05	<0.2	0.013	0.095	0.3
	12-15-14	0.89	0.060	0.076	0.083	0.12	0.10	0.057	0.052	0.052	0.16	0.015	0.27	0.36	0.049	0.86	0.38	8.7	0.023	0.31	0.19
	12-8-15	0.034	<0.010	0.023	0.04	0.072	0.05	0.038	0.029	0.028	0.059	0.011	0.089	0.018	0.032	<0.050	<0.050	<0.20	0.015	0.059	0.064
	11-28-16[FD]	0.059	0.015	0.041	0.066	0.095	0.092	0.057	0.042	0.039	0.095	0.014	0.19	0.055	0.045	<0.050	<0.050	<0.20	0.023	0.13	0.14
	11-28-16	0.032	<0.010	0.021	0.038	0.054	0.046	0.034	0.022	0.021	0.058	<0.010	0.11	0.029	0.028	<0.050	<0.050	<0.20	0.016	0.084	0.08
	12-5-17[FD]	63	3	2.4	0.20	0.25	0.23	0.096	0.082	0.095	0.27	0.033	3.1	39	0.096	18	1.1	30	0.043	25	1.5
	12-5-17	46	2.3	1.2	0.11	0.15	0.13	0.076	0.055	0.061	0.13	0.022	1.8	26	0.066	13	1.3	36	0.027	14	0.86
	12-5-18	0.68	0.034	0.016	0.017	0.033	0.029	0.026	0.015	0.014	0.022	<0.010	0.044	0.22	0.021	1.7	1.2	15	0.010	0.085	0.033
	12-4-19	0.014	<0.010	0.025	0.029	0.048	0.036	0.038	0.019	0.019	0.041	<0.010	0.076	0.010	0.027	<0.050	<0.050	<0.20	0.020	0.051	0.061
	11-25-20	<0.010	<0.010	0.02	0.022	0.036	0.032	0.02	0.017	0.015	0.029	<0.010	0.041	<0.010	0.019	<0.050	<0.050	<0.20	0.011	0.029	0.034
	12-2-21	0.051	0.011	0.024	0.033	0.072	0.056	0.05	0.029	0.027	0.051	0.013	0.083	0.016	0.043	<0.050	<0.050	<0.20	0.023	0.056	0.068
	11-30-22	0.17	0.033	0.13	0.28	0.39	0.31	0.20	0.16	0.16	0.20	0.052	0.90	0.11	**0.22**	0.015	<0.010	<0.010	0.11	0.46	0.72
	12-1-23	0.12	0.083	0.20	0.54	0.80	0.60	**0.42**	0.32	0.32	0.62	0.11	1.2	0.096	**0.40**	<0.050	<0.050	<0.20	0.19	0.59	0.96
	11-13-24	0.081	<0.010	0.013	0.016	0.021	0.015	0.013	0.011	<0.010	0.014	<0.010	0.036	0.037	0.012	<0.010	<0.010	<0.010	<0.010	0.024	0.030
	11-13-24[FD]	0.082	<0.010	0.013	0.014	0.019	0.014	0.011	0.010	<0.010	0.012	<0.010	0.033	0.037	0.012	<0.010	<0.010	<0.010	<0.010	0.024	0.026

TABLE A-2
LTMM GROUNDWATER MONITORING EVENT 2025 OHP AND HE
GROUNDWATER ANALYTICAL RESULTS - PAHs

Sample Location (Water Level 2025)[12]	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Benzo(k)fluoranthene[4]	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Perylene	Phenanthrene	Pyrene
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NS Tier 1 EQS[1] or MECP Standard[2] Table 3 when no Tier I EQS is available.		600 [2]	7500 [1]	2.4 [2]	4.7 [2]	0.81 [2]	0.75 [2]	0.2 [2]	-	0.4 [2]	1 [2]	0.52 [2]	130 [2]	400 [2]	0.2 [2]	1800 [2]	1800 [2]	7000 [1]	-	580 [2]	68 [2]
MCWS-309-MW (0.70 m)	07-26-13	0.041	0.067	0.074	0.16	0.17	0.13	0.11	0.078	0.08	0.16	0.025	0.35	0.056	0.089	<0.05	<0.05	<0.2	0.05	0.25	0.29
	11-14-13	0.09	0.049	0.033	0.029	0.027	0.024	0.02	0.013	0.01	0.03	<0.01	0.14	0.075	<0.01	0.13	0.06	1.3	<0.01	0.077	0.11
	12-9-14	0.028	0.13	0.22	0.51	0.50	0.37	**0.28**	0.24	0.24	0.48	0.084	1.0	0.13	**0.28**	<0.05	0.062	<0.2	0.13	0.60	0.79
	12-3-15	0.049	0.15	0.18	0.44	0.36	0.26	**0.22**	0.18	0.16	0.41	0.061	1.0	0.13	0.20	0.099	<0.050	<0.20	0.096	0.56	0.79
	12-2-16	<0.010	0.013	0.019	0.029	0.033	0.027	0.02	0.018	0.016	0.031	<0.010	0.093	0.014	0.018	<0.050	<0.050	<0.20	<0.010	0.052	0.080
	12-12-17	<0.010	0.021	0.039	0.10	0.09	0.13	0.064	0.051	0.053	0.11	0.019	0.29	0.024	0.059	<0.050	<0.050	<0.20	0.028	0.11	0.22
	12-7-18	<0.010	0.012	0.020	0.045	0.043	0.035	0.026	0.022	0.024	0.045	<0.010	0.14	0.016	0.024	<0.050	<0.050	<0.20	0.013	0.059	0.11
	12-5-19	0.010	0.055	0.10	0.23	0.17	0.12	0.092	0.097	0.096	0.22	0.013	0.65	0.061	0.065	<0.050	<0.050	<0.20	0.043	0.30	0.49
	11-27-20	0.011	0.048	0.069	0.19	0.19	0.15	0.11	0.097	<0.1[8]	0.19	0.03	0.52	0.044	0.096	<0.050	<0.050	<0.20	0.05	0.2	0.38
	12-7-21	0.015	0.076	0.13	0.31	0.31	0.23	0.18	0.16	0.15	0.34	0.052	0.87	0.09	0.17	<0.050	<0.050	<0.20	0.088	0.44	0.68
	11-22-22	<0.010	0.038	0.067	0.20	0.18	0.14	0.12	0.088	0.087	0.16	0.032	0.54	0.049	0.13	0.019	0.016	0.011	0.050	0.22	0.45
	11-30-23	<0.010	0.055	0.094	0.23	0.20	0.14	0.088	0.086	0.084	0.21	0.022	0.61	0.056	0.088	<0.050	<0.050	<0.20	0.044	0.25	0.52
	11-30-23 [FD]	<0.010	0.046	0.071	0.19	0.17	0.13	0.078	0.077	0.075	0.19	0.019	0.53	0.047	0.078	<0.050	<0.050	<0.20	0.038	0.21	0.45
	11-13-24	<0.010	0.028	0.047	0.12	0.11	0.068	0.058	0.051	0.044	0.095	0.016	0.34	0.034	0.068	0.012	0.010	<0.010	0.027	0.14	0.31
	11-12-25	<0.010	0.021	<0.040 [8]	0.097	0.083	0.058	0.042	<0.050 [8]	0.043	0.094	0.011	0.20	0.029	0.040	<0.050	<0.050	<0.20	0.020	0.13	0.23

Notes:

FD - Field Duplicate

L - Lab Duplicate

R - Sample analysis repeated due to a laboratory error.

FDR - Field duplicate sample analysis repeated due to a laboratory error.

NM - Not measured or not analyzed; lab duplicates do not analyze for all parameters.

µg/L - micrograms per litre

- No applicable guideline criteria.

1 - Nova Scotia Environment (NSE) Tier I Environmental Quality Standards (EQS) for Groundwater (Coarse Grained Soil, Non-potable Groundwater Commercial/Industrial Site) Updated October 2022

2 - Ontario Ministry of Environment, Conservation and Parks Table 3 Full Depth Generic Site Condition Standards in a Non-potable Groundwater 2011

3 - COTS-001-MWA could not be sampled during the December 2014 event due to insufficient water. COTS-001-MWB added to the LTMM in 2015 in place of COTS-001-MWA.

4 - Benzo(j)fluoranthene was historically not included in PAH analysis.

5 - Bold and Shaded Exceeds NSE Tier I EQS or default MOE Table 3 standards when no Tier I EQS is available.

6 - *Italics indicates laboratory detection limit elevated above criteria*

7 - This summary is to be used in conjunction with, not as a replacement of, the Laboratory Certificates of Analysis, which contain QA/QC information

8 - Elevated PAH RDL(s) due to matrix / co-extractive interference.

9 - Elevated PAH RDL(s) due to sample dilution.

10 - A possible seal failure is suspected was suspected in MCES-001-MWB.

11 - Sample contained sediment.

12 -Water level measurements were collected as meters below top of casing.

TABLE A-3
LTMM GROUNDWATER MONITORING EVEN1 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[4,5]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
Units		µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
MECP Table 3[2]		2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COBB-004-MWA (1.24 m)	03-27-13	7800	<3000	100000	4300	90	200	18	19	0.014	<500	0.19	<0.01	0.19	<0.05	<5	2.3	0.5	600	7.8	270	89	<1	402	6.38	4.76	0.314
	07-26-13	8990	3460	119000	5010	120	190	19	27	0.021	<100	<0.05	<0.01	<0.05	<0.05	<5	4.1	1.7	670	7.8	320	120	<1	444	6.84	0.07	0.489
	11-06-13	6800	3100	76000	2500	62	130	14	27	0.029	<100	<0.05	<0.01	<0.05	<0.05	15	6.7	1	430	7.65	200	62	<1	300	4.36	0	-0.096
	12-15-14	8000	3500	130000	4800	100	210	16	27	0.022	<100	0.16	<0.01	0.16	<50	10	7.4	1.8	680	7.56	340	100	<1	460	6.9	3.02	0.212
	12-9-15	8000	3700	140000	5900	160	210	14	24	0.02	<100	<0.050	<0.010	<0.050	0.094	5	NM	2.2	720	7.72	370	150	<1.0	500	7.86	0.32	0.583
	12-02-16	8900	4200	170000	6900	140	300	20	26	0.023	<100	<0.050	<0.010	<0.050	0.052	10	5.6	3.8	830	7.52	460	140	<1.0	630	9.72	0.26	0.424
	12-08-17	11000	4600	210000	9200	210	310	22	27	0.015	<100	0.076	<0.010	0.076	0.51	5.3	7.0	4.5	1100	7.69	560	210	<1.0	730	11.4	1.93	0.829
	12-03-18	10000	4200	220000	7700	180	380	18	27	0.013	<100	<0.050	<0.010	<0.050	0.060	5.5	7.6	0.71	1000	7.68	580	180	<1.0	770	12.0	0.540	0.769
	11-28-19	8500	3600	160000	6900	210	210	18	22	0.017	<100	<0.050	<0.010	<0.050	0.13	5.8	8.2	0.62	760	8.00	420	210	1.9	550	8.96	0.060	1.04
	11-23-2020[FD]	10000	3700	160000	8100	240	180	16	24	0.017	<100	<0.05	<0.01	<0.05	0.15	8.7	6.3	1.8	840	7.80	440	230	1.4	550	8.95	2.290	0.903
	11-23-20	10000	3600	160000	7900	230	200	16	24	0.017	<100	<0.05	<0.01	<0.05	0.15	8.9	6.2	1.8	840	7.82	430	230	1.4	560	9.12	0.650	0.905
	12-01-21	12000	3600	150000	7200	160	240	27	23	0.018	<100	<0.05	<0.01	<0.05	0.21	7.6	6.5	0.72	830	7.81	410	160	<1.0	570	9.00	0.840	0.726
	11-29-22[FD]	10000	1200	100000	16000	370	59	91	16	<0.010	<100	<0.050	0.029	0.057	5.7	17	11	24	1000	8.23	490	370	5.8	620	11.3	1.53	1.52
	11-29-22	30000	4400	170000	18000	360	66	87	16	<0.010	200	<0.050	0.037	0.066	5.7	16	9.9	23	1000	8.19	490	360	5.2	620	11.1	2.89	1.47
	11-16-23	42000	4100	140000	5800	150	190	60	24	0.023	<100	<0.050	<0.010	<0.050	0.23	9.6	7.5	1.8	960	7.66	370	150	<1.0	550	8.53	4.43	0.486
	12-03-24	25000	3600	110000	3900	66	200	63	24	0.017	<100	0.068	<0.010	0.068	0.11	6.5	6.0	2.5	750	7.63	300	66	<1.0	480	7.32	1.53	0.0330
	11-12-25	39000	4300	130000	4400	100	160	87	25	0.024	<100	0.10	<0.010	0.10	0.24	6.0	5.9	2.6	880	7.85	330	100	<1.0	510	7.80	3.88	0.488
COBC-001-MWA (1.70 m)	03-15-13	29000	2000	110000	5700	170	140	64	8.5	<0.01	<100	<0.05	<0.01	<0.05	0.47	65	3	32	770	7.4	300	170	<1	470	8.17	4.08	0.22
	07-26-13[FD]	34400	2300	98800	5930	150	120	73	11	0.013	212	<0.05	<0.01	<0.05	0.9	<5	4	96	720	7.27	270	150	<1	446	7.46	0	-0.024
	07-26-13	34000	2260	107000	6110	120	120	73	11	<0.01	193	<0.05	<0.01	<0.05	0.9	<5	3.4	110	740	7.33	290	150	<1	454	7.56	1.69	0.086
	11-07-13	41000	2300	190000	12000	150	350	67	8.6	<0.01	140	<0.05	<0.01	<0.05	0.4	5.2	2.5	40	1200	7.24	520	150	<1	770	12.2	0.85	0.183
	12-12-14	39000	2400	130000	7200	160	170	78	11	<10	<100	0.1	0.017	0.12	0.69	6.5	3.8	49	860	7.1	350	160	<1	550	9.12	1.22	-0.06
	12-10-15	40000	2600	130000	7700	200	170	77	10	<0.010	160	<0.050	<0.010	<0.050	0.7	6	NM	57	880	7.32	360	200	<1.0	570	9.69	2.76	0.249
	12-02-16	45000	2600	270000	16000	170	560	68	8.6	0.012	<100	<0.050	0.013	<0.050	0.66	<5.0	3.1	31	1400	7.3	730	170	<1.0	1100	16.9	0.21	0.402
	12-11-17	42000	2600	170000	9900	160	430	76	9	<0.010	<100	<0.05	<0.010	<0.050	1.1	<5.0	4.3	42	1300	7.55	460	160	<1.0	840	14.4	12.1	0.455
	12-07-18	42000	2400	130000	7800	160	220	83	11	<0.010	150	<0.050	0.010	<0.050	0.78	5.7	4.1	61	920	7.23	360	160	<1.0	600	10.1	3.90	0.0650
	12-02-19	42000	2500	160000	10000	170	280	68	9.2	<0.010	<100	<0.10	0.010	<0.10	0.62	8.0	3.8	56	1000	7.46	450	170	<1.0	690	11.3	0.810	0.408
	11-25-20	45000	2500	210000	13000	160	380	73	9.2	<0.010	<100	<0.05	<0.01	<0.05	0.91	6.9	3.6	44	1100	7.27	580	160	<1	840	13.2	2.450	0.274
	12-03-21	46000	2600	170000	10000	140	630	64	8.5	<0.010	<100	<0.050	<0.010	<0.050	0.51	<5.0	2.9	60	1500	7.3	460	140	<1.0	1000	17.7	21.300	0.132
	12-05-22	45000	2600	180000	11000	130	360	66	9.9	<0.010	<100	<0.050	<0.010	<0.050	0.72	5.2	29	5.3	1200	7.44	480	130	<1.0	750	12.0	1.05	0.292
	11-30-23																										
	12-03-24	44000	2500	100000	6400	130	150	76	12	<0.010	100	<0.050	<0.010	<0.050	0.73	8.2	4.5	68	820	7.56	280	130	<1.0	480	7.76	1.08	0.214
	11-17-25	56000	2900	260000	16000	120	610	100	9.6	0.12	<100	<0.050	<0.010	<0.050	0.81	25	3.2	63	1600	7.68	720	120	<1.0	1100	17.8	1.80	0.594
COBC-002-MWA (4.13 m)	03-15-13	160000	2500	170000	15000	48	270	320	3.3	<0.01	<100	0.23	<0.01	0.23	<0.05	<5	1.2	2.2	1600	6.3	500	48	<1	971	15.6	3.68	-1.33
	07-18-13	115000	2440	129000	13900	51	170	230	4.6	<0.01	<100	0.35	<0.01	0.35	<0.05	<5	1.5	1.3	1400	6.19	380	51	<1	696	11	6.96	-1.5
	11-05-13	150000	2800	150000	16000	50	250	310	4.9	<0.01	<100	0.25	<0.01	0.25	<0.05	<5	1.4	4.1	1600	5.98	450	50	<1	920	14.9	2.43	-1.68
	12-12-14	110000	2200	130000	13000	61	300	190	4.4	<10	<100	0.15	<0.01	0.15	0.057	<5	1.5	1.4	1300	5.99	380	61	<1	790	12.8	1.38	-1.64
	12-10-15	120000	2500	140000	16000	48	180	320	3.2	<0.010	<100	0.27	<0.010	0.27	0.056	<5.0	NM	4.1	1500	6.25	410	48	<1.0	820	13.9	0.62	-1.45
	11-22-16	160000	2600	150000	16000	58	230	340	3.8	0.011	<100	0.5	<0.010	0.5	0.056	<5.0	1.4	7.1	1600	6.29	430	58	<1.0	930	15.4	0.19	-1.32
	11-22-16	160000	2600	150000	16000	58	230	340	3.8	0.011	<100	0.5	<0.010	0.5	0.056	<5.0	1.4	7.1	1600	6.29	430	58	<1.0	930	15.4	0.19	-1.32
	12-02-17	210000	3300	190000	22000	53	190	590	2.9	<0.010	<100	0.21	<0.010	0.21	<0.050	<5.0	1.8	1.8	2300	6.37	570	53	<1.0	1300	21.9	2.53	-1.20
	12-03-18	260000	3300	190000	20000	66	200	620	2.8	<0.010	<100	0.17	<0.010	0.17	<0.050	<5.0	1.8	2.7	2400	6.44	550	66	<1.0	1300	23.0	1.35	-1.06
	12-02-19	260000	3100	190000	21000	55	180	690	2.7	<0.010	<100	0.48	<0.01	0.48	<0.050	<5.0	1.6	2.0	2500	6.25	550	55	<1.0	1400	24.3	3.79	-1.34
	11-23-20	410000	3600	200000	23000	77	230	740	3.1	<0.010	<100	0.22	0.01	0.23	<0.05	<5	<59	1.7	3200	6.42	610	77	<1	1700	27.3	4.58	-1.00
	11-30-21	340000	3100	170000	17000	84	320	500	3.9	<0.010	<100	0.1	<0.010	0.1	<0.050	<5.0	2.7	4.1	2700	6.57	490	84	<1.0	1400	22.4	5.07	-0.88
	12-03-22	350000	3100	170000	16000	80	220	610	3.7	<0.010	<100	0.25	<0.010	0.25	0.064	<5.0	3.0	8.5	2800	6.55	490	80	<1.0	1400	23.2	4.21	-0.915
	11-29-23	300000	2500	100000	12000	94	180	400	2.3	<0.010	<100	0.15	<0.010	0.15	<0.050	<5.0	2.9	1.8	2100	6.85	300	94	<1.0	1100	16.9	5.67	-0.730
	11-18-24	270000	2300	96000	10000	110	220	370	2.6	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	3.1	3.7	1900	7.46	280	110	<1.0	1000	17.2	1.06	-0.0880
	11-12-25	540000	4100	270000	29000	86	170	960	2.6	<0.010	<100	0.074	<0.010	0.074	0.050	12	2.8	2.3	4400	7.09	790	86	<1.0	2000	32.3	10.1	-0.196
COBC-004-MWA (3.71 m)	03-15-13	100000	5000	320000	28000	220	710	170	17	0.07	<100	<0.05	0.013	<0.05	<0.05	<5	1.2	<0.1	1900	7.6	920	210	<1.0	1480	23.9	2.09	0.837
	07-18-13	86300	5180	221000	35800	190	360	160	18	0.066	117	0.21	<0.01	0.21	0.18	<5	1.5	0.24	1700	7.8	700	190	1.1	999	15.7	6.45	0.88
	11-05-13	43000	4100	83000	14000	120	110	52	22	0.092	200	0.44	<0.01	0.44	<0.05	5.3	0.87	4.3	610	7.89	270	120	<1.0	410	6.26	7.74	0.449
	12-12-14	29000	2200	34000	5100	99	20	41	13	0.086	140	0.18	<0.01	0.18	<50	<5	0.53	3	350	7.83	110	98	<1	210	3.59	1.84	-0.035
	12-10-15	32000	2300	34000	4800	100	18	49	13	0.13	210	0.079	<0.010	0.079	0.05	<5.0	NM	1.1	370	7.92	110	100	<1.0	220	3.85	3.77	0.072
	11-25-16	34000	4100	120000	18000	130	240	54	21	0.19	200	0.53	<0.010	0.53	0.069	<5.0	1.5	8	780	7.81	360	130	<1.0	570	9.13	1.5	0.519
	12-07-17	90000	4800	150000	21000	160	280	140	21	0.16	180	0.053	<0.010	0.053	0.068	<5.0	1.9	2.0	1300	7.93	460	160	1.3	810	13.1	0.340	0.792
	12-03-18	50000	4100	140000	24000	180	290	76	24	0.16	200	1.5	<0.010	1.5	<0.050	<5.0	1.4	1.3	1100	7.94	460	180	1.5	730	12.0	2.13	0.836
	12-02-19	90000	4500	150000	26000	220	300	140	22	0.19	220	0.54	0.074	0.62	0.067	<5.0	1.3	1.6	1300	8.03	490	220	2.2	870	14.7	3.20	1.03
	11-23-20	210000	6700	250000	44000	180	450	390	21	0.16	200	0.07	<0.01	0.07	0.17	<5	1	2.8	2500	7.98	820	180	1.6	1500	24.0	3.09	1.04
	11-30-21	70000	4700	150000	28000	170	340	91	23	0.15	170	1.4	<0.010	1.4	<0.050	<5.0	1.5	0.1	1200	7.91	500	160	1.3	810	13.0	0.77	0.791
	12-03-22	120000	6300	210000	32000	180	440	190	38	0.17	200	0.16	<0.010	0.16	<0.050	<5.0	1.7	0.35	1800	8.04	660	170	1.8	1100	18.0	1.31	1.04
	11-30-23	48000	4400	130000	28000	170	260	50	24	0.16	230	1.2	<0.010	1.2	<0.050	<5.0	1.3	3.8	1100	7.93	440	170	1.4	660	10.5	2.73	0.790
	11-14-24	140000	7400	260000	39000	160	520	230	21	0.17	180	0.079	<0.010	0.079	0.11	<5.0	1.3	1.1	2000	8.22	800	160	2.5	1300	20.7	3.36	1.24
	11-14-25	100000	6200	170000	27000	190	290	150	23	0.17	180	1.3	<0.010	1.3	<0.050	<5.0	1.5	1.4	1400	8.14	520	190	2.5	890	14.2	3.13	1.10

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
COBB-004-MWA (1.24 m)	03-27-13	0.065	7.49	7.74	<25	<5	<3	44	<2.5	<10	<500	0.12	<5	<5	<10	<500	<5	<20	0.013	<20	<15	<5	<0.5	430	<4	<100	<15	1.8	<10	26
	07-26-13	0.241	7.31	7.56	12.9	<1	3.3	56.1	<1	<2	75	0.096	<1	<0.4	<2	77	<0.5	972	NM	19	2.2	<1	<0.1	481	<0.1	<2	<2	2.03	<2	16
	11-06-13	-0.345	7.75	8	10	<1	3.3	37	<1	<2	59	0.1	<1	<0.4	4.4	<50	<0.5	390	NM	7.8	2.5	<1	<0.1	360	<0.1	<2	<2	0.6	<2	12
	12-15-14	-0.036	7.35	7.59	27	<1	2.2	57	<1	<2	55	0.46	<1	<0.4	5.7	<50	<0.5	41	<0.013	3.2	<2	1.5	<0.1	600	<0.1	<2	<2	1.6	<2	20
	12-9-15	0.335	7.14	7.39	23	<1.0	3	76	<1.0	<2.0	65	0.058	<1.0	1.1	<2.0	360	<0.50	2300	<0.013	13	3.5	<1.0	<0.10	600	<0.10	<2.0	<2.0	2.7	<2.0	12
	12-02-16	0.177	7.09	7.34	10	<1.0	3.2	87	<1.0	<2.0	66	0.03	<1.0	0.76	2.3	320	<0.50	1700	<0.013	11	2.5	<1.0	<0.10	740	<0.10	<2.0	<2.0	3.2	<2.0	48
	12-08-17	0.582	6.86	7.11	5.5	<1.0	2.9	94	<1.0	<2.0	82	0.069	<1.0	0.60	<2.0	280	<0.50	2300	<0.013	12	<2.0	<1.0	<0.10	880	<0.10	<2.0	<2.0	8.2	<2.0	<5.0
	12-03-18	0.523	6.92	7.16	<5.0	<1.0	2.3	89	<1.0	<2.0	85	0.12	<1.0	0.60	<2.0	170	<0.50	1300	<0.013	13	2.2	<1.0	<0.10	880	<0.10	<2.0	<2.0	8.0	<2.0	<5.0
	11-28-19	0.789	6.97	7.21	7.1	<1.0	2.5	60	<1.0	<2.0	90	0.019	<1.0	0.43	<0.50	130	<0.50	1500	<0.013	15	<2.0	<0.50	<0.10	590	<0.10	<2.0	<2.0	7.2	<2.0	<5.0
	11-23-2020[FD]	0.655	6.9	7.14	<5.0	<1.0	2.9	60	<1.0	<2.0	94	0.036	<1.0	0.53	0.67	160	<0.50	2000	<0.013	17	<2.0	<0.50	<0.10	590	<0.10	<2.0	<2.0	7.9	<2.0	<5.0
	11-23-20	0.658	6.91	7.16	6.2	<1.0	2.8	59	<1.0	<2.0	89	0.056	<1.0	0.51	0.66	160	<0.50	2000	<0.013	17	<2.0	<0.50	<0.10	580	<0.10	<2.0	<2.0	7.9	<2.0	<5.0
	12-01-21	0.478	7.08	7.33	22	<1.0	2.9	57	<1.0	<2.0	83	0.044	<1.0	0.49	0.82	130	<0.50	2000	<0.013	17	2.1	<0.50	<0.10	570	<0.10	<2.0	<2.0	5.5	<2.0	<5.0
	11-29-22[FD]	1.27	6.71	6.96	8.2	<1.0	5.5	130	<0.10	<2.0	57	<0.010	<1.0	<0.40	<0.50	1500	<0.50	3300	<0.013	<2.0	<2.0	<0.50	<0.10	600	<0.10	<2.0	<2.0	0.56	<2.0	<5.0
	11-29-22	1.23	6.72	6.96	12	<1.0	5.3	130	<0.10	<2.0	58	0.042	<1.0	<0.40	<0.50	1500	<0.50	3300	<0.013	<2.0	<2.0	<0.50	<0.10	590	<0.10	<2.0	<2.0	0.56	<2.0	<5.0
	11-16-23	0.238	7.18	7.43	9.9	<1.0	3.4	58	<0.10	<2.0	88	<0.010	<1.0	0.45	0.84	170	<0.50	2200	<0.013	16	<2.0	<0.50	<0.10	510	<0.10	<2.0	<2.0	4.1	<2.0	<5.0
	12-03-24	-0.215	7.60	7.84	<5.0	<1.0	2.9	43	<0.10	<2.0	85	<0.010	<1.0	0.66	4.5	<50	<0.50	1700	<0.013	16	<2.0	<0.50	<0.10	460	<0.10	<2.0	<2.0	1.6	<2.0	<5.0
	11-12-25	0.240	7.37	7.61	<5.0	<1.0	3.5	49	<0.10	<2.0	84	0.022	<1.0	0.48	<0.50	120	<0.50	1900	-	15	<2.0	<0.50	<0.10	500	<0.10	<2.0	<2.0	2.7	<2.0	<5.0
COBC-001-MWA (1.70 m)	03-15-13	-0.028	7.18	7.43	16	<1	1.6	33	<0.5	<2.0	<100	0.056	<1.0	<1.0	<2.0	2600	<1.0	950	<0.013	<4	<3	<1.0	<0.1	3500	<0.8	<20	<3	<0.15	<2.0	37
	07-26-13[FD]	-0.272	7.29	7.54	293	<1.0	3.9	43.9	<1.0	<2.0	<50	0.028	<1.0	0.53	<2.0	11900	<0.5	1060	NM	<2.0	<2.0	<1.0	<0.1	2380	<0.1	<2.0	<2.0	0.15	2.1	35.5
	07-26-13	-0.162	7.24	7.49	23.3	<1.0	3.8	42.2	<1.0	<2.0	<50	<0.017	<1.0	0.48	<2.0	11100	<0.5	1080	NM	<2.0	<2.0	<1.0	<0.1	2550	<0.1	<2.0	<2.0	<0.1	<2.0	19.2
	11-07-13	-0.063	7.06	7.3	21	<1.0	2.7	34	<1.0	<2.0	<50	<0.01	<1.0	0.61	<2.0	4400	<0.5	1600	NM	<2.0	<2.0	<1.0	<0.1	7300	<0.1	<2.0	<2.0	0.17	<2.0	36
	12-12-14	-0.308	7.16	7.41	10	<1	2	50	<1	<2	<50	0.058	<1	0.44	<2	3900	<0.5	1200	<0.013	<2	<2	<1	<0.1	3600	<0.1	<2	<2	<0.1	<2	20
	12-10-15	0.002	7.08	7.32	29	<1.0	2.1	58	<1.0	<2.0	<50	0.095	<1.0	0.48	<2.0	4400	<0.50	1300	<0.013	<2.0	<2.0	<1.0	<0.10	3800	<0.10	<2.0	<2.0	0.12	<2.0	21
	12-02-16	0.157	6.9	7.15	7.7	<1.0	2.1	42	<1.0	<2.0	<50	0.058	<1.0	0.86	<2.0	3800	1.3	2500	<0.013	<2.0	<2.0	<1.0	<0.10	10000	<0.10	<2.0	<2.0	0.17	<2.0	61
	12-11-17	0.208	7.10	7.34	<5.0	<1.0	1.8	71	<1.0	<2.0	50	0.054	<1.0	0.42	<2.0	3300	<0.50	1700	<0.013	<2.0	<2.0	<1.0	<0.10	5000	<0.10	<2.0	<2.0	0.11	<2.0	11
	12-07-18	-0.182	7.17	7.41	<5.0	<1.0	2.3	76	<1.0	<2.0	<50	<0.010	<1.0	0.47	<2.0	4900	<0.50	1400	<0.013	<2.0	<2.0	<1.0	<0.10	3700	<0.10	<2.0	<2.0	<0.10	<2.0	29
	12-02-19	0.161	7.05	7.30	8.7	<1.0	1.9	81	<1.0	<2.0	<50	0.024	<1.0	0.44	<0.50	4000	<0.50	1700	<0.013	<2.0	<2.0	<0.5	<0.10	5100	<0.10	<2.0	<2.0	<0.10	<2.0	13
	11-25-20	0.028	6.99	7.24	8.1	<1.0	2.5	83	<1.0	<2.0	<50	<0.010	<1.0	0.49	0.7	5400	<0.50	2200	<0.013	<2.0	<2.0	<0.50	<0.10	7200	<0.10	<2.0	<2.0	0.1	<2.0	67
	12-03-21	-0.114	7.17	7.41	6.5	<1.0	1.7	76	<0.10	<2.0	<50	0.044	<1.0	0.62	<0.50	3100	<0.50	1900	<0.013[13]	<2.0	<2.0	<0.50	<0.10	5000	<0.10	<2.0	<2.0	<0.10	<2.0	22
	12-05-22	0.0450	7.15	7.39	<5.0	<1.0	<1.0	78	<0.10	<2.0	<50	0.059	<1.0	0.43	0.83	1100	<0.50	1800	<0.013	<2.0	5.9	<0.50	<0.10	5500	<0.10	<2.0	<2.0	<0.10	<2.0	79
	11-30-23	Insufficient Water to Sample																												
	12-03-24	-0.0340	7.35	7.59	12	<1.0	2.7	88	<0.10	<2.0	<50	0.018	<1.0	0.55	1.0	5700	<0.50	1200	<0.013	<2.0	<2.0	<0.50	<0.10	2500	<0.10	<2.0	<2.0	<0.10	<2.0	13
	11-17-25	0.348	7.09	7.33	<5.0	<1.0	2.1	72	<0.10	<2.0	<50	<0.010	<1.0	0.50	<0.50	5000	<0.50	2700	-	<2.0	<2.0	<0.50	<0.10	9000	<0.10	<2.0	<2.0	0.11	<2.0	60
COBC-002-MWA (4.13 m)	03-15-13	-1.57	7.63	7.87	47	<1	<0.6	15	<0.5	<2	<100	0.6	<1	<1	30	<100	<1	67	<0.013	<4	6.2	10	<0.1	730	<0.8	<20	<3	<0.15	<2	370
	07-18-13	-1.75	7.69	7.94	40.2	<1	<1	12.7	<1	<2	82	0.203	<1	0.46	40.4	84	0.93	56.1	NM	<2	2.2	8.4	<0.1	547	<0.1	<2	<2	<0.1	<2	189
	11-05-13	-1.92	7.66	7.90	95	<1	<1	14	<1	<2	87	0.26	<1	0.85	46	<50	0.92	80	NM	<2	5.3	7.6	<0.1	610	<0.1	<2	<2	<0.1	<2	240
	12-12-14	-1.88	7.62	7.87	60	<1	<1	11	<1	<2	79	0.47	<1	0.41	7.2	<50	0.57	51	<0.013	<2	<2	8.3	<0.1	500	<0.1	<2	<2	<0.1	<2	110
	12-10-15	-1.7	7.7	7.94	36	<1.0	<1.0	17	<1.0	<2.0	77	0.17	<1.0	<0.40	5.9	57	0.63	62	<0.013	<2.0	<2.0	5.8	<0.10	600	<0.10	<2.0	<2.0	<0.10	<2.0	84
	11-22-16	-1.57	7.62	7.86	66	<1.0	<1.0	15	<1.0	<2.0	79	0.21	<1.0	0.75	44	<50	0.61	98	<0.013	<2.0	2.5	6.9	<0.10	650	<0.10	<2.0	<2.0	<0.10	<2.0	160
	11-22-16	-1.57	7.62	7.86	66	<1.0	<1.0	15	<1.0	<2.0	79	0.21	<1.0	0.75	44	<50	0.61	98	<0.013	<2.0	2.5	6.9	<0.10	650	<0.10	<2.0	<2.0	<0.10	<2.0	160
	12-02-17	-1.44	7.57	7.82	27	<1.0	<1.0	21	<1.0	<2.0	75	0.21	<1.0	<0.40	9.6	<50	<0.50	59	<0.013	<2.0	<2.0	5.6	<0.10	950	<0.10	<2.0	<2.0	<0.10	<2.0	140
	12-03-18	-1.31	7.50	7.74	20	<1.0	<1.0	21	<1.0	<2.0	69	0.21	<1.0	<0.40	8.8	<50	<0.50	53	<0.013	<2.0	<2.0	5.1	<0.10	850	<0.10	<2.0	<2.0	<0.10	<2.0	120
	12-02-19	-1.58	7.59	7.83	32	<1.0	<1.0	20	<1.0	<2.0	71	0.2	<1.0	0.49	11	<50	1.1	100	<0.013	<2.0	3.5	4.7	<0.10	890	<0.10	<2.0	<2.0	<0.10	<2.0	62
	11-23-20	-1.25	7.42	7.67	42	<1.0	<1.0	22	<1.0	<2.0	68	0.25	<1.0	<0.40	23	<50	<0.50	59	<0.013	<2.0	<2.0	5.9	<0.10	1000	<0.10	<2.0	<2.0	<0.1	<2.0	110
	11-30-21	-1.12	7.45	7.69	35	<1.0	<1.0	16	<0.10	<2.0	69	0.18	<1.0	0.42	15	67	2.7	79	<0.013	<2.0	5.4	4.9	<0.10	800	<0.10	<2.0	<2.0	<0.10	<2.0	250
	12-03-22	-1.16	7.46	7.71	15	<1.0	<1.0	20	<0.10	<2.0	67	0.17	<1.0	<0.40	1.3	<50	<0.50	34	<0.013	<2.0	<2.0	4.8	<0.10	760	<0.10	<2.0	<2.0	<0.10	<2.0	17
	11-29-23	-0.976	7.58	7.82	6.7	<1.0	<1.0	13	<0.10	<2.0	76	0.090	<1.0	<0.40	0.92	<50	<0.50	20	<0.013	<2.0	<2.0	3.5	<0.10	490	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-18-24	-0.334	7.55	7.79	<5.0	<1.0	1.7	13	<0.10	<2.0	66	0.057	<1.0	<0.40	0.63	73	<0.50	18	<0.013	<2.0	<2.0	1.3	<0.10	440	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-12-25	-0.439	7.29	7.53	9.1	<1.0	1.3	42	<0.10	<2.0	69	0.23	<1.0	<0.40	0.79	390	<0.50	76	-	<2.0	<2.0	1.1	<0.10	1300	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
COBC-004-MWA (3.71 m)	03-15-13	0.593	6.76	7.01	6.4	1.9	4.1	20	<0.5	<2.0	<100	0.064	<1.0	<1.0	<2.0	<100	<1.0	270	<0.013	4.1	4.3	1.2	<0.10	710	<0.80	<20	<3.0	1	13	23
	07-18-13	0.634	6.92	7.17	8.4	1.5	3.6	15.3	<1.0	<2.0	93	0.054	<1.0	<0.4	4.2	72	<0.5	908	NM	7.5	<2.0	1.2	<0.10	682	<0.10	<2.0	<2.0	0.6	10.6	24.7
	11-05-13	0.201	7.44	7.69	16	5.0	5.4	8.5	<1.0	<2.0	67	0.043	<1.0	<0.4	<2.0	370	<0.5	310	NM	4.2	2.4	1.7	<0.10	200	<0.10	<2.0	<2.0	0.21	9.2	41
	12-12-14	-0.285	7.86	8.11	11	1.5	4.6	3.9	<1	<2	<50	0.12	<1	<0.4	2.9	<50	<0.5	7.6	<0.013	<2	<2	<1	<0.1	210	<0.1	<2	<2	0.14	8.6	18
	12-10-15	-0.178	7.84	8.09	7.7	<1.0	3.9	5.1	<1.0	<2.0	<50	0.037	<1.0	<0.40	2.6	<50	<0.50	<2.0	<0.013	<2.0	<2.0	<1.0	<0.10	300	<0.10	<2.0	<2.0	0.17	7.3	17
	11-25-16	0.272	7.3	7.54	9.4	2.5	4.6	41	<1.0	<2.0	80	0.023	<1.0	<0.40	6.6	<50	<0.50	35	<0.013	3.8	<2.0	1.7	<0.10	400	<0.10	<2.0	<2.0	0.59	13	41
	12-07-17	0.545	7.14	7.39	19	1.0	5.2	25	<1.0	<2.0	86	0.036	<1.0	<0.40	2.4	<50	<0.50	160	<0.013	7.3	<2.0	<1.0	<0.10	510	<0.10	<2.0	<2.0	0.64	15	20
	12-03-18	0.589	7.1	7.35	340	2.5	4.9	30	<1.0	<2.0	80	0.096	1.0	<0.40	3.6	<50	<0.50	21	<0.013	3.8	<2.0	8.7	<0.10	400	<0.10	<2.0	<2.0	0.68	11	20
	12-02-19	0.779	7.01	7.26	5.7	1.8	6.1	25	<1.0	<2.0	85	0.029	<1.0	<0.40	2.8	<50	<0.50	180	<0.013	7.3	<2.0	3.3	<0.10	410	<0.10	<2.0	<2.0	0.74	15	19
	11-23-20	0.795	6.94	7.18	7.2	1.6	4.9	46	<1.0	<2.0	100	0.046	<1.0	<0.4	3.8	<50	<0.50	1400	<0.013	5.8	<2.0	0.86	<0.10	790	<0.10	<2.0	<2.0	0.85	12	13
	11-30-21	0.544	7.12	7.37	9.5	2.7	5.3	29	<0.10	<2.0	88	0.02	1.0	<0.40	3	<50	0.81	18	<0.013	4.3	<2.0	9.9	<0.10	380	<0.10	<2.0	<2.0	0.81	13	26
	12-03-22	0.792	7.00	7.25	5.0	2.0	6.6	33	<0.10	<2.0	92	0.026	<1.0	<0.40	2.6	<50	<0.50	200	<0.013	4.6	3.3	1.6	<0.10	560	<0.10	<2.0	<2.0	0.93	14	23
	11-30-23	0.543	7.14	7.39	<5.0	3.4	6.7	26	<0.10	<2.0	97	0.034	<1.0	<0.40	3.9	<50	<0.50	19	<0.013	4.5	<2.0	7.8	<0.10	330	<0.10	<2.0	<2.0	0.65	16	20
	11-14-24	0.993	6.98	7.22	17	1.9	6.8	29	<0.10	<2.0	95	0.068	<1.0	<0.40	4.3	<50	<0.50	330	<0.013	6.3	3.4	0.82	<0.10	770	<0.10	<2.0	<2.0	1.2	18	13
	11-14-25	0.858	7.04	7.29	<5.0	2.3	6.3	25	<0.10	<2.0	95	0.092	<1.0	<0.40	5.7	<50	<0.50	230	-	5.9	<2.0	6.2	<0.10	420	<0.10	<2.0	<2.0	0.76	15	19

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
Units		µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
MECP Table 3[2]		2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COBP-006-MWA (1.91 m)	03-27-13[FD]	14000	3900	150000	17000	220	300	25	14	<0.01	<500	<0.05	<0.01	<0.05	1.00	370	6.4	250	940	6.9	440	220	<1	683	11.2	3.41	-0.094
	03-27-13	14000	3900	150000	18000	220	300	25	14	<0.01	<500	<0.05	<0.01	<0.05	0.99	310	7.4	270	940	6.9	460	220	<1	690	11.2	1.81	-0.077
	07-26-13	15300	4090	169000	21000	210	320	25	15	<0.01	<100	<0.05	<0.01	<0.05	0.89	37	6.7	190	1000	7.16	510	210	<1	723	11.5	1.25	0.192
	11-06-13	14000	4300	170000	21000	200	330	24	14	<0.01	110	<0.05	<0.01	<0.05	0.92	48	5.1	170	1000	7.01	520	200	<1	740	11.6	0.94	0.046
	12-15-14	21000	4000	130000	17000	250	150	34	16	<10	130	<0.05	<0.01	<0.05	1.2	17	7.8	170	820	6.95	400	250	<1	550	8.98	4.42	-0.007
	12-9-15[FD]	19000	3900	130000	15000	250	140	36	16	0.012	120	<0.050	<0.010	<0.050	1.1	<5.0	NM	240	800	7.11	380	250	<1.0	530	8.85	1.88	0.122
	12-9-15	19000	3800	120000	15000	260	120	35	16	0.013	120	<0.050	<0.010	<0.050	1.1	11	NM	270	790	7.13	370	260	<1.0	510	8.65	2.7	0.166
	11-28-16	21000	4200	110000	15000	280	98	38	16	0.016	<100	<0.050	<0.010	<0.050	1.4	5.6	12	280	720	7.06	350	280	<1.0	500	8.78	0.8	0.104
	12-21-17	21000	4000	110000	14000	270	81	40	16	<0.01	110	<0.050	<0.010	<0.050	1.3	6.8	11	170	770	7.29	340	270	<1.0	470	8.30	0.42	0.316
	12-3-18[FD]	24000	4000	110000	14000	270	77	44	15	<0.010	110	<0.050	<0.010	<0.050	1.2	16	8.5	170	730	7.33	340	270	<1.0	470	8.22	1.26	0.340
	12-3-18	24000	4000	110000	14000	270	79	45	15	<0.010	130	<0.050	<0.010	<0.050	1.2	80	8.8	160	760	7.73	330	260	1.3	470	8.21	0.610	0.735
	11-29-19	22000	3900	110000	14000	260	74	46	15	<0.010	<100	<0.050	<0.010	<0.050	1.5	<5.0	9.6	150	750	7.22	330	260	<1.0	460	8.12	0.370	0.21
	11-23-20	21000	3900	110000	14000	270	63	44	16	<0.010	120	<0.05	<0.01	<0.05	1.4	5.9	7.99	200	740	7.19	330	270	<1	450	7.94	1.550	0.193
	12-1-21	24000	4200	110000	14000	280	68	46	15	<0.010	100	<0.050	<0.010	<0.050	1.4	<5.0	9.4	98	740	7.28	330	280	<1.0	460	8.25	0.240	0.923
	12-3-22	23000	4100	100000	13000	250	56	45	14	<0.010	<100	<0.050	<0.010	<0.050	1.5	<5.0	13	290	750	7.50	320	250	<1.0	430	7.46	3.31	0.471
	11-16-23	22000	4000	100000	13000	220	52	43	14	<0.010	<100	0.19	<0.010	0.19	1.2	<5.0	8.9[9]	160	760	7.19	310	220	<1.0	400	6.74	7.10	0.103
	12-03-24	23000	4100	110000	14000	230	52	52	15	<0.010	<100	<0.050	<0.010	<0.050	1.0	70	10^{12}	200	730	7.45	320	230	<1.0	420	7.14	6.30	0.380
	11-17-25	22000	3900	97000	13000	230	44	49	15	<0.010	<100	<0.050	<0.010	<0.050	1.3	11	14 (1)	18	690	7.50	300	230	<1.0	400	6.97	3.26	0.407
COBT-003-MWB (3.80 m)	12-20-11	110000	2700	100000	13000	210	91	210	14	0.02	<100	<0.05	<0.01	<0.05	<0.05	6	1.1	1.8	1100	7.5	300	207	<1	664	12	5.37	0.321
	03-13-12[FD]	99000	2700	100000	11000	210	81	180	13	<0.01	<100	<0.05	<0.01	<0.05	<0.05	7.9	0.94	1	1100	7.7	300	210	1	621	11.1	3.73	0.535
	03-13-12	100000	2700	100000	12000	210	81	180	13	0.014	<100	<0.05	<0.01	<0.05	<0.05	9	<0.5	1.4	1100	7.7	300	210	1	620	11	2.89	0.535
	06-07-12	120000	3400	99000	12000	210	89	210	13	<0.01	<100	<0.05	<0.01	<0.05	0.064	<5	<0.5	0.96	1100	7.6	300	210	<1	677	11.9	2.36	0.408
	09-12-12	130000	3300	100000	12000	210	87	230	12	<0.01	<100	<0.05	<0.01	<0.05	0.061	<5	0.55	1.3	1200	7.6	300	210	<1	695	12.4	3.3	0.409
	12-12-12	110000	3000	100000	12000	210	85	220	13	<0.01	<100	<0.05	<0.01	<0.05	<0.05	12	<0.5	0.37	1200	7.7	310	210	1	674	12.1	4.79	0.538
	03-19-13	130000	3200	120000	12000	210	89	220	12	<0.01	<100	<0.05	<0.01	<0.05	0.06	<5	<0.5	0.8	1200	7.7	340	210	1	717	12.4	1.12	0.578
	07-18-13	111000	2910	104000	11900	210	80	180	13	<0.01	<100	0.052	<0.01	0.052	0.058	<5	0.54	0.43	1200	7.41	310	210	<1	638	11.2	0.41	0.26
	11-07-13	110000	3100	110000	13000	210	80	200	13	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	<0.5	0.86	1200	7.31	330	210	<1	670	11.7	0.56	0.177
	12-12-14	120000	3100	110000	13000	220	78	220	13	<10	<100	0.14	<0.01	0.14	0.074	<5	<0.5	1.3	1200	7.32	340	220	<1	700	12.2	0.62	0.222
	12-9-15	110000	2800	110000	12000	230	76	200	13	0.012	<100	<0.050	<0.010	<0.050	0.14	<5.0	NM	1.3	1200	7.64	320	230	<1.0	670	11.9	2.11	0.549
	11-28-16	110000	3100	110000	12000	220	74	210	13	0.015	<100	0.052	<0.010	0.052	0.073	9.1	0.72	1.6	1100	7.55	320	220	<1.0	670	11.9	2.33	0.43
	12-07-17	100000	2900	110000	12000	210	69	200	13	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	1.3	0.51	1200	7.64	320	210	<1.0	640	11.3	1.57	0.516
	12-03-18	97000	2700	110000	12000	220	74	190	14	<0.010	<100	<0.050	<0.010	<0.050	0.058	<5.0	1.1	0.53	1100	7.86	320	220	1.5	630	11.3	2.92	0.726
	11-29-19[FD]	92000	2600	100000	11000	220	72	190	12	<0.010	<100	<0.050	<0.010	<0.050	0.097	<5.0	0.78	0.47	1000	7.49	300	220	<1.0	620	11.3	5.24	0.351
	11-29-19	93000	2600	100000	11000	220	73	170	13	<0.010	<100	0.089	<0.010	0.089	0.065	<5.0	0.77	0.42	1100	7.54	310	220	<1.0	600	10.7	2.05	0.407
	11-23-20	95000	2700	110000	12000	210	68	140	13	<0.010	<100	<0.05	0.01	<0.05	0.06	<5	<0.5	3.4	1100	7.57	320	210	<1	570	9.64	4.27	0.431
	11-30-21[FD]	96000	2600	110000	12000	220	75	170	14	<0.010	<100	<0.050	<0.010	<0.050	0.086	<5.0	0.73	0.66	1100	7.56	320	220	<1.0	610	10.7	0.420	0.445
	11-30-21	94000	2600	110000	12000	220	73	170	14	<0.010	<100	<0.050	<0.010	<0.050	0.054	<5.0	0.77	0.55	1100	7.51	320	220	<1.0	610	10.8	1.030	0.39
	11-29-22	92000	2500	100000	11000	200	74	170	13	<0.010	<100	<0.050	<0.010	<0.050	0.089	<5.0	1.5	1.0	1100	7.88	300	200	1.4	590	10.4	2.05	0.694
	11-30-23	96000	2600	100000	12000	190	68	140	13	<0.010	<100	<0.050	0.013	<0.050	<0.050	<5.0	0.76	1.5	1100	7.63	300	190	<1.0	550	9.22	5.10	0.426
	11/13/24	88000	2500	100000	12000	190	69	150	13	<0.010	<100	<0.050	<0.010	<0.050	0.084	<5.0	1.0	1.0	1000	7.87	300	180	1.3	550	9.36	2.85	0.659
	11/14/25	95000	2800	100000	12000	200	67	160	13	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	1.3	1.5	1100	7.86	300	200	1.4	570	9.86	1.79	0.685
COCP-110-MW (2.22 m)	03-27-13	14000	6900	110000	7600	140	130	59	25	<0.01	<500	0.11	<0.01	0.11	1.3	5.8	1.8	56	680	7.5	320	140	<1	449	7.18	1.37	0.235
	07-18-13	17900	8680	139000	7800	170	130	62	37	<0.01	159	0.055	<0.01	0.055	2.3	7.9	3	79	860	7.44	380	170	<1	513	7.91	5.72	0.352
	11-06-13	15000	9600	160000	10000	210	260	58	40	<0.01	240	0.076	0.012	0.088	2.5	17	5.5	85	1000	7.35	450	210	<1	690	11.3	4.87	0.392
	12-15-14	20000	10000	150000	11000	210	190	35	35	<10	170	0.15	0.012	0.16	1.2	9.2	5	73	880	7.48	430	210	<1	590	9.15	4.34	0.501
	12-9-15	29000	11000	150000	10000	190	220	61	34	0.019	<100	0.17	0.011	0.18	2.3	7.4	NM	70	980	7.5	410	190	<1.0	640	10.2	0.39	0.45
	11-28-16	24000	11000	120000	11000	180	150	55	35	0.041	140	0.18	<0.010	0.18	0.22	10	3	23	720	7.82	340	180	1.1	520	8.44	2.18	0.677
	12-8-17 [FD]	33000	12000	150000	13000	210	210	75	35	<0.01	310	0.16	<0.010	0.16	1.3	6	4.1	86	1000	7.69	430	210	<1.0	660	10.6	0.38	0.68
	12-8-17	33000	12000	150000	13000	210	200	75	34	<0.010	290	0.20	<0.010	0.20	1.4	5.7	4.1	69	990	7.67	420	210	<1.0	640	10.4	0.14	0.654
	12-3-18	28000	11000	140000	13000	200	210	62	31	<0.010	200	<0.050	<0.010	<0.050	1.0	6.3	6.1	68	930	7.80	410	200	1.2	620	10.0	1.16	0.750
	11-28-19	34000	11000	130000	11000	180	200	54	29	<0.010	250	<0.050	<0.010	<0.050	1.5	7.6	3.3	43	850	8.00	380	180	1.6	590	9.30	1.43	0.880
	11-23-20	32000	13000	150000	14000	220	230	69	31	<0.010	340	0.05	0.01	0.06	1.8	9.3	<59	65	1000	7.75	430	220	1.2	670	11.1	2.97	0.769
	12-01-21	28000	11000	140000	12000	190	220	39	30	<0.010	220	0.11	<0.010	0.11	0.88	7.4	3.3	38	890	7.77	400	190	1.1	600	9.45	0.79	0.707
	11-30-22	27000	11000	150000	11000	160	250	41	35	<0.010	200	0.40	0.012	0.41	0.73	6.2	5.4	31	800	7.68	420	150	<1.0	620	9.45	2.43	0.548
	11-16-23	34000	11000	160000	12000	160	230	49	31	0.018	160	0.31	<0.010	0.31	0.80	5.2	5.1	32	1000	7.75	460	160	<1.0	640	9.47	7.70	0.674
	11-15-24	35000	12000	140000	12000	180	200	57	33	0.014	190	0.13	<0.010	0.13	0.94	9.4	3.7	61	970	7.86	410	180	1.2	610	9.48	3.81	0.782
	11/15/24[FD]	36000	12000	140000	12000	180	190	57	35	0.014	200	0.13	<0.010	0.13	0.98	9.7	<5.0[12]	75	970	7.80	410	180	1.1	600	9.23	5.14	0.720
	11-12-25	21000	7700	160000	13000	160	260	26	40	0.13	120	0.10	0.015	0.12	0.089	12	5.7	35	930	8.23	450	160	2.5	620	9.37	3.70	1.13

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
COBP-006-MWA (1.91 m)	03-27-13[FD]	-0.341	6.99	7.24	31	<5	3.1	30	<2.5	<10	<500	<0.085	<5	<5	<10	23000	<5	8400	0.022	<20	<15	<5	1	500	<4	<100	<15	<0.75	<10	34
	03-27-13	-0.324	6.98	7.22	<25	<5	<3	31	<2.5	<10	<500	<0.085	<5	<5	<10	23000	<5	8400	<0.013	<20	<15	<5	<0.5	510	<4	<100	<15	<0.75	<10	32
	07-26-13	-0.054	6.97	7.21	33.9	<1	2.7	32.8	<1	<2	71	0.06	<1	1.53	<2	20700	0.74	10500	NM	<2	<2	<1	<0.1	501	<0.1	<2	<2	0.26	<2	35
	11-06-13	-0.200	6.96	7.21	15	<1.0	3.4	30.0	<1.0	<2.0	64	<0.01	<1	0.93	<2	20000	<0.50	10000	NM	<2	<2	<1	<0.1	550	<0.1	<2	<2	0.18	<2	35
	12-15-14	-0.254	6.96	7.2	26	<1	1.4	37	<1	<2	61	0.18	<1	<0.40	<2	19000	<0.5	6200	<0.013	<2	<2	<1	<0.1	480	<0.1	<2	<2	<0.1	<2	29
	12-9-15[FD]	-0.126	6.99	7.23	<5.0	<1.0	<1.0	37	<1.0	<2.0	59	0.012	<1.0	<0.40	<2.0	19000	<0.50	5800	<0.013	<2.0	<2.0	<1.0	<0.10	440	<0.10	<2.0	<2.0	<0.10	<2.0	27
	12-9-15	-0.082	6.97	7.22	6.6	<1.0	<1.0	36	<1.0	<2.0	61	0.016	<1.0	<0.40	<2.0	19000	<0.50	5800	<0.013	<2.0	<2.0	<1.0	<0.10	440	<0.10	<2.0	<2.0	<0.10	<2.0	28
	11-28-16	-0.144	6.96	7.2	9	<1.0	<1.0	58	<1.0	<2.0	62	<0.010	<1.0	<0.40	<2.0	16000	<0.50	5300	<0.013	<2.0	<2.0	<1.0	<0.10	450	<0.10	<2.0	<2.0	<0.10	<2.0	47
	12-21-17	0.068	6.98	7.23	9.1	<1.0	<1.0	75	<1.0	<2.0	57	0.067	<1.0	<0.40	<2.0	15000	<0.50	5000	<0.013	<2.0	<2.0	<1.0	<0.10	450	<0.10	<2.0	<2.0	<0.10	<2.0	56
	12-3-18[FD]	0.092	6.99	7.24	10	<1.0	<1.0	110	<1.0	<2.0	60	0.15	<1.0	<0.40	<2.0	13000	<0.50	4900	<0.013	<2.0	<2.0	<1.0	<0.10	470	<0.10	<2.0	<2.0	<0.10	<2.0	52
	12-3-18	0.487	7.00	7.25	9.8	<1.0	<1.0	110	<1.0	<2.0	59	0.086	<1.0	<0.40	<2.0	13000	<0.50	4800	<0.013	<2.0	<2.0	<1.0	<0.10	460	<0.10	<2.0	<2.0	<0.10	<2.0	52
	11-29-19	-0.038	7.01	7.26	50	<1.0	<1.0	110	<1.0	<2.0	59	0.02	<1.0	<0.40	<0.5	13000	<0.50	4700	<0.013	<2.0	<2.0	<0.5	<0.10	450	<0.10	<2.0	<2.0	<0.10	<2.0	13
	11-23-20	-0.055	6.99	7.24	8.5	<1.0	<1.0	89	<1.0	<2.0	58	0.21	<1.0	<0.40	0.64	14000	<0.50	4600	<0.013	<2.0	<2.0	<0.50	<0.10	440	<0.10	<2.0	<2.0	<0.10	<2.0	59
	12-1-21	0.045	6.99	7.24	18	<1.0	<1.0	130	<0.10	<2.0	60	0.037	<1.0	<0.40	<0.50	11000	<0.50	4500	<0.013[13]	<2.0	<2.0	<0.50	<0.10	470	<0.10	<2.0	<2.0	<0.10	<2.0	52
	12-3-22	0.223	7.03	7.28	16	<1.0	<1.0	130	<0.10	<2.0	56	0.040	<1.0	<0.40	<0.50	11000	<0.50	4300	<0.013	<2.0	<2.0	<0.50	<0.10	450	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-16-23	-0.146	7.09	7.34	20	<1.0	<1.0	110	<0.10	<2.0	51	0.031	<1.0	<0.40	1.6	12000	<0.50	4200	<0.013	<2.0	<2.0	<0.50	<0.10	420	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-03-24	0.132	7.07	7.32	8.0	<1.0	<1.0	88	<0.10	<2.0	53	0.017	<1.0	<0.40	0.54	14000	<0.50	4100	<0.013	<2.0	4.2	<0.50	<0.10	400	<0.10	<2.0	<2.0	<0.10	<2.0	55
	11-17-25	0.159	7.09	7.34	<5.0	<1.0	1.2	130	<0.10	<2.0	<50	0.024	<1.0	<0.40	<0.50	11000	<0.50	3900	-	<2.0	<2.0	<0.50	<0.10	380	<0.10	<2.0	<2.0	0.19	<2.0	33
COBT-003-MWB (3.80 m)	12-20-11	0.074	7.18	7.43	6.1	<0.4	4.4	46	<0.5	<2	<100	<0.017	<1	<1	<2	250	<1	3100	<0.013	<4	<3	<1	<0.1	1200	<0.8	<20	<3	0.55	<2	11
	03-13-12[FD]	0.288	7.17	7.41	<5	0.51	3.4	42	<0.5	<2	<100	<0.017	<1	<1	<2	210	<1	2600	<0.013	<4	<3	<1	<0.1	1300	<0.8	<20	<3	0.45	<2	6.7
	03-13-12	0.288	7.17	7.41	23	<0.4	3.5	43	<0.5	<2	<100	<0.017	<1	<1	<2	220	<1	2700	<0.013	<4	<3	<1	<0.1	1300	<0.8	<20	<3	0.45	<2	7.3
	06-07-12	0.161	7.19	7.44	<5	<1	4.2	70	<0.5	<2	<100	<0.017	<1	<1	<2	170	<1	2000	<0.013	<4	<3	1.2	<0.1	1500	<0.8	<20	<3	0.22	<2	29
	09-12-12	0.162	7.19	7.44	<5	<1	3.7	67	<0.5	<2	<100	0.055	<1	<1	<2	170	<1	2000	<0.013	<4	<3	<1	<0.1	1500	<0.8	<20	<3	0.24	<2	16
	12-12-12	0.291	7.16	7.41	14	<1	3.5	42	<0.5	<2	<100	0.034	<1	<1	<2	110	<1	2300	<0.013	<4	<3	<1	<0.1	1500	<0.8	<20	<3	0.29	<2	8.1
	03-19-13	0.331	7.12	7.37	<5	<1	3	57	<0.5	<2	<100	0.02	<1	<1	<2	140	<1	2100	<0.013	<4	<3	<1	<0.1	1700	<0.8	<20	<3	0.3	<2	20
	07-18-13	0.013	7.15	7.4	5.4	<1	3.7	42.4	<1	<2	62	0.018	<1	0.44	<2	159	<0.5	2170	NM	<2	<2	<1	<0.1	1500	<0.1	<2	<2	0.22	<2	21.4
	11-07-13	-0.07	7.13	7.38	20	<1	3.8	43	<1	<2	61	0.02	<1	0.53	<2	190	<0.5	2200	NM	<2	<2	<1	<0.1	1400	<0.1	<2	<2	0.27	<2	22
	12-12-14	-0.025	7.1	7.35	20	<1	3.4	56	<1	<2	64	1.7	<1	0.42	<2	240	<0.5	2300	<0.013	<2	<2	<1	<0.1	1500	<0.1	<2	<2	0.26	<2	20
	12-9-15	0.302	7.09	7.34	<5.0	<1.0	3	43	<1.0	<2.0	64	0.039	<1.0	0.41	<2.0	200	<0.50	2400	<0.013	<2.0	<2.0	<1.0	<0.10	1400	<0.10	<2.0	<2.0	0.28	<2.0	15
	11-28-16	0.183	7.12	7.37	5.9	<1.0	2.5	46	<1.0	<2.0	65	<0.010	<1.0	<0.40	<2.0	220	<0.50	2200	<0.013	<2.0	<2.0	<1.0	<0.10	1400	<0.10	<2.0	<2.0	0.25	<2.0	21
	12-07-17	0.269	7.13	7.37	<5.0	<1.0	2.8	44	<1.0	<2.0	63	0.010	<1.0	0.48	<2.0	220	<0.50	2300	<0.013	<2.0	<2.0	<1.0	<0.10	1300	<0.10	<2.0	<2.0	0.44	<2.0	21
	12-03-18	0.478	7.13	7.38	<5.0	<1.0	2.4	48	<1.0	<2.0	57	0.016	<1.0	0.44	<2.0	220	<0.50	2200	<0.013	<2.0	<2.0	<1.0	<0.10	1300	<0.10	<2.0	<2.0	0.49	<2.0	41
	11-29-19[FD]	0.104	7.14	7.38	11	<1.0	2.0	41	<1.0	<2.0	56	0.040	<1.0	0.56	0.60	130	<0.50	2400	<0.013	<2.0	<2.0	<0.50	<0.10	1200	<0.10	<2.0	<2.0	0.29	<2.0	9.2
	11-29-19	0.160	7.14	7.39	11	<1.0	2.0	42	<1.0	<2.0	57	0.026	<1.0	0.58	0.78	120	<0.50	2400	<0.013	<2.0	<2.0	<0.50	<0.10	1200	<0.10	<2.0	<2.0	0.29	<2.0	8.0
	11-23-20	0.183	7.14	7.38	<5.0	<1.0	2.7	41	<1.0	<2.0	62	0.032	<1.0	0.53	0.73	180	<0.50	2500	<0.013	<2.0	<2.0	<0.50	<0.10	1300	<0.1	<2.0	<2.0	0.22	<2.0	26.0
	11-30-21 [FD]	0.198	7.12	7.36	<5.0	<1.0	2.3	41	<0.10	<2.0	61	0.015	<1.0	0.57	0.61	140	<0.50	2400	<0.013	<2.0	<2.0	<0.50	<0.10	1100	<0.10	<2.0	<2.0	0.35	<2.0	24.0
	11-30-21	0.142	7.12	7.37	6.9	<1.0	2.3	42	<0.10	<2.0	61	0.057	<1.0	0.54	0.65	150	<0.50	2400	<0.013	<2.0	<2.0	<0.50	<0.10	1200	<0.10	<2.0	<2.0	0.37	<2.0	23.0
	11-29-22	0.447	7.19	7.43	<5.0	<1.0	1.8	42	<0.10	<2.0	65	0.014	<1.0	0.60	2.7	230	<0.50	2500	<0.013	<2.0	5.8	<0.50	<0.10	1100	<0.10	<2.0	<2.0	0.31	<2.0	27
	11-30-23	0.178	7.21	7.46	<5.0	<1.0	2.9	44	<0.10	<2.0	64	0.023	<1.0	0.72	<0.50	300	<0.50	3000	<0.013	<2.0	4.0	<0.50	<0.10	1100	<0.10	<2.0	<2.0	0.30	<2.0	29
	11/13/24	0.411	7.21	7.46	<5.0	<1.0	3.1	45	<0.10	<2.0	58	0.028	<1.0	1.1	<0.50	480	<0.50	3300	<0.013	<2.0	6.5	<0.50	<0.10	1100	<0.10	<2.0	<2.0	0.49	<2.0	7.9
	11/14/25	0.437	7.17	7.42	<5.0	<1.0	2.6	44	<0.10	<2.0	69	<0.010	<1.0	0.55	<0.50	260	<0.50	2500	-	<2.0	<2.0	<0.50	<0.10	1200	<0.10	<2.0	<2.0	0.24	<2.0	<5.0
COCP-110-MW (2.22 m)	03-27-13	-0.013	7.27	7.51	<25	<5	14	61	<2.5	<10	<500	0.11	<5	<5	<10	4300	<5	330	<0.013	<20	<15	<5	<0.5	420	<4	<100	<15	0.92	<10	29
	07-18-13	0.105	7.09	7.34	7.8	<1	18.5	60.3	<1	<2	64	<0.017	<1	<0.4	<2	3880	<0.5	493	NM	4.1	<2	<1	<0.1	464	<0.1	<2	<2	0.54	<2	7.4
	11-06-13	0.145	6.96	7.21	14	1.8	19	81	<1	<2	82	0.011	<1	<0.4	<2	3300	<0.5	380	NM	5.7	<2	1.9	<0.1	660	<0.1	<2	<2	2.6	4.9	12
	12-15-14	0.254	6.98	7.23	13	2.5	13	77	<1	<2	76	0.18	<1	<0.4	<2	4400	<0.5	390	0.017	6.6	<2	1.3	<0.1	610	<0.1	<2	<2	3	5.1	9.8
	12-9-15	0.202	7.05	7.29	15	1.6	17	56	<1.0	<2.0	70	0.067	<1.0	<0.40	<2.0	6600	<0.50	550	<0.013	6.9	<2.0	<1.0	<0.10	490	<0.10	<2.0	<2.0	1	<2.0	55
	11-28-16	0.429	7.14	7.39	10	2.1	13	96	<1.0	<2.0	68	0.05	<1.0	<0.40	<2.0	800	<0.50	110	<0.013	4	<2.0	1.7	<0.10	500	<0.10	<2.0	<2.0	3	4.7	<5.0
	12-8-17 [FD]	0.433	7.01	7.26	<5.0	1.4	28	85	<1.0	<2.0	77	0.021	<1.0	<0.40	<2.0	4600	<0.50	390	0.015	7.9	<2.0	<1.0	<0.10	580	<0.10	<2.0	<2.0	2.5	3.4	<5.0
	12-8-17	0.406	7.02	7.26	<5.0	1.6	27	86	<1.0	<2.0	75	0.018	<1.0	<0.40	<2.0	4000	<0.50	370	<0.013	8.0	<2.0	1.1	<0.10	580	<0.10	<2.0	<2.0	2.4	3.6	<5.0
	12-3-18	0.502	7.05	7.30	6.3	2.6	18	75	<1.0	<2.0	72	0.13	<1.0	<0.40	<2.0	2200	<0.50	260	0.017	7.2	<2.0	1.0	<0.10	580	<0.10	<2.0	<2.0	2.6	7.0	5.5
	11-28-19	0.632	7.12	7.37	17	1.1	27	63	<1.0	<2.0	75	0.011	<1.0	<0.40	0.97	4700	<0.50	350	<0.013	7.1	<2.0	<0.50	<0.10	500	<0.10	<2.0	<2.0	1.6	3.0	<5.0
	11-23-20	0.522	6.99	7.23	10	2	27	76	<1.0	<2.0	84	2.2	<1.0	<0.40	0.97	2700	<0.50	330	<0.013	8.8	<2.0	2.5	<0.10	570	<0.10	<2.0	<2.0	2.4	5.5	<5.0
	12-01-21	0.46	7.06	7.31	7.5	3	21	61	<1.0	<2.0	83	0.33	<1.0	<0.40	**3100**	3100	<0.50	230	<0.013	7.1	<2.0	1.8	<0.10	530	<0.10	<2.0	<2.0	2.3	6.2	<5.0
	11-30-22	0.301	7.13	7.38	<5.0	3.0	20	74	<0.10	<2.0	82	0.038	<1.0	<0.40	0.82	2200	<0.50	190	0.013	5.8	<2.0	2.0	<0.10	600	<0.10	<2.0	<2.0	2.9	9.4	6.8
	11-16-23	0.427	7.08	7.32	9.8	2.1	23	77	<0.10	<2.0	84	0.074	<1.0	<0.40	0.64	2400	<0.50	240	<0.013	7.0	<2.0	1.3	<0.10	600	<0.10	<2.0	<2.0	2.2	6.4	8.0
	11-15-24	0.535	7.08	7.32	<5.0	2.2	23	66	<0.10	<2.0	93	<0.010	<1.0	<0.40	<0.50	2500	<0.50	270	<0.013	7.2	<2.0	5.6	<0.10	540	<0.10	<2.0	<2.0	1.8	5.2	<5.0
	11/15/24[FD]	0.472	7.08	7.33	<5.0	2.2	22	65	<0.10	<2.0	97	<0.010	8.5	<0.40	<0.50	2600	<0.50	270	<0.013	7.4	4.1	4.8	<0.10	540	<0.10	<2.0	<2.0	1.7	4.8	<5.0
	11-12-25	0.879	7.10	7.35	<5.0	4.1	12	72	<0.10	<2.0	89	0.038	1.9	<0.40	3.3	52	<0.50	26	-	3.6	<2.0	4.7	<0.10	630	<0.10	<2.0	<2.0	5.5	15	6.5

TABLE A-3
LTMM GROUNDWATER MONITORING EVEN1 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CODT-008-MWB (1.54 m)	03-29-13	27000	5500	56000	1700	95	31	75	20	0.042	<100	0.56	0.087	0.65	0.1	23	4.9	36	420	9.1	150	84	10	275	4.71	5.49	1.36
	07-16-13	30400	10200	76500	1390	120	85	61	18	0.074	141	<0.05	0.015	0.056	0.79	52	12	120	570	8.53	200	110	3.6	354	5.82	2.11	1.03
	10-23-13	8700	5200	79000	1600	87	130	6.8	26	<0.01	<100	0.53	0.11	0.63	0.12	33	12	>1000	450	7.56	200	86	<1.0	310	4.63	0.43	-0.029
	12-15-14	18000	7800	69000	330	80	58	31	23	<10	<100	0.23	0.15	0.39	0.31	20	3.6	1.8	460	10.9	170	38	5.5	260	3.73	8.91	2.04
	12-10-15	13000	8500	60000	190	74	97	17	18	0.03	110	0.24	0.37	0.61	0.37	46	NM	12	400	9.75	150	47	25	260	4.02	2.29	1.79
	11-30-16	40000	2300	38000	3500	100	12	87	6.1	0.067	<100	<0.050	0.011	<0.050	0.5	37	<5.0	16	470	7.55	110	100	<1.0	250	4.76	8.18	-0.267
	12-07-17	13000	5200	75000	700	67	130	14	23	0.011	<100	0.81	0.19	1.0	<0.050	19	6.0	6.3	450	10.1	190	28	33	300	4.44	0.670	2.00
	12-05-18[FD]	45000	5200	83000	310	110	73	84	19	0.014	<100	0.096	0.20	0.29	0.37	17	<5.0 [9]	3.4	800	11.3 [8]	210	<1.0	2.0	370	6.02	2.11	0.812
	12-05-18	46000	5200	83000	310	110	71	87	19	0.014	<100	0.064	0.19	0.25	0.36	17	3.8	3.3	770	11.0 [8]	210	4.7	48	380	6.10	1.77	2.19
	11-28-19	41000	4500	74000	450	100	86	62	20	<0.010	<100	0.11	0.18	0.30	0.37	17	5.2	1.2	640	11.0 [8]	190	4.0	41	350	5.58	0.710	2.08
	11-24-20[FD]	33000	5900	85000	900	53	190	17	24	<0.010	<100	0.52	0.45	0.97	0.08	29	6.3	1.7	550	9.94	220	27.0	22	390	5.48	3.860	1.86
	11-24-20	33000	6000	85000	910	52	170	16	25	<0.010	<100	0.54	0.45	0.99	0.07	30	6.3	2.6	540	9.97	220	25.0	22	380	5.19	6.400	1.86
	12-02-21	34000	3500	67000	520	92	77	48	25	<0.010	<100	0.11	0.16	0.27	0.29	21	4.2	2.1	530	10.7 [8]	170	11.0	55	310	4.81	2.040	2.17
	12-03-22	41000	4000	79000	620	97	84	77	21	<0.010	<100	0.076	0.27	0.34	0.25	20	5.2	1.2	630	10.8	200	10	57	370	5.88	0.340	2.25
	11-16-23	35000	3500	84000	2700	89	120	49	25	0.098	<100	0.052	<0.010	0.052	0.40	46	7.9 9	110	650	8.44	220	86	2.3	370	5.64	3.75	0.866
	11-15-24	6500	780	90000	3800	110	110	12	33	0.015	<100	0.077	<0.010	0.077	0.067	12	6.3	8.2	510	7.54	240	110	<1.0	330	4.87	2.50	0.0990
	11-12-25	13000	2000	58000	1100	30	83	11	28	<0.010	<100	0.18	0.081	0.26	0.053	17	4.4	5.4	300	8.95	150	27	2.3	210	2.64	15.1	0.752
CODT-105-MW (2.88 m)	01-15-13	26000	13000	96000	13000	150	140	39	12	<0.01	<100	0.58	0.093	0.67	0.066	<5	2.3	1.5	640	8	290	150	1.4	433	7.12	1.73	0.714
	03-13-13	250000	17000	99000	400	78	110	460	11	<0.01	<100	0.094	0.46	0.55	0.27	8	2.3	8.2	1900	10.7	250	43	9.2	995	16.8	1.69	2.11
	07-16-13	56000	11500	74200	4980	42	140	91	10	<0.01	<100	0.22	0.065	0.29	0.39	9	3.1	1.6	660	8.89	210	39	2.8	413	6.3	4.33	0.902
	10-23-13	41000	14000	77000	4700	81	140	62	10	0.017	<100	0.5	0.31	0.8	0.32	11	3.5	1.8	640	9.10	210	72	8.5	410	6.42	0.39	1.40
	12-16-14	14000	7200	130000	18000	180	110	230	17	0.018	<100	0.53	0.037	1.1	<50	11	3.3	0.56	780	7.79	390	300	1.7	500	8.84	1.14	0.902
	12-10-15	36000	9300	69000	6200	62	140	32	13	0.013	<100	0.55	0.18	0.74	0.17	<5.0	NM	0.65	510	8.64	200	60	2.5	350	5.09	6.43	0.825
	11-23-16[FD]	41000	21000	110000	17000	230	140	36	15	0.025	<100	0.74	0.23	0.97	0.095	<5.0	2.9	1.4	760	7.87	330	230	1.6	520	8.59	2.22	0.781
	11-23-16	42000	21000	110000	17000	220	140	36	14	0.026	<100	0.76	0.22	0.98	0.08	<5.0	2.9	1.3	750	7.91	340	220	1.7	520	8.51	3.13	0.811
	12-07-17	64000	9900	56000	2600	61	130	81	16	0.010	<100	1.4	0.45	1.9	0.092	6.6	4.3	0.38	650	8.28	150	59	1.1	400	6.24	1.22	0.358
	12-05-18	15000	5400	160000	24000	370	160	13	18	0.029	<100	2.1	<0.010	2.1	<0.050	<5.0	3.1	0.39	940	7.87	510	370	2.6	630	11.2	1.45	1.16
	12-04-19	13000	5400	160000	23000	390	140	16	18	0.021	<100	2.2	<0.010	2.2	<0.050	<5.0	2.8	0.36	940	7.83	490	390	2.5	620	11.3	3.24	1.14
	11-24-20	76000	7200	46000	1500	66	120	72	18	0.014	<100	1.4	0.27	1.7	0.05	8.1	2.9	1.1	650	8.63	120	63	2.6	390	5.99	0.42	0.659
	12-03-21	15000	5200	170000	25000	380	160	12	20	0.026	<100	2.8	<0.010	2.8	<0.050	<5.0	2.9	2	990	7.82	530	380	2.4	650	11.5	0.57	1.14
	11-30-22	22000	7100	160000	21000	310	150	24	19	0.028	<100	3.5	<0.010	3.5	0.065	<5.0	3.2	0.35	950	7.93	480	300	2.4	600	10.2	3.09	1.13
	11-29-23	18000	4500	140000	21000	240	130	17	16	0.029	<100	1.9	0.064	2.0 9	<0.050	<5.0	2.4	0.42	800	7.86	430	240	1.6	500	8.18	7.83	0.917
	12-03-24	12000	4300	170000	23000	310	170	14	19	0.034	<100	3.3	<0.010	3.3	<0.050	<5.0	2.6	0.24	990	7.85	510	310	2.0	610	10.3	2.46	1.07
	11-17-25	21000	6500	160000	19000	260	180	24	20[12]	0.035	<100	3.1	<0.010	3.1	<0.050	6.8	2.9	1.8	930	7.91	470	260	2.0	600	9.88	2.66	1.04
CODT-201-MWA (3.47 m)	03-13-13	16000	2300	87000	8200	200	53	22	13	<0.01	<100	1.1	<0.01	1.1	<0.05	5.8	1.8	15	530	7.5	250	200	<1	327	5.83	0.43	0.316
	07-16-13	15700	2690	89300	9070	220	51	20	14	0.015	<100	1	<0.01	1	<0.05	<5	<5	140	560	7.44	260	220	<1	339	6.11	1.33	0.302
	10-23-13	14000	2100	75000	7300	190	42	9	11	0.012	<100	3.3	<0.01	3.3	<0.05	13	5.9	110	460	7.71	220	180	<1	290	5.08	0.990	0.434
	12-15-14	9900	2800	100000	11000	220	67	12	14	0.019	<100	3.2	<0.01	3.2	<50	6.5	3.8	240	570	7.57	290	220	<1	360	6.3	0.47	0.472
	12-9-15	9800	2900	120000	12000	280	79	11	15	0.022	<100	7.0	<0.010	7	0.11	<5.0	NM	160	680	7.54	350	280	<1.0	450	7.96	3.11	0.601
	11-28-16	8200	3200	100000	11000	250	58	11	15	0.027	<100	3.7	<0.010	3.7	<0.050	6.3	3.8	75	560	7.61	310	250	<1.0	380	6.8	1.64	0.588
	12-05-17	9400	3100	94000	10000	230	53	9.4	15	0.021	<100	4.2	<0.010	4.2	<0.050	<5.0	<5.0	160	580	7.68	280	230	1.1	350	6.36	2.66	0.591
	12-05-18	7400	2900	100000	9900	210	79	16	15	0.020	<100	1.3	<0.010	1.3	<0.050	<5.0	3.4	7.7	580	7.86	300	200	1.4	360	6.32	0.240	0.748
	11-28-19	7500	3000	110000	11000	230	85	14	14	0.017	<100	2.0	<0.010	2.0	<0.050	<5.0	3.4	20	590	7.89	320	230	1.7	400	6.99	0.940	0.858
	11-23-20	11000	2600	80000	7300	200	39	15	13	0.014	<100	0.8	<0.01	0.8	<0.05	5.1	<59	260	480	7.76	230	200	1.1	290	5.33	1.720	0.543
	12-02-21	7100	2900	100000	9600	210	64	9.5	16	0.020	<100	1.4	<0.010	1.4	<0.050	<5.0	2.7	12	570	7.76	290	210	1.1	340	5.91	2.480	0.653
	12-05-22[FD]	6900	3100	120000	10000	240	63	16	17	0.013	<100	3.3	<0.010	3.3	<0.050	<5.0	3.5	0.31	690	7.91	340	240	1.8	400	6.87	2.00	0.918
	12-05-22	6900	3100	120000	10000	240	63	16	17	0.014	<100	3.5	0.010	3.5	<0.050	<5.0	3.5	1.1	660	7.69	340	240	1.1	400	6.85	1.93	0.700
	11-16-23	6800	2900	100000	7000	190	60	7.3	16	0.018	<100	0.41	<0.010	0.41	<0.050	<5.0	2.4	5.8	570	7.32	280	190	<1.0	320	5.21	7.21	0.175
	11-26-24	6500	2700	98000	8000	180	57	9.0	16	0.018	<100	2.8	<0.010	2.8	<0.050	<5.0	<5.0 [9]	70	550	8.04	280	180	1.9	320	5.31	5.35	0.861
	11-12-25	14000	3300	130000	10000	160	52	27	14	0.018	<100	38	0.18	38	<0.050	8.8	3.1	18	850	7.93	360	160	1.3	520	7.83	0.760	0.774
CODT-201-MWC (3.35 m)	03-13-13	59000	2400	43000	4700	210	4.7	42	11	<0.01	<100	<0.05	<0.01	<0.05	0.64	7.3	6.3	14	500	8	130	200	1.9	292	5.4	1.69	0.527
	07-16-13	64900	2360	40800	4730	210	6	40	11	0.15	<100	<0.05	<0.01	<0.05	0.58	<5	<5	25	500	7.91	120	210	1.6	298	5.48	1.2	0.422
	10-23-13[FD]	67000	2300	41000	4500	200	13	44	11	<0.01	<100	<0.05	<0.01	<0.05	0.43	6	4.3	2.3	510	7.97	120	200	1.7	300	5.5	1.1	0.456
	10-23-13	67000	2400	40000	4600	200	13	45	12	<0.01	<100	0.058	<0.01	0.058	0.42	5.5	4.5	2.2	510	7.92	120	200	1.6	300	5.53	1.47	0.401
	12-15-14	66000	2300	38000	4300	200	5.3	43	11	0.01	<100	<0.05	<0.01	<0.05	0.52	5.5	5.2	9.3	500	7.87	110	200	1.4	290	5.32	1.04	0.327
	12-9-15	60000	2300	45000	5100	220	11	45	11	0.019	<100	<0.050	<0.010	<0.050	0.91	<5.0	NM	1.2	530	7.99	130	220	2	310	5.87	4.08	0.556
	11-28-16	70000	2500	38000	4200	200	6.7	64	11	0.019	<100	0.054	<0.010	0.054	0.45	<5.0	<5.0	4	510	8.05	110	200	2.1	320	5.89	4.53	0.497
	12-05-17	69000	2500	40000	4900	210	4.0	59	12	<0.010	<100	<0.050	<0.010	<0.050	0.59	5.2	5.7	0.84	560	7.81	120	200	1.2	320	5.85	3.08	0.299
	12-05-18	64000	2400	42000	4600	210	<2.0	50	12	0.013	<100	<0.050	<0.010	<0.050	0.54	5.3	14	7.7	530	7.97	120	210	1.8	300	5.57	1.92	0.488
	11-28-19	63000	2400	39000	4500	200	2.1	47	11	0.011	<100	<0.050	<0.010	<0.050	0.68	<5.0	14	1.6	480	8.13	120	200	2.5	290	5.36	2.00	0.597
	12-02-20	66000	2400	47000	5600	200	13.0	59	11	<0.010	<100	<0.05	<0.01	<0.05	0.72	10	7.8	1.8	550	7.78	140	200	1.1	330	6.01	1.95	0.325
	12-13-21	67000	2300	37000	4400	200	6.5	51	11	<0.010	<100	<0.050	<0.010	<0.050	0.52	6.5	12	4.6	500	7.97	110	200	1.8	300	5.6	3.61	0.416
	12-15-22	72000	2300	40000	4600	200	<2.0	54	11	<0.010	<100	<0.050	0.015	<0.050	0.49	<5.0	11	1.7	560	7.81	120	200	1.2	310	5.54	0.450	0.298
	11-27-23	69000	2400	39000	4500	170	<2.0	45	11	0.013	<100	<0.050	<0.010	<0.050	0.48	5.3	13 9	7.8	520	8.05	120	170	1.8	280	4.72	6.72	0.455
	11-26-24	75000	2400	42000	5000	180	<2.0	66	11	0.012	<100	<0.050	<0.010	<0.050	0.41	<5.0	8.7[12]	7.4	590	8.37	130	170	3.8	310	5.44	3.97	0.815
	11-12-25	79000	2500	39000	4500	180	<2.0	64	11	0.11	<100	<0.050	<0.010	<0.050	0.40	<5.0	6.8 (1)	0.98	620	8.21	120	180	2.7	310	5.44	3.37	0.626
	11/12/25[FD]	79000	2500	39000	4600	180	<2.0	64	11	0.011	<100	<0.050	<0.010	<0.050	0.40	<5.0	9.2	1.3	590	8.02	120	180	1.8	310	5.42	3.82	0.444

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
CODT-008-MWB (1.54 m)	03-29-13	1.11	7.74	7.99	34	<1	9.7	27	<0.5	<2	<100	<0.017	<1	<1	4.7	<100	<1	6.9	0.12	<4	<3	2.8	<0.1	250	<0.8	<20	<3	1.2	9.7	<5
	07-16-13	0.781	7.5	7.75	41.3	<1	41.7	52.7	<1	<2	<50	0.028	2.2	<0.4	<2	134	<0.5	143	NM	5.9	<2	1.3	<0.1	509	<0.1	<2	<2	1.45	2.9	8
	10-23-13	-0.278	7.59	7.84	45	<1	11	58	<1	<2	<50	<0.01	<1	<0.40	3.2	110	<0.50	220	NM	3.8	<2	1.6	<0.1	480	<0.1	<2	4.3	1.9	4.9	9.9
	12-15-14	1.79	8.83	9.08	510	<1	7.2	25	<1	<2	<50	0.085	1.3	<0.4	5.6	<50	<0.5	<2	<0.013	5.1	<2	1.8	<0.1	840	<0.1	<2	<2	0.19	11	<5
	12-10-15	1.54	7.96	8.21	250	<1.0	21	18	<1.0	<2.0	<50	0.13	<1.0	<0.40	8.2	<50	<0.50	<2.0	0.13	4.4	<2.0	2.1	<0.10	850	<0.10	<2.0	<2.0	0.18	16	<5.0
	11-30-16	-0.517	7.82	8.07	41	<1.0	1.4	190	<1.0	<2.0	<50	0.15	<1.0	<0.40	<2.0	69	<0.50	430	<0.013	<2.0	<2.0	<1.0	<0.10	280	<0.10	<2.0	<2.0	0.31	<2.0	<5.0
	12-07-17	1.75	8.10	8.35	160	<1.0	7.1	41	<1.0	<2.0	<50	0.046	<1.0	<0.40	6.1	<50	<0.50	<2.0	<0.013	2.8	<2.0	<2.0	<0.10	790	<2.0	<2.0	1.2	10	<2.0	5.0
	12-05-18[FD]	0.564	10.50	10.7	520	<1.0	3.3	40	<1.0	<2.0	<50	0.026	1.6	<0.40	3.7	<50	<0.50	<2.0	<0.013	6.8	<2.0	1.4	<0.10	880	<0.10	<2.0	<2.0	0.30	8.8	<5.0
	12-05-18	1.94	8.85	9.09	530	<1.0	3.3	41	<1.0	<2.0	<50	0.025	1.7	<0.40	3.6	<50	<0.50	<2.0	<0.013	7.0	<2.0	1.4	<0.10	890	<0.10	<2.0	<2.0	0.30	8.5	<5.0
	11-28-19	1.83	8.96	9.21	410	<1.0	3.4	43	<1.0	<2.0	<50	<0.010	1.2	<0.40	3.9	<50	<0.50	<2.0	0.027	7.8	<2.0	1.6	<0.10	780	<0.10	<2.0	<2.0	0.65	9.3	<5.0
	11-24-20[FD]	1.61	8.08	8.33	230	<1.0	5.5	53	<1.0	<2.0	<50	0.013	1.3	<0.4	7.1	<50	<0.5	<2.0	<0.013	3.6	<2.0	3	<0.10	800	<0.10	<2.0	<2.0	1.70	13	<5.0
	11-24-20	1.61	8.11	8.36	230	<1.0	5.7	52	<1.0	<2.0	<50	0.072	1.5	<0.4	7.1	<50	<0.5	<2.0	<0.013	3.5	<2.0	3	<0.10	810	<0.10	<2.0	<2.0	1.80	13	<5.0
	12-02-21	1.92	8.54	8.79	360	<1.0	3	37	<0.10	<2.0	<50	<0.010	1.5	<0.40	3.6	<50	<0.50	<2.0	<0.013	6.9	<2.0	1.6	<0.10	610	<0.10	<2.0	<2.0	0.67	10	<5.0
	12-03-22	2.00	8.52	8.77	390	<1.0	3.9	47	<0.10	<2.0	<50	0.023	1.5	<0.40	4.1	<50	<0.50	<2.0	<0.013	6.8	<2.0	1.4	<0.10	720	<0.10	<2.0	<2.0	0.90	9.2	<5.0
	11-16-23	0.618	7.58	7.83	28	<1.0	4.3	74	<0.10	<2.0	<50	0.22	<1.0	<0.40	2.5	<50	<0.50	58	0.17	5.7	<2.0	1.3	<0.10	490	<0.10	<2.0	<2.0	5.2	6.8	8.3
	11-15-24	-0.150	7.44	7.69	7.6	<1.0	2.0	53	<0.10	<2.0	55	<0.010	1.1	<0.40	1.4	<50	<0.50	<2.0	<0.013	<2.0	<2.0	2.6	<0.10	270	<0.10	<2.0	<2.0	6.1	3.7	<5.0
	11-12-25	0.502	8.20	8.45	180	<1.0	3.3	30	<0.10	<2.0	<50	<0.010	1.8	<0.40	3.1	<50	<0.50	<2.0	-	<2.0	<2.0	2.1	<0.10	330	<0.10	<2.0	<2.0	1.8	11	<5.0
CODT-105-MW (2.88 m)	01-15-13	0.466	7.29	7.53	18	2.3	1.7	22	<0.5	<2	<100	0.058	<1	<1	8.5	<100	<1	17	<0.013	9.5	<3	26	<0.1	480	<0.8	<20	<3	2.1	4.9	46
	03-13-13	1.86	8.59	8.84	1100	1.8	17	5.7	<0.5	<2	<100	<0.017	<1	<1	11	<100	<1	<4	0.013	14	<3	37	<0.1	1700	<0.8	<20	<3	<0.15	30	<5
	07-16-13	0.654	7.99	8.24	798	1.5	3.3	8.6	<1	<2	<50	0.027	1.1	<0.4	8.7	<50	<0.5	10.6	NM	14.9	3.1	19.1	<0.1	729	<0.1	<2	<2	0.74	7.4	12.3
	10-23-13	1.15	7.70	7.95	670	1.6	6.2	13	<1	<2	<50	0.053	1.8	<0.4	9.5	<50	<0.5	8.0	NM	9.9	<2.0	29	<0.1	1000	<0.1	<2.0	<2.0	0.97	9.7	<5.0
	12-16-14	0.654	6.89	7.13	20	2.2	2.1	25	<1	<2	62	0.13	<1	<0.4	4.3	<50	<0.5	2.9	<0.013	5.4	<2	15	<0.1	380	<0.1	<2	<2	2.3	2.5	18
	12-10-15	0.577	7.82	8.07	430	1.7	3.1	11	<1.0	<2.0	<50	0.034	1.1	<0.40	6	<50	6.6	2.6	<0.013	5.8	<2.0	21	<0.10	880	<0.10	<2.0	<2.0	0.82	6.6	11
	11-23-16[FD]	0.533	7.09	7.34	19	2.6	2.1	28	<1.0	<2.0	70	0.044	<1.0	<0.40	10	<50	0.52	7.5	<0.013	7.5	<2.0	11	<0.10	480	<0.10	<2.0	<2.0	2.5	3.4	69
	11-23-16	0.563	7.1	7.35	20	2.5	2.2	28	<1.0	<2.0	70	0.047	<1.0	<0.40	10	<50	0.52	7.6	<0.013	7.5	<2.0	12	<0.10	480	<0.10	<2.0	<2.0	2.5	3.3	68
	12-07-17	0.109	7.92	8.17	170	<1.0	2.9	13	<1.0	<2.0	<50	0.041	2.7	0.41	10	<50	<0.50	<2.0	<0.013	7.9	<2.0	11	<0.10	840	<0.10	<2.0	<2.0	0.43	10	16
	12-05-18	0.914	6.71	6.96	15	2.2	2.4	34	<1.0	<2.0	75	0.074	<1.0	<0.40	6.6	<50	<0.50	<2.0	<0.013	5.6	<2.0	18	<0.10	400	<0.10	<2.0	<2.0	3.2	4.0	30
	12-04-19	0.888	6.69	6.94	15	2.2	2.3	33	<1.0	<2.0	73	0.041	<1.0	<0.40	6.3	<50	1.2	2.2	<0.013	5.0	<2.0	17	<0.10	440	<0.10	<2.0	<2.0	3.1	4.3	100
	11-24-20	0.41	7.98	8.23	190	1.1	3.5	10	<1.0	<2.0	<50	0.03	2.3	<0.40	7.2	<50	<0.5	6.9	<0.013	5.7	<2.0	7.2	<0.10	450	<0.10	<2.0	<2.0	0.34	13.0	6.7
	12-03-21	0.892	6.68	6.93	18	2.2	2.5	36	<0.10	<2.0	82	0.024	<1.0	<0.40	3.6	<50	<0.50	<2.0	<0.013[15]	7.3	<2.0	29	<0.10	420	<0.10	<2.0	<2.0	3.2	4.4	39
	11-30-22	0.878	6.81	7.05	26	2.2	2.5	31	<0.10	<2.0	70	0.056	1.5	<0.40	17	<50	0.54	<2.0	<0.013	9.4	2.5	25	<0.10	500	<0.10	<2.0	<2.0	2.6	5.1	39
	11-29-23	0.669	6.95	7.19	17	2.0	2.2	31	<0.10	<2.0	81	0.036	<1.0	<0.40	5.9	<50	<0.50	<2.0	<0.013	5.7	<2.0	15	<0.10	360	<0.10	<2.0	<2.0	2.5	3.5	24
	12-03-24	0.823	6.78	7.03	13	2.2	2.5	36	<0.10	<2.0	80	0.036	<1.0	<0.40	20	<50	<0.50	<2.0	<0.013	6.3	3.8	31	<0.10	410	<0.10	<2.0	<2.0	3.1	4.1	21
	11-17-25	0.794	6.87	7.12	13	2.1	2.8	37	<0.10	<2.0	66	0.047	1.3	<0.40	4.1	<50	<0.50	<2.0	-	6.5	<2.0	27	<0.10	450	<0.10	<2.0	<2.0	2.7	5.0	9.8
CODT-201-MWA (3.47 m)	03-13-13	0.067	7.18	7.43	11	<1	0.73	17	<0.5	<2	<100	0.078	<1	<1	8	<100	<1	14	0.017	<4	<3	1.5	<0.1	310	<0.8	<20	<3	0.43	<2	48
	07-16-13	0.053	7.14	7.39	268	<1	<1	23.5	<1	<2	52	0.052	<1	<0.4	13	<50	<0.5	11.5	NM	<2	<2	2	<0.1	276	<0.1	<2	<2	0.67	<2	55.8
	10-23-13	0.185	7.28	7.53	20	<1	<1	25	<1	<2	<50	0.083	<1	<0.4	20	<50	<0.5	4.0	NM	<2	<2	2.3	<0.1	210	<0.1	<2	<2	0.49	<2	58
	12-15-14	0.223	7.1	7.35	17	<1	<1	27	<1	<2	<50	0.27	<1	<0.4	2.6	<50	<0.5	2.6	0.032	2.2	<2	4.3	<0.1	260	<0.1	<2	<2	0.71	<2	11
	12-9-15	0.353	6.94	7.18	14	<1.0	<1.0	23	<1.0	<2.0	<50	0.053	<1.0	<0.40	4	<50	<0.50	12	<0.013	<2.0	<2.0	5.2	<0.10	350	<0.10	<2.0	<2.0	0.72	<2.0	26
	11-28-16	0.339	7.02	7.27	8.2	<1.0	<1.0	24	<1.0	<2.0	<50	0.026	<1.0	<0.40	9.6	<50	<0.50	<2.0	<0.013	2.1	<2.0	4	<0.10	280	<0.10	<2.0	<2.0	0.6	<2.0	50
	12-05-17	0.343	7.09	7.34	15	<1.0	<1.0	20	<1.0	<2.0	56	0.036	<1.0	<0.40	16	<50	<0.50	<2.0	0.047	<2.0	<2.0	3.9	<0.10	290	<0.10	<2.0	0.68	<2.0	<2.0	48
	12-05-18	0.499	7.12	7.37	8.8	<1.0	<1.0	19	<1.0	<2.0	<50	0.052	<1.0	<0.40	3.1	<50	<0.50	<2.0	<0.013	2.3	<2.0	4.2	<0.10	250	<0.10	<2.0	<2.0	0.67	<2.0	34
	11-28-19	0.610	7.03	7.28	12	<1.0	<1.0	21	<1.0	<2.0	<50	0.053	<1.0	<0.40	7.7	<50	3.2	3.7	<0.013	<2.0	<2.0	4.7	<0.10	290	<0.10	<2.0	<2.0	0.68	<2.0	18
	11-23-20	0.294	7.21	7.46	15	<1.0	<1.0	15	<1.0	<2.0	<50	0.24	<1.0	<0.40	5.9	<50	<0.50	5.5	0.045	<2.0	<2.0	0.9	<0.10	250	<0.10	<2.0	<2.0	0.4	<2.0	32
	12-02-21	0.405	7.11	7.36	11	<1.0	<1.0	20	<0.10	<2.0	<50	0.03	<1.0	<0.40	6.9	<50	<0.50	<2.0	< 0.013[13]	2.1	4.6	4.5	<0.10	260	<0.10	<2.0	<2.0	0.66	<2.0	30
	12-05-22[FD]	0.669	6.99	7.24	5.4	<1.0	<1.0	19	<0.10	<2.0	<50	0.031	<1.0	<0.40	0.95	<50	<0.50	<2.0	<0.013	<2.0	<2.0	5.4	<0.10	310	<0.10	<2.0	<2.0	0.60	<2.0	<5.0
	12-05-22	0.451	6.99	7.24	6.4	<1.0	<1.0	19	<0.10	<2.0	<50	0.022	<1.0	<0.40	0.91	<50	<0.50	<2.0	<0.013	<2.0	<2.0	5.5	<0.10	310	<0.10	<2.0	<2.0	0.59	<2.0	<5.0
	11-16-23	-0.0740	7.15	7.40	<5.0	<1.0	<1.0	17	<0.10	<2.0	59	<0.010	<1.0	<0.40	0.64	<50	<0.50	<2.0	<0.013	<2.0	<2.0	1.9	<0.10	270	<0.10	<2.0	<2.0	0.44	<2.0	<5.0
	11-26-24	0.612	7.18	7.42	83	<1.0	<1.0	18	<0.10	<2.0	<50	0.022	<1.0	<0.40	1.6	130	2.3	38	<0.013	<2.0	<2.0	4.4	<0.10	260	<0.10	<2.0	<2.0	0.58	<2.0	<5.0
	11-12-25	0.526	7.15	7.40	<5.0	<1.0	<1.0	36	<0.10	<2.0	<50	0.021	<1.0	<0.40	1.2	<50	<0.50	<2.0	-	<2.0	<2.0	3.0	<0.10	320	<0.10	<2.0	<2.0	0.51	<2.0	<5.0
CODT-201-MWC (3.35 m)	03-13-13	0.278	7.47	7.72	20	<1	4.1	340	<0.5	<2	<100	0.2	<1	<1	<2	<100	<1	780	<0.013	<4	<3	<1	<0.1	530	<0.8	<20	<3	<0.15	<2	7.5
	07-16-13	0.173	7.49	7.74	16.9	<1	4	331	<1	<2	73	<0.017	2.5	<0.4	<2	<50	<0.5	766	NM	<2	<2	<1	<0.1	504	<0.1	<2	<2	<0.1	<2	8.8
	10-23-13[FD]	0.207	7.51	7.76	9.7	<1	3.7	340	<1	<2	77	<0.01	<1	<0.4	<2	<50	<0.5	760	NM	<2	<2	1.6	<0.1	500	<0.1	<2	<2	<0.1	<2	<5
	10-23-13	0.152	7.52	7.77	10	<1	3.3	330	<1	<2	77	<0.01	<1	<0.4	<2	<50	<0.5	760	NM	<2	<2	2.7	<0.1	500	<0.1	<2	<2	<0.1	<2	6.1
	12-15-14	0.077	7.54	7.79	13	<1	4.1	340	<1	<2	77	0.28	<1	<0.4	<2	<50	<0.5	690	<0.013	<2	<2	3.2	<0.1	520	<0.1	<2	<2	<0.1	<2	6
	12-9-15	0.307	7.43	7.68	6.3	<1.0	4.2	420	<1.0	<2.0	73	<0.010	<1.0	<0.40	<2.0	<50	<0.50	930	<0.013	<2.0	<2.0	<1.0	<0.10	540	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-28-16	0.248	7.56	7.81	7.6	<1.0	3.7	380	<1.0	<2.0	77	<0.010	<1.0	<0.40	<2.0	<50	<0.50	670	<0.013	<2.0	<2.0	<1.0	<0.10	520	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-05-17	0.050	7.51	7.76	<5.0	<1.0	3.5	420	<1.0	<2.0	80	<0.010	<1.0	<0.40	<2.0	<50	<0.50	810	<0.013	<2.0	<2.0	8.5	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-05-18	0.239	7.48	7.73	7.0	<1.0	3.6	460	<1.0	<2.0	85	0.045	<1.0	<0.40	<2.0	<50	<0.50	760	<0.013	<2.0	<2.0	<1.0	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-28-19	0.348	7.53	7.78	5.4	<1.0	3.4	510	<1.0	<2.0	87	<0.010	<1.0	<0.40	<0.50	<50	<0.50	740	<0.013	<2.0	<2.0	1.0	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-02-20	0.076	7.45	7.7	5.4	<1.0	4.5	570	<1.0	<2.0	76	<0.010	<1.0	<0.40	<0.50	55	<0.50	1100	<0.013	<2.0	<2.0	3.3	<0.10	600	<0.1	<2.0	<2.0	<0.1.0	<2.0	<5.0
	12-13-21	0.167	7.56	7.81	5.5	<1.0	4.7	470	<0.10	<2.0	74	<0.010	<1.0	<0.40	<0.50	<50	<0.50	690	< 0.013[13]	<2.0	<2.0	2.6	<0.10	540	<0.10	<2.0	<2.0	<0.10	<2.0	7.5
	12-15-22	0.0490	7.52	7.77	6.6	<1.0	3.7	530	<0.10	<2.0	71	<0.010	<1.0	<0.40	<0.50	<50	<0.50	730	<0.013	<2.0	<2.0	0.66	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-27-23	0.206	7.59	7.84	<5.0	<1.0	3.9	530	<0.10	<2.0	79	<0.010	<1.0	<0.40	<0.50	<50	<0.50	740	<0.013	<2.0	<2.0	<0.50	<0.10	540	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-26-24	0.566	7.55	7.80	5.1	<1.0	2.6	590	<0.10	<2.0	77	<0.010	<1.0	<0.40	<0.50	<50	<0.50	760	<0.013	<2.0	<2.0	2.4	<0.10	580	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-12-25	0.377	7.58	7.83	<5.0	<1.0	3.9	570	<0.10	<2.0	76	<0.010	<1.0	<0.40	<0.50	<50	<0.50	700	-	<2.0	<2.0	3.0	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11/12/25[FD]	0.195	7.58	7.83	<5.0	<1.0	3.9	570	<0.10	<2.0	83	<0.010	<1.0	<0.40	<0.50	<50	<0.50	700	-	<2.0	<2.0	2.5	<0.10	570	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CODT-203-MW (2.18 m)	03-13-13	120000	6800	130000	13000	180	200	220	14	<0.01	<100	<0.05	<0.01	<0.05	0.66	14	2.3	56	1300	7.2	390	180	<1	824	13.9	2.51	0.065
	07-16-13[FD]	130000	6430	143000	13000	220	180	220	15	<0.01	<100	<0.05	<0.01	<0.05	0.69	19	2.7	62	1500	7.33	410	220	<1	848	14.2	0.11	0.294
	07-16-13	132000	6560	143000	13000	220	170	210	15	<0.01	<100	<0.05	<0.01	<0.05	0.68	15	2.6	70	1500	7.35	410	220	<1	832	13.8	2.14	0.318
	10-23-13	47000	5100	140000	15000	220	240	58	19	<0.01	<100	<0.05	<0.01	<0.05	0.47	21	4.1	98	980	7.22	420	220	<1	670	10.9	0.87	0.217
	12-12-14	24000	2500	110000	6000	120	190	27	23	<10	<100	0.42	<0.01	0.42	0.1	6.5	4.4	14	660	7.19	290	120	<1	450	7.05	0.57	-0.166
	12-8-15[FD]	36000	4100	130000	8600	180	210	34	18	0.016	<100	<0.050	0.041	0.083	0.29	6.7	3.6	26	820	7.51	350	180	<1.0	550	8.87	0.8	0.388
	12-8-15	36000	4100	130000	8600	180	210	35	18	0.014	<100	<0.050	0.038	0.084	0.28	5.9	3.6	23	830	7.56	350	180	<1.0	550	8.94	1.42	0.434
	11-23-16	59000	3800	110000	6000	160	170	74	22	0.024	<100	0.29	0.02	0.31	0.057	7.5	3.6	65	800	7.18	300	160	<1.0	540	8.82	1.26	-0.059
	12-07-17	160000	5500	93000	5200	150	160	200	14	<0.01	<100	<0.050	<0.010	<0.050	0.32	<5.0	3.6	3.6	1300	7.53	250	150	<1.0	730	11.9	1.70	0.150
	12-10-18	89000	3600	59000	2700	110	110	120	14	<0.010	<100	<0.050	<0.010	<0.050	0.17	<5.0	2.9	0.87	810	7.52	160	110	<1.0	460	7.72	3.76	-0.138
	11-28-19	55000	2500	80000	3500	140	130	43	20	0.011	<100	0.16	<0.010	0.16	0.062	5.8	4.1	1.9	650	7.81	210	140	<1.0	430	6.84	0.510	0.405
	11-24-20	91000	3200	79000	3700	180	93	110	17	<0.010	<100	<0.05	<0.01	<0.05	0.11	6.9	2.9	12	870	7.62	210	180	<1	510	8.59	1.360	0.293
	12-02-21	29000	2000	83000	3600	110	120	17	24	0.01	<100	0.42	<0.010	0.42	0.092	5.1	3.5	3	560	7.43	220	110	<1.0	340	5.19	5.030	-0.030
	11-30-22	32000	2400	130000	5800	110	200	42	25	0.010	<100	1.4	<0.010	1.4	<0.050	<5.0	5.0	1.2	810	7.70	350	110	<1.0	510	7.75	3.97	0.383
	11-30-23	23000	1900	94000	4100	130	110	19	24	0.012	<100	0.46	<0.010	0.46	<0.050	6.6	3.4	140	630	7.52	250	130	<1.0	360	5.44	5.56	0.165
	11/13/24	45000	2400	79000	3400	140	79	49	18	<0.010	<100	<0.050	<0.010	<0.050	0.057	<5.0	2.9	50	620	7.83	210	130	<1.0	360	5.74	4.25	0.424
	11/12/25	21000	2100	130000	6000	140	150	24	27	0.027	<100	12	<0.010	12	<0.050	6.9	4.5	1.0	800	7.77	350	140	<1.0	500	7.46	2.86	0.559
CODT-205-MWA (1.57 m)	03-13-13[FD]	41000	5800	82000	11000	280	13	23	15	<0.01	<100	<0.05	<0.01	<0.05	0.26	9.1	7.2	130	600	7.6	250	280	1.1	363	6.59	2.66	0.527
	03-13-13	42000	5800	83000	11000	290	13	23	16	<0.01	<100	<0.05	<0.01	<0.05	0.25	9.7	6.7	130	610	7.5	250	290	<1	367	6.69	2.26	0.438
	07-16-13	40800	5720	72400	10700	300	11	22	16	<0.01	<100	<0.05	<0.01	<0.05	0.16	8.3	5.6	33	610	7.64	220	300	1.2	366	6.94	3.04	0.543
	10-23-13	38000	5900	80000	11000	310	9.6	22	18	<0.01	<100	<0.05	<0.01	<0.05	0.17	12	5.5	31	610	7.64	250	310	1.3	370	6.98	1.01	0.592
	12-15-14	35000	5400	84000	12000	310	24	18	17	<10	<100	<0.05	<0.01	<0.05	0.24	7.7	7	66	620	7.52	260	300	<1	380	7.12	1.5	0.482
	12-8-15	27000	4800	77000	11000	270	18	15	16	0.013	<100	0.052	<0.010	0.052	0.28	12	9.2	35	530	7.84	240	270	1.7	330	6.14	0.08	0.721
	11-23-16	33000	4800	68000	9500	270	18	14	16	0.016	<100	0.05	0.015	0.065	0.19	9	6.8	24	510	7.7	210	270	1.3	330	6.13	2.77	0.528
	12-05-17	30000	4800	70000	9600	260	24	13	16	<0.010	<100	<0.050	<0.010	<0.050	0.2	11	8	24	530	7.95	210	260	2.1	330	6.01	1.43	0.775
	11-28-18	15000	4200	78000	7400	220	33	14	15	<0.010	<100	<0.050	<0.010	<0.050	0.74	13	9.7	140	510	7.47	220	220	<1.0	310	5.47	2.76	0.284
	12-04-19	20000	3700	67000	8500	230	20	16	14	<0.010	<100	0.12	<0.010	0.12	0.16	8.7	7.4	16	480	7.96	200	220	1.9	290	5.40	3.25	0.721
	11-25-20	20000	4000	83000	9500	220	69	12	16	<0.010	<100	<0.05	0.02	<0.05	0.72	11	8.0	150	550	7.44	250	220	<1	360	6.20	1.2	0.266
	12-02-21	18000	3900	80000	8700	200	48	12	15	<0.010	<100	<0.050	<0.010	<0.050	0.47	11	8.0	110	520	7.52	230	200	<1.0	320	5.35	4.63	0.299
	11-30-22	19000	3800	73000	8600	200	37	12	15	<0.010	<100	0.089	<0.010	0.089	0.32	13	9.7	55	500	7.88	220	200	1.4	290	5.17	2.08	0.631
	11-30-23	14000	3400	69000	7100	170	24	12	14	<0.010	<100	0.057	<0.010	0.057	0.64	16	10 9	420	480	7.70	200	170	<1.0	250	4.26	7.59	0.360
	12-03-24	13000	3600	83000	7000	160	85	13	15	<0.010	<100	0.083	<0.010	0.083	0.75	12	10	110	550	7.74	240	160	<1.0	330	5.43	4.06	0.442
	11-12-25	21000	4200	98000	10000	220	78	12	16	<0.010	<100	<0.050	<0.010	<0.050	0.55	16	8.1	64	630	7.92	290	210	1.7	380	6.28	6.41	0.798
CONCW-101-MWB (3.29 m)	03-15-13	86000	5700	90000	2000	24	130	150	14	<0.01	<100	0.25	0.024	0.27	0.24	5.9	2.1	0.38	770	9.1	230	21	2.5	489	7.31	7.93	0.918
	07-17-13	66100	5650	50700	4220	42	120	110	18	0.013	<100	0.24	0.078	0.32	0.26	8.6	2.4	0.36	670	9.18	140	36	5.1	398	6.37	3.66	0.993
	10-24-13	63000	6300	70000	2200	52	170	80	20	0.012	<100	0.095	0.035	0.13	0.43	9.1	3.1	1.4	700	9.65	180	35	15	440	6.78	1.42	1.59
	12-12-14	59000	5500	85000	1800	28	120	85	21	<10	<100	0.31	0.026	0.33	0.35	5.2	2.7	1.8	580	9.55	220	20	6.6	400	5.52	12.9	1.33
	12-8-15	56000	6500	96000	5900	39	130	82	17	0.015	<100	0.21	0.017	0.22	0.41	5.1	3.4	11	620	8.02	260	39	<1.0	420	5.93	14.2	0.139
	11-23-16	51000	5900	95000	<100	39	130	88	22	0.022	<100	<0.050	0.015	<0.050	1	6.3	3.1	18	790	11.1	240	<1.0	<1.0	420	5.96	9.35	NC
	12-11-17	49000	5200	76000	5700	100	120	56	25	0.036	<100	0.35	0.015	0.37	0.28	9.1	3.5	0.81	610	8.88	210	97	6.8	400	6.23	2.12	1.29
	11-28-18[FD]	52000	5800	67000	2900	60	110	91	21	0.012	<100	0.11	0.052	0.16	0.41	7.5	3.4	0.29	640	8.62	180	57	2.3	390	6.17	1.31	0.762
	11-28-18	54000	5900	68000	3000	54	110	94	21	<0.010	<100	0.12	0.055	0.17	0.44	6.7	3.4	0.25	630	8.6	180	51	1.9	390	6.08	0.57	0.698
	12-04-19	50000	5300	71000	5600	110	100	69	23	0.024	<100	0.73	0.042	0.77	0.23	6.6	3.1	1.1	670	8.52	200	110	3.4	400	6.44	1.18	0.962
	11-24-20	72000	6400	96000	920	120	120	100	17	<0.010	<100	0.17	<0.01	0.17	0.79	8.8	2.7	0.91	880	10.9[#8]	240	10	74	490	7.75	2.94	2.41
	12-03-21	35000	4900	68000	6500	89	100	37	24	0.016	<100	0.73	0.077	0.8	0.51	7.4	3.1	0.48	510	8.59	200	86	3.2	330	5.01	5.29	0.926
	11-30-22	42000	5400	74000	5500	70	130	50	23	0.011	<100	0.74	0.099	0.84	0.40	7.7	4.3	0.81	570	8.38	210	69	1.5	380	5.58	4.86	0.645
	11/30/23[FD]	32000	4800	72000	6700	110	100	36	20 [12]	0.044	<100	0.64	<0.010	0.64	0.14	8.4	3.5	1.2	620	8.36	210	110	2.4	350	5.45	1.89	0.829
	11-30-23	32000	4900	72000	6700	120	100	36	20	0.043	<100	0.60	0.012	0.62	0.15	16	3.5	0.90	610	8.39	210	120	2.7	350	5.57	0.800	0.877
	12-03-24	34000	5000	75000	7500	120	100	38	20	0.051	<100	0.48	<0.010	0.48	0.20	5.8	3.4	1.4	610	8.05	220	120	1.3	360	5.76	1.96	0.576
	11-12-25	18000	2900	71000	860	43	100	22	23	<0.010	<100	0.52	0.031	0.55	<0.050	9.5	3.4	0.58	430	10[8]	180	19	18	270	3.69	9.56	1.73
	11/12/25[FD]	18000	2800	68000	860	42	100	22	23	<0.010	<100	0.54	0.039	0.58	0.054	9.0	3.3	0.47	420	10[8]	170	19	18	270	3.67	8.36	1.71

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
CODT-203-MW (2.18 m)	03-13-13	-0.182	7.14	7.38	13	<1	20	250	<0.5	<2	<100	0.028	<1	1.7	<2	5200	<1	7000	<0.013	<4	<3	<1	<0.1	850	<0.8	<20	<3	0.3	<2	41
	07-16-13[FD]	0.048	7.04	7.28	12.4	<1	16.9	230	<1	<2	<50	<0.017	<1	1.44	2.3	5000	<0.5	7650	NM	3.2	2.3	<1	<0.1	811	<0.1	<2	<2	0.91	<2	**5360**
	07-16-13	0.071	7.03	7.28	31.6	<1	17	229	<1	<2	<50	0.026	<1	1.54	2.3	5010	<0.5	7700	NM	3.5	<2	<1	<0.1	809	<0.1	<2	<2	0.93	<2	**5210**
	10-23-13	-0.0300	7.00	7.25	8.6	<1	30	150	<1	<2	52	0.013	<1	1.4	<2	10000	<0.50	5700	NM	3.2	<2	<1	<0.1	580	<0.1	<2	<2	0.76	<2	75
	12-12-14	-0.414	7.35	7.6	15	<1	<1	58	<1	<2	57	0.34	<1	<0.4	3.3	90	<0.5	130	<0.013	<2	<2	1	<0.1	260	0.19	<2	<2	0.72	<2	25
	12-8-15[FD]	0.14	7.13	7.37	7.3	<1.0	2.1	85	<1.0	<2.0	59	0.088	<1.0	0.48	4	720	<0.50	1900	0.057	2.6	<2.0	<1.0	<0.10	390	0.17	<2.0	<2.0	1.5	<2.0	46
	12-8-15	0.186	7.12	7.37	6.2	<1.0	2.1	85	<1.0	<2.0	59	0.08	<1.0	0.47	4.1	720	<0.50	1800	<0.013	2.7	<2.0	<1.0	<0.10	390	0.17	<2.0	<2.0	1.5	<2.0	46
	11-23-16	-0.306	7.24	7.49	18	<1.0	1.1	67	<1.0	<2.0	56	0.1	<1.0	<0.40	<2.0	54	<0.50	390	<0.013	<2.0	<2.0	<1.0	<0.10	340	0.15	<2.0	<2.0	1.1	<2.0	60
	12-07-17	-0.096	7.38	7.62	<5.0	<1.0	1.7	130	<1.0	<2.0	<50	0.10	<1.0	0.58	<2.0	270	<0.50	3300	<0.013	4.2	<2.0	<1.0	<0.10	510	0.12	<2.0	<2.0	0.94	<2.0	58
	12-10-18	-0.387	7.66	7.91	11	<1.0	1.7	61	<1.0	<2.0	<50	0.094	<1.0	<0.40	<2.0	77	<0.50	1600	<0.013	5.5	<2.0	<1.0	<0.10	300	0.16	<2.0	<2.0	0.39	<2.0	21
	11-28-19	0.157	7.40	7.65	11	<1.0	1.0	52	<1.0	<2.0	<50	0.077	<1.0	<0.40	5.6	<50	5.0	270	<0.013	2.1	<2.0	0.77	<0.10	330	0.29	<2.0	<2.0	1.1	<2.0	16
	11-24-20	0.045	7.32	7.57	6.4	<1.0	4.2	60	<1.0	<2.0	<50	0.085	<1.0	<0.4	0.57	1100	<0.5	1300	<0.013	3.1	<2.0	<0.5	<0.1	340	<0.1	<2.0	<2.0	1.1	<2.0	35
	12-02-21	-0.279	7.46	7.71	9.2	<1.0	<1.0	53	<0.10	<2.0	<50	0.041	<1.0	<0.40	8.9	<50	<0.50	3.2	< 0.013[13]	<2.0	<2.0	2.3	<0.10	340	0.21	<2.0	<2.0	0.95	<2.0	65
	11-30-22	0.135	7.32	7.56	7.5	<1.0	<1.0	89	<0.10	<2.0	58	0.092	<1.0	<0.40	10	<50	<0.50	50	<0.013	2.1	3.5	3.1	<0.10	540	0.23	<2.0	<2.0	1.9	<2.0	45
	11-30-23	-0.0840	7.35	7.60	<5.0	<1.0	<1.0	61	<0.10	<2.0	51	0.028	<1.0	<0.40	1.4	<50	<0.50	3.0	<0.013	<2.0	<2.0	1.8	<0.10	400	0.21	<2.0	<2.0	1.1	<2.0	<5.0
	11/13/24	0.175	7.41	7.66	10	<1.0	2.1	51	<0.10	<2.0	<50	<0.010	<1.0	<0.40	0.70	200	<0.50	360	<0.013	2.3	5.6	<0.50	<0.10	330	<0.10	<2.0	<2.0	0.92	<2.0	21
	11/12/25	0.311	7.21	7.46	5.3	<1.0	<1.0	88	<0.10	<2.0	64	0.048	<1.0	<0.40	1.6	<50	<0.50	<2.0	-	<2.0	<2.0	6.8	<0.10	550	0.17	<2.0	<2.0	1.6	<2.0	5.8
CODT-205-MWA (1.57 m)	03-13-13[FD]	0.278	7.07	7.32	5.6	<1	1.3	92	<0.5	<2	<100	0.044	<1	<1	<2	490	<1	1100	<0.013	5.4	<3	<1	<0.1	3700	<0.8	<20	<3	1.1	<2	31
	03-13-13	0.189	7.06	7.31	5.9	<1	1.3	93	<0.5	<2	<100	0.062	<1	<1	<2	460	<1	1200	<0.013	5.3	<3	<1	<0.1	3700	<0.8	<20	<3	1.1	<2	32
	07-16-13	0.294	7.1	7.35	10.6	<1	5	85.8	<1	<2	<50	0.025	<1	<0.4	5.3	2820	<0.5	1120	NM	2.2	<2	<1	<0.1	3380	<0.1	<2	<2	0.95	<2	24.5
	10-23-13	0.343	7.05	7.30	13	<1	6.8	120	<1	<2	58	0.012	<1	<0.40	<2	3200	<0.50	1200	NM	3.3	<2	<1	<0.1	3600	<0.1	<2	<2	1.10	<2	23
	12-15-14	0.234	7.03	7.28	29	<1	4.1	140	<1	<2	55	0.25	<1	<0.4	<2	2100	<0.5	1300	<0.013	5.7	<2	<1	<0.1	3900	<0.1	<2	<2	1.2	<2	16
	12-8-15	0.472	7.12	7.37	10	<1.0	4.6	320	<1.0	<2.0	<50	0.019	<1.0	<0.40	<2.0	2200	<0.50	860	<0.013	6.9	<2.0	<1.0	<0.10	3100	<0.10	<2.0	<2.0	0.79	<2.0	19
	11-23-16	0.279	7.17	7.42	14	<1.0	8	280	<1.0	<2.0	54	0.011	<1.0	<0.40	<2.0	2000	<0.50	920	<0.013	3.1	<2.0	<1.0	<0.10	3300	<0.10	<2.0	<2.0	0.79	<2.0	35
	12-05-17	0.526	7.17	7.42	46	<1.0	8.1	250	<1.0	<2.0	56	0.027	<1.0	<0.40	<2.0	3000	<0.50	980	<0.013	3.5	<2.0	<1.0	<0.10	3400	<0.10	<2.0	<2.0	0.73	<2.0	21
	11-28-18	0.0350	7.19	7.44	7.6	<1.0	11	260	<1.0	<2.0	<50	0.028	<1.0	<0.40	<2.0	14000	<0.50	1400	<0.013	2.6	<2.0	<1.0	<0.10	1800	<0.10	<2.0	<2.0	0.35	<2.0	36
	12-04-19	0.472	7.24	7.49	19	<1.0	3.9	190	<1.0	<2.0	<50	0.017	<1.0	<0.40	0.57	1200	<0.50	650	<0.013	5.1	<2.0	<0.50	<0.10	2600	<0.10	<2.0	<2.0	0.56	<2.0	29
	11-25-20	0.017	7.17	7.42	16	<1.0	12	250	<1.0	<2.0	<50	0.055	<1.0	<0.40	0.52	11000	<0.5	1400	<0.013	2.5	<2.0	<0.50	<0.10	2700	<0.10	<2.0	<2.0	0.45	<2.0	33
	12-02-21	0.050	7.22	7.47	13	<1.0	8.3	210	<0.10	<2.0	54	<0.010	<1.0	<0.40	<0.50	7100	<0.50	1200	< 0.013[13]	3	2.4	<0.50	<0.10	2300	<0.10	<2.0	<2.0	0.37	<2.0	89
	11-30-22	0.382	7.25	7.50	18	<1.0	6.3	180	<0.10	<2.0	<50	0.015	<1.0	<0.40	1.1	2900	<0.50	1000	<0.013	3.1	3.4	<0.50	<0.10	2500	<0.10	<2.0	<2.0	0.38	<2.0	48
	11-30-23	0.110	7.34	7.59	6.3	<1.0	9.7	170	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	5600	<0.50	860	<0.013	2.8	<2.0	<0.50	<0.10	1700	<0.10	<2.0	<2.0	0.26	<2.0	57
	12-03-24	0.193	7.30	7.54	6.1	<1.0	10	200	<0.10	<2.0	<50	0.028	<1.0	<0.40	<0.50	12000	<0.50	1200	<0.013	<2.0	<2.0	<0.50	<0.10	1800	<0.10	<2.0	<2.0	0.26	<2.0	<5.0
	11-12-25	0.549	7.12	7.37	<5.0	<1.0	11	240	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	9400	<0.50	1400	-	2.7	<2.0	<0.50	<0.10	2900	<0.10	<2.0	<2.0	0.37	<2.0	<5.0
CONCW-101-MWB (3.29 m)	03-15-13	0.67	8.18	8.43	43	<1	5.1	56	<0.5	<2	<100	0.041	1.1	<1	<2	<100	<1	19	<0.013	6.4	<3	2.3	<0.1	700	<0.8	<20	<3	0.79	3.1	6.6
	07-17-13	0.745	8.19	8.44	23.6	<1	8	38.4	<1	<2	<50	<0.017	<1	<0.4	3.2	<50	<0.5	9.8	NM	9.3	<2	<1	<0.1	438	<0.1	<2	<2	0.91	4.2	7.1
	10-24-13	1.34	8.06	8.31	38	<1.0	7.8	45	<1.0	<2.0	<50	<0.01	<1.0	<0.4	<2.0	<50	<0.5	6.6	NM	9.5	<2	1.1	<0.1	520	<0.1	<2.0	<2.0	0.40	4.2	<5.0
	12-12-14	1.08	8.22	8.47	82	<1	8.2	46	<1	<2	<50	0.27	<1	<0.4	<2	<50	<0.5	7.7	<0.013	7.2	<2	3.1	<0.1	540	<0.1	<2	<2	0.68	2.7	<5
	12-8-15	-0.109	7.88	8.13	63	<1.0	6.6	66	<1.0	<2.0	53	0.066	<1.0	<0.40	<2.0	<50	<0.50	250	<0.013	6.2	<2.0	2.8	<0.10	600	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
	11-23-16	NC	NC	NC	170	<1.0	8.9	45	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	<50	<0.50	<2.0	0.013	5	<2.0	3.9	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-11-17	1.05	7.58	7.83	39	<1.0	8.5	43	<1.0	<2.0	54	0.087	<1.0	<0.40	<2.0	<50	<0.50	310	<0.013	7.5	<2.0	1.7	<0.10	420	<0.10	<2.0	<2.0	1.6	5.7	<5.0
	11-28-18[FD]	0.514	7.86	8.11	48	<1.0	10	35	<1.0	<2.0	51	0.054	<1.0	<0.40	<2.0	<50	<0.50	30	<0.013	10	<2.0	<1.0	<0.10	460	<0.10	<2.0	<2.0	1.4	4.3	<5.0
	11-28-18	0.45	7.90	8.15	45	<1.0	11	36	<1.0	<2.0	55	0.028	<1.0	<0.40	<2.0	<50	<0.50	31	<0.013	11	<2.0	<1.0	<0.10	460	<0.10	<2.0	<2.0	1.5	4.7	<5.0
	12-04-19	0.713	7.55	7.80	32	<1.0	10	36	<1.0	<2.0	55	<0.010	1.0	<0.40	1.3	<50	<0.50	27	<0.013	7.4	<2.0	1.6	<0.10	440	<0.10	<2.0	<2.0	1.6	7.8	<5.0
	11-24-20	2.160	8.48	8.72	120	<1.0	7.1	71	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.5	<50	<0.50	13	<0.013	3.5	<2.0	10	<0.10	580	<0.10	<2.0	<2.0	0.22	2.2	<5.0
	12-03-21	0.677	7.66	7.91	72	<1.0	10	31	<0.10	<2.0	62	<0.010	1.1	<0.40	0.98	<50	<0.50	12	<0.013	8.1	<2.0	2.6	<0.10	390	<0.10	<2.0	<2.0	1.7	7.3	<5.0
	11-30-22	0.397	7.73	7.98	75	<1.0	9.3	41	<0.10	<2.0	55	0.018	<1.0	<0.40	0.56	<50	<0.50	170	<0.013	7.8	<2.0	2.8	<0.10	440	<0.10	<2.0	<2.0	1.3	5.3	<5.0
	11/30/23[FD]	0.580	7.53	7.78	32	<1.0	7.7	34	<0.10	<2.0	61	<0.010	<1.0	<0.40	1.3	<50	<0.50	120	<0.013	7.2	<2.0	1.7	<0.10	420	<0.10	<2.0	<2.0	1.6	6.2	<5.0
	11-30-23	0.628	7.51	7.76	34	<1.0	7.9	34	<0.10	<2.0	62	<0.010	<1.0	<0.40	1.2	<50	<0.50	120	<0.013	7.0	<2.0	1.7	<0.10	430	<0.10	<2.0	<2.0	1.6	6.1	<5.0
	12-03-24	0.328	7.47	7.72	27	<1.0	7.8	41	<0.10	<2.0	69	0.011	<1.0	<0.40	1.5	<50	<0.50	240	<0.013	7.1	<2.0	1.8	<0.10	410	<0.10	<2.0	<2.0	1.7	4.1	<5.0
	11-12-25	1.48	8.28	8.52	390	<1.0	3.3	30	<0.10	<2.0	<50	<0.010	1.1	<0.40	3.0	<50	<0.50	<2.0	-	4.0	<2.0	2.0	<0.10	410	<0.10	<2.0	<2.0	0.26	16	<5.0
	11/12/25[FD]	1.46	8.31	8.56	400	<1.0	3.3	31	<0.10	<2.0	<50	<0.010	1.3	<0.40	2.9	<50	<0.50	<2.0	-	4.0	<2.0	2.0	<0.10	420	<0.10	<2.0	<2.0	0.26	16	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind. (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONPL-202-MWA (4.73 m)	12-15-14	22000	1900	170000	28000	410	170	22	12	<10	<100	<0.05	<0.01	<0.05	0.081	<5	1.7	14	1000	7.34	550	410	<1	680	12.4	1.27	0.693
	12-9-15	17000	1600	160000	25000	390	170	17	11	0.013	<100	<0.050	<0.010	<0.050	<0.050	<5.0	NM	2.2	950	7.7	510	390	1.9	650	11.9	3.92	1.01
	11-23-16	16000	1600	150000	23000	350	150	14	11	0.017	<100	<0.050	0.014	0.053	0.074	<5.0	2.8	3.3	800	7.41	460	350	<1.0	570	10.5	2.8	0.634
	12-21-17	13000	1500	140000	20000	320	130	13	11	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	<5.0	18	810	7.55	420	320	1.1	520	9.53	2.58	0.715
	11-28-18	12000	1400	120000	19000	300	110	12	11	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.5	18	770	7.66	390	300	1.3	480	8.79	2.99	0.775
	11-29-19	11000	1300	120000	17000	270	110	10	10	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.2	8.1	720	7.63	370	270	1.1	440	7.94	0.830	0.674
	11-27-20	12000	1200	120000	19000	280	92	11	11	<0.011	<100	<0.05	<0.01	<0.05	0.06	<5	<59	26	710	7.67	370	280	1.2	430	7.82	0.32	0.731
	12-01-21	9600	1200	110000	16000	250	97	9.2	9.5	<0.010	<100	0.053	<0.010	0.053	<0.050	<5.0	2.4	23	640	7.67	340	250	1.1	400	7.29	0.76	0.657
	11-29-22	10000	1200	100000	16000	240	74	8.3	10	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	3.1	19	620	8.01	320	230	2.3	360	6.49	2.84	0.952
	11/16/23[FD]	10000	1200	100000	16000	210	84	8.3	9.0	0.070	<100	<0.050	<0.010	<0.050	<0.050	<5.0	8.7	15	650	7.62	330	210	<1.0	360	6.17	6.02	0.520
	11-16-23	9800	1200	110000	15000	200	84	8.8	9.0	<0.010	<100	0.11	<0.010	0.11	<0.050	<5.0	9.7	12	650	7.59	330	200	<1.0	360	5.98	8.70	0.485
	11-15-24	10000	1200	100000	16000	210	89	10	10	<0.010	<100	<0.050	<0.010	<0.050	0.11	<5.0	1.6	11	650	7.90	320	210	1.5	360	6.28	3.83	0.775
	11-12-25	9800	1200	96000	15000	210	84	7.9	8.9	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.5	10	620	7.95	300	210	1.8	350	6.23	2.27	0.824
	11/12/25[FD]	11000	1200	100000	16000	220	85	8.1	9.8	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.8	8.9	640	7.97	320	220	1.9	360	6.43	2.94	0.876
COSB-002-MWA (1.53 m)	03-18-13	17000	3300	140000	16000	210	200	32	21	<0.01	<100	0.25	<0.01	0.25	<0.05	<5	1.9	160	800	7.1	400	210	<1	550	9.23	1.88	0.075
	07-26-13	19500	4200	178000	29200	170	410	39	26	<0.01	<100	<0.05	<0.01	<0.05	0.15	16	11	830	1100	6.97	560	170	<1	822	13.1	2.9	-0.075
	11-6-13[FDL]	20000	5600	230000	36000	NM	NM	NM	NM	NM	<100	NM	NM	NM	NM	NM	2.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11-6-13[FD]	20000	5700	230000	36000	130	620	49	30	<0.01	<100	<0.05	0.021	<0.05	0.32	130	2.2	160	1400	6.61	720	130	<1	1100	17	2.69	-0.473
	11-06-13	20000	5500	230000	36000	130	610	49	29	<0.01	<100	<0.05	0.017	<0.05	0.33	120	1.9	77	1400	6.64	730	130	<1	1100	16.6	1.07	-0.451
	12-15-14	14000	3200	150000	17000	200	210	26	20	<10	<100	1.6	<0.01	1.6	0.098	<5	1.9	17	860	6.72	450	200	<1	580	9.29	2.57	-0.276
	12-9-15	11000	7100	340000	53000	<5.0	1500	12	150	0.066	240	0.18	<0.010	0.18	1.6	28	NM	250	2600	3.66	1100	<1.0	<1.0	2100	31.3	14.3	NC
	11-28-16	11000	3600	170000	25000	190	300	16	20	0.018	<100	0.36	<0.010	0.36	0.13	84	2.9	43	910	6.97	530	190	<1.0	670	10.6	3.24	-0.003
	12-08-17	18000	9700	470000	120000	10	1600	9.2	51	0.01	<100	0.76	<0.010	0.76	2.4	26	4.7	49	2700	4.43	1700	10	<1.0	2300	33.6	2.27	-3.55
	11-28-18	10000	7300	280000	65000	130	900	9.9	26	<0.010	<100	0.13	<0.010	0.13	0.58	52	1.4	19	1700	6.54	970	130	<1.0	1400	21.5	2.73	-0.499
	11-29-19	8900	4300	290000	46000	190	700	9.9	20	<0.010	<100	0.33	<0.010	0.33	<0.050	9.2	1.9	17	1500	6.98	900	190	<1.0	1200	18.8	0.750	0.148
	11-27-20	11000	4300	280000	31000	200	650	7.3	21	<0.012	<100	0.45	0.02	0.46	<0.05	5.8	2.2	14	1400	7.16	810	200	<1	1,100	17.8	2.56	0.337
	12-01-21	10000	8600	560000	120000	70	1700	2.9	36	<0.010	<100	0.59	<0.010	0.59	0.55	29	2.1	2.8	2700	6.19	1900	70	<1.0	2,600	37.7	0.85	-0.898
	12-03-22	9800	4500	450000	81000	130	1200	9.6	17	<0.010	<100	0.62	0.027	0.65	0.23	<5.0	3.1	0.41	2200	6.96	1500	130	<1.0	1900	28.3	2.61	0.0930
	11-16-23	8700	3900	420000	42000	93	970	5.6	19	<0.010	<100	0.16	<0.010	0.16	0.18	160	2.2	13	1900	6.42	1200	93	<1.0	1600	22.3	6.29	-0.597
	12-03-24	10000	4300	530000	73000	75	1500	7.0	20	<0.010	<100	0.71	<0.010	0.71	<0.050	23	2.7	36	2500	6.97	1600	75	<1.0	2200	33.2	0.0500	-0.0960
	12-03-24[FD]	10000	4300	530000	75000	73	1600	6.8	20	<0.010	<100	0.71	<0.010	0.71	0.14	<5.0	2.8	41	2400	6.90	1600	73	<1.0	2300	34.2	1.12	-0.182
	11-12-25	6900	2700	120000	13000	92	220	7.3	16	<0.010	<100	0.49	0.031	0.52	0.10	6.6	2.2	21	690	7.43	340	92	<1.0	450	6.71	4.35	0.00700
COSCW-001-MWA (3.42 m)	03-19-13	11000	1400	64000	6900	160	49	14	8.6	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	<0.5	23	430	7.9	190	160	1.2	253	4.66	4.25	0.506
	07-17-13	12500	1660	66100	8100	170	50	13	11	0.013	<100	0.057	<0.01	0.057	<0.05	<5	1.1	24	440	7.71	200	170	<1	267	4.82	2.88	0.348
	10-24-13	14000	1800	72000	8700	170	52	14	12	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	0.62	43	460	7.57	220	170	<1	280	4.93	0.100	0.251
	12-16-14	13,000	1900	74,000	8,800	180	49	14	12	<10	<100	0.052	<0.01	0.052	0.093	<5	0.93	46	480	7.61	220	180	<1	290	5.11	0.29	0.334
	12-8-15	13,000	1600	74,000	8,400	180	51	14	11	0.011	<100	0.058	<0.010	0.058	<0.050	<5.0	0.78	43	460	7.8	220	180	1.1	280	5.04	0.3	0.51
	11-22-16	14000	1700	72000	8500	180	47	0.014	13	12	<100	<0.050	<0.010	<0.050	<0.050	<5.0	<5.0	95	450	7.68	220	180	<1.0	280	4.96	0	0.381
	12-8-17	13000	1800	74000	8200	190	41	14	12	0.011	<100	0.071	<0.01	0.071	0.13	<5.0	1.5	15	490	7.93	220	190	1.5	290	5.12	1.29	0.665
	12-3-18	14000	1500	77000	8400	210	46	13	12	<0.010	<100	<0.050	<0.010	<0.050	0.058	<5.0	<5.0 [9]	110	480	7.60	230	210	<1.0	300	5.43	2.45	0.383
	12-9-19	13000	1600	80000	8700	210	46	12	11	<0.010	<100	0.051	0.010	0.062	0.061	<5.0	0.86	210	490	7.86	240	210	1.4	300	5.54	1.93	0.665
	11-24-20	13000	1600	79000	9000	210	45	11	12	<0.013	<100	<0.05	0.01	<0.05	0.06	<5	<59	23	500	7.83	230	210	1.4	300	5.5	1.95	0.635
	12-08-21	14000	1400	75000	8500	190	39	10	11	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	1	2.7	470	7.81	220	190	1.2	280	4.99	0.89	0.556
	11-23-22	14000	1500	74000	8500	180	38	13	11	0.010	<100	<0.050	0.010	<0.050	<0.050	<5.0	1.6	11	480	7.93	220	180	1.4	270	4.80	2.44	0.645
	12-01-23	13000	1600	79000	9300	180	34	12	11	0.010	<100	<0.050	<0.010	<0.050	0.053	<5.0	1.5	12	510	7.77	240	180	<1.0	270	4.61	7.24	0.508
	11-20-24	13000	1500	76000	8900	180	34	13	12	<0.010	<100	<0.050	<0.010	<0.050	0.051	<5.0	1.2	15	480	7.95	230	180	1.5	270	4.62	5.04	0.663
	11-14-25	27000	1700	78000	9700	190	40	14	11	<0.010	<100	<0.050	<0.010	<0.050	0.062	<5.0	<5.0 (1)	190	520	8.01	230	190	1.9	300	5.11	7.09	0.767
COSCW-001-MWB (1.72 m)	03-19-13	18000	3200	56000	9600	190	29	14	8.6	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	0.55	1	440	8	180	190	1.8	254	4.8	3.56	0.616
	07-17-13	18200	3620	55800	10100	200	22	14	11	<0.01	<100	<0.05	<0.01	<0.05	0.057	<5	1.1	0.48	430	7.85	180	200	1.3	253	4.79	3.12	0.484
	10-24-13	20000	4000	61000	11000	200	22	14	12	<0.01	<100	0.25	<0.01	0.25	0.065	<5	1.4	2.4	450	7.91	200	200	1.5	260	4.83	1.02	0.581
	12-12-14	19000	3700	65000	11000	210	38	13	11	<10	<100	0.091	<0.01	0.091	0.11	<5	1.2	0.32	460	7.88	210	200	1.5	290	5.28	1.64	0.587
	12-8-15	16000	3200	80000	15000	270	30	12	12	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.8	2.1	540	7.84	260	270	1.8	330	6.39	3.48	0.746
	11-22-16	14000	1700	72000	8500	180	47	13	12	0.014	<100	<0.050	<0.010	<0.050	<0.050	<5.0	<5.0	95	450	7.68	220	180	<1.0	280	4.96	0	0.381
	12-8-17	17000	3400	73000	13000	240	28	16	13	<0.01	<100	0.076	<0.010	0.076	<0.050	<5.0	2.7	1.0	530	7.96	230	230	2.0	310	5.74	1.86	0.773
	12-3-18	18000	3300	68000	12000	210	31	14	12	<0.010	<100	<0.050	<0.010	<0.050	0.055	<5.0	1.7	0.39	480	7.96	220	210	1.8	290	5.32	0.660	0.707
	11-29-19	21000	3400	77000	14000	250	38	18	13	<0.010	<100	<0.050	<0.010	<0.050	0.051	<5.0	2.3	1.30	560	7.90	250	250	1.9	340	6.32	2.60	0.755
	11-24-20	24000	3400	90000	18000	310	47	12	13	<0.014	<100	<0.05	<0.01	<0.05	0.09	<5	2.2	5.7	640	7.89	300	310	2.2	390	7.5	2.67	0.883
	12-08-21	11000	1800	80000	15000	260	21	9.3	13	0.01	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.1	0.64	500	7.93	260	260	2.1	310	5.99	2.22	0.829
	11-23-22	15000	2100	90000	17000	260	27	25	14	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	3.0	0.93	630	7.84	300	250	1.6	340	6.37	1.92	0.767
	12-01-23	20000	3600	98000	19000	280	19	13	15	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	3.5	4.9	700	7.90	320	280	2.1	360	6.45	6.93	0.904
	11-20-24	15000	2900	93000	19000	260	36	14	15	<0.010	<100	<0.050	<0.010	<0.050	0.062	<5.0	2.7	1.9	640	8.16	310	250	3.4	350	6.30	4.76	1.10
	11-14-25	20000	3500	85000	16000	250	44	14	14	<0.010	<100	0.052	<0.010	0.052	0.11	<5.0	3.0	3.4	600	7.95	280	250	2.1	350	6.35	1.78	0.845

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
CONPL-202-MWA (4.73 m)	12-15-14	0.446	6.65	6.9	17	<1	2.2	43	<1	<2	<50	0.27	<1	0.84	<2	280	<0.5	1100	<0.013	<2	<2	<1	<0.1	720	<0.1	<2	<2	2.7	<2	14
	12-9-15	0.766	6.69	6.93	12	<1.0	2.2	36	<1.0	<2.0	<50	0.012	<1.0	0.46	<2.0	270	<0.50	830	<0.013	<2.0	<2.0	<1.0	<0.10	540	<0.10	<2.0	<2.0	2.1	<2.0	<5.0
	11-23-16	0.386	6.77	7.02	6	<1.0	<1.0	33	<1.0	<2.0	<50	0.025	<1.0	<0.40	<2.0	<50	<0.50	430	<0.013	<2.0	<2.0	<1.0	<0.10	470	<0.10	<2.0	<2.0	2	<2.0	<5.0
	12-21-17	0.468	6.84	7.09	5.3	<1.0	<1.0	31	<1.0	<2.0	<50	0.078	<1.0	<0.40	<2.0	<50	<0.50	470	<0.013	<2.0	<2.0	<1.0	<0.10	460	<0.10	<2.0	<2.0	1.7	<2.0	<5.0
	11-28-18	0.527	6.89	7.14	9.6	<1.0	<1.0	29	<1.0	<2.0	<50	0.051	<1.0	<0.40	<2.0	<50	<0.50	390	<0.013	<2.0	<2.0	<1.0	<0.10	400	<0.10	<2.0	<2.0	1.5	<2.0	<5.0
	11-29-19	0.425	6.95	7.20	<5.0	<1.0	<1.0	30	<1.0	<2.0	<50	0.027	<1.0	<0.40	<0.50	<50	<0.50	320	<0.013	<2.0	<2.0	<0.50	<0.10	390	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	11-27-20	0.482	6.94	7.19	<5.0	<1.0	<1.0	28	<1.0	<2.0	<50	0.036	<1.0	<0.40	<0.50	<50	<0.50	590	<0.013	<2.0	<2.0	<0.50	<0.10	480	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	12-01-21	0.409	7.01	7.26	20	<1.0	<1.0	28	<0.10	<2.0	<50	0.074	<1.0	<0.40	<0.50	<50	<0.50	260	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11-29-22	0.703	7.06	7.31	<5.0	<1.0	<1.0	31	<0.10	<2.0	<50	0.038	<1.0	<0.40	0.56	<50	<0.50	270	<0.013	<2.0	<2.0	<0.50	<0.10	360	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11/16/23[FD]	0.271	7.10	7.35	<5.0	<1.0	<1.0	34	<0.10	<2.0	<50	0.31	<1.0	<0.40	0.80	<50	<0.50	250	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	1.0	<2.0	<5.0
	11-16-23	0.236	7.10	7.35	<5.0	<1.0	<1.0	34	<0.10	<2.0	<50	0.080	<1.0	<0.40	0.53	<50	<0.50	240	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	1.0	<2.0	<5.0
	11-15-24	0.526	7.12	7.37	<5.0	<1.0	<1.0	30	<0.10	<2.0	<50	0.052	<1.0	<0.40	<0.50	<50	<0.50	220	<0.013	<2.0	<2.0	<0.50	<0.10	370	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11-12-25	0.575	7.13	7.38	<5.0	<1.0	<1.0	30	<0.10	<2.0	<50	0.018	<1.0	<0.40	<0.50	<50	<0.50	<2.0	-	<2.0	<2.0	<0.50	<0.10	340	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11/12/25[FD]	0.627	7.10	7.35	<5.0	<1.0	<1.0	30	<0.10	<2.0	<50	0.044	<1.0	<0.40	<0.50	<50	<0.50	96	-	<2.0	<2.0	<0.50	<0.10	390	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
COSB-002-MWA (1.53 m)	03-18-13	-0.173	7.03	7.27	10	2.3	<0.6	20	<0.5	<2	<100	0.098	<1	<1	3.3	220	<1	42	<0.013	<4	3.6	<1	<0.1	370	<0.8	<20	<3	0.54	<2	110
	07-26-13	-0.321	7.05	7.29	59	<1	<1	40	<1	<2	55	0.273	<1	3.51	<2	3660	<0.5	5980	NM	<2	30.7	<1	<0.1	533	<0.1	<2	<2	0.69	<2	466
	11-6-13[FDL]	NM	NM	NM	1000	<1	2.2	67	<1	<2	63	0.8	<1	9.2	3.1	17000	<0.5	14000	NM	<2	91	<1	<0.1	690	<0.1	<2	<2	0.4	<2	**1200**
	11-6-13[FD]	-0.718	7.08	7.33	1000	<1	2.3	68	<1	<2	63	0.81	<1	9.6	3.3	18000	<0.5	14000	NM	<2	92	<1	<0.1	690	<0.1	<2	<2	0.42	<2	**1300**
	11-06-13	-0.696	7.09	7.34	1100	<1	2.3	68	<1	<2	61	0.80	<1	9.2	4.0	18000	<0.5	14000	NM	<2	91	<1	<0.1	700	<0.1	<2	<2	0.40	<2	**1300**
	12-15-14	-0.524	7	7.25	73	<1	<1	19	<1	<2	<50	0.66	<1	0.43	5.1	1700	0.52	480	<0.013	<2	7.3	<1	<0.1	390	<0.1	<2	<2	0.22	<2	92
	12-9-15	NC	NC	NC	180000	<1.0	6.2	76	25	<2.0	120	**8.5**	91	**80**	**650**	32000	7.8	23000	<0.013	<2.0	270	<1.0	<0.10	1200	0.39	<2.0	<2.0	11	<2.0	**3800**
	11-28-16	-0.25	6.98	7.22	16	<1.0	<1.0	21	<1.0	<2.0	54	0.097	<1.0	<0.40	3.3	2800	<0.50	580	<0.013	<2.0	4.5	<1.0	<0.10	420	<0.10	<2.0	<2.0	0.14	<2.0	97
	12-08-17	-3.79	7.98	8.22	34000	<1.0	<1.0	70	3.7	<2.0	110	**3.9**	3.8	29	**100**	7500	1.8	16000	<0.013	<2.0	300	<1.0	<0.1	1700	0.33	<2.0	<2.0	1.6	<2.0	**2400**
	11-28-18	-0.744	7.04	7.28	63	<1.0	<1.0	29	<1.0	<2.0	110	0.43	<1.0	2.2	<2.0	7600	<0.50	17000	<0.013	<2.0	140	<1.0	<0.10	870	<0.10	<2.0	<2.0	0.25	<2.0	190
	11-29-19	-0.097	6.83	7.08	86	<1.0	<1.0	26	<1.0	<2.0	68	0.21	<1.0	0.42	0.76	1000	<0.50	5100	<0.013	<2.0	47	<0.50	<0.10	750	<0.10	<2.0	<2.0	0.45	<2.0	45
	11-27-20	0.091	6.82	7.07	44	<1.0	<1.0	24	<1.0	<2.0	51	0.074	1.4	<0.40	0.6	1200	<0.50	730	<0.013	<2.0	16	<0.50	<0.10	700	<0.10	<2.0	<2.0	0.33	<2.0	25
	12-01-21	-1.14	7.09	7.33	3200	<1.0	<1.0	72	0.3	<2.0	120	2.1	1	32	1.7	1700	<0.50	30000	<0.013	<2.0	620	<0.50	<0.10	1600	0.1	<2.0	<2.0	0.22	<2.0	**1700**
	12-03-22	-0.151	6.87	7.11	100	<1.0	<1.0	34	<0.10	<2.0	57	0.37	<1.0	1.0	0.88	1600	<0.50	2600	<0.013	<2.0	43	<0.50	<0.10	990	<0.10	<2.0	<2.0	0.40	<2.0	59
	11-16-23	-0.841	7.02	7.26	110	<1.0	<1.0	36	<0.10	<2.0	80	0.91	<1.0	12	0.66	3800	<0.50	16000	<0.013	<2.0	120	<0.50	<0.10	850	<0.10	<2.0	<2.0	0.19	<2.0	110
	12-03-24	-0.339	7.07	7.31	120	<1.0	<1.0	34	<0.10	<2.0	61	0.50	<1.0	0.97	0.82	2900	8.9	430	<0.013	<2.0	64	0.51	<0.10	980	<0.10	<2.0	<2.0	0.20	<2.0	94
	12-03-24[FD]	-0.425	7.08	7.32	120	<1.0	<1.0	34	<0.10	<2.0	60	0.50	<1.0	0.91	0.86	2900	<0.50	420	<0.013	<2.0	64	<0.50	<0.10	980	<0.10	<2.0	<2.0	0.21	<2.0	92
	11-12-25	-0.241	7.43	7.68	63	<1.0	<1.0	17	<0.10	<2.0	<50	0.17	<1.0	0.61	0.56	2400	<0.50	570	-	<2.0	14	<0.50	<0.10	240	<0.10	<2.0	<2.0	<0.10	<2.0	24
COSCW-001-MWA (3.42 m)	03-19-13	0.257	7.39	7.64	7.3	<1	<0.6	41	<0.5	<2	<100	<0.017	<1	<1	5.3	280	<1	16	<0.013	<4	<3	<1	<0.1	560	<0.8	<20	<3	0.55	<2	38
	07-17-13	0.099	7.36	7.61	7.8	<1	<1	47.1	<1	<2	<50	0.104	<1	<0.4	11.2	<50	<0.5	1470	NM	<2	<2	<1	<0.1	672	<0.1	<2	<2	0.55	<2	52.5
	10-24-13	0.002	7.32	7.57	16	<1	<1	53	<1	<2	<50	0.032	<1	<0.4	2.2	<50	<0.5	620	NM	<2	<2	<1	<0.1	680	<0.1	<2	<2	0.59	<2	21
	12-16-14	0.085	7.28	7.53	13	<1	<1	48	<1	<2	<50	0.13	<1	<0.4	7.5	<50	<0.5	10	<0.013	<2	<2	<1	<0.1	650	<0.1	<2	<2	0.82	<2	45
	12-8-15	0.261	7.29	7.54	7.6	<1.0	<1.0	45	<1.0	<2.0	<50	0.061	<1.0	<0.40	12	<50	<0.50	87	0.11	<2.0	<2.0	<1.0	<0.10	600	<0.10	<2.0	<2.0	0.75	<2.0	44
	11-22-16	0.132	7.3	7.55	9.9	<1.0	<1.0	48	<1.0	<2.0	<50	0.13	<1.0	<0.40	15	<50	<0.50	66	<0.013	<2.0	<2.0	<1.0	<0.10	660	<0.10	<2.0	<2.0	0.63	<2.0	81
	12-8-17	0.416	7.26	7.51	7.6	<1.0	1.6	82	<1.0	<2.0	<50	0.10	<1.0	0.65	3.0	<50	<0.50	3900	<0.013	<2.0	<2.0	<1.0	<0.10	250	<0.10	<2.0	<2.0	0.70	<2.0	29
	12-3-18	0.134	7.22	7.47	<5.0	<1.0	<1.0	55	<1.0	<2.0	<50	0.10	<1.0	<0.40	5.0	<50	<0.50	340	<0.013	<2.0	<2.0	<1.0	<0.10	620	<0.10	<2.0	<2.0	0.68	<2.0	62
	12-9-19	0.416	7.19	7.44	9.0	<1.0	<1.0	51	<1.0	<2.0	<50	0.054	<1.0	<0.40	10	<50	<0.50	150	<0.013	<2.0	<2.0	<0.50	<0.10	560	<0.10	<2.0	<2.0	0.73	<2.0	34
	11-24-20	0.386	7.2	7.45	<5.0	<1.0	1.2	51	<1.0	<2.0	<50	0.036	<1.0	<0.40	<0.50	63	<0.50	1100	<0.013	<2.0	<2.0	<0.50	<0.10	620	<0.10	<2.0	<2.0	0.75	<2.0	<5.0
	12-08-21	0.306	7.25	7.5	7.6	<1.0	<1.0	47	<0.10	<2.0	<50	0.023	<1.0	<0.40	<0.50	<50	<0.50	110	<0.013	<2.0	<2.0	<0.50	<0.10	520	<0.10	<2.0	<2.0	0.63	<2.0	<5.0
	11-23-22	0.396	7.28	7.53	<5.0	<1.0	<1.0	51	<0.10	<2.0	<50	0.11	<1.0	<0.40	<0.50	<50	<0.50	300	<0.013	<2.0	<2.0	<0.50	<0.10	560	<0.10	<2.0	<2.0	0.66	<2.0	<5.0
	12-01-23	0.259	7.26	7.51	<5.0	<1.0	1.5	74	<0.10	<2.0	<50	0.014	<1.0	<0.40	<0.50	72	<0.50	810	<0.013	<2.0	<2.0	<0.50	<0.10	620	<0.10	<2.0	<2.0	0.74	<2.0	<5.0
	11-20-24	0.413	7.28	7.53	<5.0	<1.0	1.7	58	<0.10	<2.0	<50	0.12	<1.0	<0.40	<0.50	63	<0.50	710	<0.013	<2.0	<2.0	<0.50	<0.10	600	<0.10	<2.0	<2.0	0.65	<2.0	<5.0
	11-14-25	0.518	7.25	7.49	<5.0	<1.0	<1.0	63	<0.10	<2.0	<50	0.010	<1.0	<0.40	0.65	<50	<0.50	<2.0	-	<2.0	<2.0	<0.50	<0.10	620	<0.10	<2.0	<2.0	0.84	<2.0	<5.0
COSCW-001-MWB (1.72 m)	03-19-13	0.367	7.38	7.63	6.7	<1	1.8	120	<0.5	<2	<100	0.19	<1	<1	<2	640	<1	1000	<0.013	4.7	<3	<1	<0.1	1300	<0.8	<20	<3	0.87	<2	12
	07-17-13	0.234	7.37	7.62	16.2	<1	2.6	107	<1	<2	52	<0.017	<1	<0.4	4.9	181	<0.5	348	NM	2.2	<2	<1	<0.1	1260	<0.1	<2	<2	0.68	<2	19.1
	10-24-13	0.332	7.33	7.58	18	<1	1.1	120	<1	<2	62	<0.01	<1	<0.4	<2	200	<0.5	350	NM	2.7	<2	<1	<0.1	1300	<0.1	<2	<2	0.76	<2	14
	12-12-14	0.338	7.29	7.54	22	<1	<1	130	<1	<2	62	0.22	<1	<0.4	<2	57	1.1	66	<0.013	5.7	<2	<1	<0.1	1400	<0.1	<2	<2	1.2	<2	20
	12-8-15	0.497	7.1	7.35	5.2	<1.0	<1.0	150	<1.0	<2.0	62	0.051	<1.0	<0.40	<2.0	110	<0.50	160	0.19	3.4	<2.0	<1.0	<0.10	1400	<0.10	<2.0	<2.0	2.6	<2.0	<5.0
	11-22-16	0.132	7.3	7.55	9.9	<1.0	<1.0	48	<1.0	<2.0	<50	0.13	<1.0	<0.40	15	<50	<0.50	66	<0.013	<2.0	<2.0	<1.0	<0.10	660	<0.10	<2.0	<2.0	0.63	<2.0	81
	12-8-17	0.524	7.19	7.44	<5.0	<1.0	<1.0	130	<1.0	<2.0	56	0.012	<1.0	<0.40	<2.0	59	<0.50	120	<0.013	3.4	<2.0	<1.0	<0.10	1300	<0.10	<2.0	<2.0	1.8	<2.0	<5.0
	12-3-18	0.458	7.26	7.51	6.6	<1.0	<1.0	130	<1.0	<2.0	57	0.073	<1.0	<0.40	<2.0	82	<0.50	98	<0.013	4.3	<2.0	<1.0	<0.10	1300	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	11-29-19	0.506	7.15	7.39	7.0	<1.0	<1.0	150	<1.0	<2.0	61	0.23	<1.0	<0.40	<0.50	110	<0.50	130	<0.013	4.7	<2.0	<0.50	<0.10	1600	<0.10	<2.0	<2.0	1.8	<2.0	<5.0
	11-24-20	0.635	7	7.25	<5.0	<1.0	2.6	170	<1.0	<2.0	63	0.15	<1.0	<0.40	<0.50	800	<0.50	460	<0.013	<2.0	<2.0	<0.50	<0.10	1600	<0.10	<2.0	<2.0	2.7	<2.0	<5.0
	12-08-21	0.58	7.1	7.35	5.3	<1.0	<1.0	130	<0.10	<2.0	<50	0.013	<1.0	<0.40	1.4	66	<0.50	120	<0.013	<2.0	<2.0	<0.50	<0.10	870	<0.10	<2.0	<2.0	2.8	<2.0	<5.0
	11-23-22	0.518	7.07	7.32	<5.0	<1.0	<1.0	140	<0.10	<2.0	<50	0.12	<1.0	<0.40	<0.50	99	<0.50	87	<0.013	<2.0	<2.0	0.56	<0.10	850	<0.10	<2.0	<2.0	3.1	<2.0	5.0
	12-01-23	0.656	7.00	7.24	<5.0	<1.0	1.5	200	<0.10	<2.0	70	0.045	<1.0	<0.40	<0.50	210	<0.50	270	<0.013	4.9	<2.0	<0.50	<0.10	1700	<0.10	<2.0	<2.0	2.6	<2.0	<5.0
	11-20-24	0.850	7.06	7.31	<5.0	<1.0	1.3	170	<0.10	<2.0	59	0.12	<1.0	<0.40	<0.50	110	<0.50	110	<0.013	3.5	<2.0	<0.50	<0.10	1200	<0.10	<2.0	<2.0	3.1	<2.0	<5.0
	11-14-25	0.597	7.11	7.35	<5.0	<1.0	2.4	160	<0.10	<2.0	66	0.021	<1.0	<0.40	<0.50	240	<0.50	190	-	2.6	<2.0	0.99	<0.10	1400	<0.10	<2.0	<2.0	2.6	<2.0	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COSCW-002-MWA (4.32 m)	03-26-13	7400	1400	160000	17000	320	150	7.9	12	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	<0.5	5.5	820	7.5	470	320	<1	545	9.63	0.93	0.73
	07-17-13	7810	1650	154000	16700	340	150	8	13	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	1.1	20	830	7.48	450	330	<1	548	9.96	2.57	0.715
	10-24-13	8200	1800	160000	18000	300	160	8.2	13	<0.01	<100	0.073	<0.01	0.073	<0.05	<5	0.87	25	840	7.45	470	300	<1	540	9.49	1.15	0.641
	12-12-14	7400	1600	160000	17000	340	160	8.2	12	<10	<100	0.1	<0.01	0.1	0.066	<5	<0.5	8.1	840	7.49	480	330	<1	570	10.2	1.64	0.744
	12-8-15	8700	1500	160000	18000	350	150	8.2	13	0.012	<100	0.077	<0.010	0.077	<0.050	<5.0	1.1	4.2	830	7.88	470	340	2.4	560	10.2	2.3	1.13
	11-22-16	20000	3700	65000	12000	220	29	14	13	0.014	<100	<0.050	<0.010	<0.050	<0.050	<5.0	1.5	0.42	470	7.87	210	210	1.5	290	5.31	1.14	0.601
	12-8-17	7300	1500	160000	17000	330	130	7.7	14	<0.01	<100	0.083	<0.010	0.083	<0.050	<5.0	0.99	13	850	7.58	470	330	1.2	530	9.53	0.68	0.831
	12-3-18	7300	1400	150000	16000	330	130	6.9	13	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	0.82	7.4	800	7.70	450	330	1.5	530	9.47	1.12	0.918
	11-29-19	7800	1300	150000	16000	340	120	9.3	13	<0.010	<100	0.12	<0.010	0.12	<0.050	<5.0	<5.0[9]	47	820	7.54	440	340	1.1	520	9.62	2.83	0.776
	11-24-20	7400	1400	150000	17000	340	150	6.2	13	<0.015	<100	0.06	<0.01	0.06	<0.05	<5	<59	38	840	7.66	460	330	1.4	550	10	2.82	0.895
	11-30-21	9200	1300	150000	15000	300	120	5.1	14	<0.010	<100	0.21	<0.010	0.21	0.059	<5.0	0.79	14	800	7.51	440	300	<1.0	500	8.8	1.84	0.698
	11-29-22	11000	1300	140000	14000	280	110	5.8	14	<0.010	<100	0.21	<0.010	0.21	<0.050	<5.0	1.7	67	750	7.86	390	280	1.9	460	8.10	1.76	0.978
	12-1-23	12000	1400	150000	14000	310	100	5.3	15	<0.010	<100	0.24	<0.010	0.24	<0.050	<5.0	1.8	22	790	7.73	430	300	1.5	480	8.40	4.22	0.919
	12-03-24	9000	1200	140000	15000	280	110	10	14	<0.010	<100	0.060	<0.010	0.060	<0.050	<5.0	1.7	38	820	7.72	420	280	1.4	480	8.35	2.28	0.858
	11-14-25	8000	1500	170000	18000	300	150	6.2	12	<0.010	<100	0.051	<0.010	0.051	<0.050	<5.0	<5.0[9]	46	890	7.81	500	290	1.8	550	9.28	5.74	1.03
COSCW-002-MWB (3.58 m)	03-19-13[1]	22000	1900	91000	9600	NM	NM	NM	7	NM	<100	NM	NM	NM	<0.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03-19-13	22000	1900	89000	9700	150	180	8.6	7	<0.01	<100	0.081	<0.01	0.081	<0.05	<5	<0.5	10	610	7.9	260	150	1.1	411	7.06	6.25	0.583
	07-17-13	24400	2380	92700	10900	170	150	8.2	9.5	<0.01	<100	0.056	<0.01	0.056	0.12	<5	0.52	1.6	620	7.74	280	170	<1	399	6.73	0.52	0.495
	10-24-13	26000	2700	98000	11000	180	150	7.9	10	<0.01	<100	0.16	<0.01	0.16	<0.05	<5	0.89	34	640	7.75	290	180	<1	420	6.98	0.36	0.543
	12-12-14	25000	2100	100,000	11,000	180	160	9	9.1	<10	<100	0.11	<0.01	0.11	0.11	<5	0.5	3.9	640	7.64	300	180	<1	430	7.21	0.84	0.453
	12-8-15	24000	1700	88,000	11,000	180	130	10	8.4	<0.010	<100	0.15	<0.010	0.15	<0.050	<5.0	0.63	1.5	600	7.85	270	180	1.2	380	6.59	1.23	0.609
	11-22-16	25000	1700	86000	11000	180	120	10	9.4	0.014	<100	0.087	<0.010	0.087	<0.050	<5.0	0.66	5	580	7.75	260	180	<1.0	370	6.4	0.39	0.507
	12-8-17	24000	1600	87000	10000	200	110	11	10	<0.010	<100	0.085	<0.010	0.085	<0.050	<5.0	1.2	2.0	610	7.88	260	200	1.4	370	6.51	1.56	0.680
	12-3-18	24000	1400	87000	11000	190	100	9.7	9.1	<0.010	<100	0.081	<0.010	0.081	<0.050	<5.0	0.72	3.5	570	7.89	260	190	1.4	360	6.23	0.480	0.668
	11-29-19	24000	1400	89000	11000	210	110	9.6	9.4	<0.010	<100	0.056	<0.010	0.056	<0.050	<5.0	0.80	1.6	600	7.79	270	210	1.2	380	6.73	2.36	0.628
	11-30-20	24000	1400	89000	11000	210	93	11	9.4	<0.016	<100	0.08	<0.01	0.08	<0.05	<5.0	<0.5	3.4	610	7.67	270	200	<1	360	6.35	0.94	0.493
	11-30-21	25000	1400	92000	11000	220	98	6.9	10	<0.010	<100	0.057	<0.010	0.057	<0.050	<5.0	0.75	2.2	610	7.76	280	210	1.2	370	6.55	0.68	0.616
	11-29-22	24000	1300	92000	11000	210	92	7.9	10	<0.010	<100	0.057	<0.010	0.057	<0.050	<5.0	1.8	9.0	610	8.14	270	210	2.7	370	6.36	1.40	0.986
	12-1-23	27000	1500	100000	13000	230	92	7.7	10	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.7	8.3	710	7.71	310	230	1.1	390	6.68	4.98	0.637
	12-03-24	26000	1400	95000	13000	200	110	8.8	11	<0.010	<100	0.067	<0.010	0.067	0.058	<5.0	0.67	29	670	7.84	290	200	1.3	380	6.47	3.58	0.677
	11-14-25	25000	1700	110000	13000	240	100	8.9	11	<0.010	<100	<0.050	<0.010	<0.050	<0.050	<5.0	<5.0[9]	66	710	7.87	330	240	1.7	420	7.21	3.09	0.836
COTS-001-MWB[3] (3.86 m)	11-15-13	8000	3100	96000	7400	33	74	11	17	<0.01	<100	50	0.05	50	5.3	23	6.2	73	710	6.04	270	33	<1	470	6.08	0.98	-1.92
	12-08-15	37000	2,800	120,000	14,000	260	120	48	13	0	<100	2	<0.010	2	0	<5.0	2	4	810	8	360	260	2	520	9	3	1
	11-28-16	35000	2700	110000	13000	260	110	53	13	0.018	<100	1.2	<0.010	1.2	0.31	<5.0	1	1.6	740	7.6	340	260	<1.0	500	9.1	4.12	0.603
	12-21-17	33000	2800	120000	13000	280	98	51	14	<0.010	<100	<0.050	<0.010	<0.050	1.1	<5.0	1.2	0.86	810	7.75	340	280	1.5	500	9.04	3.20	0.791
	11-28-18	36000	2900	110000	13000	280	96	46	15	0.014	<100	0.14	<0.010	0.14	0.57	<5.0	<5.0[9]	2.3	800	7.88	330	280	2.0	500	9.00	3.69	0.911
	11-29-19	32000	2700	120000	13000	290	100	40	13	<0.010	<100	0.065	<0.010	0.065	1.2	<5.0	1.2	0.94	810	7.78	350	290	1.6	500	9.07	2.89	0.847
	11-27-20	35000	2600	120000	13000	280	90	47	14	0.012	<100	<0.05	<0.01	<0.05	0.41	<5	<59	1.5	810	7.65	350	270	1.2	490	8.73	0.75	0.693
	12-03-21	39000	2600	120000	14000	290	100	40	14	0.011	<100	0.16	0.16	0.32	0.27	<5.0	1.3	0.96	810	7.66	360	290	1.2	510	9.06	0.83	0.728
	11-29-22	30000	4300	110000	18000	250	91	36	13	0.013	200	1.5	0.012	1.5	1.9	<5.0	6.5	5.8	780	8.01	340	250	2.4	470	8.10	2.64	1.00
	11-30-23	37000	2700	120000	15000	260	99	34	13	<0.010	<100	<0.050	0.011	0.056	0.93	<5.0	1.8	1.2	890	7.78	370	260	1.5	490	8.32	5.08	0.834
	12-03-24	37000	3000	120000	14000	270	110	38	14	<0.010	<100	<0.050	<0.010	<0.050	1.2	<5.0	1.8	19	850	7.86	360	270	1.8	500	8.64	2.32	0.898
	11-14-25	26000	2600	110000	13000	160	60	20	11	<0.010	<100	<0.050	<0.010	<0.050	0.78	<5.0	2.1	3.3	520	7.82	340	160	1.0	350	5.09	22.2	0.653
MCES-001-MWA (5.60 m)	03-28-13[FD]	31000	17000	220000	<60	430	83	38	2.8	<0.01	<100	<0.05	0.39	0.28	1	<5	2.2	21	2100	12	550	<1	<1	656	11.5	5.81	NC
	03-28-13	30000	17000	200000	<60	430	85	36	3	<0.01	<100	<0.05	0.41	0.27	1	<5	2	18	2100	11.8	500	1.8	110	631	11.3	2.5	2.87
	07-24-13	36400	17800	230000	<100	87	160	43	2.9	<0.01	<100	<0.05	0.17	0.13	1.3	6.2	2.2	15	2300	11.8	570	<1	<1	542	6.24	37.2	NC
	12-10-14	34000	18,000	240000	<100	420	120	50	3.5	<10	<100	0.096	0.28	0.38	1.5	<5	3.4	37	1900	11.9	610	<1	17	730	12.4	6.93	2.12
	12-2-15	39000	17,000	240000	<100	66	160	44	2.7	<0.010	<100	<0.050	0.29	0.31	1.3	<5.0	2.2	3.5	2100	11.8	590	<1.0	<1.0	540	5.89	40.9	NC
	11-25-16	36000	19000	250000	<100	280	190	60	2.8	<0.010	<100	<0.050	0.47	0.39	1.1	<5.0	<5.0	10	1900	11.9	610	<1.0	<1.0	730	11.4	11.8	NC
	12-12-17 [FD]	42000	17000	240000	<0.10	70	150	55	2.4	<0.010	<100	<0.050	0.13	0.16	1.4	<5.0	3.1	0.27	2400	12	600	<1.0	<1.0	560	6.16	39.9	NC
	12-12-17	42000	17000	240000	<0.10	76	160	52	2.3	<0.010	<100	<0.050	0.13	0.16	1.4	5.5	3.1	0.25	2500	12	600	<1.0	<1.0	560	6.26	39.5	NC
	11-28-18	26000	13000	240000	<100	240	110	36	2.0	<0.010	<100	<0.050	0.26	0.29	0.47	<5.0	2.5	0.75	2300	12.0[8]	600	<1.0	<1.0	580	8.28	23.8	NC
	12-02-19	28000	13000	220000	<100	240	130	31	2.8	<0.010	<100	0.086	0.28	0.37	0.84	<5.0	2.4	0.62	2000	11.9[8]	550	<1.0	<1.0	570	8.33	20.8	NC
	11-27-20	Dry																									
	12-07-21	35000	15000	250000	<100	480	130	53	2.9	<0.010	<100	0.11	0.21	0.32	1	7.3	2.9	0.73	2200	12.1[8]	610	<1.0	<1.0	770	13.8	1.6	NC
	11-23-22	Insufficient Water to Sample																									
	11-29-23	35000	13000	230000	<100	380	120	53	2.6	<0.010	<100	0.063	0.24	0.30	0.63	<5.0	2.9	1.2	2300	11.9[8]	560	<1.0	4.4	680	11.6	6.27	1.52
	11-18-24	28000	8700	200000	<100	330	110	47	3.0	<0.010	<100	0.092	0.22	0.31	0.49	9.5	1.6	0.12	1400	11.8[8]	500	<1.0	20	590	10.2	5.93	2.15
	11-14-25	27000	7100	160000	<100	220	92	48	4.0	<0.010	<100	0.14	0.24	0.38	0.39	<5.0	1.9	1.0	1100	11.4[8]	400	3.2	82	470	7.70	9.47	2.68

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
COSCW-002-MWA (4.32 m)	03-26-13	0.482	6.77	7.02	9.5	<1	<0.6	21	<0.5	<2	<100	0.066	<1	<1	5	<100	<1	<4	<0.013	<4	<3	<1	<0.1	240	<0.8	<20	<3	3.9	<2	37
	07-17-13	0.468	6.77	7.01	7.1	<1	<1	21.7	<1	<2	<50	0.298	<1	<0.4	48.1	<50	0.68	<2	NM	<2	3.2	<1	<0.1	255	<0.1	<2	<2	3.87	<2	216
	10-24-13	0.393	6.81	7.06	16	<1	<1	24	<1	<2	51	0.36	<1	<0.4	37	<50	0.55	5.5	NM	<2	2.8	<1	<0.1	240	<0.1	<2	<2	4.6	<2	260
	12-12-14	0.205	6.75	7	17	<1	<1	22	<1	<2	<50	0.26	<1	<0.4	12	<50	<0.5	5.2	<0.013	<2	<2	<1	<0.1	250	<0.1	<2	<2	4.9	<2	59
	12-8-15	0.883	6.75	6.99	7.8	<1.0	<1.0	22	<1.0	<2.0	<50	0.14	<1.0	<0.40	65	<50	1	<2.0	<0.013	<2.0	2.9	<1.0	<0.10	240	<0.10	<2.0	<2.0	4.1	<2.0	210
	11-22-16	0.352	7.27	7.52	5.6	<1.0	<1.0	130	<1.0	<2.0	66	0.014	<1.0	<0.40	<2.0	<50	<0.50	18	<0.013	5.6	<2.0	<1.0	<0.10	1300	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	12-8-17	0.583	6.75	7.00	7.0	<1.0	<1.0	23	<1.0	<2.0	<50	0.10	<1.0	<0.40	23	<50	<0.50	2.3	<0.013	<2.0	<2.0	<1.0	<0.10	250	<0.10	<2.0	<2.0	4.4	<2.0	110
	12-3-18	0.671	6.78	7.03	<5.0	<1.0	<1.0	22	<1.0	<2.0	<50	0.12	<1.0	<0.40	15	<50	<0.50	<2.0	<0.013	<2.0	<2.0	<1.0	<0.10	240	<0.10	<2.0	<2.0	3.8	<2.0	100
	11-29-19	0.528	6.76	7.01	6.9	<1.0	<1.0	24	<1.0	<2.0	<50	0.078	1.1	<0.40	4.8	<50	1.2	22	<0.013	<2.0	<2.0	<0.50	<0.10	230	<0.10	<2.0	3.1	3.5	<2.0	34
	11-24-20	0.648	6.77	7.01	<5.0	<1.0	<1.0	23	<1.0	<2.0	<50	0.066	<1.0	<0.40	5.7	<50	<0.50	<2.0	<0.013	<2.0	<2.0	<0.50	<0.10	240	<0.10	<2.0	<2.0	4.6	<2.0	39
	11-30-21	0.451	6.81	7.06	15.0	<1.0	<1.0	22	<0.10	<2.0	53	0.043	<1.0	<0.40	36	<50	1.6	5.2	<0.013	<2.0	<2.0	<0.50	<0.10	220	<0.10	<2.0	<2.0	2.8	<2.0	54
	11-29-22	0.730	6.89	7.13	<5.0	<1.0	<1.0	23	<0.10	<2.0	64	0.10	<1.0	<0.40	27	<50	<0.50	18	<0.013	<2.0	4.6	<0.50	<0.10	210	<0.10	<2.0	<2.0	2.1	<2.0	89
	12-1-23	0.671	6.81	7.06	<5.0	<1.0	<1.0	29	<0.10	<2.0	59	0.078	<1.0	<0.40	14	<50	<0.50	8.1	<0.013	<2.0	7.1	<0.50	<0.10	240	<0.10	<2.0	<2.0	2.0	<2.0	69
	12-03-24	0.610	6.86	7.11	<5.0	<1.0	<1.0	25	<0.10	<2.0	57	0.063	<1.0	<0.40	24	<50	<0.50	6.0	<0.013	<2.0	6.7	<0.50	<0.10	220	<0.10	<2.0	<2.0	2.6	<2.0	63
	11-14-25	0.785	6.77	7.02	<5.0	<1.0	<1.0	28	<0.10	<2.0	<50	0.19	<1.0	<0.40	21	<50	<0.50	19	-	<2.0	<2.0	<0.50	<0.10	320	<0.10	<2.0	<2.0	4.3	<2.0	72
COSCW-002-MWB (3.58 m)	03-19-13[L]	NM	NM	NM	6.1	<1	<0.6	26	<0.5	<2	<100	0.045	<1	<1	<2	<100	<1	130	NM	<4	<3	<1	<0.1	170	<0.8	<20	<3	2.7	<2	33
	03-19-13	0.335	7.32	7.57	6.3	<1	<0.6	26	<0.5	<2	<100	0.043	<1	<1	<2	<100	<1	130	<0.013	<4	<3	<1	<0.1	170	<0.8	<20	<3	2.6	<2	33
	07-17-13	0.246	7.25	7.49	10.2	<1	2.7	24.1	<1	<2	<50	<0.017	<1	0.44	<2	273	<0.5	470	NM	4.2	<2	<1	<0.1	173	<0.1	<2	<2	2.4	<2	13.9
	10-24-13	0.295	7.21	7.46	26	<1	2.3	30	<1	<2	<50	0.15	<1	<0.4	<2	320	<0.5	460	NM	5.4	<2	<1	<0.1	180	<0.1	<2	<2	2.3	<2	20
	12-12-14	0.497	7.19	7.43	11	<1	<1	34	<1	<2	<50	0.63	<1	<0.4	4.5	80	<0.5	130	<0.013	7.2	<2	<1	<0.1	190	<0.1	<2	<2	3.2	<2	47
	12-8-15	0.36	7.24	7.49	7.5	<1.0	<1.0	31	<1.0	<2.0	<50	0.038	<1.0	<0.40	6.3	61	0.65	110	<0.013	5.3	<2.0	<1.0	<0.10	150	<0.10	<2.0	<2.0	1.9	<2.0	38
	11-22-16	0.259	7.25	7.49	7.7	<1.0	<1.0	30	<1.0	<2.0	<50	0.23	<1.0	<0.40	2.3	130	<0.50	200	<0.013	7.1	<2.0	<1.0	<0.10	150	<0.10	<2.0	<2.0	1.7	<2.0	80
	12-8-17	0.431	7.20	7.45	<5.0	<1.0	<1.0	32	<1.0	<2.0	<50	0.031	<1.0	<0.40	3.9	130	<0.50	340	<0.013	5.3	<2.0	<1.0	<0.10	160	<0.10	<2.0	<2.0	1.7	<2.0	25
	12-3-18	0.419	7.22	7.47	15	<1.0	<1.0	34	<1.0	<2.0	<50	0.11	<1.0	<0.40	5.4	<50	<0.50	33	<0.013	3.7	<2.0	<1.0	<0.10	140	<0.10	<2.0	<2.0	1.6	<2.0	38
	11-29-19	0.380	7.17	7.41	10	<1.0	<1.0	37	<1.0	<2.0	<50	0.035	<1.0	<0.40	3.6	<50	1.6	47	<0.013	3.0	<2.0	<0.50	<0.10	150	<0.10	<2.0	<2.0	1.6	<2.0	20
	11-30-20	0.244	7.18	7.43	<5.0	<1.0	<1.0	37	<1.0	<2.0	<50	0.033	<1.0	<0.40	4.2	<50	<0.50	82	<0.013	3.8	<2.0	<0.50	<0.10	150	<0.10	<2.0	<2.0	1.6	<2.0	29
	11-30-21	0.367	7.14	7.39	8.2	<1.0	<1.0	37	<0.10	<2.0	<50	0.22	<1.0	<0.40	8.8	<50	0.88	62	<0.013	3.8	<2.0	<0.50	<0.10	160	<0.10	<2.0	<2.0	1.6	<2.0	21
	11-29-22	0.737	7.16	7.40	10	<1.0	<1.0	38	<0.10	<2.0	<50	0.12	<1.0	<0.40	7.6	<50	<0.50	97	<0.013	4.8	2.5	<0.50	<0.10	160	<0.10	<2.0	<2.0	1.5	<2.0	49
	12-1-23	0.388	7.08	7.33	<5.0	<1.0	<1.0	40	<0.10	<2.0	<50	0.028	<1.0	<0.40	4.3	200	<0.50	510	<0.013	3.9	2.3	<0.50	<0.10	180	<0.10	<2.0	<2.0	2.0	<2.0	37
	12-03-24	0.428	7.16	7.41	<5.0	<1.0	<1.0	41	<0.10	<2.0	<50	0.032	<1.0	<0.40	7.2	63	<0.50	240	<0.013	2.7	3.3	<0.50	<0.10	170	<0.10	<2.0	<2.0	1.9	<2.0	26
	11-14-25	0.587	7.03	7.28	<5.0	<1.0	<1.0	41	<0.10	<2.0	<50	0.16	<1.0	0.68	2.7	180	<0.50	790	-	3.3	<2.0	<0.50	<0.10	210	<0.10	<2.0	<2.0	2.4	<2.0	53
COTS-001-MWB[3] (3.86 m)	11-15-13	-2.17	7.96	8.21	230	<1	<1	63	<1	<2	<50	0.57	<1	2.5	47	60	2.8	3100	NM	<2	7.2	<1	<0.1	300	<0.1	<2	<2	0.24	<2	160
	12-08-15	1	7	7	6	<1.0	<1.0	43	<1.0	<2.0	<50	0.029	<1.0	<0.40	<2.0	<50	<0.50	22	<0.013	<2.0	<2.0	<1.0	<0.10	1600	<0.10	<2.0	<2.0	1	<2.0	<5.0
	11-28-16	0.355	6.99	7.24	11	<1.0	<1.0	38	<1.0	<2.0	<50	0.20	<1.0	<0.40	<2.0	<50	<0.50	1400	<0.013	<2.0	<2.0	<1.0	<0.10	1500	<0.10	<2.0	<2.0	0.62	<2.0	<5.0
	12-21-17	0.543	6.96	7.21	6.0	<1.0	2.8	44	<1.0	<2.0	<50	<0.010	<1.0	0.45	<2.0	530	<0.50	2100	<0.013	<2.0	<2.0	<1.0	<0.10	1600	<0.10	2.2	<2.0	0.52	<2.0	<5.0
	11-28-18	0.663	6.96	7.21	6.9	<1.0	<1.0	33	<1.0	<2.0	<50	0.031	<1.0	<0.40	<2.0	<50	<0.50	700	<0.013	<2.0	<2.0	<1.0	<0.10	1500	<0.10	3.2	<2.0	1.1	<2.0	<5.0
	11-29-19	0.599	6.93	7.18	6.6	<1.0	1.4	41	<1.0	<2.0	<50	0.029	<1.0	<0.40	<0.5	250	<0.50	1600	<0.013	<2.0	<2.0	<0.50	<0.10	1700	<0.10	<2.0	<2.0	0.48	<2.0	<5.0
	11-27-20	0.445	6.96	7.2	5.1	<1.0	<1.0	35	<1.0	<2.0	<50	0.027	<1.0	<0.40	<0.5	<50	<0.5	850	<0.013	<2.0	<2.0	<0.50	<0.10	1600	<0.10	<2.0	<2.0	0.77	<2.0	<5.0
	12-03-21	0.48	6.93	7.18	<5.0	<1.0	<1.0	36	<0.10	<2.0	<50	0.023	<1.0	<0.40	<0.50	<50	<0.50	59	<0.013	<2.0	<2.0	<0.50	<0.10	1600	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11-29-22	0.753	7.01	7.25	<5.0	<1.0	<1.0	42	<0.10	<2.0	<50	0.031	<1.0	<0.40	<0.50	<50	<0.50	28	<0.013	<2.0	<2.0	<0.50	<0.10	1500	<0.10	<2.0	<2.0	0.90	<2.0	<5.0
	11-30-23	0.586	6.95	7.20	21	<1.0	<1.0	49	<0.10	<2.0	<50	0.021	<1.0	<0.40	<0.50	110	<0.50	1500	<0.013	<2.0	<2.0	<0.50	<0.10	1600	<0.10	<2.0	<2.0	0.71	<2.0	<5.0
	12-03-24	0.650	6.96	7.21	7.6	<1.0	3.9	87	<0.10	<2.0	<50	<0.010	<1.0	0.43	<0.50	1600	<0.50	4300	<0.013	<2.0	<2.0	<0.50	<0.10	1700	<0.10	5.9	<2.0	0.86	<2.0	<5.0
	11-14-25	0.404	7.17	7.42	5.0	<1.0	2.6	46	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	430	<0.50	1500	-	<2.0	<2.0	<0.50	<0.10	1500	<0.10	<2.0	<2.0	1.0	<2.0	<5.0
MCES-001-MWA (5.60 m)	03-28-13[FD]	NC	NC	NC	18	<1	0.9	150	<0.5	<2	<100	<0.017	<1	<1	4.7	100	3.9	<4	0.015	8.1	<3	4	<0.1	1100	<0.8	<20	<3	<0.15	26	12
	03-28-13	2.63	8.93	9.17	20	<1	<0.6	150	<0.5	<2	<100	<0.017	<1	<1	4.8	110	3.9	<4	0.015	8.3	<3	1.8	<0.1	1100	<0.8	<20	<3	<0.15	21	14
	07-24-13	NC	NC	NC	30.8	<1	<1	159	<1	<2	<50	<0.017	<1	<0.4	13.3	<50	1.87	3.2	NM	9.4	<2	1.6	<0.1	1180	<0.1	<2	<2	<0.1	23.3	8.7
	12-10-14	1.88	9.78	10	310	<1	<1	160	<1	<2	<50	0.085	2.6	<0.4	10	<50	0.83	2.9	<0.013	9.5	<2	1.8	<0.1	1200	<0.1	<2	<2	<0.1	16	7.7
	12-2-15	NC	NC	NC	53	<1.0	<1.0	150	<1.0	<2.0	<50	<0.010	<1.0	<0.40	2.7	<50	2.9	<2.0	<0.013	8.9	<2.0	1.5	<0.10	1300	<0.10	<2.0	<2.0	<0.10	20	<5.0
	11-25-16	NC	NC	NC	79	<1.0	<1.0	160	<1.0	<2.0	<50	<0.010	2.6	<0.40	4.3	<50	5.1	<2.0	<0.013	9.3	<2.0	1.9	<0.10	1300	<0.10	<2.0	<2.0	<0.10	18	<5.0
	12-12-17 [FD]	NC	NC	NC	54	<1.0	<1.0	140	<1.0	<2.0	<50	0.017	2.1	<0.40	4.3	<50	4.2	<2.0	<0.013	9.0	<2.0	1.8	<0.10	1300	<0.10	<2.0	<2.0	<0.10	18	<5.0
	12-12-17	NC	NC	NC	52	<1.0	<1.0	140	<1.0	<2.0	<50	<0.010	2.0	<0.40	11	<50	4.0	<2.0	<0.013	8.5	<2.0	1.8	<0.10	1300	<0.10	<2.0	<2.0	<0.10	18	<5.0
	11-28-18	NC	NC	NC	43	<1.0	<1.0	150	<1.0	<2.0	<50	0.018	7.9	<0.40	2.8	<50	4.9	<2.0	<0.013	9.0	<2.0	1.5	<0.10	1000	<0.10	<2.0	<2.0	<0.10	16	<5.0
	12-02-19	NC	NC	NC	38	<1.0	<1.0	140	<1.0	<2.0	<50	<0.010	2.6	<0.40	2.8	<50	3.9	<2.0	<0.013	7.3	<2.0	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	18	<5.0
	11-27-20	Dry																												
	12-07-21	NC	NC	NC	69	<1.0	<1.0	150	<0.10	<2.0	<50	<0.010	4.6	<0.40	5.5	<50	2.8	23	<0.013[13]	8.8	<2.0	1.7	<0.10	1200	<0.10	<2.0	<2.0	<0.10	17	<5.0
	11-23-22	Insufficient Water to Sample																												
	11-29-23	1.27	10.4	10.6	90	<1.0	<1.0	140	<0.10	<2.0	<50	<0.010	3.6	<0.40	3.5	<50	3.2	<2.0	<0.013	9.0	<2.0	1.8	<0.10	1100	<0.10	<2.0	<2.0	<0.10	19	<5.0
	11-18-24	1.90	9.64	9.89	50	<1.0	<1.0	110	<0.10	<2.0	<50	<0.010	3.1	<0.40	2.7	<50	3.2	<2.0	<0.013	7.3	<2.0	2.2	<0.10	850	<0.10	<2.0	<2.0	<0.10	19	<5.0
	11-14-25	2.43	8.75	9.00	110	<1.0	<1.0	91	<0.10	<2.0	<50	<0.010	2.6	<0.40	2.4	<50	2.1	<2.0	-	6.3	<2.0	1.2	<0.10	670	<0.10	<2.0	<2.0	<0.10	23	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind. (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MCES-001-MWB (Decommissioned in 2020 and Replaced with MCES-201-MWB)	03-28-13	**7200000**	160000	630000	910000	1400	29	15000	19	<0.01	<1000	<0.05	<0.01	<0.05	26	19	7.4	230	35000	7.1	5300	1400	1.7	24700	447	2.38	1.19
	07-25-13	**6500000**	148000	449000	868000	1400	25	12000	23	<0.01	<1000	<0.05	<0.01	<0.05	31	42	12	160	36000	7.42	4700	1400	3.4	21000	370	1.71	1.32
	11-14-13	**6500000**	160000	410000	830000	1300	10	13000	23	0.013	<1000	0.09	0.019	0.11	35	43	17	150	35000	7.32	4500	1300	2.5	22000	392	1.8	1.16
	12-10-14	**6800000**	160000	500000	900000	1500	6.7	11000	25	0.013	<1000	<0.05	<0.01	<0.05	33	39	17	130	34000	7.4	5000	1400	3.5	21000	346	7.51	1.38
	12-2-15	**6300000**	150000	480000	820000	1200	<2.0	13000	28	0.054	<1000	<0.050	0.013	<0.050	41	41	17	150	34000	7.49	4600	1200	3.4	22000	399	3.35	1.36
	11-25-16	**6200000**	150000	480000	790000	1200	<2.0	11000	28	0.04	<1000	<0.050	<0.010	<0.050	36	39	20	140	32000	7.42	4400	1200	3.1	19000	328	5.07	1.3
	12-15-17	**6300000**	150000	520000	820000	1500	<2.0	12000	28	0.013	<1000	<0.050	<0.010	<0.050	29	42	16	120	35,000	7.47	4700	1400	4.0	21000	379	0.52	1.46
	11-28-18 [10]	29000	13000	210000	<100	180	94	55	2.5	<0.010	<100	0.34	0.25	0.59	0.37	<5.0	3.2	0.25	1900	11.9 [8]	530	<1.0	<1.0	520	7.20	25.7	NC
	12-02-19	28000	13000	220000	<100	190	96	33	2.3	<0.010	<100	0.096	0.69	0.78	0.44	<5.0	3.0	2.5	2100	12 [8]	550	<1.0	<1.0	510	6.84	29.8	NC
MCES-201-MWB (6.59 m)	12-10-20	2200000	71000	180000	250000	680	34	4800	8.6	<0.010	<1000	0.05	<0.01	0.05	17	15	109.0	47	15000	7.5	1500	680	2.0	8000	149.00	6.95	0.713
	12-7-21[FD]	50000	14000	220000	<100	440	140	45	3.7	<0.010	<100	<0.050	0.24	0.16	1.1	<5.0	2.8	15	2300	12.1 [8]	540	<1.0	<1.0	730	12.80	2.25	NC
	12-07-21	48000	14000	220000	<100	400	130	55	3.4	<0.010	<100	<0.050	0.17	0.22	1.1	<5.0	2.6	17	2300	12.1 [8]	550	<1.0	<1.0	720	12.30	4.86	NC
	11-23-22	53000	15000	170000	<100	350	120	55	4.4	<0.010	<100	<0.050	0.020	<0.050	1.4	<5.0	3.5	11	1600	11.9 [8]	440	<1.0	<1.0	640	11.2	1.28	NC
	11-29-23	39000	13000	220000	<100	340	120	52	3.1	<0.010	<100	<0.050	0.18	0.20	0.71	<5.0	2.3	5.9	2100	11.8[8]	540	<1.0	19	650	10.8	9.24	2.15
	11-18-24	33000	17000	160000	<100	280	87	47	4.9	<0.010	<100	0.056	<0.010	0.056	1.0	<5.0	2.0	8.4	1200	11.7[8]	400	<1.0	20	520	8.81	6.18	2.05
	11-14-25	28000	12000	170000	<100	250	79	45	4.2	<0.010	<100	<0.050	0.10	0.13	0.70	<5.0	2.3	14	1300	11.7[8]	420	<1.0	20	490	7.86	11.7	2.09
MCES-006-MW (2.92 m)	03-12-12	9400	1800	82000	10000	210	50	12	12	0.016	<100	0.91	<0.01	0.91	0.083	13	7.4	16	520	7.6	250	210	<1.0	311	5.68	2.34	0.414
	06-20-12	11000	1900	95000	9800	240	43	14	10	<0.01	<100	0.27	<0.01	0.27	0.23	14	7.4	31	530	7.7	280	240	1.2	337	6.22	0.97	0.632
	09-24-12	15000	2700	110000	11000	270	49	13	14	<0.01	<100	0.75	<0.01	0.75	0.12	16	7.9	19	580	7.5	310	270	<1.0	385	6.87	1.43	0.528
	01-16-13	14000	2200	100000	12000	260	50	15	13	<0.01	<100	0.067	0.01	0.077	0.35	15	9.5	88	600	7.8	300	260	1.5	371	6.7	0.74	0.787
	03-28-13	14000	1300	100000	12000	280	34	17	13	0.062	<100	<0.05	<0.01	<0.05	0.17	14	11	310	610	7.50	310	280	<1.0	374	6.87	0.79	0.533
	07-26-13	13300	1030	103000	12100	300	28	20	13	<0.01	<100	<0.05	<0.01	<0.05	0.18	12	10	250	630	7.57	310	300	1	376	7.1	1.87	0.617
	11-05-13[L]	13000	1200	110000	12000	NM	NM	NM	NM	NM	<100	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11-05-13	13000	1200	110000	12000	290	34	22	13	<0.01	<100	0.15	<0.01	0.15	0.29	17	10	100	640	7.61	320	290	1.1	390	7.21	1.34	0.664
	12-10-14	9600	5800	77000	3200	77	70	23	14	0.014	<100	1.4	0.11	1.5	0.18	10	3.6	10	360	8.91	200	71	5.4	260	3.77	10.7	1.24
	12-3-15	7800	5500	65000	1700	84	88	21	11	0.045	110	1.3	0.12	1.4	0.14	12	3.8	3.2	370	9.44	170	66	17	260	4.2	4.22	1.66
	12-02-16	7900	1800	59000	4700	100	48	17	14	0.015	<100	0.52	0.062	0.58	0.14	13	5.4	7.9	320	7.95	170	100	<1.0	220	3.58	2.19	0.334
	12-13-17	7600	3100	51000	2900	120	35	14	9.5	<0.010	<100	0.59	0.016	0.60	0.19	15	5.5	1.0	360	7.86	140	120	<1.0	200	3.57	5.15	0.262
	11-28-18	6800	3900	56000	1700	59	64	11	14	<0.010	<100	1.6	0.028	1.7	0.087	13	4.6	1.9	280	9.15	150	51	6.9	200	2.93	6.54	1.22
	12-02-19	6000	3400	58000	630	66	83	13	11	<0.010	<100	1.1	0.083	1.2	0.071	10	3.9	0.74	340	10.3 [8]	150	18	37	220	3.48	2.65	1.97
	11-26-20	6000	3200	52000	1200	78	62	9.1	8.8	0.018	<100	1.1	0.1	1.2	0.39	18	6.6	1.40	300	9.02	130	70	6.9	200	3.19	2.24	1.2
	12-08-21	5900	2800	50000	1100	71	62	8.7	10	0.023	<100	0.48	0.088	0.6	0.6	19	6.4	1.10	280	9.41	130	56	14	190	2.98	0.51	1.47
	11-23-22	5800	3300	55000	1000	68	58	12	11	0.063	<100	0.74	0.20	0.94	1.2	14	8.6	1.4	330	9.19	140	59	8.5	190	2.97	4.50	1.32
	12-03-23	6100	2900	58000	1200	58	81	8.9	11	0.050	<100	0.36	0.12	0.48	0.70	17	6.3	3.0	350	9.19	150	50	7.3	210	3.12	3.70	1.26
	11-15-24	6700	2500	52000	3100	110	22	12	11	0.013	<100	0.063	<0.010	0.063	1.0	20	9.1	1.3	330	7.80	140	110	<1.0	180	2.98	5.25	0.182
	11-14-25	8100	1800	63000	4900	160	12	12	12	<0.010	<100	<0.050	<0.010	<0.050	0.74	12	14[12]	2.8	390	7.84	180	160	1.1	220	3.85	2.16	0.460
MCWS-113-MWB (1.44 m)	12-18-12	84000	7000	71000	11000	300	<2	92	9.9	<0.01	240	<0.05	<0.01	<0.05	2	5.5	<5	1.3	820	7.7	220	300	1.4	463	8.59	0.64	0.565
	03-27-13	91000	7200	83000	13000	300	<2	98	7.1	<0.01	<500	<0.05	<0.01	<0.05	1.6	9.8	4.6	13	820	7.4	260	300	<1	486	8.68	4.72	0.324
	07-24-13	72600	6710	73300	10800	310	<2	92	9.4	<0.01	315	<0.05	<0.01	<0.05	1.8	7.7	4.6	8.8	820	7.48	230	310	<1	458	8.72	3.69	0.371
	11-15-13	78000	7300	74000	11000	310	<2	93	10	<0.01	310	<0.05	<0.01	<0.05	1.8	8.1	<5	13	850	7.52	230	310	<1	470	8.87	2.78	0.42
	12-9-14	74000	6800	72000	12000	310	<2	100	10	<10	290	<0.05	<0.01	<0.05	1.9	11	<5	15	790	7.47	230	300	<1	470	9.03	5.18	0.354
	12-2-15	71000	6800	73000	12000	310	<2.0	91	10	0.017	310	<0.050	0.012	0.052	1.7	7.8	<5.0	20	760	7.65	230	300	1.3	460	8.69	3.51	0.542
	11-30-16	72000	7200	74000	13000	300	<2.0	91	9.9	0.012	160	<0.050	0.01	<0.050	1.7	12	5.2	16	780	7.78	240	300	1.7	460	8.66	2.61	0.677
	12-12-17	67000	6800	77000	13000	300	<2.0	98	10	<0.010	260	<0.050	<0.010	<0.050	1.7	7.0	0.97	7.9	810	7.85	250	300	2.0	460	8.86	4.05	0.760
	12-7-18	58000	6700	76000	12000	330	<2.0	60	10	<0.010	310	<0.050	<0.010	<0.050	1.4	8.8	7.5	5.6	740	7.60	240	330	1.2	430	8.30	3.75	0.544
	12-4-19[FD]	60000	6600	76000	13000	330	<2.0	58	9.7	<0.010	290	<0.080	0.011	0.084 [11]	1.6	7.0	7.8	14	750	7.83	240	330	2.1	430	8.20	2.76	0.773
	12-4-19	60000	6400	76000	13000	350	<2.0	60	9.7	<0.010	280	<0.080	<0.010	<0.080[11]	1.6	7.4	7.1	14	760	7.86	240	340	2.4	440	8.63	4.92	0.827
	11-27-20[FD]	59000	7100	83000	13000	300	<2	90	10	<0.010	300	<0.05	0.01	0.05	1.8	8.0	5.9	22	800	7.64	260	300	1.2	450	8.52	2.04	0.574
	11-27-20	60000	7000	81000	13000	300	<2	90	10	<0.010	310	<0.05	<0.01	<0.05	1.8	9.0	5.8	23	800	7.93	260	290	2.4	450	8.48	2.05	0.851
	12-8-21	59000	6900	77000	13000	310	<2.0	59	9.8	<0.010	230	<0.050	<0.010	<0.050	1.6	8.0	8.2 [12]	13	740	7.79	250	310	1.8	420	7.97	0.82	0.722
	11-22-22	63000	7300	78000	13000	270	<2.0	66	10	<0.010	190	<0.050	<0.010	<0.050	1.7	11	9.2 12	22	760	7.69	250	270	1.2	410	7.20	5.70	0.554
	11-29-23	59000	6900	75000	13000	270	<2.0	56	9.6	<0.010	180	<0.050	<0.010	<0.050	1.4	10	6.7 9	7.5	780	7.73	240	270	1.4	390	7.02	4.88	0.596
	11-14-24	58000	6900	76000	13000	260	<2.0	67	10	<0.010	280	<0.050	<0.010	<0.050	1.7	8.2	5.7	15	750	7.96	240	260	2.2	390	7.03	5.13	0.805
	11-18-25	280000	17000	470000	73000	240	35	1200	9.5	0.033	230	<0.050	0.015	<0.050	3.8	10	<5.0 (1)	150	4400	7.69	1500	240	1.1	2300	40.1	3.21	1.08

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
MCES-001-MWB (Decommissioned in 2020 and Replaced with MCES-201-MWB)	03-28-13	0.948	5.91	6.15	<50	<10	<6	3500	<5	<20	2200	0.19	<10	<10	<20	18000	<10	2200	<0.013	<40	<30	32	<1	68000	<8	<200	<30	6.6	49	110
	07-25-13	1.09	6.1	6.34	<50	<10	<10	5210	<10	<20	3260	<0.17	11	<4	<20	14700	<5	1220	NM	<20	<20	<10	<1	51000	<1	<20	<20	5	<20	<50
	11-14-13	0.926	6.16	6.39	110	<10	<10	7000	<10	<20	3600	<0.1	<10	<4	<20	15000	<5	1000	NM	<20	<20	<10	<1	41000	<1	<20	<20	3.7	<20	120
	12-10-14	1.14	6.03	6.27	86	<1	8.7	7200	<1	<2	3600	0.16	1.5	0.88	<2	14000	<0.5	1400	0.017	<2	<2	<1	<0.1	52000	<0.1	<2	3.3	2.5	2.3	10
	12-2-15	1.12	6.13	6.37	<50	<10	<10	7000	<10	<20	3500	<0.10	<10	<4.0	<20	11000	<5.0	1300	<0.013	<20	<20	<10	<1.0	54000	<1.0	<20	<20	1.9	<20	<50
	11-25-16	1.07	6.11	6.35	<50	<10	<10	7200	<10	<20	3700	<0.10	<10	<4.0	<20	10000	<5.0	1300	<0.013	<20	<20	<10	<1.0	54000	<1.0	<20	<20	1.3	<20	<50
	12-15-17	1.22	6.01	6.25	<50	<10	<10	7700	<10	<20	3300	<0.10	<10	<4.0	<2.0	11000	<5.0	1300	0.015	<20	<20	<10	<1.0	58000	<1.0	<20	<20	<1.0	<20	<50
	11-28-18 [10]	NC	NC	NC	650	2.2	<1.0	260	<1.0	<2.0	<50	<0.010	5.8	<0.40	2.4	<50	<0.50	<2.0	<0.013	11	<2.0	1.8	<0.10	1100	<0.10	<2.0	<2.0	<0.10	2.7	<5.0
	12-02-19	NC	NC	NC	21	<1.0	<1.0	260	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	<50	<0.50	<2.0	<0.013	10	2.3	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	2.1	<5.0
MCES-201-MWB (6.59 m)	12-10-20	0.475	6.78	7.02	<50	<10	<10	3100	<10	<20	1400	<0.10	<10	<4	<5	1300	<5	670	<0.013	22	<20	<5	<1	14000	<1	<20	<20	5.6	<20	<50
	12-7-21[FD]	NC	NC	NC	45	<1.0	<1.0	120	<0.10	<2.0	<50	<0.010	2.1	<0.40	3.5	<50	<0.50	<2.0	<0.013[13]	9.1	<2.0	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	25	<5.0
	12-07-21	NC	NC	NC	46	<1.0	<1.0	120	<0.10	<2.0	<50	<0.010	2.3	<0.40	3.5	<50	<0.50	<2.0	<0.013	9.3	<2.0	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	25	<5.0
	11-23-22	NC	NC	NC	49	<1.0	<1.0	94	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	<50	<0.50	<2.0	<0.013	10	<2.0	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	26	<5.0
	11-29-23	1.90	9.66	9.91	47	<1.0	<1.0	130	<0.10	<2.0	<50	<0.010	3.0	<0.40	3.1	<50	1.2	<2.0	<0.013	8.9	<2.0	1.6	<0.10	1100	<0.10	<2.0	<2.0	<0.10	23	<5.0
	11-18-24	1.80	9.67	9.92	240	1.4	<1.0	84	<0.10	<2.0	<50	<0.010	<1.0	<0.40	0.54	<50	<0.50	<2.0	<0.013	9.9	<2.0	1.4	<0.10	1200	<0.10	<2.0	<2.0	<0.10	26	<5.0
	11-14-25	1.84	9.57	9.82	220	<1.0	<1.0	88	<0.10	<2.0	<50	<0.010	<1.0	<0.40	1.3	<50	<0.50	<2.0	-	7.9	<2.0	1.2	<0.10	1000	<0.10	<2.0	<2.0	<0.10	28	<5.0
MCES-006-MW (2.92 m)	03-12-12	0.165	7.19	7.44	14	0.74	5.5	280	<0.5	<2.0	<100	<0.017	<1.0	<1.0	3.5	440	<1.0	1700	<0.013	<4	<3.0	<1.0	<0.1	540	<0.8	<20	<3.0	1.8	9.4	38
	06-20-12	0.383	7.07	7.32	8.7	<1.0	4.9	360	<0.5	<2.0	<100	<0.017	<1.0	<1.0	2.6	1100	<1.0	2700	<0.013	<4	<3.0	<1.0	<0.1	680	<0.8	<20	<3.0	1.2	9.6	19
	09-24-12	0.279	6.97	7.22	13	<1.0	5.6	370	<0.5	<2.0	<100	0.022	<1.0	<1.0	2.1	1600	<1.0	4500	<0.013	<4	<3.0	1.8	<0.1	650	<0.8	<20	<3.0	1.0	12	60
	01-16-13	0.538	7.01	7.26	46	2.6	9.3	400	<0.5	<2.0	<100	0.046	<1.0	<1.0	<2.0	420	<1.0	3600	<0.013	4.9	<3.0	1.8	<0.1	680	<0.8	<20	<3.0	3.0	10	10
	03-28-13	0.285	6.97	7.22	7.7	<1.0	13	490	<0.5	<2.0	<100	<0.017	<1.0	<1.0	<2.0	2000	<1.0	4500	<0.013	<4	<3.0	6.3	<0.1	860	<0.8	<20	<3.0	0.84	18	<5
	07-26-13	0.368	6.95	7.2	16.6	<1.0	12.1	588	<1.0	<2.0	<50	<0.017	<1.0	<0.4	<2.0	2200	<0.5	4520	NM	<2.0	<2.0	<1.0	<0.1	883	<0.1	<2.0	<2.0	0.89	7.6	<5
	11-05-13[L]	NM	NM	NM	25	<1.0	12	520	<1.0	<2.0	<50	0.037	<1.0	<0.4	<2.0	2500	<0.5	4800	NM	<2.0	<2.0	<1.0	<0.1	830	<0.1	<2.0	<2.0	0.79	9.0	15
	11-05-13	0.415	6.95	7.2	27	<1.0	12	520	<1.0	<2.0	<50	0.038	<1.0	<0.4	<2.0	2500	<0.5	4800	NM	<2.0	<2.0	<1.0	<0.1	840	<0.1	<2.0	<2.0	0.79	9.1	16
	12-10-14	0.99	7.67	7.92	210	1.5	10	130	<1	<2	<50	0.041	<1	<0.4	9.3	110	<0.5	550	<0.013	4.5	<2	2.9	<0.1	730	<0.1	<2	<2	0.21	120	<5
	12-3-15	1.41	7.78	8.03	300	1.3	11	65	<1.0	<2.0	<50	<0.010	<1.0	0.47	13	<50	<0.50	160	<0.013	4.8	<2.0	3.3	<0.10	580	<0.10	<2.0	<2.0	0.37	140	<5.0
	12-02-16	0.084	7.62	7.87	23	<1.0	11	240	<1.0	<2.0	<50	0.049	<1.0	<0.40	2.5	650	<0.50	2700	<0.013	<2.0	<2.0	<1.0	<0.10	510	<0.10	<2.0	<2.0	0.6	16	<5.0
	12-13-17	0.012	7.60	7.85	20	<1.0	4.3	120	<1.0	<2.0	<50	0.018	<1.0	<0.40	5.2	130	<0.50	1100	<0.013	3.7	<2.0	1.7	<0.10	360	<0.10	<2.0	<2.0	0.91	23	<5.0
	11-28-18	0.973	7.93	8.18	200	<1.0	7.2	110	<1.0	<2.0	<50	0.048	<1.0	<0.40	5.1	220	<0.50	740	<0.013	2.7	<2.0	1.5	<0.10	440	<0.10	<2.0	<2.0	0.13	110	<5.0
	12-02-19	1.72	8.37	8.62	380	<1.0	6.4	60	<1.0	<2.0	<50	<0.010	<1.0	<0.40	6.1	<50	<0.50	170	<0.013	3.2	<2.0	2.2	<0.10	520	<0.10	<2.0	<2.0	<0.10	120	<5.0
	11-26-20	0.946	7.83	8.08	150	<1.0	7.8	120	<1.0	<2.0	<50	0.011	1.2	0.54	7.5	98	<0.50	630	<0.013	5.1	<2.0	4.2	<0.10	400	<0.10	<2.0	<2.0	0.47	65	<5.0
	12-08-21	1.22	7.94	8.19	120	<1.0	9.1	85	<0.10	<2.0	<50	<0.010	<1.0	<0.40	5.9	<50	<0.50	380	<0.013	3.5	<2.0	1.6	<0.10	390	<0.10	<2.0	<2.0	0.2	58	6.9
	11-23-22	1.07	7.88	8.13	190	<1.0	6.2	85	<0.10	<2.0	<50	0.015	<1.0	<0.40	4.4	<50	<0.50	450	<0.013	3.4	<2.0	2.3	<0.10	400	<0.10	<2.0	<2.0	0.21	63	<5.0
	12-03-23	1.01	7.93	8.18	180	<1.0	7.2	96	<0.10	<2.0	<50	0.015	<1.0	<0.40	2.5	<50	<0.50	510	<0.013	2.5	<2.0	1.3	<0.10	460	<0.10	<2.0	<2.0	<0.10	66	<5.0
	11-15-24	-0.0680	7.62	7.87	32	<1.0	10	200	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	320	<0.50	1800	<0.013	<2.0	<2.0	0.77	<0.10	400	<0.10	<2.0	<2.0	<0.10	17	<5.0
	11-14-25	0.210	7.38	7.63	26	<1.0	8.5	290	<0.10	<2.0	<50	0.047	<1.0	<0.40	<0.50	330	<0.50	2900	-	<2.0	<2.0	0.69	<0.10	510	<0.10	<2.0	<2.0	<0.10	17	<5.0
MCWS-113-MWB (1.44 m)	12-18-12	0.317	7.14	7.38	12	<1	<0.6	200	<0.5	<2	300	<0.017	<1	<1	<2	2000	<1	4600	<0.013	<4	<3	<1	<0.1	340	<0.8	<20	<3	<0.15	<2	17
	03-27-13	0.076	7.08	7.32	<25	<5	<3	210	<2.5	<10	<500	<0.085	<5	<5	<10	2300	<5	4900	0.014	<20	<15	<5	<0.5	340	<4	<100	<15	<0.75	<10	32
	07-24-13	0.123	7.11	7.36	13.2	<1	<1	218	<1	<2	253	<0.017	<1	<0.4	<2	2570	<0.5	4580	NM	<2	<2	<1	<0.1	357	<0.1	<2	<2	<0.1	<2	21.3
	11-15-13	0.172	7.1	7.35	16	<1	<1	210	<1	<2	330	0.041	<1	<0.4	<2	2200	<0.5	4600	NM	<2	<2	<1	<0.1	370	<0.1	<2	<2	<0.1	<2	41
	12-9-14	0.106	7.12	7.37	13	<1	<1	190	<1	<2	320	1.0	<1	<0.4	4.1	1800	<0.5	4300	<0.013	<2	<2	<1	<0.1	340	<0.1	<2	<2	<0.1	<2	45
	12-2-15	0.294	7.11	7.36	44	<1.0	<1.0	210	<1.0	<2.0	310	<0.010	<1.0	0.61	<2.0	2200	26	4300	<0.013	<2.0	<2.0	<1.0	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	13
	11-30-16	0.429	7.11	7.35	7.7	<1.0	<1.0	150	<1.0	<2.0	330	0.046	<1.0	<0.40	<2.0	1300	<0.50	3500	<0.013	<2.0	<2.0	<1.0	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	97
	12-12-17	0.512	7.09	7.34	5.1	<1.0	<1.0	210	<1.0	<2.0	300	<0.010	<1.0	<0.40	<2.0	2100	<0.50	3500	<0.013	<2.0	<2.0	<1.0	<0.10	360	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-7-18	0.295	7.05	7.30	6.6	<1.0	<1.0	210	<1.0	<2.0	290	0.043	<1.0	<0.40	<2.0	2100	<0.50	3600	<0.013	<2.0	<2.0	<1.0	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-4-19[FD]	0.525	7.06	7.31	8.3	<1.0	<1.0	200	<1.0	<2.0	320	0.087	<1.0	<0.40	<0.50	2000	<0.50	3300	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-4-19	0.579	7.04	7.29	6.4	<1.0	<1.0	200	<1.0	<2.0	310	0.014	<1.0	<0.40	<0.50	2000	<0.50	3300	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-27-20[FD]	0.325	7.07	7.32	8.5	<1.0	<1.0	240	<1.0	<2.0	300	<0.010	<1.0	<0.40	<0.50	2600	<0.50	3800	<0.013	<2.0	<2.0	<0.50	<0.10	390	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-27-20	0.603	7.08	7.33	7.4	<1.0	<1.0	240	<1.0	<2.0	320	<0.010	<1.0	<0.40	<0.50	2500	<0.50	3700	<0.013	<2.0	<2.0	<0.50	<0.10	380	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-8-21	0.473	7.07	7.32	5.7	<1.0	<1.0	190	<0.10	<2.0	310	0.022	<1.0	<0.40	<0.50	1800	<0.50	3300	<0.013[13]	<2.0	<2.0	<0.50	<0.10	340	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-22-22	0.305	7.13	7.38	7.5	<1.0	<1.0	250	<0.10	<2.0	290	0.045	<1.0	<0.40	<0.50	2700	<0.50	3500	<0.013	<2.0	<2.0	<0.50	<0.10	340	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-29-23	0.347	7.13	7.38	<5.0	<1.0	<1.0	200	<0.10	<2.0	310	<0.010	<1.0	<0.40	<0.50	1800	<0.50	3200	<0.013	<2.0	<2.0	<0.50	<0.10	350	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-14-24	0.558	7.16	7.40	25	<1.0	<1.0	240	<0.10	<2.0	290	<0.010	<1.0	<0.40	<0.50	2700	<0.50	3800	<0.013	<2.0	<2.0	<0.50	<0.10	360	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-18-25	0.837	6.61	6.86	<5.0	<1.0	<1.0	1600	<0.10	<2.0	310	<0.010	<1.0	<0.40	<0.50	11000	<0.50	20000	-	<2.0	<2.0	<0.50	<0.10	2200	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVEN1 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MCWS-306-MWB (0.55 m)	03-27-13	43000	5400	110000	34000	210	280	51	11	0.011	<100	0.052	<0.01	0.052	<0.05	<5	1.2	94	990	7.6	420	210	<1	664	11.4	4.72	0.463
	07-24-13	31700	3990	109000	27700	230	230	21	11	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	1	46	870	7.61	390	230	<1	573	9.92	3.66	0.529
	11-15-13	23000	3900	110000	26000	250	170	14	12	0.012	<100	0.057	<0.01	0.057	<0.05	<5	2.7	>1000	810	7.71	370	250	1.2	510	8.95	2.29	0.672
	12-9-14	16000	2900	110000	20000	250	130	17	12	0.015	<100	<0.05	<0.01	<0.05	0.065	<5	1.2	83	700	7.46	350	250	<1	460	8.2	2.5	0.432
	12-2-15	16000	3000	110000	21000	290	140	16	13	0.018	<100	<0.050	0.01	<0.050	<0.050	<5.0	1.2	2.6	720	7.66	360	280	1.2	490	9.03	6.49	0.686
	11-30-16	23000	3900	130000	24000	270	190	16	13	0.015	<100	<0.050	<0.010	<0.050	0.12	<5.0	1.5	22	850	7.61	430	270	1	560	9.72	0.36	0.678
	12-12-17	13000	2600	110000	20000	280	95	16	13	<0.010	<100	<0.050	<0.010	<0.050	0.066	<5.0	1.5	1.5	710	7.61	350	280	1.1	440	8.02	2.30	0.627
	12-7-18	12000	2500	89000	18000	240	87	14	13	<0.010	<100	<0.050	<0.010	<0.050	0.063	<5.0	1.9	1.3	610	7.57	290	240	<1.0	380	6.93	3.43	0.444
	12-4-19	16000	3400	140000	19000	290	160	16	13	<0.010	<100	<0.080	<0.010	<0.080 [11]	0.28	<5.0	2.1	5.1	830	7.66	420	290	1.3	550	9.60	1.69	0.792
	11-27-20	8700	4900	200000	15000	270	280	18	17	<0.010	<100	<0.05	<0.01	<0.05	0.42	<5.0	<5[9]	30	1000	7.61	560	270	1	710	11.7	0.55	0.832
	12-07-21	7700	4200	130000	14000	230	160	9.2	15	<0.010	<100	<0.050	<0.010	<0.050	0.3	<5.0	2.9	6.3	740	7.79	390	230	1.3	480	8.11	0.92	0.801
	11-22-22	8100	4800	170000	14000	240	220	10	17	<0.010	310	<0.050	<0.010	<0.050	0.37	<5.0	3.5	15	970	7.70	490	240	1.1	610	9.75	3.27	0.829
	11-29-23	7300	4200	150000	11000	210	200	8.0	15	<0.010	<100	0.13	<0.010	0.13	0.28	<5.0	3.6	7.1	810	7.75	430	210	1.1	530	8.61	2.49	0.788
	11-15-24	8200	4300	170000	13000	210	240	11	17	<0.010	<100	<0.050	<0.010	<0.050	0.37	<5.0	2.8	71	930	7.84	470	210	1.4	600	9.49	3.16	0.894
	11-17-25	8900	4400	170000	13000	230	230	24	18	<0.010	<100	<0.050	<0.010	<0.050	0.36	7.2	4.7	54	920	7.77	480	230	1.2	620	10.0	1.04	0.861
MCWS-307-MWB (0.50 m)	09-27-11	220000	2300	72000	11000	340	100	150	9.9	<0.01	<100	<0.05	<0.01	<0.05	0.07	<5	1	5.5	1300	7.8	220	343	2	773	13.2	3.22	0.672
	12/15/11[D]	190000	1900	66000	9000	340	100	150	9.6	<0.01	<100	<0.05	<0.01	<0.05	0.05	<5	1.1	14	1200	7.7	200	336	2	727	13	3.04	0.536
	12-15-11	190000	1900	66000	9000	340	100	150	10	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	1	11	1300	7.9	200	340	3	733	13.1	2.66	0.738
	03-07-12	180000	1900	68000	9900	330	110	150	10	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	1.2	3.3	1200	8	210	325	3.1	718	12.9	3.82	0.834
	06-20-12	210000	2300	67000	13000	330	100	160	11	<0.01	<100	<0.05	<0.01	<0.05	0.053	<5	0.64	2	1200	8	220	330	3.1	761	13.2	1.6	0.827
	09-24-12	220000	2300	72000	11000	340	96	150	11	<0.01	<100	<0.05	<0.01	<0.05	0.052	<5	0.78	5.5	1200	7.8	230	330	2	770	13	4.87	0.663
	12/18/12[L]	220000	2100	68000	9600	NM	NM	NM	10	NM	<100	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12-18-12	220000	2000	64000	9300	330	100	150	9.4	<0.01	<100	<0.05	<0.01	<0.05	0.074	<5	0.68	3.1	1300	8	200	330	3.1	764	13.1	2.09	0.809
	03-27-13	180000	2200	70000	10000	330	110	160	11	<0.01	<100	0.064	<0.01	0.064	<0.05	<5	0.88	1.2	1200	7.8	220	330	2	738	13.4	5.02	0.65
	07-24-13	193000	2130	64300	10000	340	100	160	10	<0.01	<100	<0.05	<0.01	<0.05	0.063	<5	0.92	1.6	1300	7.77	200	340	1.9	744	13.4	3.52	0.592
	11-14-13	190000	2100	65000	9800	340	97	150	10	<0.01	<100	<0.05	<0.01	<0.05	0.11	<5	1.4	5.0	1300	7.72	200	340	1.7	730	13.1	3.14	0.556
	12-9-14	190000	2200	70000	11000	330	96	170	10	0.012	<100	0.088	0.011	0.099	0.12	<5	1	50	1200	7.73	220	330	1.7	750	13.3	2.46	0.432
	12-2-15	190000	2000	68000	10000	350	96	180	10	0.017	<100	<0.050	0.011	0.052	0.11	<5.0	0.93	3	1300	7.87	210	340	2.4	770	14	5.23	0.725
	12-2-16	200000	2100	71000	11000	360	90	200	11	0.016	<100	<0.050	<0.010	<0.050	0.1	<5.0	0.94	0.4	1200	7.7	220	350	1.7	790	14.5	5.1	0.582
	11-29-23	240000	2300	84000	14000	270	87	250	10	<0.010	<100	<0.050	<0.010	<0.050	0.095	<5.0	1.3	3.7	1600	7.68	270	270	1.2	850	14.2	4.91	0.510
	11-15-24	230000	2500	91000	14000	260	79	310	10	0.11	<100	<0.050	<0.010	<0.050	0.22	<5.0	1.0	7.4	1700	7.97	290	260	2.3	900	15.8	0.630	0.810
	11-14-25	240000	3000	98000	15000	270	92	310	9.7	<0.010	<100	<0.050	<0.010	<0.050	0.26	<5.0	1.8	23	1800	7.93	310	270	2.2	930	16.0	2.23	0.810
	11/14/25[FD]	240000	3000	97000	15000	270	92	310	9.7	<0.010	<100	<0.050	<0.010	<0.050	0.22	<5.0	1.8	5.5	1800	7.91	300	270	2.1	930	16.0	1.45	0.786
MCWS-309-MW (0.70 m)	03-29-13	170000	7300	5400	2900	280	84	37	14	0.093	180	<0.05	<0.01	<0.05	0.14	33	18	>1000	700	7.7	25	280	1.3	490	8.46	2.61	-0.583
	07-26-13	177000	7870	4010	2230	250	84	39	8.1	0.11	179	<0.05	<0.01	<0.05	<0.05	19	12	170	760	7.68	19	250	1.1	475	7.92	2.22	-0.778
	11-14-13	170000	8000	4000	2000	260	89	39	8.3	0.10	250	<0.05	<0.01	<0.05	<0.05	18	13	110	800	7.52	18	260	<1.0	480	8.26	2.93	-0.92
	12-9-14	88000	4700	3900	1100	110	35	18	4.7	0.091	180	0.15	<0.01	0.15	0.13	21	<5	510	340	7.31	14	110	<1	220	3.4	11.5	0.432
	12-3-15	160000	7700	5000	1800	250	95	48	7	0.095	180	<0.050	0.011	<0.050	0.13	18	9.4	910	750	7.62	20	250	<1.0	480	8.41	4.15	-0.742
	12-02-16	170000	8400	8200	2200	310	88	49	10	0.067	150	<0.050	<0.010	<0.050	0.14	18	9.8	130	800	7.62	30	310	1.2	530	9.42	6.44	-0.453
	12-12-17	180000	8800	6700	2200	310	90	51	7.9	0.14	190	<0.050	<0.010	<0.050	0.31	17	14	470	880	7.52	26	300	<1.0	540	9.42	3.80	-0.649
	12-7-18	94000	6300	6100	1800	160	51	40	5.2	0.14	230	0.24	0.060	0.30	0.43	12	8.7	240	540	7.29	23	160	<1.0	310	5.45	6.97	-1.13
	12-5-19	88000	6900	4300	1600	150	37	24	5.1	0.13	210	0.10	<0.010	0.10	0.60	15	<50[9]	>1000	430	7.81	17	150	<1.0	260	4.53	1.23	-0.782
	11-27-20	150000	8700	6200	2100	310	42	34	9	0.51	760	0.076	<0.01	0.076	2.6	26	<50[9]	400	740	7.69	24	310	1.4	450	8.1	4.79	-0.482
	12-07-21	130000	8700	6500	2500	270	44	30	7	0.23	340	<0.050	<0.010	<0.050	1.4	19	13 (9)	900	640	7.83	26	270	1.7	400	7.16	3.17	-0.374
	11-12-22	150000	8500	6300	3100	250	44	29	8.9	0.15	190	<0.50	<0.010	<0.050	0.41	20	14[9]	>1000	710	7.61	28	250	<1.0	410	6.83	4.41	-0.637
	11-29-23[FD]	170000	10000	8300	5000	270	63	34	7.1	0.12	130	0.11	<0.010	0.11	0.63	20	<50[9]	830	860	7.40	41	270	<1.0	270	7.77	4.31	-0.702
	11-29-23	170000	10000	8100	5000	280	66	37	7.2	0.11	140	<0.050	<0.010	<0.050	0.64	19	<50[9]	820	840	7.29	41	280	<1.0	470	7.98	3.10	-0.819
	11-14-24	100000	6800	6300	3000	180	25	19	7.8	0.15	230	<0.050	<0.010	<0.050	0.84	21	8.6[9]	820	490	7.76	28	180	<1.0	280	4.58	6.82	-0.607
	11-12-25	160000	9100	7700	3800	280	49	28	9.3	0.19	260	<0.050	<0.010	<0.050	0.42	21	12[9]	480	790	8.10	35	280	3.3	440	7.49	3.17	-0.0250
MCWS-310-MW (0.62 m)	03-29-13[L]	49000	3400	75000	10000	NM	NM	NM	9.5	NM	<100	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03-29-13	51000	3600	79000	11000	240	49	51	9.5	<0.01	<100	2.7	<0.01	2.7	<0.05	<5	<0.5	0.24	650	7.6	240	240	<1	410	7.46	2.26	0.431
	07-26-13	76100	3430	97100	14200	210	120	120	10	<0.01	<100	1.7	0.016	1.7	<0.05	<5	0.77	0.4	980	7.68	300	210	<1	574	10.2	4.03	0.506
	11-14-13	43000	3700	75000	9600	220	46	46	9.5	<0.01	<100	2.3	0.023	2.4	<0.05	<5	1.3	0.37	640	7.89	230	210	1.6	370	6.72	1.9	0.653
	12-9-14	17000	1500	21000	2400	130	29	30	6.6	<10	<100	0.81	<0.01	0.81	0.097	11	1.3	31	400	7.42	61	130	<1	190	4.02	33.3	0.432
	12-10-15[FD]	8200	3200	10000	1400	50	7.5	6.4	3.6	<0.010	<100	<0.050	<0.010	<0.050	0.15	25	NM	8.3	120	7.19	32	50	<1.0	72	1.33	8.13	-1.42
	12-10-15	8000	3200	10000	1400	49	6.7	6.5	3.7	<0.010	<100	<0.050	<0.010	<0.050	0.16	27	NM	8.0	110	7.23	32	49	<1.0	71	1.31	8.26	-1.38
	12-02-16	7600	3200	14000	1500	49	6.4	11	3.4	0.011	<100	<0.050	0.013	<0.050	0.053	14	1.7	3.2	120	7.15	42	49	<1.0	76	1.41	6.02	-1.33
	12-12-17	16000	1600	29000	3800	52	10	12	2.6	<0.010	<100	0.22	<0.010	0.22	<0.25	26	6.9	12	150	7.43	89	52	<1.0	110	1.59	22.4	-0.737
	12-7-18	8800	940	4900	860	16	5.9	15	1.6	0.011	<100	0.17	<0.010	0.17	<0.050	22	5.6	24	93	6.70	16	16	<1.0	48	0.880	10.0	-2.70
	12-5-19	4700	1000	2700	500	7.7	3.7	10	1.0	0.011	<100	0.054	<0.010	0.054	<0.050	34	5.5	13	46	6.46	8.8	7.7	<1.0	29	0.520	11.8	-3.52
	11-26-20	5000	2100	3900	600	15	<2	5.9	2.2	0.025	<100	<0.05	<0.01	<0.05	0.099	83	10	7.7	55	6.59	12	15	<1	29	0.46	8	-2.95
	12-08-21	45000	3600	74000	9700	220	44	52	8.7	<0.010	<100	0.88	<0.010	0.88	<0.050	<5.0	1.1	3.4	640	7.95	230	220	1.8	370	6.86	2.31	0.72
	11-12-22	42000	3300	63000	8500	180	42	37	8.6	<0.010	<100	0.69	0.015	0.71	<0.050	<5.0	1.9	0.11	570	7.92	190	180	1.4	320	5.54	2.03	0.547
	11-29-23	49000	3300	70000	9700	170	45	54	8.8	<0.010	<100	1.8	<0.010	1.8	<0.050	<5.0	11	5.3	680	7.87	220	170	1.2	350	6.00	4.00	0.519
	11-15-24	8600	1500	5500	880	6.6	3.4	20	2.4	0.015	<100	<0.050	<0.010	<0.050	<0.050	58	11[9]	56	90	6.33	17	6.6	<1.0	47	0.770	0.650	-3.42
	11-12-25	26000	3000	40000	5400	98	21	34	5.9	<0.010	<100	0.32	<0.010	0.32	<0.050	39	8.0	6.2	370	7.84	120	97	<1.0	200	3.37	4.13	0.0430
MSES-004-MW (7.96 m)	03-26-13	12000	2300	320000	58000	61	1100	24	9.1	<0.01	<1000	<0.05	<0.01	<0.05	0.19	76	1.1	4.9	1800	6.3	1000	61	<1	1560	24.5	6.54	-1.02
	07-26-13	14100	2400	345000	61400	70	1000	25	6.9	<0.01	<100	<0.05	<0.01	<0.05	0.18	68	1.3	2	1800	6.25	1100	70	<1	1550	23.8	1.64	-0.978
	11-15-13	13000	2600	360000	60000	67	980	25	6.7	0.031	<100	<0.05	<0.01	<0.05	0.18	72	2.1	48	1900	6.15	1200	67	<1	1500	22.5	2.68	-1.07
	12-10-14	11000	2100	300000	49000	92	690	21	5.4	<10	<100	<0.05	0.011	<0.05	0.19	30	1.5	12	1500	6.37	940	92	<1	1100	16.7	7.67	0.432
	12-3-15	13000	2300	320000	55000	98	740	26	5.7	0.01	<100	<0.050	0.013	<0.050	0.28	25	1.9	7.5	1700	6.49	1000	98	<1.0	1200	18.1	8.41	-0.581
	11-25-16	12000	2200	260000	44000	140	650	17	4.9	<0.010	<100	<0.050	<0.010	<0.050	0.21	13	2.3	15	1300	6.57	830	140	<1.0	1100	16.8	1	-0.444
	12-13-17[FD]	12000	2000	260000	39000	130	630	17	4.6	<0.010	<100	<0.050	<0.010	<0.050	0.19	23	2.5	6.6	1300	6.61	810	130	<1.0	1000	16.1	2.04	-0.429
	12-13-17	12000	2000	240000	39000	130	630	17	4.6	<0.010	<100	<0.050	<0.010	<0.050	0.18	21	2.4	4.6	1400	6.54	750	130	<1.0	1000	16.1	1.29	-0.536
	12-10-18	12000	2100	240000	41000	130	680	17	5.0	<0.010	<100	<0.050	<0.010	<0.050	0.18	39	2.2	4.7	1400	6.51	770	130	<1.0	1100	17.4	4.07	-0.547
	12-5-19	11000	1900	180000	30000	140	430	13	3.9	<0.010	<100	<0.050	<0.010	<0.050	0.18	7.0	1.9	7.7	1100	6.85	590	140	<1.0	760	12.1	0.610	-0.257
	11-26-20	11000	2000	220000	34000	160	540	14	4.4	<0.010	<100	<0.05	<0.01	<0.05	0.21	20	1.9	6.4	1300	6.67	690	160	<1	920	14.7	0.99	-0.327
	12-8-21	14000	2600	200000	35000	200	440	13	5.8	<0.010	<100	<0.050	<0.010	<0.050	1.9	<5.0	3.9	23	1200	7.57	640	200	<1.0	840	13.6	0.150	0.647
	11-25-22	12000	2300	200000	32000	180	520	16	3.7	<0.010	<100	<0.050	0.025	<0.050	0.20	<5.0	3.0	5.1	1200	7.87	640	180	1.2	910	15.0	5.31	0.896
	12-3-23	11000	2300	160000	28000	160	310	8.6	3.9	<0.010	<100	<0.050	<0.010	<0.050	0.17	7.0	2.9	6.4	1000	6.84	500	160	<1.0	620	9.99	2.96	-0.247
	11-14-24	11000	2300	150000	26000	170	310	8.5	3.6	<0.010	<100	<0.050	<0.010	<0.050	0.22	<5.0	2.5	8.7	950	7.53	480	170	<1.0	620	10.1	0.690	0.439
	11-14-25	12000	2700	210000	35000	180	410	18	3.4	<0.010	<100	<0.050	<0.010	<0.050	0.22	14	3.6	4.9	1200	7.35	660	180	<1.0	800	12.7	4.26	0.399

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
MCWS-306-MWB (0.55 m)	03-27-13	0.216	7.14	7.38	12	<1	<0.6	17	<0.5	<2	110	0.38	<1	<1	<2	<100	<0.5	2600	0.018	5.7	<3	<1	<0.1	290	<0.8	<20	<3	1.7	<2	48
	07-24-13	0.281	7.08	7.33	8.1	<1	<1	20.2	<1	<2	97	0.108	<1	0.72	<2	<50	<0.5	2870	NM	3.5	2.2	<1	<0.1	250	<0.1	<2	<2	1.33	<2	33.9
	11-15-13	0.424	7.04	7.29	24	<1	<1	21	<1	<2	96	0.22	<1	0.95	<2	<50	<0.5	2800	NM	2.3	<2	<1	<0.1	250	<0.1	<2	<2	1.2	<2	5.3
	12-9-14	0.184	7.03	7.28	9.4	<1	<1	31	<1	<2	78	0.28	<1	0.85	<2	<50	<0.5	2200	<0.013	<2	<2	<1	<0.1	260	<0.1	<2	<2	0.89	<2	5.6
	12-2-15	0.438	6.97	7.22	9.7	<1.0	<1.0	46	<1.0	<2.0	73	0.12	<1.0	1.1	<2.0	150	<0.50	2900	<0.013	<2.0	2.2	<1.0	<0.10	280	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11-30-16	0.431	6.93	7.18	16	<1.0	<1.0	58	<1.0	<2.0	84	0.038	<1.0	0.98	<2.0	320	<0.50	2900	<0.013	2.3	2	<1.0	<0.10	340	<0.10	<2.0	<2.0	1.9	<2.0	5.3
	12-12-17	0.378	6.98	7.23	<5.0	<1.0	<1.0	69	<1.0	<2.0	69	0.10	<1.0	1.2	<2.0	100	<0.50	3000	<0.013	<2.0	2.4	<1.0	<0.10	270	<0.10	<2.0	<2.0	0.78	<2.0	<5.0
	12-7-18	0.196	7.12	7.37	7.7	<1.0	<1.0	88	<1.0	<2.0	60	0.27	<1.0	0.90	<2.0	<50	<0.50	1700	<0.013	<2.0	2.3	<1.0	<0.10	220	<0.10	<2.0	<2.0	1.0	<2.0	76
	12-4-19	0.545	6.87	7.12	<5.0	<1.0	2.7	110	<1.0	<2.0	78	0.019	<1.0	1.3	<0.50	920	<0.50	5100	<0.013	2.4	2.7	<0.50	<0.10	390	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
	11-27-20	0.585	6.77	7.02	5.9	<1.0	3.1	62	<1.0	<2.0	120	0.014	<1.0	1.5	<0.50	3400	<0.50	6800	<0.013	6.8	3.5	<0.50	<0.10	620	<0.10	<2.0	<2.0	1.1	<2.0	20
	12-07-21	0.553	6.99	7.23	9.6	<1.0	1.5	52	<0.10	<2.0	91	0.091	<1.0	1.1	<0.50	1200	<0.50	4300	<0.013[13]	4.9	3.4	<0.50	<0.10	410	<0.10	<2.0	<2.0	0.94	<2.0	85
	11-22-22	0.582	6.87	7.12	8.1	<1.0	2.7	53	<0.10	<2.0	120	0.028	<1.0	1.3	<0.50	4100	<0.50	6300	<0.013	6.7	3.8	<0.50	<0.10	550	<0.10	<2.0	<2.0	0.95	<2.0	60
	11-29-23	0.540	6.96	7.21	7.2	<1.0	1.2	54	<0.10	<2.0	100	0.044	<1.0	1.5	<0.50	1100	<0.50	5700	<0.013	6.3	4.9	<0.50	<0.10	490	<0.10	<2.0	<2.0	0.84	<2.0	140
	11-15-24	0.646	6.95	7.19	<5.0	<1.0	2.2	52	<0.10	<2.0	110	0.015	<1.0	1.2	<0.50	4700	<0.50	6300	<0.013	7.0	2.6	<0.50	<0.10	540	<0.10	<2.0	<2.0	0.78	<2.0	27
	11-17-25	0.613	6.91	7.16	6.9	<1.0	3.3	49	<0.10	<2.0	93	0.016	<1.0	1.2	<0.50	5300	<0.50	6700	-	7.5	3.3	<0.50	<0.10	550	<0.10	<2.0	<2.0	0.88	<2.0	43
MCWS-307-MWB (0.50 m)	09-27-11	0.425	7.13	7.38	11	<0.4	4.3	27	<0.5	<2.0	110	0.021	1.9	<1.0	4.1	110	<1.0	160	<0.013	<4.0	<3.0	<1.0	<0.1	300	<0.8	<20	<3.0	1.4	<2.0	13
	12/15/11[D]	0.289	7.16	7.41	8.1	<0.4	4.6	26	<0.5	<2.0	110	<0.017	<1.0	<1.0	<2.0	<100	<1.0	140	<0.013	<4.0	<3.0	1.6	<0.1	290	<0.8	<20	<3.0	1.5	<2.0	9.1
	12-15-11	0.492	7.16	7.41	5.9	<0.4	4.4	25	<0.5	<2.0	120	<0.017	<1.0	<1.0	<2.0	<100	<1.0	130	<0.013	<4.0	<3.0	<1	<0.1	280	<0.8	<20	<3.0	1.4	<2.0	9.5
	03-07-12	0.587	7.17	7.41	5.4	<0.4	4.1	25	<0.5	<2.0	120	<0.017	<1.0	<1.0	<2.0	<100	<1.0	140	<0.013	<4.0	<3.0	<1	<0.1	300	<0.8	<20	<3.0	1.4	<2.0	18
	06-20-12	0.58	7.17	7.42	14	<1.0	6.6	27	<0.5	<2.0	250	0.031	<1.0	<1.0	<2.0	100	<1.0	150	<0.013	<4.0	<3.0	2.6	<0.1	320	<0.8	<20	<3.0	1.4	7	21
	09-24-12	0.416	7.14	7.38	15	<1.0	6.5	26	<0.5	<2.0	160	<0.017	<1.0	<1.0	<2.0	<100	<1.0	140	<0.013	<4.0	<3.0	1.7	<0.1	330	<0.8	<20	<3.0	1.2	4.2	25
	12/18/12[L]	NM	NM	NM	6	<1.0	5.8	25	<0.5	<2.0	110	<0.017	<1.0	<1.0	<2.0	<100	<1.0	140	NM	<4.0	<3.0	<1.0	<0.1	310	<0.8	<20	<3.0	1.3	<2.0	23
	12-18-12	0.563	7.19	7.44	6.1	<1.0	5.7	25	<0.5	<2.0	100	<0.017	<1.0	<1.0	<2.0	<100	<1.0	130	<0.013	<4.0	<3.0	<1.0	<0.1	290	<0.8	<20	<3.0	1.3	<2.0	22
	03-27-13	0.404	7.15	7.4	7.7	<1.0	3.7	25	<0.5	<2.0	120	0.051	<1.0	<1.0	2.9	<100	<1.0	110	<0.013	<4.0	<3.0	<1.0	<0.1	290	<0.8	<20	<3.0	1.3	<2.0	31
	07-24-13	0.346	7.18	7.42	9.5	<1.0	4.2	24.9	<1.0	<2.0	116	<0.017	<1.0	<0.4	2.2	<50	<0.5	162	NM	<2.0	<2.0	<1.0	<0.1	281	<0.1	<2.0	<2.0	1.25	<2.0	11.3
	11-14-13	0.309	7.16	7.41	21	<1.0	5.7	24	<1.0	<2.0	120	<0.01	<1.0	<0.4	<2.0	100	<0.5	140	NM	<2.0	<2.0	<1.0	<0.1	280	<0.1	<2.0	<2.0	1.2	<2.0	53
	12-9-14	0.336	7.15	7.39	20	<1	1.8	37	<1	<2	130	<0.01	<1	<0.4	<2	83	<0.5	120	<0.013	<2	<2	<1	<0.1	290	<0.1	<2	<2	1.3	<2	5.2
	12-2-15	0.478	7.15	7.4	7.1	<1.0	1.4	33	<1.0	<2.0	140	<0.010	<1.0	<0.40	<2.0	95	<0.50	130	<0.013	<2.0	<2.0	<1.0	<0.10	300	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	12-2-16	0.335	7.12	7.37	13	<1.0	<1.0	33	<1.0	<2.0	120	0.14	<1.0	<0.40	<2.0	61	<0.50	130	<0.013	<2.0	<2.0	<1.0	<0.10	310	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	11-29-23	0.264	7.17	7.42	<5.0	<1.0	<1.0	38	<0.10	<2.0	130	<0.010	<1.0	<0.40	<0.50	120	<0.50	160	<0.013	<2.0	<2.0	<0.50	<0.10	370	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
	11-15-24	0.564	7.16	7.40	<5.0	<1.0	1.1	54	<0.10	<2.0	140	<0.010	<1.0	<0.40	<0.50	360	<0.50	220	<0.013	<2.0	<2.0	<0.50	<0.10	400	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
	11-14-25	0.564	7.12	7.36	<5.0	<1.0	1.6	50	<0.10	<2.0	130	<0.010	<1.0	<0.40	<0.50	280	<0.50	260	-	<2.0	<2.0	<0.50	<0.10	440	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
	11/14/25[FD]	0.539	7.13	7.38	<5.0	<1.0	1.6	51	<0.10	<2.0	130	<0.010	<1.0	<0.40	<0.50	280	<0.50	260	-	<2.0	<2.0	<0.50	<0.10	450	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
MCWS-309-MW (0.70 m)	03-29-13	-0.831	8.28	8.53	1800	<1.0	5.1	21	<0.5	<2.0	640	0.17	2.2	<1.0	11	2500	3	99	NM	5.4	<3.0	<1.0	<0.1	45	<0.8	<20	58	0.33	3.5	11
	07-26-13	-1.03	8.46	8.71	145	<1.0	4.8	10.1	<1.0	<2.0	386	<0.017	<1.0	0.49	<2.0	352	<0.5	1030	NM	2.4	<2.0	<1.0	<0.1	20.9	<0.1	<2.0	<2.0	0.17	<2.0	5.7
	11-14-13	-1.17	8.44	8.69	380	<1.0	4.7	13	<1.0	<2.0	390	0.013	<1.0	0.43	<2.0	690	0.61	880	NM	<2.0	<2.0	<1.0	<0.1	22	<0.1	<2.0	7.8	0.12	<2.0	14
	12-9-14	-1.72	8.78	9.02	160	<1	2.7	6.3	<1	<2	210	0.023	<1	<0.4	<2	770	0.75	520	0.013	<2	<2	<1	<0.1	14	<0.1	<2	3.3	0.13	<2	10
	12-3-15	-0.99	8.36	8.61	120	<1.0	2.3	9.3	<1.0	<2.0	370	0.072	<1.0	0.43	<2.0	190	<0.50	890	<0.013	2.0	<2.0	<1.0	<0.10	22	<0.10	<2.0	5.3	0.45	<2.0	<5.0
	12-02-16	-0.701	8.07	8.32	60	<1.0	4.4	17	<1.0	<2.0	400	0.076	<1.0	<0.40	<2.0	590	<0.50	2000	0.013	2.3	<2.0	<1.0	<0.10	29	<0.10	<2.0	<2.0	0.19	<2.0	<5.0
	12-12-17	-0.896	8.17	8.42	62	<1.0	3.6	12	<1.0	<2.0	410	0.019	<1.0	<0.40	<2.0	190	<0.50	1200	0.018	<2.0	<2.0	<1.0	<0.10	28	<0.10	<2.0	3.1	0.20	<2.0	<5.0
	12-7-18	-1.38	8.42	8.67	72	<1.0	3.1	11	<1.0	<2.0	220	0.011	<1.0	0.74	<2.0	320	<0.50	1400	<0.013	3.2	<2.0	<1.0	<0.10	21	<0.10	<2.0	3.3	<0.10	<2.0	13
	12-5-19	-1.03	8.59	8.84	7.7	<1.0	3.1	7.4	<1.0	<2.0	200	0.023	<1.0	<0.40	1.6	<50	<0.50	990	0.055	3.1	<2.0	<0.50	<0.10	17	<0.10	<2.0	<2.0	0.23	<2.0	<5.0
	11-27-20	-0.73	8.17	8.42	110	<1.0	7.7	15	<1.0	<2.0	310	0.026	<1.0	<0.40	<0.5	210	<0.50	2500	0.013	<2.0	<2.0	<0.50	<0.10	26	<0.10	<2.0	2.3	0.13	<2.0	<5.0
	12-07-21	-0.623	8.21	8.46	83	<1.0	6.3	13	<0.10	<2.0	310	0.061	<1.0	<0.40	0.61	170	0.56	1200	<0.013[13]	2.1	<2.0	<0.50	<0.10	27	<0.10	<2.0	<2.0	0.19	<2.0	<5.0
	11-12-22	-0.885	8.25	8.49	7.4	<1.0	3.8	24	<0.10	<2.0	390	<0.010	<1.0	0.4	0.84	51	<0.50	1400	<0.013	3.1	<2.0	<0.50	<0.10	32	<0.10	<2.0	<2.0	0.2	<2.0	<5.0
	11-29-23 [FD]	-0.95	8.11	8.35	7.1	<1.0	4.2	20	<0.10	<2.0	450	<0.010	<1.0	0.49	0.54	190	<0.50	2100	<0.013	2.9	<2.0	<0.50	<0.10	48	<0.10	<2.0	<2.0	0.16	<2.0	<5.0
	11-29-23	-1.07	8.11	8.36	9.0	<1.0	4.3	20	<0.10	<2.0	460	<0.010	<1.0	0.57	0.68	190	<0.50	2100	<0.013	2.8	<2.0	<0.50	<0.10	49	<0.10	<2.0	<2.0	0.18	<2.0	5.7
	11-14-24	-0.856	8.37	8.62	6.9	<1.0	3.9	12	<0.10	<2.0	240	<0.010	<1.0	<0.40	<0.50	120	<0.50	1200	<0.013	2.5	<2.0	0.78	<0.10	31	<0.10	<2.0	<2.0	0.13	<2.0	<5.0
	11-12-25	-0.274	8.12	8.37	5.8	<1.0	6.2	19	<0.10	<2.0	360	<0.010	<1.0	<0.40	<0.50	150	<0.50	2800	-	3.5	<2.0	<0.50	<0.10	39	<0.10	<2.0	<2.0	0.15	<2.0	<5.0
MCWS-310-MW (0.62 m)	03-29-13[1]	NM	NM	NM	<5	<1.0	<0.6	60	<0.5	<2.0	100	<0.017	<1.0	<1.0	3.3	<100	<1.0	<4.0	NM	<4.0	<3.0	1.2	<0.1	2300	<0.8	<20	<3.0	0.89	<2.0	22
	03-29-13	0.183	7.17	7.42	<5	<1.0	<0.6	63	<0.5	<2.0	110	<0.017	<1.0	<1.0	3.6	<100	<1.0	<4.0	<0.013	<4.0	<3.0	<1.0	<0.1	2400	<0.8	<20	<3.0	0.93	<2.0	24
	07-26-13	0.258	7.17	7.42	12	<1.0	<1.0	76	<1.0	<2.0	122	0.035	<1.0	<0.4	2.8	<50	<0.5	90.1	NM	<2.0	<2.0	<1.0	<0.1	3210	<0.1	<2.0	<2.0	0.85	<2.0	13.7
	11-14-13	0.405	7.24	7.49	8.1	<1.0	<1.0	63	<1.0	<2.0	100	0.061	<1.0	<0.4	14	<50	<0.5	7.2	NM	<2.0	<2.0	<1.0	<0.1	2100	<0.1	<2.0	<2.0	0.9	<2.0	60
	12-9-14	-0.796	7.97	8.22	84	<1	<1	23	<1	<2	<50	0.038	<1	<0.4	3.0	50	<0.5	4.1	<0.013	<2	<2	<1	<0.1	360	<0.1	<2	2.5	0.37	<2	410
	12-10-15[FD]	-1.67	8.61	8.86	81	<1.0	<1.0	15	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	1100	<0.50	39	<0.013	<2.0	<2.0	<1.0	<0.10	110	<0.10	<2.0	<2.0	<0.10	<2.0	79
	12-10-15	-1.63	8.62	8.87	78	<1.0	<1.0	15	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	990	<0.50	36	<0.013	<2.0	<2.0	<1.0	<0.10	100	<0.10	<2.0	2.2	<0.10	<2.0	82
	12-02-16	-1.58	8.48	8.73	18	<1.0	<1.0	17	<1.0	<2.0	<50	0.048	<1.0	<0.40	<2.0	<50	<0.50	2.3	<0.013	<2.0	6	<1.0	<0.10	130	<0.10	<2.0	<2.0	<0.10	<2.0	440
	12-12-17	-0.988	8.17	8.42	100	<1.0	<1.0	29	<1.0	<2.0	<50	0.023	<1.0	<0.40	<2.0	<50	<0.50	3.6	0.013	<2.0	<2.0	<1.0	<0.10	830	<0.10	<2.0	<2.0	0.40	<2.0	190
	12-7-18	-2.95	9.40	9.65	85	<1.0	<1.0	11	<1.0	<2.0	<50	0.037	<1.0	<0.40	<2.0	<50	<0.50	2.9	<0.013	<2.0	<2.0	<1.0	<0.10	65	<0.10	<2.0	<2.0	<0.10	<2.0	130
	12-5-19	-3.77	9.97	10.2	130	<1.0	<1.0	6.7	<1.0	<2.0	<50	0.050	<1.0	<0.40	<2.0	110	<0.50	4.3	<0.013	<2.0	<2.0	<0.50	<0.10	10	<0.10	<2.0	2.6	<0.10	<2.0	140
	11-26-20	-3.2	9.53	9.79	260	<1.0	<1.0	9.1	<1.0	<2.0	<50	0.029	<1.0	<0.40	1.4	520	<0.50	14	<0.013	<2.0	<2.0	<0.50	<0.10	20	<0.10	<2.0	5.5	<0.10	<2.0	42
	12-08-21	0.471	7.23	7.48	7.4	<1.0	<1.0	78	<0.10	<2.0	100	0.012	<1.0	<0.40	<0.50	<50	<0.50	<2.0	<0.013[13]	<2.0	<2.0	<0.50	<0.10	2100	<0.10	<2.0	<2.0	0.89	<2.0	<5.0
	11-12-22	0.298	7.37	7.62	15	<1.0	<1.0	71	<0.10	<2.0	100	<0.010	<1.0	<0.40	1.6	<50	<0.50	2.3	<0.013	<2.0	<2.0	<0.50	<0.10	2000	<0.10	<2.0	<0.10	0.93	<2.0	12
	11-29-23	0.270	7.36	7.61	7.9	<1.0	<1.0	79	<0.10	<2.0	110	<0.010	<1.0	<0.40	<0.50	<50	<0.50	3.7	<0.013	<2.0	<2.0	<0.50	<0.10	2100	<0.10	<2.0	<2.0	0.85	<2.0	26
	11-15-24	-3.67	9.74	9.99	220	<1.0	<1.0	9.0	<0.10	<2.0	<50	0.021	<1.0	<0.40	2.1	98	<0.50	10	<0.013	<2.0	<2.0	<0.50	<0.10	17	<0.10	<2.0	4.5	<0.10	<2.0	34
	11-12-25	-0.207	7.80	8.05	130	<1.0	<1.0	41	<0.10	<2.0	66	0.015	<1.0	<0.40	1.7	80	<0.50	14	-	<2.0	<2.0	<0.50	<0.10	1100	<0.10	<2.0	<2.0	0.47	<2.0	13
MSES-004-MW (7.96 m)	03-26-13	-1.26	7.32	7.56	240	<10	<6	7.4	<5	<20	<1000	<0.17	<10	<10	<20	2500	<10	1300	<0.013	<40	<30	<10	<1	320	<8	<200	<30	<1.5	<20	210
	07-26-13	-1.22	7.23	7.47	517	<1.0	1.7	8.8	<1.0	<2.0	91	0.179	<1.0	1.22	<2.0	2510	<0.5	1630	NM	<2.0	3.2	<1.0	<0.1	314	<0.1	<2.0	<2.0	0.18	3.3	69.9
	11-15-13	-1.31	7.22	7.46	290	<1.0	1.8	7.3	<1.0	<2.0	82	0.14	<1.0	1.6	<2.0	2700	<0.5	1700	NM	<2.0	2.4	<1.0	<0.1	370	<0.1	<2.0	<2.0	0.12	<2.0	7.5
	12-10-14	-1.01	7.13	7.38	170	<1	1.9	7.5	<1	<2	85	0.073	<1	0.91	<2	1900	<0.5	1200	<0.013	<2	2.0	<1.0	<0.1	290	<0.1	<2	<2	<0.1	<2	63
	12-3-15	-0.826	7.07	7.32	130	<1.0	1.9	7.5	<1.0	<2.0	83	0.051	<1.0	1.1	<2.0	2000	<0.50	1500	<0.013	<2.0	3.0	<1.0	<0.10	340	<0.10	<2.0	<2.0	0.15	<2.0	97
	11-25-16	-0.69	7.01	7.26	61	<1.0	2.5	8.6	<1.0	<2.0	81	0.14	<1.0	0.5	<2.0	1700	<0.50	1100	<0.013	<2.0	<2.0	<1.0	<0.10	280	<0.10	<2.0	<2.0	0.16	<2.0	140
	12-13-17[FD]	-0.674	7.04	7.28	63	<1.0	2.1	9.3	<1.0	<2.0	82	0.016	<1.0	0.48	<2.0	1100	<0.50	860	<0.013	<2.0	<2.0	<1.0	<0.10	270	<0.10	<2.0	<2.0	0.15	<2.0	100
	12-13-17	-0.782	7.08	7.32	61	<1.0	1.9	9.4	<1.0	<2.0	80	0.027	<1.0	0.52	<2.0	1100	<0.50	860	<0.013	<2.0	<2.0	<1.0	<0.10	270	<0.10	<2.0	<2.0	0.17	<2.0	99
	12-10-18	-0.793	7.05	7.30	56	<1.0	2.2	8.9	<1.0	<2.0	82	0.032	<1.0	0.60	<2.0	1500	<0.50	1200	<0.013	<2.0	<2.0	<1.0	<0.10	280	<0.10	<2.0	<2.0	0.20	<2.0	130
	12-5-19	-0.504	7.11	7.36	41	<1.0	1.8	9.0	<1.0	<2.0	76	0.029	<1.0	<0.40	2.4	880	<0.50	770	<0.013	<2.0	5.5	<0.50	<0.10	220	<0.10	<2.0	<2.0	0.14	<2.0	76
	11-26-20	-0.573	6.99	7.24	39	<1.0	1.7	10	<1.0	<2.0	84	0.029	<1.0	0.55	1.1	910	<0.50	1200	<0.013	<2.0	<2.0	<0.50	<0.10	260	<0.10	<2.0	<2.0	0.2	<2.0	120
	12-8-21	0.401	6.92	7.17	42	<1.0	5.3	12.0	<0.10	<2.0	75	<0.010	<1.0	<0.40	<0.50	2900	<0.50	1100	<0.013	<2.0	<2.0	<0.50	<0.10	310	<0.10	<2.0	<2.0	2.00	<2.0	<5.0
	11-25-22	0.649	6.97	7.22	18	<1.0	2.3	11	<0.10	<2.0	79	0.25	<1.0	<0.40	0.60	730	<0.50	860	<0.013	<2.0	<2.0	<0.50	<0.10	270	<0.10	<2.0	<2.0	0.27	<2.0	<5.0
	12-3-23	-0.494	7.09	7.34	8.4	<1.0	1.9	11	<0.10	<2.0	74	0.025	<1.0	<0.40	<0.50	420	<0.50	660	<0.013	<2.0	<2.0	<0.50	<0.10	230	<0.10	<2.0	<2.0	0.31	<2.0	<5.0
	11-14-24	0.192	7.09	7.34	11	<1.0	3.5	12	<0.10	<2.0	73	0.13	<1.0	<0.40	0.95	2000	<0.50	630	<0.013	<2.0	<2.0	<0.50	<0.10	220	<0.10	<2.0	<2.0	0.27	<2.0	<5.0
	11-14-25	0.152	6.95	7.20	18	<1.0	2.1	15	<0.10	<2.0	79	<0.010	<1.0	<0.40	<0.50	510	<0.50	950	-	<2.0	<2.0	<0.50	<0.10	300	<0.10	<2.0	<2.0	0.27	<2.0	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
	Units	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
	MECP Table 3[2]	2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSES-006-MW (2.92 m)	07-24-13	142000	12900	483000	216000	340	2000	100	12	<0.01	<100	<0.05	<0.01	<0.05	0.17	81	0.51	8.4	3600	6.79	2100	340	<1	3230	51.3	2.9	0.278
	11-05-13	140000	14000	470000	230000	330	2200	100	12	<0.01	<100	<0.05	<0.01	<0.05	0.16	31	<0.5	11	3500	6.74	2100	330	<1	3400	54.2	5.25	0.2
	12-10-14	25000	6900	430000	62000	250	790	52	23	<10	<100	<0.05	0.015	<0.05	0.22	5	1.7	4.6	2000	7.49	1300	250	<1	1500	22.9	9.74	0.432
	12-3-15	26000	7100	410000	64000	310	820	62	23	0.049	<100	<0.050	0.015	<0.050	0.45	<5.0	2.4	1.3	2100	7.42	1300	310	<1.0	1600	25.1	3.4	0.906
	11-25-16	130000	13000	470000	210000	350	1700	99	13	0.013	<100	<0.050	<0.010	<0.050	0.22	<5.0	2.6	9.1	3200	6.81	2000	350	<1.0	2900	44.5	1.92	0.327
	12-13-17	7000	2300	130000	18000	100	270	14	27	0.022	<100	<0.050	<0.010	<0.050	0.056	6.8	8.1	2.8	780	7.41	400	100	<1.0	540	8.16	1.27	0.067
	12-10-18	120000	12000	450000	190000	360	1700	93	13	<0.010	<100	<0.050	<0.010	<0.050	0.18	35	0.84	7.2	3400	7.02	1900	360	<1.0	2800	44.3	0.290	0.527
	12-2-19	17000	4900	250000	38000	140	650	33	25	<0.010	<100	0.054	<0.010	0.054	0.30	5.7	2.4	9.3	1400	7.29	770	140	<1.0	1100	17.1	2.42	0.254
	11-26-20	28000	6100	290000	51000	310	1700	61	17	<0.010	<100	<0.05	<0.01	<0.05	0.20	<5	2.5	1.6	2800	6.88	940	300	<1	2300	42.7	35.9	0.156
	12-8-21	130000	12000	460000	190000	350	1800	80	12	<0.010	<100	<0.050	<0.010	<0.050	0.17	<5.0	1	7.2	3400	7.18	1900	350	<1.0	3000	47.6	3.12	0.674
	11-25-22	120000	11000	450000	190000	330	2100	80	12	<0.010	<100	<0.050	0.010	<0.050	0.19	16	1.7	7.5	3300	8.07	1900	330	3.6	3200	52.5	9.41	1.52
	12-1-23	43000	8700	410000	66000	510	660	50	17	0.15	220	<0.050	<0.010	<0.050	0.91	11	7.0 9	4.3	2200	7.58	1300	510	1.8	1600	25.5	4.35	1.28
	11-14-24	29000	8100	430000	67000	240	970	39	19	<0.010	<100	<0.050	<0.010	<0.050	0.17	5.9	2.7	13	2100	7.94	1400	240	1.9	1700	26.0	4.96	1.32
	11-14-25	31000	8100	420000	66000	330	860	41	19	0.072	170	<0.050	<0.010	<0.050	0.63	5.0	5.2	5.3	2100	7.71	1300	330	1.6	1600	25.7	3.94	1.23
MSES-008-MW (4.11 m)	03-26-13	130000	6600	420000	28000	190	1000	190	32	<0.01	<1000	<0.05	<0.01	<0.05	0.1	37	1.2	130	2400	7.3	1200	180	<1	1950	30.2	0.38	0.55
	07-26-13	115000	5770	458000	28700	160	1100	200	24	<0.01	<100	<0.05	<0.01	<0.05	0.1	46	1.3	120	2500	7.25	1300	160	<1	2080	32.6	2.78	0.472
	11-15-13	120000	6100	430000	27000	200	930	200	27	<0.01	<100	<0.05	<0.01	<0.050	0.076	270	1.1	83	2500	7.11	1200	200	<1	1900	29	0.8	0.408
	12-10-14	120000	5400	420000	27000	180	760	150	27	<10	<100	<0.05	<0.01	<0.05	0.11	160	2.7	140	2300	6.96	1200	180	<1	1600	23.7	9.68	0.432
	12-3-15[FD]	90000	4500	390000	24000	200	740	150	27	0.026	<100	<0.050	0.011	<0.050	0.092	24	1.4	120	2200	7.4	1100	200	<1.0	1600	23.6	4.69	0.676
	12-3-15	89000	4500	400000	24000	200	620	150	28	0.025	<100	<0.050	<0.010	<0.050	0.096	<5.0	1.5	110	2100	7.32	1100	200	<1.0	1400	21.2	10.3	0.614
	11-25-16[FD]	110000	5400	460000	31000	200	1000	200	28	0.02	<100	0.074	<0.010	0.074	0.088	<5.0	1.6	180	2400	7.11	1300	200	<1.0	2000	31	0.78	0.424
	11-25-16	110000	5400	450000	32000	210	990	210	29	0.02	<100	<0.050	<0.010	<0.050	0.099	<5.0	1.5	150	2400	7.09	1300	210	<1.0	2000	30.6	0.15	0.417
	12-13-17	100000	4900	410000	25000	180	840	190	27	<0.010	<100	<0.050	<0.010	<0.050	0.071	17	2.4	170	2300	7.34	1100	170	<1.0	1700	26.3	2.14	0.567
	12-10-18	110000	5000	360000	25000	200	870	190	28	<0.010	<100	<0.050	<0.010	<0.050	0.075	170	0.94	150	2200	7.14	1000	200	<1.0	1700	27.5	4.01	0.378
	12-2-19	100000	4900	380000	25000	200	800	170	26	<0.010	<100	0.10	<0.010	0.10	0.066	110	1.0	140	2200	7.38	1000	200	<1.0	1600	25.6	0.120	0.640
	11-26-20	130000	5400	420000	25000	200	860	230	26	<0.010	<100	<0.05	<0.01	<0.05	0.11	100	0.9	130	2500	7.26	1200	200	<1	1800	28.3	1.68	0.551
	11-30-21	130000	5300	360000	25000	220	730	200	25	<0.010	<100	<0.050	<0.010	<0.050	0.093	8.4	0.9	110	2300	7.33	990	210	<1.0	1600	25.2	1.310	0.599
	11-28-22	90000	4700	400000	23000	190	820	160	26	<0.010	<100	<0.050	<0.010	<0.050	0.054	26	1.9	91	2200	7.61	1100	190	<1.0	1600	25.3	1.23	0.862
	12-03-23[FD]	130000	5600	400000	25000	180	780	210	26	<0.010	<100	<0.050	<0.010	<0.050	0.079	43	1.1	110	2400	7.39	1100	180	<1.0	1700	25.8	4.59	0.632
	12-03-23	130000	5700	400000	24000	180	770	210	27	<0.010	<100	<0.050	<0.010	<0.050	<0.050	51	1.4	100	2400	7.45	1100	180	<1.0	1700	25.7	4.61	0.691
	11-13-24	110000	5500	430000	24000	170	840	230	25	<0.010	<100	<0.050	<0.010	<0.050	0.067	75	0.91	100	2400	7.63	1200	170	<1.0	1800	27.3	3.18	0.866
	11-14-25	460000	9600	470000	29000	170	670	850	24	<0.010	<100	<0.050	<0.010	<0.050	0.25	80	1.3	220	4400	7.52	1300	170	<1.0	2600	41.4	5.95	0.742
MSES-012-MWA (3.42 m)	03-15-13	290000	4900	240000	19000	180	510	360	35	<0.01	<100	0.43	<0.01	0.43	<0.05	17	0.85	5.5	2600	7.1	680	180	<1.0	1570	24.3	4.6	0.116
	07-25-13[FD]	198000	4230	242000	24300	200	440	330	37	<0.01	<100	0.23	<0.01	0.23	<0.05	15	0.85	11	2200	7.07	700	200	<1.0	1410	22.7	0.37	0.168
	07-25-13	197000	4170	244000	24500	190	-	330	37	<0.01	<100	0.22	<0.01	0.22	0.052	25	0.91	15	2200	7.19	710	190	<1.0	1470	23.9	1.9	0.259
	11-05-13	200000	4600	240000	25000	200	570	280	37	<0.01	<100	0.19	<0.01	0.19	0.33	70	1.5	49	2200	6.91	720	200	<1.0	1500	23.9	0.97	0.005
	12-16-14	150000	3500	290000	26000	180	49	230	43	18	<100	0.052	<0.01	<0.01	0.088	46	1.3	18	2100	6.9	220	180	<1	290	21.5	0.29	0.022
	12-3-15	180000	3700	350000	29000	180	600	320	47	0.035	<100	0.14	0.014	0.16	0.12	<5.0	0.88	3.5	2500	7.26	980	180	<1.0	1600	25.2	4.65	0.438
	11-22-16	140000	3300	330000	33000	200	740	170	45	0.031	<100	0.5	<0.010	0.5	<0.050	<5.0	1.3	20	2200	7.02	970	200	<1.0	1600	24.2	2.81	0.232
	12-13-17	190000	3700	290000	23000	190	600	300	44	<0.010	<100	0.091	<0.010	0.091	<0.050	<5.0	1.5	8.7	2200	7.17	810	190	<1.0	1600	24.6	0.220	0.287
	12-10-18	110000	2400	230000	22000	200	540	140	42	<0.010	<100	0.78	<0.010	0.78	<0.050	<5.0	1.3	5.2	1700	7.56	660	200	<1.0	1200	19.4	3.69	0.635
	12-5-19	150000	3100	220000	22000	210	430	240	37	<0.010	<100	0.67	<0.010	0.67	<0.050	<5.0	1.3	22	1900	7.64	630	210	<1.0	1200	19.9	1.37	0.711
	11-25-20	330000	4700	340000	30000	200	630	540	40	<0.010	<100	0.13	0.011	0.15	<0.05	<5.0	0.96	14	3300	7.07	980	200	<1	2000	32.3	2.42	0.251
	11-30-21	220000	3600	280000	24000	190	630	270	41	0.011	<100	0.97	<0.010	0.97	0.055	<5.0	1.5	7.1	2400	7.2	800	190	<1.0	1600	24.8	1.80	0.321
	12-3-22	200000	3200	250000	22000	210	480	280	40	<0.010	<100	0.52	<0.010	0.52	0.052	<5.0	2.3	7.9	2200	7.76	710	210	1.1	1400	22.3	1.22	0.879
	11-29-23	210000	3600	250000	26000	200	450	290	41	0.013	<100	0.82	<0.010	0.82	<0.050	<5.0	1.9	27	2300	7.30	720	200	<1.0	1400	21.4	5.22	0.399
	11-13-24	280000	4400	270000	28000	200	380	500	42	<0.010	<100	0.37	<0.010	0.37	0.13	<5.0	1.1	2.4	2700	7.58	790	200	<1.0	1600	26.0	3.71	0.690
	11-14-25	740000	7200	250000	22000	180	380	1100	39	<0.010	<100	0.075	<0.010	0.075	0.071	17	3.4	28	4700	7.54	720	180	<1.0	2700	43.5	3.77	0.497
MSES-104-MWA [14] (2.28 m)	03-28-13	17000	5600	410000	38000	67	1100	53	4.8	<0.01	<100	<0.05	<0.01	<0.05	0.25	15	16	960	2000	7.60	1200	67	<1	1700	26.4	3.94	0.409
	12-10-14	29000	7700	530000	44000	59	1400	56	5.4	<10	<100	<0.05	0.011	<0.05	0.44	<5	1	12	2300	7.61	1500	59	<1	2100	30.9	1.42	0.432
	12-3-15	30000	8500	510000	42000	48	1200	62	4.6	0.012	110	<0.050	0.01	<0.050	0.62	<5.0	1.3	1.9	2300	8.07	1500	47	<1.0	1900	27.7	5.16	0.818
	11-25-16	28000	9300	470000	31000	35	1100	55	3.4	0.013	<100	<0.050	<0.010	<0.050	0.55	<5.0	1.7	13	2000	7.5	1300	35	<1.0	1700	25.2	4.18	0.087
	12-13-17	32000	9200	560000	37000	35	1400	55	3.1	0.012	<100	<0.050	<0.010	<0.05	0.61	<5.0	1.6	0.6	2400	7.6	1500	35	<1.0	2100	30.4	3.30	0.244
	12-10-18	29000	8900	440000	28000	29	1200	47	2.5	0.012	<100	<0.050	<0.010	<0.050	0.64	<5.0	1.7	1.4	2100	7.45	1200	29	<1.0	1800	26.6	1.41	-0.0730
	12-2-19[FD]	30000	9500	460000	30000	30	1100	47	2.4	0.012	<100	<0.10	<0.010	<0.10[11]	0.63	<5.0	1.8	3.7	2100	8.27	1300	29	<1.0	1700	25.4	2.79	0.770
	12-2-19	30000	9500	460000	30000	29	1100	47	2.1	0.012	<100	0.084	<0.010	0.084	0.62	<5.0	1.9	5.3	2100	8.07	1300	29	<1.0	1700	25.3	3.22	0.570
	11-26-20[FD]	32000	10000	530000	31000	30	1,500	46	2.3	<0.010	<100	<0.05	<0.01	<0.05	0.78	<5.0	1.8	0.61	2300	8.11	1500	29	<1	2,200	33.8	4.7	0.635
	2020-11-26	33000	10000	530000	32000	34	1,500	46	2.4	<0.010	<100	<0.05	<0.01	<0.05	0.81	<5.0	1.7	0.77	2300	8.16	1500	33	<1	2,200	33.5	4.07	0.746
	2021-12-01	30000	10000	480000	32000	28	1,200	45	2.3	<0.010	<100	<0.05	<0.01	<0.05	0.81	<5.0	1.7	3.7	2200	7.79	1300	28	<1	1,800	26.1	4.13	0.292
	2022-11-25	27000	9900	490000	35000	28	1400	39	2.2	<0.010	<100	<0.050	<0.010	<0.050	0.96	<5.0	3.0	0.35	2200	7.65	1400	28	<1.0	2000	29.8	1.92	0.139
	12-01-23	24000	11000	430000	26000	11	1100	25	1.9	<0.010	<100	<0.050	<0.010	<0.050	0.71	<5.0	2.2	4.7	2000	7.50	1200	11	<1.0	1600	23.3	3.86	-0.449
	11-14-24	25000	11000	520000	35000	12	1300	46	1.9	<0.010	<100	<0.050	<0.010	<0.050	1.0	<5.0	1.5	2.5	2300	7.51	1400	12	<1.0	1900	28.3	3.51	-0.337
	11-14-25	30000	11000	520000	37000	12	1200	51	1.4	<0.010	<100	<0.050	<0.010	<0.050	1.0	<5.0	3.1	7.3	2300	7.28	1500	11	<1.0	1900	27.2	6.32	-0.577
MSES-104-MWB [14] (2.62 m)	03-26-13	170000	12000	420000	200000	320	2200	70	18	<0.01	<1000	<0.05	<0.01	<0.05	0.55	54	3.5	92	3500	6.9	1900	320	<1	3370	53.9	8.24	0.299
	07-24-13	189000	11900	426000	208000	350	2100	73	12	<0.01	<100	<0.05	<0.01	<0.05	0.45	190	3.7	77	3500	6.86	1900	350	<1	3340	53.1	5.81	0.302
	11-05-13[FD]	190000	12000	400000	200000	370	2000	71	13	<0.01	<100	<0.05	<0.01	<0.05	0.42	30	3.8	100	3500	6.88	1800	370	<1	3200	50.6	5.3	0.33
	11-05-13	190000	12000	390000	200000	370	2000	73	13	<0.01	<100	<0.05	<0.01	<0.05	0.42	40	4.1	99	3400	6.80	1800	370	<1	3200	51.8	6.56	0.242
	12-10-14	170000	13000	440000	210000	330	1800	70	14	<10	<100	<0.05	<0.01	<0.05	0.57	190	3.5	55	3400	6.67	2000	330	<1	3000	46.3	1.16	0.432
	12-3-15	180000	13000	390000	190000	430	1000	77	13	0.016	<100	<0.050	0.014	<0.050	0.59	18	4.0	58	3400	7.00	1800	430	<1.0	2200	31.5	16.2	0.562
	11-25-16	160000	14000	380000	140000	570	1100	75	11	0.013	<100	<0.050	<0.010	<0.050	0.54	9.1	5.3	33	2700	6.96	1500	570	<1.0	2300	37.2	0.93	0.622
	12-13-17	150000	12000	370000	170000	410	1700	78	12	<0.010	<1000	<0.050	<0.010	<0.050	0.49	13	4.0	50	3400	7.07	1600	410	<1.0	2800	45.4	7.09	0.556
	12/10/18[FD]	140000	12000	400000	180000	340	1700	68	13	<0.010	<100	<0.050	<0.010	<0.050	0.60	110	3.5	68	3500	7.02	1800	340	<1.0	2800	43.6	1.99	0.463
	12-10-18	140000	12000	400000	180000	340	1700	70	13	<0.010	<100	<0.050	<0.010	<0.050	0.62	130	3.5	72	3400	6.91	1800	340	<1.0	2800	44.7	3.08	0.342
	12-2-19	150000	13000	380000	160000	490	1400	61	12	<0.010	<100	0.063	<0.010	0.063	0.51	39	5.4	45	3100	6.97	1600	490	<1.0	2500	41.2	3.07	0.554
	11-26-20	150000	13000	400000	170000	430	1800	63	12	<0.010	<100	<0.05	<0.01	<0.05	0.58	120	4.1	45	3300	6.9	1700	430	<1	3000	48.3	7.28	0.435
	2021-12-01[FD]	140000	13000	400000	170000	360	1600	62	13	<0.0010	<100	<0.050	<0.010	<0.050	0.53	35	3.7	59	3200	7.01	1700	360	<1.0	2700	43.2	2.98	0.48
	12-1-21	140000	13000	400000	170000	360	1700	62	13	<0.010	<100	<0.05	<0.01	<0.05	0.54	24	3.7	58	3300	7.14	1700	360	<1	2800	43.9	4.06	0.601
	11-25-22	140000	12000	400000	180000	330	1700	63	12	<0.010	<100	<0.050	<0.010	<0.050	0.56	32	6.2 (12)	66	3400	7.43	1700	330	<1.0	2800	44.0	3.57	0.852
	12-01-23	140000	14000	390000	150000	430	1300	60	10	<0.010	<100	<0.050	<0.010	<0.050	0.49	48	6.4[9]	29	3100	7.19	1600	430	<1.0	2400	37.8	0.570	0.746
	11-14-24	140000	13000	390000	150000	440	1300	69	13	<0.010	<100	<0.050	<0.010	<0.050	0.56	6.1	5.9	45	3000	7.41	1600	440	1.1	2400	37.8	0.900	0.967
	11-14-25	130000	14000	350000	120000	580	900	65	8.9	<0.010	<100	<0.050	<0.010	<0.050	0.62	7.8	8.4[12]	50	2700	7.62	1400	580	2.3	2000	32.3	2.28	1.28

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
MSES-006-MW (2.92 m)	07-24-13	0.037	6.51	6.75	35.9	<1	1.5	13.9	<1	<2	309	0.083	<1	5.29	<2	1940	<0.5	50300	NM	<2	12.6	<1	<0.1	3610	<0.1	<2	<2	4.95	<2	55.9
	11-05-13	-0.041	6.54	6.78	11	<1	1.8	13	<1	<2	300	0.027	<1	5.4	<2	2200	<0.5	60000	NM	<2	14	<1	<0.1	3600	<0.1	<2	<2	4.4	<2	89
	12-10-14	0.667	6.58	6.83	34	<1	1.1	23	<1	<2	100	0.11	<1	<0.4	<2	160	<0.5	1900	<0.013	<2	<2	<1	<0.1	770	<0.1	<2	<2	4.3	4.4	6.2
	12-3-15	0.662	6.51	6.76	11	<1.0	<1.0	22	<1.0	<2.0	100	<0.010	<1.0	<0.40	<2.0	<50	<0.50	1800	<0.013	<2.0	<2.0	13	<0.10	810	<0.10	<2.0	<2.0	4.2	4.8	<5.0
	11-25-16	0.085	6.48	6.73	<5.0	<1.0	2.2	13	<1.0	<2.0	330	0.012	<1.0	4.6	<2.0	1900	<0.50	54000	<0.013	<2.0	13	<1.0	<0.10	3600	<0.10	<2.0	<2.0	4.4	<2.0	250
	12-13-17	-0.181	7.34	7.59	8.9	<1.0	1.9	23	<1.0	<2.0	<50	0.013	1.1	<0.40	<2.0	<50	<0.50	86	<0.013	<2.0	<2.0	1.2	<0.10	330	<0.10	<2.0	<2.0	3.6	30	<5.0
	12-10-18	0.285	6.49	6.73	<5.0	<1.0	<1.0	11	<1.0	<2.0	320	0.30	<1.0	3.3	<2.0	1100	<0.50	47000	<0.013	<2.0	8.4	<1.0	<0.10	3400	<0.10	<2.0	<2.0	4.4	<2.0	<5.0
	12-2-19	0.008	7.04	7.28	12	<1.0	<1.0	20	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	790	<0.50	770	<0.013	<2.0	<2.0	0.75	<0.10	480	<0.10	<2.0	<2.0	4.0	13	<5.0
	11-26-20	-0.088	6.72	6.96	22	<1.0	<1.0	18	<1.0	<2.0	64	0.017	<1.0	<0.40	<0.50	400	<0.50	3800	<0.013	<2.0	<2.0	<0.50	<0.10	730	<0.10	<2.0	<2.0	5	6.4	<5.0
	12-8-21	0.432	6.5	6.74	14	<1.0	1.1	12	<0.10	<2.0	310	0.22	<1.0	3	<0.50	1000	<0.50	46000	<0.013	<2.0	8	<0.50	<0.10	3600	<0.10	<2.0	<2.0	4.5	<2.0	5.6
	11-25-22	1.27	6.55	6.79	17	<1.0	1.6	13	<0.10	<2.0	320	0.24	2.1	3.6	2.7	1100	<0.50	44000	<0.013	<2.0	12	<0.50	<0.10	3700	<0.10	<2.0	<2.0	4.8	<2.0	<5.0
	12-1-23	1.04	6.29	6.54	<5.0	<1.0	<1.0	18	<0.10	<2.0	160	<0.010	<1.0	<0.40	<0.50	280	<0.50	3100	<0.013	<2.0	<2.0	0.68	<0.10	1100	<0.10	<2.0	<2.0	4.8	3.7	<5.0
	11-14-24	1.08	6.61	6.86	8.7	<1.0	<1.0	17	<0.10	<2.0	100	0.015	<1.0	<0.40	<0.50	1800	<0.50	1300	<0.013	<2.0	<2.0	<0.50	<0.10	640	<0.10	<2.0	<2.0	4.2	2.6	<5.0
	11-14-25	0.983	6.48	6.72	6.9	<1.0	<1.0	21	<0.10	<2.0	110	<0.010	<1.0	<0.40	<0.50	<50	<0.50	1900	-	<2.0	<2.0	0.59	<0.10	720	<0.10	<2.0	<2.0	4.3	3.1	<5.0
MSES-008-MW (4.11 m)	03-26-13	0.307	6.75	6.99	<50	<10	16	8.1	<5	<20	<1000	<0.17	<10	<10	<20	13000	<10	1400	<0.013	<40	<30	<10	<1.0	660	<8	<200	<30	<1.5	<20	69
	07-26-13	0.228	6.78	7.02	10.7	<1.0	11.6	8.3	<1.0	<2.0	68	0.107	<1.0	<0.4	<2.0	12200	<0.50	1190	NM	3.2	<2.0	<1.0	<0.10	707	<0.10	<2.0	<2.0	0.72	<2.0	19
	11-15-13	0.164	6.7	6.95	9.3	<1.0	11	9.9	<1.0	<2.0	66	0.073	<1	<0.40	<2.0	9200	<0.50	820	NM	2.9	<2.0	<1.0	<0.10	660	<0.10	<2.0	<2.0	0.68	<2.0	72
	12-10-14	-0.024	6.74	6.98	100	<1	14	7.9	<1	<2	70	0.082	<1	<0.4	<2	15000	<0.5	1200	<0.013	3.1	<2	<1	<0.1	590	<0.1	<2	<2	0.6	<2	41
	12-3-15[FD]	0.432	6.72	6.96	5.2	<1.0	10	7.5	<1.0	<2.0	63	0.01	<1.0	<0.40	<2.0	9200	<0.50	650	<0.013	2.3	<2.0	<1.0	<0.10	490	<0.10	<2.0	<2.0	0.55	<2.0	39
	12-3-15	0.369	6.71	6.96	5.0	<1.0	10	7.7	<1.0	<2.0	67	0.016	<1.0	<0.40	<2.0	9200	<0.50	650	<0.013	2.4	<2.0	<1.0	<0.10	490	<0.10	<2.0	<2.0	0.55	<2.0	38
	11-25-16[FD]	0.181	6.68	6.93	6.8	<1.0	11	8.6	<1.0	<2.0	67	0.027	<1.0	<0.40	<2.0	11000	<0.50	990	<0.013	3	<2.0	<1.0	<0.10	600	<0.10	<2.0	<2.0	0.74	<2.0	100
	11-25-16	0.174	6.67	6.92	6.2	<1.0	12	8.7	<1.0	<2.0	66	0.013	<1.0	<0.40	<2.0	12000	<0.50	1000	<0.013	3	<2.0	<1.0	<0.10	600	<0.10	<2.0	<2.0	0.74	<2.0	110
	12-13-17	0.323	6.77	7.01	<5.0	<1.0	11	7.8	<1.0	<2.0	65	0.025	<1.0	<0.40	<2.0	13000	<0.50	1100	<0.013	2.4	<2.0	<1.0	<0.10	570	<0.10	<2.0	<2.0	0.57	<2.0	38
	12-10-18	0.135	6.77	7.01	<5.0	<1.0	11	7.9	<1.0	<2.0	71	<0.010	<1.0	<0.40	<2.0	10000	<0.50	920	<0.013	2.7	<2.0	<1.0	<0.10	520	<0.10	<2.0	<2.0	0.52	<2.0	40
	12-2-19	0.395	6.74	6.98	<5.0	<1.0	12	7.8	<1.0	<2.0	63	0.017	<1.0	<0.40	<0.50	10000	<0.50	780	<0.013	2.7	3.3	<0.50	<0.10	550	<0.10	<2.0	<2.0	0.56	<2.0	28
	11-26-20	0.308	6.71	6.95	5.5	<1.0	10	8	<1.0	<2.0	60	<0.010	<1.0	<0.40	<0.50	8600	<0.50	620	<0.013	2.8	<2.0	<0.50	<0.10	610	<0.10	<2.0	<2.0	0.61	<2.0	45
	11-30-21	0.355	6.73	6.98	17	<1.0	12	7.7	<0.10	<2.0	63	<0.010	<1.0	<0.40	<0.50	8100	>0.50	630	<0.013	3.2	<2.0	<0.50	<0.10	540	<0.10	<2.0	<2.0	0.52	<2.0	34
	11-28-22	0.618	6.75	6.99	17	<1.0	12	8.1	<0.10	<2.0	69	0.033	<1.0	<0.40	2.9	8400	<0.50	610	<0.013	3.0	2.2	<0.50	<0.10	590	<0.10	<2.0	<2.0	0.63	<2.0	54
	12-03-23[FD]	0.388	6.76	7.00	<5.0	<1.0	12	8.8	<0.10	<2.0	65	<0.010	<1.0	<0.40	<0.50	8000	<0.50	610	<0.013	3.2	2.2	<0.50	<0.10	640	<0.10	<2.0	<2.0	0.63	<2.0	60
	12-03-23	0.447	6.76	7.00	<5.0	<1.0	12	9.1	<0.10	<2.0	66	0.010	<1.0	<0.40	<0.50	8000	<0.50	610	<0.013	3.2	2.3	<0.50	<0.10	640	<0.10	<2.0	<2.0	0.61	<2.0	62
	11-13-24	0.622	6.77	7.01	8.6	<1.0	11	8.4	<0.10	<2.0	62	0.036	<1.0	<0.40	<0.50	7800	<0.50	550	<0.013	3.2	3.3	<0.50	<0.10	670	<0.10	<2.0	<2.0	0.66	<2.0	57
	11-14-25	0.500	6.78	7.02	<5.0	<1.0	12	13	<0.10	<2.0	64	<0.010	<1.0	<0.40	<0.50	14000	<0.50	1100	-	3.0	<2.0	<0.50	<0.10	810	<0.10	<2.0	<2.0	0.55	<2.0	48
MSES-012-MWA (3.42 m)	03-15-13	-0.129	6.98	7.23	14	<1.0	1.4	4.7	<0.5	<2.0	<100	0.039	<1.0	<1.0	<2.0	750	<1.0	110	<0.013	<4	3.3	9.3	<0.1	300	<0.8	<20	<3.0	0.3	2.5	58
	07-25-13[FD]	-0.077	6.9	7.15	12.6	<1.0	<1.0	6.7	<1.0	<2.0	<50	0.028	<1.0	<0.40	<2.0	1960	<0.50	230	NM	<2.0	<2.0	6.7	<0.1	315	<0.1	<2.0	<2.0	0.34	<2.0	92
	07-25-13	0.015	6.93	7.18	21.4	<1.0	<1.0	7.1	<1.0	<2.0	<50	0.054	<1.0	<0.40	<2.0	2190	<0.50	253	NM	<2.0	2.1	6.6	<0.1	316	<0.1	<2.0	<2.0	0.31	<2.0	103
	11-05-13	-0.240	6.91	7.15	17	<1.0	2.4	4.9	<1.0	<2.0	<50	0.069	<1.0	<0.40	<2.0	4800	<0.50	670	NM	<2.0	2.2	4.3	<0.1	300	<0.1	<2.0	<2.0	0.31	<2.0	190
	12-16-14	-0.222	6.88	7.13	26	<1	<1	5.3	<1	<2	<50	0.37	<1	<0.4	3.7	1800	<0.5	230	<0.013	<2	<2	6.2	<0.1	320	<0.1	<2	<2	0.33	<2	52
	12-3-15	0.194	6.82	7.06	5.7	<1.0	<1.0	5.7	<1.0	<2.0	<50	0.042	<1.0	<0.40	<2.0	90	<0.50	20	<0.013	<2.0	<2.0	3.5	<0.10	410	<0.10	<2.0	<2.0	0.43	<2.0	39
	11-22-16	-0.013	6.79	7.03	9.7	<1.0	<1.0	6.5	<1.0	<2.0	<50	0.066	<1.0	<0.40	20	180	<0.50	81	<0.013	<2.0	<2.0	13	<0.10	400	<0.10	<2.0	<2.0	0.47	<2.0	82
	12-13-17	0.042	6.88	7.12	7.0	<1.0	<1.0	4.7	<1.0	<2.0	<50	0.025	<1.0	<0.40	<2.0	670	<0.50	95	<0.013	<2.0	<2.0	3.5	<0.10	340	<0.10	<2.0	<2.0	0.38	<2.0	42
	12-10-18	0.390	6.92	7.17	<5.0	<1.0	<1.0	4.7	<1.0	<2.0	<50	0.026	<1.0	<0.40	3.6	480	<0.50	93	<0.013	<2.0	<2.0	15	<0.10	270	<0.10	<2.0	<2.0	0.33	<2.0	47
	12-5-19	0.466	6.93	7.17	8.1	<1.0	<1.0	5.0	<1.0	<2.0	<50	0.17	<1.0	<0.40	1.6	1200	<0.50	160	<0.013	<2.0	7.1	10	<0.10	280	<0.10	<2.0	<2.0	0.32	<2.0	41
	11-25-20	0.008	6.82	7.07	5.8	<1.0	<1.0	7.6	<1.0	<2.0	<50	0.054	<1.0	<0.40	3	58	<0.50	32	<0.013	<2.0	<2.0	6.8	<0.10	450	<0.10	<2.0	<2.0	0.43	<2.0	35
	11-30-21	0.076	6.88	7.12	47.0	<1.0	<1.0	7.6	<0.10	<2.0	<50	0.056	<1.0	<0.40	3.5	84	0.77	14	<0.013	<2.0	35	18	<0.10	360	<0.10	<2.0	<2.0	0.38	<2.0	48
	12-3-22	0.634	6.88	7.13	5.9	<1.0	<1.0	6.4	<0.10	<2.0	<50	0.020	<1.0	<0.40	3.9	200	<0.50	47	<0.013	<2.0	6.9	11	<0.10	310	<0.10	<2.0	<2.0	0.39	<2.0	85
	11-29-23	0.154	6.91	7.15	<5.0	<1.0	<1.0	8.1	<0.10	<2.0	<50	0.025	<1.0	<0.40	13	250	<0.50	76	<0.013	<2.0	2.6	16	<0.10	340	<0.10	<2.0	<2.0	0.42	<2.0	55
	11-13-24	0.446	6.89	7.13	5.7	<1.0	<1.0	8.0	<0.10	<2.0	<50	0.013	<1.0	<0.40	<0.50	84	<0.50	20	<0.013	<2.0	2.5	5.8	<0.10	390	<0.10	<2.0	<2.0	0.38	<2.0	17
	11-14-25	0.255	7.04	7.28	<5.0	<1.0	1.7	9.2	<0.10	<2.0	<50	0.011	<1.0	<0.40	<0.50	1000	<0.50	110	-	<2.0	<2.0	0.71	<0.10	440	<0.10	<2.0	<2.0	0.28	<2.0	80
MSES-104-MWA [14] (2.28 m)	03-28-13	0.165	7.19	7.44	8.9	<1	1.8	12	<0.5	<2	<100	<0.017	<1	<1	<2	1600	<1	400	0.28	<4	<3	3.4	<0.1	420	<0.8	<20	<3	<0.15	6.9	<5
	12-10-14	0.217	7.15	7.4	11	<1	1.8	16	<1	<2	<50	0.065	<1	<0.4	<2	890	<0.5	220	<0.013	5.6	<2	<1	<0.1	540	<0.1	<2	<2	<0.1	<2	<5
	12-3-15	0.574	7.26	7.5	<5.0	<1.0	1.5	20	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	580	<0.50	190	<0.013	5.7	<2.0	<1.0	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-25-16	-0.157	7.42	7.66	33	<1.0	1.4	17	<1.0	<2.0	<50	0.64	<1.0	<0.40	<2.0	300	<0.50	100	<0.013	6.3	<2.0	<1.0	<0.10	520	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-13-17	0.000	7.36	7.60	<5.0	<1.0	1.4	17	<1.0	<2.0	<50	0.054	<1.0	<0.40	<2.0	200	<0.50	91	<0.013	6.8	<2.0	<1.0	<0.10	590	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-10-18	-0.317	7.52	7.77	<5.0	<1.0	1.4	15	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	120	<0.50	64	<0.013	6.5	<2.0	<1.0	<0.10	510	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-2-19[FD]	0.526	7.50	7.75	<5.0	<1.0	1.7	15	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	83	<0.50	68	**6.2**	<2.0	**9500**	<0.50	<0.10	530	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-2-19	0.326	7.50	7.75	5.9	<1.0	1.7	16	<1.0	<2.0	<50	0.069	<1.0	<0.40	<0.50	86	<0.50	67	<0.013	6.0	<2.0	<0.50	<0.10	530	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-26-20[FD]	0.392	7.47	7.72	5.8	<1.0	1.3	18	<1.0	<2.0	<50	0.019	<1.0	<0.40	<0.50	130	<0.50	61	<0.013	7.6	<2.0	<0.50	<0.10	600	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	2020-11-26	0.503	7.42	7.66	<5.0	<1.0	1.3	18	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	130	<0.50	62	<0.013	7.6	<2.0	<0.50	<0.10	610	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	2021-12-01	0.048	7.5	7.74	<5.0	<1.0	1.2	18	<0.10	<2.0	<50	0.096	<1.0	<0.40	<0.50	110	<0.50	100	<0.013	6.4	<2.0	<0.50	<0.10	580	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	2022-11-25	-0.105	7.51	7.75	<5.0	<1.0	1.2	19	<0.10	<2.0	<50	0.024	<1.0	<0.40	<0.50	130	<0.50	67	<0.013	6.5	<2.0	<0.50	<0.10	580	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-01-23	-0.693	7.95	8.19	<5.0	<1.0	1.0	17	<0.10	<2.0	<50	0.011	<1.0	<0.40	<0.50	60	<0.50	140	<0.013	5.7	<2.0	<0.50	<0.10	540	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-14-24	-0.580	7.85	8.09	<5.0	<1.0	1.1	19	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	71	<0.50	63	<0.013	6.3	<2.0	<0.50	<0.10	630	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-14-25	-0.820	7.86	8.10	7.0	<1.0	1.5	20	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	150	<0.50	80	-	6.2	<2.0	<0.50	<0.10	600	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
MSES-104-MWB [14] (2.62 m)	03-26-13	0.058	6.6	6.84	400	<10	<6	19	<5	<20	<1000	<0.17	<10	44	<20	13000	<10	83000	0.014	<40	48	<10	<1	2300	<8	<200	<30	<1.5	<20	110
	07-24-13	0.061	6.56	6.8	239	<1	4.2	17.5	<1	<2	187	0.071	<1	23.8	<2	9590	<0.5	75000	NM	<2	33.9	<1	<0.1	2230	<0.1	<2	<2	1.26	<2	45.2
	11-05-13[FD]	0.088	6.55	6.79	110	<1	4.9	16	<1	<2	200	0.085	<1	7.1	<2	7000	<0.5	73000	NM	<2	25	<1	<0.1	2100	<0.1	<2	<2	1.3	<2	110
	11-05-13	0.000	6.56	6.8	150	<1	5.0	16	<1	<2	200	0.07	<1	7.3	<2	7100	<0.5	74000	NM	<2	30	<1	<0.1	2100	<0.1	<2	<2	1.3	<2	110
	12-10-14	-0.13	6.56	6.8	550	<1	4.4	17	1.1	<2	200	0.14	<1	50	<2	11000	<0.5	88000	<0.013	<2	62	<1	<0.1	2400	<0.1	<2	<2	1.2	<2	34
	12-3-15	0.319	6.44	6.68	96	<1.0	4.7	16	<1.0	<2.0	200	0.076	<1.0	8.1	<2.0	5100	<0.50	68000	<0.013	<2.0	25	<1.0	<0.10	2100	<0.10	<2.0	<2.0	1.6	<2.0	<5.0
	11-25-16	0.379	6.34	6.59	42	<1.0	7.2	18	<1.0	<2.0	210	0.046	<1.0	2.4	<2.0	3500	9.6	37000	<0.013	<2.0	12	<1.0	<0.10	1600	<0.10	<2.0	<2.0	2	<2.0	<5.0
	12-13-17	0.313	6.52	6.76	89	<10	<10	15	<10	<20	<500	<0.10	<10	8.7	<20	4300	<5.0	63000	<0.013	<20	31	<10	<1.0	1900	<1.0	<20	<20	1.7	<20	<50
	12/10/18[FD]	0.221	6.56	6.80	750	<1.0	3.6	17	1.3	<2.0	190	0.14	<1.0	59	<2.0	6900	<0.50	84000	<0.013	<2.0	73	<1.0	<0.10	2100	<0.10	<2.0	<2.0	1.4	<2.0	42
	12-10-18	0.100	6.57	6.81	720	<1.0	3.6	18	1.3	<2.0	190	0.13	<1.0	59	<2.0	6800	<0.50	84000	<0.013	<2.0	72	<1.0	<0.10	2100	<0.10	<2.0	<2.0	1.5	<2.0	41
	12-2-19	0.312	6.42	6.66	56	<1.0	3.9	17	<1.0	<2.0	200	0.11	<1.0	4.9	<0.50	3500	<0.50	51000	<0.013	<2.0	20	<0.50	<0.10	1800	<0.10	<2.0	<2.0	2.1	2.0	<5.0
	11-26-20	0.193	6.47	6.71	140	<1.0	2.8	17	<1.0	<2.0	190	0.074	<1.0	20	<0.50	5200	<0.50	69000	<0.013	<2.0	34	<0.50	<0.10	2000	<0.10	<2.0	<2.0	1.8	<2.0	<5.0
	2021-12-01[FD]	0.237	6.53	6.77	280	<1.0	3.1	18	0.54	<2.0	180	0.077	<1.0	30	<0.50	5200	<0.50	72000	0.013	<2.0	48	<0.50	<0.10	2000	<0.10	<2.0	<2.0	1.7	<2.0	12
	12-1-21	0.359	6.54	6.78	280	<1.0	3	18	0.53	<2.0	190	0.081	<1.0	30	<0.50	5300	<0.50	72000	<0.013	<2.0	48	<0.50	<0.10	2000	<0.10	<2.0	<2.0	1.7	<2.0	12
	11-25-22	0.610	6.58	6.82	170	<1.0	2.5	18	0.42	<2.0	180	0.060	<1.0	30	<0.50	5300	<0.50	74000	<0.013	<2.0	44	<0.50	<0.10	2100	<0.10	<2.0	<2.0	1.7	<2.0	7.0
	12-01-23	0.504	6.45	6.69	73	<1.0	4.1	18	0.23	<2.0	200	0.029	<1.0	8.6	<0.50	3300	<0.50	49000	<0.013	<2.0	22	<0.50	<0.10	1600	<0.10	<2.0	<2.0	2.4	<2.0	5.1
	11-14-24	0.725	6.45	6.69	40	<1.0	3.2	17	0.19	<2.0	190	<0.010	<1.0	3.8	<0.50	3600	<0.50	52000	<0.013	<2.0	18	<0.50	<0.10	1700	<0.10	<2.0	<2.0	2.1	<2.0	<5.0
	11-14-25	1.04	6.33	6.58	25	<1.0	5.1	18	<0.10	<2.0	200	0.037	<1.0	1.6	<0.50	3500	<0.50	29000	-	<2.0	10	<0.50	<0.10	1300	<0.10	<2.0	<2.0	3.2	<2.0	<5.0

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4 (ORTHOPHOSPHATE)	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURBIDITY	CONDUCTIVITY	pH	HARDNESS	BICARB ALK	CARB ALK	TDS	Anion Sum	Ion Bal_	Langelier Ind_ (@20C)
Units		µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	me/L	%	unitless
MECP Table 3[2]		2300000	-	-	-	-	-	2300000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCU11-001-MWA (2.28 m)	03-29-13	53000	5400	120000	14000	130	42	220	7.3	<0.01	<100	0.058	<0.01	0.058	<0.05	<5	0.89	>1000	1000	8.1	340	120	1.5	534	9.65	1.74	0.781
	07-17-13	55500	6280	132000	15600	97	39	260	8.4	<0.01	<100	<0.05	<0.01	<0.05	<0.05	<5	<50	>1000	1200	7.66	390	96	<1	570	9.95	2.31	0.28
	10-24-13	250000	5300	66000	9000	170	520	49	8.0	0.20	260	<0.05	0.016	0.066	1.2	<5	<5	85	1500	7.72	200	170	<1	1000	15.6	2.13	0.213
	12-15-14	64000	6900	170000	19000	110	37	310	9.4	<10	<100	0.17	0.024	0.19	0.12	<5	<0.5	3.3	1400	7.52	490	110	<1	690	11.9	3.68	0.432
	12-11-15	27000	6100	62000	6800	110	6.1	170	6.2	0.15	240	0.11	0.016	0.12	2.7	6.6	NM	3.2	780	7.64	180	110	<1.0	350	7.04	15.4	0.022
	11-23-16	51000	8000	140000	16000	160	6.8	320	9	0.55	780	<0.050	0.016	<0.050	2.7	8.1	7.1	8.2	1300	7.45	430	160	<1.0	660	12.3	4.98	0.303
	12-13-17	43000	8100	130000	14000	230	11	210	11	0.68	820	0.16	<0.010	0.16	7.1	8.3	3.0	4.5	1100	7.71	380	230	1.1	580	10.8	3.30	0.690
	12-10-18	70000	10000	190000	21000	170	11	410	11	<0.010	380	0.83	0.50	1.3	2.7	<5.0	3.3	8.7	1600	7.57	550	170	<1.0	830	15.3	2.41	0.559
	12-05-19	28000	7900	88000	8900	240	2.2	140	6.7	2.2	3100	0.20	0.019	0.22	22	25	11	21	890	7.70	260	240	1.1	460	8.94	4.81	0.556
	11-25-20	70000	8000	180000	20000	220	5	340	11	0.38	1100	0.32	0.039	0.36	4.7	8	<509	23	1500	7.39	520	220	<1	770	14	0.32	0.463
	12-02-21	74000	7900	180000	22000	170	<2.0	350	12	0.1	1000	0.07	0.012	0.078	3.8	7.9	4.9	15	1600	7.58	550	170	<1.0	760	13.2	5.64	0.560
	11-22-22	83000	9100	200000	23000	200	2.6	370	11	0.41	<100	0.36	0.053	0.41	6.0	12	6.7	12	1800	7.59	600	200	<1.0	830	14.4	6.40	0.662
	11-27-23	76000	8700	200000	24000	180	3.3	370	11	0.12	1100	0.12	0.014	0.14	6.1	14	92 [9]	64	1700	7.63	590	180	<1.0	820	14.3	5.53	0.660
	11-14-24	76000	8200	210000	24000	170	3.0	420	11	0.18	610	0.76	0.016	0.78	3.6	10	<5.0 [9]	31	1700	7.86	620	160	1.1	870	15.4	2.72	0.862
	11-12-25	76000	8300	200000	23000	150	2.1	360	11	<0.010	240	0.36	0.025	0.38	2.2	7.7	8.7	22	1700	7.60	580	150	<1.0	770	13.2	7.78	0.546
SCU11-001-MWB (1.97 m)	03-29-13	220000	4500	45000	6200	160	440	43	5	<0.01	<100	<0.05	<0.01	<0.05	0.22	<5	1.8	>1000	1200	8.6	140	160	5.8	856	13.5	4.68	0.911
	07-17-13	246000	4620	60300	8370	140	500	51	8	0.026	<100	<0.05	<0.01	<0.05	0.081	<5	<5	240	1400	7.83	190	140	<1	967	14.7	0.79	0.213
	10-24-13	63000	7300	150000	18000	120	38	310	8.7	<0.010	<100	0.1	0.033	0.13	0.13	<5	1.8	>1000	1300	7.64	440	120	<1	670	12.0	1.06	0.377
	12-15-14[FD]	31000	2800	29000	3300	38	13	82	3.4	0.054	110	0.1	0.029	0.13	0.79	8.2	4.7	13	360	6.9	86	38	<1	190	3.35	2.29	-1.44
	12-15-14	31000	2900	29000	3400	39	12	83	3.4	0.054	130	0.075	0.028	0.1	0.74	9.1	4.4	5.1	360	7.02	87	39	<1	190	3.38	2.11	0.432
	12-11-15	22000	4500	17000	2000	40	5.5	48	1.6	0.23	510	<0.050	<0.010	<0.050	1.8	30	NM	3.2	240	7.04	51	40	<1.0	130	2.28	0	-1.48
	11-23-16	28000	8900	29000	3300	59	17	54	2.8	0.75	960	1.5	0.057	1.5	3.8	62	8.1	3.9	320	7.11	87	59	<1.0	190	3.21	3.75	-1.04
	12-13-17	72000	10000	64000	7200	93	27	190	5.8	1.8	2000	<0.050	0.011	<0.050	3.3	44	8.4	2.5	860	7.30	190	92	<1.0	440	7.89	3.20	-0.384
	12-05-18	49000	6000	47000	5200	60	22	150	5.4	0.89	1100	0.13	0.01	0.14	2.5	46	7.1	5.0	630	7.18	140	60	<1.0	330	5.88	5.47	-0.794
	12-5-19[FD]	20000	4700	27000	3100	94	<2.0	38	7.7	0.16	370	<0.050	0.014	<0.050	1.7	61	6.8 [12]	5.2	280	7.44	80	94	<1.0	160	2.97	1.89	-0.531
	12-05-19	20000	4600	27000	3200	94	<2.0	38	7.3	0.14	380	<0.050	0.016	<0.050	1.6	56	5.9	11	280	7.45	81	94	<1.0	170	2.97	1.37	-0.513
	11-25-20	46000	9200	44000	5400	150	9.4	74	11	0.088	210	0.48	0.08	0.56	3	16	<59	10	530	7.56	130	150	<1	390	5.28	2.03	-0.044
	12-02-21	37000	16000	38000	4900	100	12	47	14	1.7	2100	6.5	0.031	6.5	1.6	71	12	41	460	7.30	120	100	<1.0	270	4.18	3.46	-0.524
	12-05-22	11000	4500	16000	1900	45	6.1	20	5.0	0.068	360	1.1	0.11	1.2	1.7	27	5.0 (2)	58	190	7.42	47	45	<1.0	100	1.70	1.16	-1.07
	11-27-23	76000	4900	35000	4400	100	99 [12]	62	6.8	0.050	440	0.17	<0.010	0.17	3.0	26	4.4	13	650	7.71	110	100	<1.0	360	5.92	0.850	-0.163
	11-14-24	190000	4800	57000	7400	120	340	61	8.0	0.16	150	1.3	0.026	1.3	0.14	9.5	2.1	10	1200	8.01	170	110	1.1	740	11.3	1.66	0.306
	11-14-24[FD]	190000	4800	57000	7700	110	340	56	7.8	0.17	160	1.1	0.028	1.2	0.14	9.5	<5.0 [9]	11	1200	7.94	170	110	<1.0	740	11.0	3.63	0.235
	11-12-25	230000	4900	63000	8700	130	450	43	7.7	0.13	120	0.68	<0.010	0.68	<0.050	5.5	3.2	15	1400	7.78	190	130	<1.0	890	13.2	2.72	0.145
SCU7-001-MW (1.74 m)	12-12-14	27000	2400	390000	15000	220	780	55	19	<10	<100	0.093	<0.01	0.093	0.69	<5	1.3	7.5	1800	7.05	1000	220	<1	1400	22.2	0.77	0.432
	12-10-15	18000	2000	290000	12000	200	550	35	15	0.015	<100	<0.050	<0.010	<0.050	0.099	<5.0	NM	21	1400	7.33	760	200	<1.0	1000	16.4	0.86	0.526
	12-02-16	24000	2500	410000	15000	230	770	92	18	0.02	<100	<0.050	<0.010	<0.050	0.11	<5.0	1.6	5.0	1700	7.21	1100	230	<1.0	1500	23.3	0.63	0.588
	12-15-17	38000	2700	510000	15000	230	1000	140	16	0.01	<1000	<0.050	<0.010	<0.050	0.12	<5.0	1.5	0.5	2300	7.26	1300	230	<1.0	1900	29.8	2.46	0.688
	12-07-18	51000	2300	520000	15000	180	1100	170	15	<0.010	<100	<0.050	<0.010	<0.050	0.12	<5.0	1.3	2.7	2300	7.22	1400	180	<1.0	2000	31.0	2.28	0.554
	12-05-19	53000	2200	500000	13000	140	950	200	11	<0.010	<100	<0.050	<0.010	<0.050	0.094	<5.0	1.2	4.2	2400	7.57	1300	140	<1.0	1800	28.1	0.780	0.794
	11-25-20	66000	2100	600000	13000	160	1300	220	12	<0.010	<100	<0.05	0.015	<0.05	0.12	<5	<59	6.4	2800	7.51	1500	160	<1	2300	35.5	2.58	0.82
	12-02-21	70000	2100	620000	12000	140	1100	230	12	<0.010	<100	<0.050	<0.010	<0.050	0.15	<5.0	1	3.5	2800	7.39	1600	140	<1.0	2200	33.0	2.980	0.669
	12-05-22	66000	1900	600000	10000	130	1200	240	11	<0.010	<100	0.073	<0.010	0.073	0.16	7.8	1.2	3.9	2800	7.59	1500	130	<1.0	2200	34.3	0.910	0.834
	11-27-23	74000	1900	630000	11000	130	1300	280	11	<0.010	<100	<0.050	<0.010	<0.050	0.12	<5.0	1.0	3.1	2900	7.61	1600	130	<1.0	2400	37.1	2.05	0.843
	11-20-24	71000	1800	650000	9900	130	1200	250	11	<0.010	<100	<0.050	<0.010	<0.050	0.19	<5.0	2.7	13	2900	7.81	1700	130	<1.0	2200	33.9	3.53	1.06
	11-17-25	74000	1800	640000	10000	140	1300	270	11	<0.010	<100	0.087	<0.010	0.087	0.13	5.2	1.2	7.6	2900	7.62	1600	130	<1.0	2400	37.4	1.70	0.877
SCU7-003-MW (1.04 m)	03-29-13	51000	6100	150000	13000	210	210	120	9.5	<0.01	<100	0.19	0.017	0.21	0.76	<5.0	1.1	67	1000	6.7	420	210	<1.0	685	11.9	4.92	-0.316
	07-17-13	51000	5890	142000	14100	190	170	120	8.9	<0.01	<100	0.13	<0.01	0.13	1.1	<5.0	1.3	37	1100	7.0	410	190	<1.0	631	10.7	0	-0.073
	11-07-13	63000	6100	130000	13000	180	180	130	8.7	<0.01	<100	<0.05	0.017	0.067	1.2	<5.0	1.1	41	1100	7.0	380	180	<1.0	640	10.9	1.44	-0.112
	12-12-14	67000	5600	130000	12000	190	190	110	9.6	0.011	<100	0.97	0.02	0.99	1.0	<5	1.3	500	1000	6.75	360	190	<1	640	10.9	2.31	0.432
	12-10-15	76000	6500	150000	15000	190	180	180	9.3	<0.010	<100	<0.050	<0.010	<0.050	1.2	11	NM	970	1200	7.01	430	190	<1.0	740	12.7	1.84	-0.057
	11-30-16	81000	6000	130000	13000	170	190	160	9.6	0.011	<100	0.18	0.021	0.2	0.89	18	1.3	86	1100	6.99	380	170	<1.0	700	11.9	2.06	-0.173
	12-15-17	87000	5900	130000	12000	170	170	180	9.3	<0.010	<100	0.069	<0.010	0.069	1.2	<5.0	1.6	4.6	1200	6.94	370	160	<1.0	700	12	2.74	-0.242
	12-11-18	91000	5700	120000	12000	150	120	220	9.8	<0.010	<100	0.33	<0.010	0.33	0.79	<5.0	1.3	0.22	1200	7.02	340	150	<1.0	670	11.7	3.31	-0.228
	12-5-19	90000	5900	110000	11000	150	120	210	9.0	<0.010	<100	<0.050	<0.010	<0.050	1.2	5.1	1.3	16	1100	7.16	320	150	<1.0	650	11.4	3.60	-0.128
	11-25-20	120000	5800	120000	12000	160	110	250	9.3	<0.010	<100	0.087	0.018	0.1	1.4	13	<5 [9]	6.9	1300	6.88	340	160	<1	720	12.4	0.16	-0.364
	12-3-21	130000	5500	91000	9300	150	110	180	9.8	<0.010	<100	0.41	0.014	0.42	0.69	<5.0	1.6	6.9	1200	6.96	270	150	<1.0	620	10.4	2.86	-0.405
	12-5-22[FD]	120000	5200	86000	8600	150	110	170	9.0	<0.010	<100	0.26	<0.010	0.26	0.77	<5.0	1.6	2.0	1200	7.48	250	150	<1.0	600	10.0	1.62	0.0870
	12-05-22	110000	5100	86000	8300	140	110	180	9.1	<0.010	<100	0.31	<0.010	0.31	0.78	<5.0	2.0	1.8	1200	7.44	250	140	<1.0	600	10.1	0.300	0.0480
	11-29-23	130000	5500	95000	9900	120	110	200	9.8	<0.010	<100	0.39	<0.010	0.39	0.64	<5.0	2.6	8.5	1300	7.09	280	120	<1.0	640	10.4	4.58	-0.343
	11-18-24	120000	4900	77000	8100	130	100	170	9.3	<0.010	<100	0.079	<0.010	0.079	0.92	7.1	1.1	2.8	1100	7.69	230	130	<1.0	570	9.57	1.24	0.205
	11-14-25	120000	5000	81000	8400	130	110	180	9.5	<0.010	<100	<0.050	<0.010	<0.050	0.88	<5.0	2.0	4.7	1100	7.43	240	130	<1.0	590	9.70	2.56	-0.0430

TABLE A-3
LTMM GROUNDWATER MONITORING EVENT 2025
OHP AND HE GROUNDWATER ANALYTICAL RESULTS - INORGANIC CHEMISTRY

Sample Location (Water Level 2025)[15]	Sample Date	Langelier Ind. (@4C)	Sat. pH (@20C)	Sat. pH (@4C)	Al	Sb	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
	Units	unitless	unitless	unitless	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MECP Table 3[2]	-	-	-	-	20000	1900	29000	67	-	45000	2.7	810	66	87	-	25	-	0.29	9200	490	63	1.5	-	510	-	-	420	250	1100
SCU11-001-MWA (2.28 m)	03-29-13	0.533	7.32	7.57	37	<1	0.73	240	<0.5	<2	<100	0.11	<1	<1	<2	<100	<1	150	0.021	<4	<3	1.6	<0.1	2700	<0.8	<20	<3	3.6	4.5	14
	07-17-13	0.033	7.38	7.63	<5	<1	<1	244	<1	<2	<50	0.019	<1	<0.4	<2	<50	<0.5	292	NM	3.8	<2	<1	<0.1	3250	<0.1	<2	<2	3.47	<2	<5
	10-24-13	-0.032	7.51	7.75	120	<1	<1	28	<1	<2	160	0.03	<1	<0.40	<2.0	97	<0.50	170	NM	7.3	<2	4.6	<0.1	2300	<0.1	<2	4.8	0.60	<2	<5
	12-15-14	0.044	7.23	7.47	13	<1	<1	230	<1	<2	56	0.59	<1	<0.4	<2	<50	<0.5	440	<0.013	3.7	<2	<1	<0.1	3700	<0.1	<2	<2	3.9	<2	5.3
	12-11-15	-0.227	7.62	7.86	6.6	4	1.3	130	<1.0	<2.0	<50	0.022	<1.0	0.42	<2.0	<50	<0.50	1900	<0.013	<2.0	<2.0	<1.0	<0.10	1000	<0.10	<2.0	<2.0	0.22	<2.0	20
	11-23-16	0.056	7.14	7.39	8.9	<1.0	1.6	280	<1.0	<2.0	<50	0.013	<1.0	<0.40	<2.0	170	0.59	680	<0.013	<2.0	<2.0	<1.0	<0.10	3000	<0.10	<2.0	<2.0	0.22	<2.0	<5.0
	12-13-17	0.443	7.02	7.27	6.3	<1.0	2.0	350	<1.0	<2.0	<50	0.021	<1.0	<0.40	<2.0	200	<0.50	510	<0.013	<2.0	<2.0	<1.0	0.15	2100	<0.10	<2.0	<2.0	0.50	<2.0	<5.0
	12-10-18	0.313	7.02	7.26	<5.0	<1.0	7.1	710	<1.0	<2.0	63	0.029	<1.0	0.42	<2.0	640	<0.50	1200	<0.013	5.4	<2.0	<1.0	<0.10	4200	<0.10	<2.0	<2.0	2.3	<2.0	10
	12-05-19	0.308	7.14	7.39	6.7	<1.0	1.1	260	<1.0	<2.0	<50	0.026	<1.0	<0.40	0.85	860	<0.50	490	<0.013	<2.0	<2.0	<0.50	<0.10	1300	<0.10	<2.0	<2.0	<0.10	<2.0	5.3
	11-25-20	0.216	6.93	7.18	11	<1.0	1.6	660	<1.0	<2.0	70	0.012	<1.0	<0.40	<0.50	880	<0.50	1000	<0.013	<2.0	<2.0	<0.50	<0.10	3900	<0.10	<2.0	<2.0	0.14	<2.0	<5.0
	12-02-21	0.313	7.02	7.27	<5.0	<1.0	1.3	690	<0.10	<2.0	62	0.02	<1.0	<0.40	<0.50	2200	<0.50	1000	<0.013	<2.0	<2.0	<0.50	<0.10	4200	<0.10	<2.0	<2.0	0.1	<2.0	<5.0
	11-22-22	0.416	6.93	7.17	<5.0	<1.0	2.3	690	<0.10	<2.0	67	<0.010	<1.0	<0.40	<0.50	1300	<0.50	1000	<0.013	<2.0	<2.0	<0.50	<0.10	4200	<0.10	<2.0	<2.0	0.51	<2.0	9.6
	11-27-23	0.413	6.97	7.21	<5.0	<1.0	1.4	740	<0.10	<2.0	74	0.037	<1.0	<0.40	<0.50	2400	<0.50	1100	<0.013	<2.0	<2.0	<0.50	<0.10	4400	<0.10	<2.0	<2.0	0.24	<2.0	6.2
	11-14-24	0.615	7.00	7.24	<5.0	<1.0	1.3	770	<0.10	<2.0	64	0.010	<1.0	<0.40	<0.50	1100	<0.50	960	<0.013	<2.0	<2.0	<0.50	<0.10	4200	<0.10	<2.0	<2.0	0.22	<2.0	<5.0
	11-12-25	0.299	7.06	7.30	<5.0	<1.0	1.3	780	<0.10	<2.0	65	<0.010	<1.0	<0.40	<0.50	1900	<0.50	1000	-	<2.0	<2.0	<0.50	<0.10	4500	<0.10	<2.0	<2.0	0.24	<2.0	17
SCU11-001-MWB (1.97 m)	03-29-13	0.665	7.69	7.94	8.6	<1	<0.6	22	<0.5	<2	140	<0.017	<1	<1	<2	100	<1	60	<0.013	28	<3	<1	<0.1	1700	<0.8	<20	<3	2.2	3.3	<5
	07-17-13	-0.033	7.62	7.86	139	<1	<1	27.9	<1	<2	164	<0.017	<1	<0.4	<2	200	<0.5	154	NM	37.3	<2	<1	<0.1	2190	<0.1	<2	2.1	0.57	<2	9
	10-24-13	0.130	7.26	7.51	18	<1	1.6	370	<1	<2	57	<0.01	<1	<0.4	<2	<50	<0.50	1000	NM	4.9	<2	<1	<0.1	3500	<0.1	<2	<2	3.9	<2	<5
	12-15-14[FD]	-1.69	8.34	8.59	21	<1	<1	36	<1	<2	<50	0.16	<1	<0.4	<2	130	<0.5	500	<0.013	<2	<2	<1	<0.1	530	<0.1	<2	<2	<0.1	<2	8.2
	12-15-14	-1.55	8.32	8.57	18	<1	<1	36	<1	<2	<50	0.12	<1	<0.4	<2	130	<0.5	510	<0.013	<2	<2	<1	<0.1	540	<0.1	<2	<2	<0.1	<2	7.3
	12-11-15	-1.73	8.52	8.77	23	<1.0	<1.0	18	<1.0	<2.0	<50	0.011	<1.0	<0.40	<2.0	1900	<0.50	160	<0.013	<2.0	<2.0	<1.0	<0.10	250	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-23-16	-1.29	8.15	8.4	23	<1.0	<1.0	31	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	330	<0.50	240	<0.013	<2.0	<2.0	<1.0	<0.10	420	<0.10	<2.0	<2.0	<0.10	<2.0	11
	12-13-17	-0.633	7.69	7.94	19	<1.0	<1.0	77	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<2.0	380	<0.50	520	<0.013	<2.0	<2.0	<1.0	<0.10	1200	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-05-18	-1.04	7.98	8.23	25	<1.0	<1.0	53	<1.0	<2.0	<50	0.059	<1.0	<0.40	<2.0	610	<0.50	340	<0.013	<2.0	<2.0	<1.0	<0.10	750	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-5-19[FD]	-0.781	7.97	8.22	8.6	<1.0	<1.0	40	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	4200	<0.50	700	<0.013	<2.0	<2.0	<0.50	<0.10	240	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	12-05-19	-0.763	7.96	8.21	8.8	<1.0	<1.0	40	<1.0	<2.0	<50	<0.010	<1.0	<0.40	<0.50	4200	<0.50	710	<0.013	<2.0	<2.0	<0.50	<0.10	240	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-25-20	-0.293	7.61	7.86	5.6	<1.0	<1.0	34	<1.0	<2.0	<50	0.1	<1.0	<0.40	<0.50	340	<0.50	840	<0.013	<2.0	<2.0	<0.50	<0.10	530	<0.10	<2.0	<2.0	0.11	<2.0	13
	12-02-21	-0.773	7.82	8.07	9.6	<1.0	<1.0	31	<0.10	<2.0	<50	0.016	<1.0	<0.40	2.6	670	<0.50	460	<0.013	<2.0	<2.0	<0.50	<0.10	440	<0.10	<2.0	<2.0	<0.10	<2.0	45
	12-05-22	-1.32	8.49	8.75	8.1	<1.0	<1.0	32	<0.10	<2.0	<50	0.016	<1.0	<0.40	1.5	2500	<0.50	390	<0.013	<2.0	<2.0	<0.50	<0.10	180	<0.10	<2.0	<2.0	<0.10	<2.0	38
	11-27-23	-0.412	7.87	8.12	6.6	<1.0	<1.0	30	<0.10	<2.0	<50	<0.010	<1.0	<0.40	<0.50	2000	<0.50	490	<0.013	<2.0	<2.0	<0.50	<0.10	710	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
	11-14-24	0.0590	7.70	7.95	<5.0	1.7	<1.0	26	<0.10	<2.0	120	0.026	<1.0	<0.40	0.58	<50	<0.50	170	<0.013	13	<2.0	<0.50	<0.10	1800	<0.10	<2.0	<2.0	0.30	<2.0	29
	11-14-24[FD]	-0.0120	7.71	7.95	<5.0	1.7	<1.0	25	<0.10	<2.0	120	0.023	<1.0	<0.40	0.53	<50	<0.50	170	<0.013	13	<2.0	<0.50	<0.10	1700	<0.10	<2.0	<2.0	0.30	<2.0	27
	11-12-25	-0.101	7.64	7.88	<5.0	1.2	<1.0	23	<0.10	<2.0	150	0.017	<1.0	<0.40	<0.50	<50	<0.50	<2.0	-	23	<2.0	<0.50	<0.10	2100	<0.10	<2.0	<2.0	0.35	<2.0	16
SCU7-001-MW (1.74 m)	12-12-14	0.142	6.66	6.91	12	<1	<1	51	<1	<2	<50	0.18	<1	<0.4	<2	<50	<0.5	160	<0.013	<2	<2	<1	<0.1	6100	<0.1	<2	<2	6.6	<2	6.7
	12-10-15	0.28	6.81	7.05	<5.0	<1.0	<1.0	69	<1.0	<2.0	<50	0.078	<1.0	<0.40	<2.0	<50	<0.50	79	<0.013	<2.0	<2.0	<1.0	<0.10	5200	<0.10	<2.0	<2.0	5.2	<2.0	<5.0
	12-02-16	0.344	6.62	6.86	8.1	<1.0	<1.0	62	<1.0	<2.0	<50	1.3	<1.0	<0.40	<2.0	<50	<0.50	69	<0.013	<2.0	<2.0	<1.0	<0.10	6900	<0.10	<2.0	<2.0	5.8	<2.0	<5.0
	12-15-17	0.445	6.58	6.82	<50	<10	<10	33	<10	<20	<500	0.19	<10	<4.0	<20	<500	<5.0	820	<0.013	<20	<20	<10	<1.0	9800	<1.0	<20	<20	5.7	<20	<50
	12-07-18	0.311	6.67	6.91	<5.0	<1.0	<1.0	23	<1.0	<2.0	<50	0.091	<1.0	<0.40	<2.0	65	<0.50	2500	<0.013	<2.0	2.2	<1.0	<0.10	12000	<0.10	<2.0	<2.0	2.9	<2.0	<5.0
	12-05-19	0.550	6.78	7.03	<5.0	<1.0	1.2	39	<1.0	<2.0	<50	0.038	<1.0	<0.40	<0.50	130	<0.50	3100	<0.013	<2.0	<2.0	<0.50	<0.10	12000	<0.10	<2.0	<2.0	2.0	<2.0	<5.0
	11-25-20	0.577	6.69	6.94	7.2	<1.0	1.7	20	<1.0	<2.0	<50	0.011	<1.0	0.43	<0.50	240	<0.50	4800	<0.013	<2.0	2.1	<0.50	<0.10	15000	<0.10	<2.0	<2.0	1.9	<2.0	<5.0
	12-02-21	0.426	6.72	6.96	<5.0	<1.0	2.5	17	<0.10	<2.0	<50	0.012	<1.0	0.8	<0.50	400	<0.50	5500	< 0.013[13]	<2.0	2.3	<0.50	<0.10	14000	<0.10	<2.0	<2.0	1.8	<2.0	<5.0
	12-05-22	0.591	6.76	7.00	<5.0	<1.0	2.0	15	<0.10	<2.0	<50	<0.010	<1.0	0.90	<0.50	520	<0.50	5400	<0.013	<2.0	<2.0	<0.50	<0.10	14000	<0.10	<2.0	<2.0	1.6	<2.0	<5.0
	11-27-23	0.600	6.77	7.01	<5.0	<1.0	1.7	13	<0.10	<2.0	<50	<0.010	<1.0	0.63	<0.50	230	<0.50	5500	<0.013	2.2	<2.0	<0.50	<0.10	15000	<0.10	<2.0	<2.0	1.5	<2.0	<5.0
	11-20-24	0.816	6.75	6.99	<5.0	<1.0	1.9	12	<0.10	<2.0	<50	<0.010	<1.0	0.73	<0.50	440	<0.50	5200	<0.013	<2.0	<2.0	<0.50	<0.10	15000	<0.10	<2.0	<2.0	1.3	<2.0	<5.0
	11-17-25	0.634	6.74	6.98	<5.0	<1.0	2.4	13	<0.10	<2.0	<50	<0.010	<1.0	0.80	<0.50	480	<0.50	5200	-	<2.0	<2.0	<0.50	<0.10	15000	<0.10	<2.0	<2.0	1.4	<2.0	<5.0
SCU7-003-MW (1.04 m)	03-29-13	-0.563	7.02	7.26	<5	<1.0	0.72	16	<0.5	<2.0	<100	0.26	<1.0	1.1	<2.0	<100	<1.0	3200	0.013	<4	<3	<1	<0.10	610	<0.8	<20	<3	0.19	<2.0	72
	07-17-13	-0.32	7.07	7.32	5.2	<1.0	<1.0	17.5	<1.0	<2.0	99	0.213	<1.0	0.77	12.3	354	<0.5	2820	NM	<2.0	<2.0	<1.0	<0.10	586	<0.10	<2.0	<2.0	0.35	<2.0	93.2
	11-07-13	-0.359	7.11	7.36	11	<1.0	<1.0	19	<1.0	<2.0	100	0.22	<1.0	0.80	4.3	360	<0.5	2400	NM	<2.0	<2.0	<1.0	<0.10	550	<0.10	<2.0	<2.0	0.38	<2.0	65
	12-12-14	-0.622	7.13	7.37	10	<1	<1	17	<1	<2	100	0.31	<1	0.69	<2	190	<0.5	2400	<0.013	<2	<2	<1	<0.1	530	<0.1	<2	<2	0.28	<2	10
	12-10-15	-0.303	7.07	7.32	7.4	<1.0	<1.0	19	<1.0	<2.0	110	0.32	<1.0	0.96	<2.0	380	<0.50	3300	<0.013	<2.0	<2.0	<1.0	<0.10	650	<0.10	<2.0	<2.0	0.27	<2.0	6.6
	11-30-16	-0.42	7.16	7.41	6.6	<1.0	1.1	22	<1.0	<2.0	98	0.1	<1.0	1.2	<2.0	1100	<0.50	2900	<0.013	<2.0	<2.0	<1.0	<0.10	560	<0.10	<2.0	<2.0	0.26	<2.0	11
	12-15-17	-0.489	7.19	7.43	<5.0	<1.0	<1.0	23	<1.0	<2.0	92	0.25	<1.0	0.88	<2.0	410	<0.50	2600	<0.013	<2.0	<2.0	<1.0	<0.10	560	<0.10	<2.0	<2.0	0.23	<2.0	<5.0
	12-11-18	-0.475	7.25	7.50	<5.0	<1.0	<1.0	22	<1.0	<2.0	91	0.39	<1.0	0.80	<2.0	260	<0.50	2300	<0.013	<2.0	<2.0	<1.0	<0.10	520	<0.10	<2.0	<2.0	0.18	<2.0	8.3
	12-5-19	-0.375	7.29	7.53	5.2	<1.0	6.3	75	<1.0	<2.0	76	0.04	<1.0	1.7	<0.50	1800	<0.50	3600	<0.013	<2.0	<2.0	<0.50	<0.10	600	<0.10	<2.0	<2.0	0.16	<2.0	23
	11-25-20	-0.61	7.24	7.49	9.6	<1.0	1.9	43	<1.0	<2.0	86	0.057	<1.0	1.3	<0.50	870	<0.50	3200	<0.013	<2.0	<2.0	<0.50	<0.10	610	<0.1	<2.0	<2.0	0.14	<2.0	8.3
	12-3-21	-0.652	7.37	7.61	26	<1.0	1.6	27	<0.10	<2.0	77	0.2	<1.0	0.71	<0.50	270	<0.50	1600	<0.013	<2.0	<2.0	<0.50	<0.10	460	<0.10	<2.0	<2.0	0.16	<2.0	25
	12-5-22[FD]	-0.161	7.39	7.64	<5.0	<1.0	<1.0	27	<0.10	<2.0	73	0.14	<1.0	0.66	<0.50	270	<0.50	1900	<0.013	<2.0	<2.0	<0.50	<0.10	440	<0.10	<2.0	<2.0	0.13	<2.0	19
	12-05-22	-0.199	7.39	7.64	<5.0	<1.0	<1.0	26	<0.10	<2.0	76	0.11	<1.0	0.68	<0.50	260	<0.50	1900	<0.013	<2.0	<2.0	<0.50	<0.10	430	<0.10	<2.0	<2.0	0.14	<2.0	10
	11-29-23	-0.591	7.43	7.68	<5.0	<1.0	<1.0	28	<0.10	<2.0	81	0.061	<1.0	0.86	<0.50	240	<0.50	2000	<0.013	<2.0	<2.0	<0.50	<0.10	480	<0.10	<2.0	<2.0	0.11	<2.0	9.6
	11-18-24	-0.0430	7.49	7.73	<5.0	<1.0	<1.0	29	<0.10	<2.0	65	0.047	<1.0	0.69	<0.50	280	<0.50	1900	<0.013	<2.0	<2.0	<0.50	<0.10	400	<0.10	<2.0	<2.0	0.13	<2.0	8.9
	11-14-25	-0.290	7.47	7.72	<5.0	<1.0	<1.0	27	<0.10	<2.0	66	0.079	<1.0	0.62	<0.50	250	<0.50	2000	-	<2.0	<2.0	<0.50	<0.10	420	<0.10	<2.0	<2.0	0.12	<2.0	7.0

Notes:
FD - Field Duplicate
L - Lab Duplicate
NM - Not measured or not analyzed; lab duplicates do not analyze for all parameters.
mg/L - milligrams per litre
µg/L - micrograms per litre
- No applicable guideline criteria.
1 - There are no Nova Scotia Environment Environmental Quality Standards for inorganic parameters in groundwater on a site with Coarse-Grained Soil, Non-potable Groundwater Commercial/Industrial land use) 2022.
2 - Ontario Ministry of Environment, Conservation and Parks Table 3 Full Depth Generic Site Condition Standards in a Non-potable Groundwater 2011.
3 - COTS-001-MWA could not be sampled during the December 2014 event due to insufficient water. COTS-001-MWB added to the LTMM program in 2015 in place of COTS-001-MWA.
4 - During the 2015 groundwater monitoring program, MCWS-009-MW was found to be damaged beyond repair and was subsequently decommissioned.
5 - Bold and Shaded Exceeds MECP Table 3 Standards
6 - This summary is to used in conjunction with, not as a replacement of, the Laboratory Certificates of Analysis, which contain QA/QC information.
7 - Although sodium concentrations are above the MOE standard, this standard was not intended for use in a marine (saltwater) environment. The concentration of sodium is natural as marine waters have sodium concentrations of 10,000,000 ug/L or higher. Sodium is not associated with contamination or remediation at the site.
8 - pH: Linear range exceedance. Extended linearity confirmed.
9 - Elevated reporting limit due to turbidity.
10 - A possible seal failure was suspected in MCES-001-MWB.
11 - Elevated reporting limit due to blank performance.
12 - Elevated reporting limit due to sample matrix.
13 - Mercury analyzed past recommended hold time.
14 -The general chemistry and metals results from the lab for MSES-104-MWA and MSES-104-MWB appear to have been mismatched (based on the chemistry). We reviewed the field notes/procedures and, while it does not appear there was a field error, it is possible. The sample results have been re-assigned accordingly, and potential chemistry changes in these two wells will be confirmed during the next LTMM event.
15 - Water level measurements were collected as meters below top of casing

Appendix B

Mann-Kendall Tables

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-008-MWB**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Anthracene	0.00013	0.043	0.00019	0.00015	0.00004	0.000086	0.000055	0.00012	0.0046	0.000022	0.00075	
	10-Dec-15	30-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	3-Dec-22	16-Nov-23	15-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	1	1	-1	-1	-1	-1	1	-1	1	0
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	1	-1	1	-4
Row 4: Compare to Event 4:					-1	-1	-1	-1	1	-1	1	-3
Row 5: Compare to Event 5:						1	1	1	1	-1	1	4
Row 6: Compare to Event 6:							-1	1	1	-1	1	1
Row 7: Compare to Event 7:								1	1	-1	1	2
Row 8: Compare to Event 8:									1	-1	1	1
Row 9: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-9**

Confidence Level Chart

S	Total No. of Sampling Events							
Value	4	5	6	7	8	9	10	11
0								
± 1								
± 2								
± 3								
± 4								
± 5								
± 6								
± 7								
±8								
± 9								X
± 10								
± 11								
± 12								
± 13								
± 14								
± 15								
± 16								
± 17								
± 18								
± 19								
± 20								
± 21								
± 22								
± 23								
± 24	Not Physically possible							
± 25								
± 26								
± 27								
± 28								
± 29								
± 30								
± 31								
± 32								
± 33								
± 34								
± 35								
± 36								
± 37								
± 38								
± 39								
± 40								
± 41								
± 42								
± 43								
± 44								
± 45								

Unshaded area indicates generally stable trend (if CV<1)

1

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-008-MWB									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Benzo(a)pyrene	0.0012	0.0025	0.00022	0.00011	0.000037	0.000054	0.00005	0.00011	0.0035	0.000038	0.0019	
	10-Dec-15	30-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	3-Dec-22	16-Nov-23	15-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	-1	-1	-1	-1	1	-1	1	-4
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	1	-1	-1	-7
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	1	-1	1	-4
Row 4: Compare to Event 4:					-1	-1	-1	0	1	-1	1	-2
Row 5: Compare to Event 5:						1	1	1	1	1	1	6
Row 6: Compare to Event 6:							-1	1	1	-1	1	1
Row 7: Compare to Event 7:								1	1	-1	1	2
Row 8: Compare to Event 8:									1	-1	1	1
Row 9: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-9**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-008-MWB**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Chrysene	0.00096	0.006	0.00029	0.00017	0.00005	0.000072	0.000063	0.000087	0.0029	0.00003	0.002	
	10-Dec-15	30-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	3-Dec-22	16-Nov-23	15-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	-1	-1	-1	-1	1	-1	1	-4
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	1	-1	1	-4
Row 4: Compare to Event 4:					-1	-1	-1	-1	1	-1	1	-3
Row 5: Compare to Event 5:						1	1	1	1	-1	1	4
Row 6: Compare to Event 6:							-1	1	1	-1	1	1
Row 7: Compare to Event 7:								1	1	-1	1	2
Row 8: Compare to Event 8:									1	-1	1	1
Row 9: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-14**

Confidence Level Chart

S Value	Total No. of Sampling Events: 4	5	6	7	8	9	10	11
0								
± 1								
± 2								
± 3								
± 4								
± 5								
± 6								
± 7								
±8								
± 9								
± 10								
± 11								
± 12								
± 13								
± 14								x
± 15								
± 16								
± 17								
± 18								
± 19								
± 20								
± 21								
± 22								
± 23								
± 24	Not Physically possible							
± 25								
± 26								
± 27								
± 28								
± 29								
± 30								
± 31								
± 32								
± 33								
± 34								
± 35								
± 36								
± 37								
± 38								
± 39								
± 40								
± 41								
± 42								
± 43								
± 44								
± 45								

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

x	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-008-MWB									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Indeno(1,2,3-cd)pyrene	0.00031	0.0025	0.0001	0.000056	0.000013	0.000027	0.000015	0.000059	0.0012	0.000019	0.00075	
	10-Dec-15	30-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	3-Dec-22	16-Nov-23	15-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	-1	-1	-1	-1	1	-1	1	-4
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	1	-1	1	-4
Row 4: Compare to Event 4:					-1	-1	-1	1	1	-1	1	-1
Row 5: Compare to Event 5:						1	1	1	1	1	1	6
Row 6: Compare to Event 6:							-1	1	1	-1	1	1
Row 7: Compare to Event 7:								1	1	1	1	4
Row 8: Compare to Event 8:									1	-1	1	1
Row 9: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-8**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results	
X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-008-MWB**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Naphthalene	0.0001	4.1	0.0001	0.00056	0.0002	0.0001	0.0001	0.005	0.00021	0.000055	0.0001	
	10-Dec-15	30-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	3-Dec-22	16-Nov-23	15-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	0	1	1	0	0	1	1	-1	0	4
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
Row 3: Compare to Event 3:				1	1	0	0	1	1	-1	0	3
Row 4: Compare to Event 4:					-1	-1	-1	1	-1	-1	-1	-5
Row 5: Compare to Event 5:						-1	-1	1	1	-1	-1	-2
Row 6: Compare to Event 6:							0	1	1	-1	0	1
Row 7: Compare to Event 7:								1	1	-1	0	1
Row 8: Compare to Event 8:									-1	-1	-1	-3
Row 9: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.0.00020 mg/L

Mann-Kendall (S) Statistic = **-12**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-201-MWA									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Anthracene	0.0023	0.00085	0.0037	0.00049	0.0014	0.0049	0.0017	0.00013	0.0013	0.00045	0.000048	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	23-Nov-20	2-Dec-21	5-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	1	-1	-1	1	-1	-1	-1	-1	-1	-6
Row 2: Compare to Event 2:			1	-1	1	1	1	-1	1	-1	-1	1
Row 3: Compare to Event 3:				-1	-1	1	-1	-1	-1	-1	-1	-6
Row 4: Compare to Event 4:					1	1	1	-1	1	-1	-1	1
Row 5: Compare to Event 5:						1	1	-1	-1	-1	-1	-2
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 9: Compare to Event 9:										-1	-1	-2
Row 9: Compare to Event 9:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-22**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)	
X	Trend Is Present (≥90% Confidence)	
X	S < 0	Diminishing Plume
	S > 0	Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-201-MWA									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Benzo(a)pyrene	0.0047	0.0018	0.0069	0.00099	0.0029	0.0097	0.0025	0.0003	0.00057	0.001	0.000052	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	23-Nov-20	2-Dec-21	5-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	1	-1	-1	1	-1	-1	-1	-1	-1	-6
Row 2: Compare to Event 2:			1	-1	1	1	1	-1	-1	-1	-1	-1
Row 3: Compare to Event 3:				-1	-1	1	-1	-1	-1	-1	-1	-6
Row 4: Compare to Event 4:					1	1	1	-1	-1	1	-1	1
Row 5: Compare to Event 5:						1	-1	-1	-1	-1	-1	-4
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 9: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-24**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)	
X	Trend Is Present (≥90% Confidence)	
X	S < 0	Diminishing Plume
	S > 0	Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-201-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Chrysene	0.0051	0.0021	0.0086	0.0014	0.0032	0.014	0.0033	0.00029	0.00051	0.00095	0.000056	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	23-Nov-20	2-Dec-21	5-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	1	-1	-1	1	-1	-1	-1	-1	-1	-6
Row 2: Compare to Event 2:			1	-1	1	1	1	-1	-1	-1	-1	-1
Row 3: Compare to Event 3:				-1	-1	1	-1	-1	-1	-1	-1	-6
Row 4: Compare to Event 4:					1	1	1	-1	-1	-1	-1	-1
Row 5: Compare to Event 5:						1	1	-1	-1	-1	-1	-2
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 9: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-24**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)	
X	Trend Is Present (≥90% Confidence)	
X	S < 0	Diminishing Plume
	S > 0	Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-201-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Indeno(1,2,3-cd)pyrene	0.0019	0.00078	0.0029	0.00049	0.00087	0.0039	0.0011	0.00016	0.00023	0.00048	0.000022	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	23-Nov-20	2-Dec-21	5-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	1	-1	-1	1	-1	-1	-1	-1	-1	-6
Row 2: Compare to Event 2:			1	-1	1	1	1	-1	-1	-1	-1	-1
Row 3: Compare to Event 3:				-1	-1	1	-1	-1	-1	-1	-1	-6
Row 4: Compare to Event 4:					1	1	1	-1	-1	-1	-1	-1
Row 5: Compare to Event 5:						1	1	-1	-1	-1	-1	-2
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 9: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-24**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-201-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Naphthalene	0.046	0.0001	0.0001	0.0001	0.05	0.0001	0.00032	0.00021	0.005	0.00001	0.000016	
	15-Dec-14	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	23-Nov-20	2-Dec-21	5-Dec-22	16-Nov-23	26-Nov-24	
Row 1: Compare to Event 1:		-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-8
Row 2: Compare to Event 2:			0	0	1	0	1	1	1	-1	-1	2
Row 3: Compare to Event 3:				0	1	0	1	1	1	-1	-1	2
Row 4: Compare to Event 4:					1	0	1	1	1	-1	-1	2
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							1	1	1	-1	-1	1
Row 7: Compare to Event 7:								-1	1	-1	-1	-2
Row 8: Compare to Event 8:									1	-1	-1	-1
Row 9: Compare to Event 9:										-1	-1	-2
Row 9: Compare to Event 9:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-12**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-201-MWC**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Anthracene	0.005	0.0033	0.0045	0.0042	0.0054	0.005	0.0055	0.0043	0.0044	0.0052	0.000047	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	2-Dec-20	13-Dec-21	15-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	1	0	1	-1	-1	1	-1	-2
Row 2: Compare to Event 2:			1	1	1	1	1	1	1	1	-1	8
Row 3: Compare to Event 3:				-1	1	1	1	-1	-1	1	-1	1
Row 4: Compare to Event 4:					1	1	1	1	1	1	-1	6
Row 5: Compare to Event 5:						-1	1	-1	-1	-1	-1	-3
Row 6: Compare to Event 6:							1	-1	-1	1	-1	0
Row 7: Compare to Event 7:								-1	-1	-1	-1	-3
Row 8: Compare to Event 8:									1	1	-1	2
Row 9: Compare to Event 9:										1	-1	1
Row 10: Compare to Event 10:											-1	

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **10**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							X
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-201-MWC**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Chrysene	0.005	0.000036	0.000042	0.000056	0.000033	0.000073	0.000079	0.0005	0.000042	0.000036	0.000083	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	2-Dec-20	13-Dec-21	15-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
Row 2: Compare to Event 2:			1	1	-1	1	1	1	1	0	1	6
Row 3: Compare to Event 3:				1	-1	1	1	1	0	-1	1	3
Row 4: Compare to Event 4:					-1	1	1	1	-1	-1	1	1
Row 5: Compare to Event 5:						1	1	1	1	1	1	6
Row 6: Compare to Event 6:							1	1	-1	-1	1	1
Row 7: Compare to Event 7:								1	-1	-1	1	0
Row 8: Compare to Event 8:									-1	-1	-1	-3
Row 10: Compare to Event 9:										-1	1	0
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **4**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[X] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume
S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-201-MWC									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Naphthalene	9.5	7.5	6.2	7.8	8.3	4.4	7.3	3.8	4.5	4.5	2.7	
	9-Dec-15	28-Nov-16	5-Dec-17	5-Dec-18	28-Nov-19	2-Dec-20	13-Dec-21	15-Dec-22	16-Nov-23	26-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
Row 2: Compare to Event 2:			-1	1	1	-1	-1	-1	-1	-1	-1	-5
Row 3: Compare to Event 3:				1	1	-1	1	-1	-1	-1	-1	-2
Row 4: Compare to Event 4:					1	-1	-1	-1	-1	-1	-1	-5
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							1	-1	1	1	-1	1
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 10: Compare to Event 9:										0	-1	-1
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-31**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-203-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Anthracene	0.00046	0.00079	0.00027	0.00027	0.0064	0.00054	0.0034	0.00036	0.00083	0.0028	0.000094	
	8-Dec-15	23-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	30-Nov-22	30-Nov-23	13-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	1	1	1	-1	1	1	-1	2
Row 2: Compare to Event 2:			-1	-1	1	-1	1	-1	1	1	-1	-1
Row 3: Compare to Event 3:				0	1	1	1	1	1	1	-1	5
Row 4: Compare to Event 4:					1	1	1	1	1	1	-1	5
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							1	-1	1	1	-1	1
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 10: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **3**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

x	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-203-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Benzo(a)pyrene	0.00061	0.0015	0.00024	0.00027	0.0097	0.00053	0.0048	0.00054	0.0015	0.0046	0.00018	
	8-Dec-15	23-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	30-Nov-22	30-Nov-23	13-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	1	-1	1	-1	1	1	-1	0
Row 2: Compare to Event 2:			-1	-1	1	-1	1	-1	0	1	-1	-2
Row 3: Compare to Event 3:				1	1	1	1	1	1	1	-1	6
Row 4: Compare to Event 4:					1	1	1	1	1	1	-1	5
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							1	1	1	1	-1	3
Row 7: Compare to Event 7:								-1	-1	-1	-1	-4
Row 8: Compare to Event 8:									1	1	-1	1
Row 10: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **3**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-203-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Chrysene	0.00073	0.0016	0.00035	0.0004	0.011	0.00072	0.0006	0.00052	0.0016	0.0043	0.00021	
	8-Dec-15	23-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	30-Nov-22	30-Nov-23	13-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	1	-1	-1	-1	1	1	-1	-2
Row 2: Compare to Event 2:			-1	-1	1	-1	-1	-1	0	1	-1	-4
Row 3: Compare to Event 3:				1	1	1	1	1	1	1	-1	6
Row 4: Compare to Event 4:					1	1	1	1	1	1	-1	5
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							-1	-1	1	1	-1	-1
Row 7: Compare to Event 7:								-1	1	1	-1	0
Row 8: Compare to Event 8:									1	1	-1	1
Row 10: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-1**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	CODT-203-MW									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Indeno(1,2,3-cd)pyrene	0.00029	0.00064	0.0001	0.00011	0.0033	0.00019	0.0019	0.00028	0.00053	0.0019	0.00006	
	8-Dec-15	23-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	30-Nov-22	30-Nov-23	13-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		1	-1	-1	1	-1	1	-1	1	1	-1	0
Row 2: Compare to Event 2:			-1	-1	1	-1	1	-1	-1	1	-1	-3
Row 3: Compare to Event 3:				1	1	1	1	1	1	1	-1	6
Row 4: Compare to Event 4:					1	1	1	1	1	1	-1	5
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							1	1	1	1	-1	3
Row 7: Compare to Event 7:								-1	-1	0	-1	-3
Row 8: Compare to Event 8:									1	1	-1	1
Row 10: Compare to Event 9:										1	-1	0
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **3**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: CODT-203-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Naphthalene	0.0001	0.0001	0.00052	0.0016	0.00039	0.0001	0.0001	0.000019	0.00001	0.00013	0.0001	
	8-Dec-15	23-Nov-16	7-Dec-17	5-Dec-18	28-Nov-19	24-Nov-20	2-Dec-21	30-Nov-22	30-Nov-23	13-Nov-24	12-Nov-25	
Row 1: Compare to Event 1:		0	1	1	1	0	0	-1	-1	1	0	2
Row 2: Compare to Event 2:			1	1	1	0	0	-1	-1	1	0	2
Row 3: Compare to Event 3:				1	-1	-1	-1	-1	-1	-1	-1	-6
Row 4: Compare to Event 4:					-1	-1	-1	-1	-1	-1	-1	-7
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							0	-1	-1	1	0	-1
Row 7: Compare to Event 7:								-1	-1	1	0	-1
Row 8: Compare to Event 8:									-1	1	1	1
Row 10: Compare to Event 9:										1	1	2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.00001 mg/L

Mann-Kendall (S) Statistic = **-14**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24		Not Physically possible					
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

x	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-006-MW									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
pH	7.95	7.86	9.15	10.3	9.02	9.41	9.19	9.19	9.19	7.8	7.84	
	2-Dec-16	13-Dec-17	28-Nov-18	2-Dec-19	26-Nov-20	8-Dec-21	23-Nov-22	3-Dec-23	3-Dec-23	15-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	1	1	1	1	1	1	1	-1	-1	4
Row 2: Compare to Event 2:			1	1	1	1	1	1	1	-1	-1	5
Row 3: Compare to Event 3:				1	-1	1	1	1	1	-1	-1	2
Row 4: Compare to Event 4:					-1	-1	-1	-1	-1	-1	-1	-7
Row 5: Compare to Event 5:						1	1	1	1	-1	-1	2
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								0	0	-1	-1	-2
Row 8: Compare to Event 8:									0	-1	-1	-2
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											1	1

Mann-Kendall (S) Statistic = **-5**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results	
X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-006-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
SO4	88	48	35	64	83	62	62	58	81	22	12	
	3-Dec-15	2-Dec-16	13-Dec-17	28-Nov-18	2-Dec-19	26-Nov-20	8-Dec-21	23-Nov-22	3-Dec-23	15-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
Row 2: Compare to Event 2:			-1	1	1	1	1	1	1	-1	-1	3
Row 3: Compare to Event 3:				1	1	1	1	1	1	-1	-1	4
Row 4: Compare to Event 4:					1	-1	-1	-1	1	-1	-1	-3
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-6
Row 6: Compare to Event 6:							0	-1	1	-1	-1	-2
Row 7: Compare to Event 7:								-1	1	-1	-1	-2
Row 8: Compare to Event 8:									1	-1	-1	-1
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-19**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-006-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
TDS	260	220	200	200	220	200	190	190	210	180	220	
	3-Dec-15	2-Dec-16	13-Dec-17	28-Nov-18	2-Dec-19	26-Nov-20	8-Dec-21	23-Nov-22	3-Dec-23	15-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-10
Row 2: Compare to Event 2:			-1	-1	0	-1	-1	-1	-1	-1	0	-7
Row 3: Compare to Event 3:				0	1	0	-1	-1	1	-1	1	0
Row 4: Compare to Event 4:					1	0	-1	-1	1	-1	1	0
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	0	-5
Row 6: Compare to Event 6:							-1	-1	1	-1	1	-1
Row 7: Compare to Event 7:								0	1	-1	1	1
Row 8: Compare to Event 8:									1	-1	1	1
Row 10: Compare to Event 9:										-1	1	0
Row 10: Compare to Event 10:											1	1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-21**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-006-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Selenium	0.0033	0.0005	0.0017	0.0015	0.0022	0.0042	0.0016	0.0023	0.0013	0.00077	0.00069	
	3-Dec-15	2-Dec-16	13-Dec-17	28-Nov-18	2-Dec-19	26-Nov-20	8-Dec-21	23-Nov-22	3-Dec-23	15-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-8
Row 2: Compare to Event 2:			1	1	1	1	1	1	1	1	1	9
Row 3: Compare to Event 3:				-1	1	1	-1	1	-1	-1	-1	-2
Row 4: Compare to Event 4:					1	1	1	1	-1	-1	-1	1
Row 5: Compare to Event 5:						1	-1	1	-1	-1	-1	-2
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-5
Row 7: Compare to Event 7:								1	-1	-1	-1	-2
Row 8: Compare to Event 8:									-1	-1	-1	-3
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-14**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-001-MWA								
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Sum Rows
pH	11.9	11.8	11.9	12	12	11.9	12.1	11.9	11.8	11.4	
	10-Dec-14	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	7-Dec-21	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	0	1	1	0	1	0	-1	-1	0
Row 2: Compare to Event 2:			1	1	1	1	1	1	0	-1	5
Row 3: Compare to Event 3:				1	1	0	1	0	-1	-1	1
Row 4: Compare to Event 4:					0	-1	1	-1	-1	-1	-3
Row 5: Compare to Event 5:						-1	1	-1	-1	-1	-3
Row 6: Compare to Event 6:							1	0	-1	-1	-1
Row 7: Compare to Event 7:								-1	-1	-1	-3
Row 8: Compare to Event 8:									-1	-1	-2
Row 9: Compare to Event 9:										-1	-1

Mann-Kendall (S) Statistic = **-7**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							X
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-001-MWA								
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Sum Rows
SO4	120	160	190	160	110	130	130	120	110	92	
	10-Dec-14	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	7-Dec-21	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		1	1	1	-1	1	1	0	-1	-1	2
Row 2: Compare to Event 2:			1	0	-1	-1	-1	-1	-1	-1	-5
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	-1	-1	-7
Row 4: Compare to Event 4:					-1	-1	-1	-1	-1	-1	-6
Row 5: Compare to Event 5:						1	1	1	0	-1	2
Row 6: Compare to Event 6:							0	-1	-1	-1	-3
Row 7: Compare to Event 7:								-1	-1	-1	-3
Row 8: Compare to Event 8:									-1	-1	-2
Row 9: Compare to Event 9:										-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-23**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							X
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-001-MWA								
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Sum Rows
TDS	730	540	730	560	580	570	770	680	590	470	
	10-Dec-14	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	7-Dec-21	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	0	-1	-1	-1	1	-1	-1	-1	-6
Row 2: Compare to Event 2:			1	1	1	1	1	1	1	-1	6
Row 3: Compare to Event 3:				-1	-1	-1	1	-1	-1	-1	-5
Row 4: Compare to Event 4:					1	1	1	1	1	-1	4
Row 5: Compare to Event 5:						-1	1	1	1	-1	1
Row 6: Compare to Event 6:							1	1	1	-1	2
Row 7: Compare to Event 7:								-1	-1	-1	-3
Row 8: Compare to Event 8:									-1	-1	-2
Row 9: Compare to Event 9:										-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = -4

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							X
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

OHP & HE
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LTMM GROUNDWATER MONITORING EVENT 2025

MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-001-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Sum Rows
Selenium	0.0018	0.0015	0.0019	0.0018	0.0015	0.0016	0.0017	0.0018	0.0022	0.0012	
	10-Dec-14	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	7-Dec-21	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	1	0	-1	-1	-1	0	1	-1	-3
Row 2: Compare to Event 2:			1	1	0	1	1	1	1	-1	5
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	1	-1	-5
Row 4: Compare to Event 4:					-1	-1	-1	0	1	-1	-3
Row 5: Compare to Event 5:						1	1	1	1	-1	3
Row 6: Compare to Event 6:							1	1	1	-1	2
Row 7: Compare to Event 7:								1	1	-1	1
Row 8: Compare to Event 8:									1	-1	0
Row 9: Compare to Event 9:										-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-1**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							X
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

X	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
	Trend Is Present (≥90% Confidence)
	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

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LTMM GROUNDWATER MONITORING EVENT 2025

MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-201-MWB									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
pH	7.49	7.42	7.47	11.9	12	7.5	12.1	11.9	11.8	11.7	11.7	
	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	10-Dec-20	7-Dec-21	23-Nov-22	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	-1	1	1	1	1	1	1	1	1	5
Row 2: Compare to Event 2:			1	1	1	1	1	1	1	1	1	8
Row 3: Compare to Event 3:				1	1	1	1	1	1	1	1	7
Row 4: Compare to Event 4:					1	-1	1	0	-1	-1	-1	-1
Row 5: Compare to Event 5:						-1	1	-1	-1	-1	-1	-3
Row 6: Compare to Event 6:							1	1	1	1	1	4
Row 7: Compare to Event 7:								-1	-1	-1	-1	-3
Row 8: Compare to Event 8:									-1	-1	-1	-2
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											0	0

Mann-Kendall (S) Statistic = **13**

Confidence Level Chart							
S	Total No. of Sampling Events						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

[x] No Trend Indicated, Plume Not Dimishing or Expanding
(Plume is Stable if CV<1)

[ ] Trend Is Present (≥90% Confidence)

S < 0 Diminishing Plume

S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

OHP & HE

Build Nova Scotia

LTMM GROUNDWATER MONITORING EVENT 2025

MANN-KENDALL ANALYSIS OF PLUME	MONITORING WELL NO:	MCES-201-MWB									
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
SO4	1	1	1	94	96	34	140	120	120	87	79	
	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	10-Dec-20	7-Dec-21	23-Nov-22	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		0	0	1	1	1	1	1	1	1	1	7
Row 2: Compare to Event 2:			0	1	1	1	1	1	1	1	1	7
Row 3: Compare to Event 3:				1	1	1	1	1	1	1	1	7
Row 4: Compare to Event 4:					1	-1	1	1	1	-1	-1	2
Row 5: Compare to Event 5:						-1	1	1	1	-1	-1	1
Row 6: Compare to Event 6:							1	1	1	1	1	4
Row 7: Compare to Event 7:								-1	-1	-1	-1	-3
Row 8: Compare to Event 8:									0	-1	-1	-1
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **22**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results			
	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)		
X	Trend Is Present (≥90% Confidence)		
		S < 0	Diminishing Plume
	X	S > 0	Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

OHP & HE
Build Nova Scotia
LTMM GROUNDWATER MONITORING EVENT 2025

MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-201-MWB**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
TDS	22000	19000	21000	520	510	8000	730	640	650	520	490	
	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	10-Dec-20	7-Dec-21	23-Nov-22	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-9
Row 2: Compare to Event 2:			1	-1	-1	-1	-1	-1	-1	-1	-1	-6
Row 3: Compare to Event 3:				-1	-1	-1	-1	-1	-1	-1	-1	-7
Row 4: Compare to Event 4:					-1	1	1	1	1	0	-1	3
Row 5: Compare to Event 5:						1	1	1	1	1	-1	5
Row 6: Compare to Event 6:							-1	-1	-1	-1	-1	-4
Row 7: Compare to Event 7:								-1	-1	-1	-1	-3
Row 8: Compare to Event 8:									1	-1	-1	0
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-23**

Confidence Level Chart

S Value	Total No. of Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)
X	Trend Is Present (≥90% Confidence)
X	S < 0 Diminishing Plume
	S > 0 Expanding Plume

MANN-KENDALL PLUME STABILITY ANALYSIS

OHP & HE
Build Nova Scotia
LTMM GROUNDWATER MONITORING EVENT 2025

MANN-KENDALL ANALYSIS OF PLUME **MONITORING WELL NO: MCES-201-MWB**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Sum Rows
Selenium	0.005	0.005	0.0018	0.0016	0.0025	0.0016	0.0016	0.0016	0.0016	0.0014	0.0012	
	2-Dec-15	25-Nov-16	12-Dec-17	28-Nov-18	2-Dec-19	10-Dec-20	7-Dec-21	23-Nov-22	29-Nov-23	18-Nov-24	14-Nov-25	
Row 1: Compare to Event 1:		0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
Row 2: Compare to Event 2:			-1	-1	-1	-1	-1	-1	-1	-1	-1	-8
Row 3: Compare to Event 3:				-1	1	-1	-1	-1	-1	-1	-1	-5
Row 4: Compare to Event 4:					1	0	0	0	0	-1	-1	0
Row 5: Compare to Event 5:						-1	-1	-1	-1	-1	-1	-5
Row 6: Compare to Event 6:							0	0	0	-1	-1	-1
Row 7: Compare to Event 7:								0	0	-1	-1	-1
Row 8: Compare to Event 8:									0	-1	-1	-1
Row 10: Compare to Event 9:										-1	-1	-2
Row 10: Compare to Event 10:											-1	-1

1/2 detection limit used for nd, historical data assumed EQL of 0.001 mg/L

Mann-Kendall (S) Statistic = **-31**

Confidence Level Chart							
S	**Total No. of Sampling Events**						
Value	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
±8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
± 20							
± 21							
± 22							
± 23							
± 24	Not Physically possible						
± 25							
± 26							
± 27							
± 28							
± 29							
± 30							
± 31							
± 32							
± 33							
± 34							
± 35							
± 36							
± 37							
± 38							
± 39							
± 40							
± 41							
± 42							
± 43							
± 44							
± 45							

Unshaded area indicates generally stable trend (if CV<1)

Shaded area indicates
Expanding trend if S>0
Declining trend if S<0

Stability Evaulation Results

	No Trend Indicated, Plume Not Dimishing or Expanding (Plume is Stable if CV<1)	
X	Trend Is Present (≥90% Confidence)	
X	S < 0	Diminishing Plume
	S > 0	Expanding Plume

Appendix C

Laboratory Certificates

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/28
Report #: R8659656
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E3656
Received: 2025/11/12, 17:00

Sample Matrix: Water
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2025/11/25	N/A	SM 24 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	11	N/A	2025/11/27	N/A	SM 24 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	6	N/A	2025/11/28	N/A	SM 24 4500-CO2 D
Alkalinity (1)	1	N/A	2025/11/25	ATL SOP 00142	SM 24 2320 B
Alkalinity (1)	7	N/A	2025/11/26	ATL SOP 00142	SM 24 2320 B
Alkalinity (1)	10	N/A	2025/11/27	ATL SOP 00142	SM 24 2320 B
Benzo(b/j)fluoranthene Sum (water) (1)	6	N/A	2025/11/20	N/A	Auto Calc.
Chloride (1)	18	N/A	2025/11/26	ATL SOP 00014	SM 24 4500-Cl- E m
Colour (1)	18	N/A	2025/11/27	ATL SOP 00020	SM 24 2120C m
Conductance - water (1)	1	N/A	2025/11/25	ATL SOP 00004	SM 24 2510B m
Conductance - water (1)	7	N/A	2025/11/26	ATL SOP 00004	SM 24 2510B m
Conductance - water (1)	10	N/A	2025/11/27	ATL SOP 00004	SM 24 2510B m
TEH in Water (PIRI) (1)	2	2025/11/17	2025/11/19	ATL SOP 00113	Atl. RBCA v3.1 m
Hardness (calculated as CaCO3) (1)	18	N/A	2025/11/19	ATL SOP 00048	Auto Calc
Metals Water Diss. MS- Field Filtered (1)	18	N/A	2025/11/18	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference) (1)	5	N/A	2025/11/27	N/A	Auto Calc.
Ion Balance (% Difference) (1)	13	N/A	2025/11/28	N/A	Auto Calc.
Anion and Cation Sum (1)	5	N/A	2025/11/27	N/A	Auto Calc.
Anion and Cation Sum (1)	13	N/A	2025/11/28	N/A	Auto Calc.
Nitrogen Ammonia - water (1)	18	N/A	2025/11/27	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite (1)	4	N/A	2025/11/26	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrate + Nitrite (1)	14	N/A	2025/11/27	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite (1)	9	N/A	2025/11/26	ATL SOP 00017	SM 24 4500-NO2- B m
Nitrogen - Nitrite (1)	9	N/A	2025/11/27	ATL SOP 00017	SM 24 4500-NO2- B m
Nitrogen - Nitrate (as N) (1)	18	N/A	2025/11/27	ATL SOP 00018	ASTM D3867-16
PAH in Water by GC/MS (SIM) (1)	4	2025/11/18	2025/11/18	ATL SOP 00103	EPA 8270E R6 m
PAH in Water by GC/MS (SIM) (1)	2	2025/11/18	2025/11/19	ATL SOP 00103	EPA 8270E R6 m
pH (1, 2)	1	N/A	2025/11/25	ATL SOP 00003	SM 24 4500-H+ B m
pH (1, 2)	7	N/A	2025/11/26	ATL SOP 00003	SM 24 4500-H+ B m
pH (1, 2)	10	N/A	2025/11/27	ATL SOP 00003	SM 24 4500-H+ B m
Phosphorus - ortho (1)	18	N/A	2025/11/27	ATL SOP 00021	SM 24 4500-P E m
Sat. pH and Langelier Index (@ 20C) (1)	5	N/A	2025/11/27	ATL SOP 00049	Auto Calc.

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/28
Report #: R8659656
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E3656
Received: 2025/11/12, 17:00

Sample Matrix: Water
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sat. pH and Langelier Index (@ 20C) (1)	13	N/A	2025/11/28	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	5	N/A	2025/11/27	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	13	N/A	2025/11/28	ATL SOP 00049	Auto Calc.
Reactive Silica (1)	18	N/A	2025/11/26	ATL SOP 00022	EPA 366.0 m
Sulphate (1)	16	N/A	2025/11/26	ATL SOP 00023	ASTM D516-16 m
Sulphate (1)	2	N/A	2025/11/27	ATL SOP 00023	ASTM D516-16 m
Total Dissolved Solids (TDS calc) (1)	5	N/A	2025/11/27	N/A	Auto Calc.
Total Dissolved Solids (TDS calc) (1)	13	N/A	2025/11/28	N/A	Auto Calc.
Organic carbon - Total (TOC) (1, 3)	5	N/A	2025/11/26	ATL SOP 00203	SM 24 5310B m
Organic carbon - Total (TOC) (1, 3)	9	N/A	2025/11/27	ATL SOP 00203	SM 24 5310B m
Organic carbon - Total (TOC) (1, 3)	4	N/A	2025/11/28	ATL SOP 00203	SM 24 5310B m
ModTPH (T1) Calc. for Water (1)	2	N/A	2025/11/21	N/A	Atl. RBCA v3 m
Turbidity (1)	6	N/A	2025/11/26	ATL SOP 00011	EPA 180.1 R2 m
Turbidity (1)	12	N/A	2025/11/27	ATL SOP 00011	EPA 180.1 R2 m
VPH in Water (PIRI) (1)	2	N/A	2025/11/20	ATL SOP 00130	Atl. RBCA v3.1 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/28
Report #: R8659656
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E3656
Received: 2025/11/12, 17:00

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9

(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
28 Nov 2025 13:56:38

Please direct all questions regarding this Certificate of Analysis to:
Natalie MacAskill, Key Account Specialist
Email: Natalie.MacAskill@bureauveritas.com
Phone# (902)567-1255 Ext:17

==========

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Bureau Veritas 465 George St., Unit G, Sydney, NS, B1P 1K5 Tel:902 567 1255 Toll Free: 888 535 7770 Fax: 902 539 6504 www.bvna.com

Bureau Veritas Job #: C5E3656
Report Date: 2025/11/28

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGS67			AXGS87			AXGS88		
Sampling Date		2025/11/12 11:55			2025/11/12 16:15			2025/11/12 13:55		
	UNITS	COBB-004-MWA	RDL	QC Batch	COBC-002-MWA	RDL	QC Batch	COCP-110-MW	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	7.80	N/A	A053334	32.3	N/A	A053334	9.37	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	100	1.0	A053328	86	1.0	A053328	160	1.0	A053328
Calculated TDS	mg/L	510	1.0	A053341	2000	1.0	A053341	620	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A053328	<1.0	1.0	A053328	2.5	1.0	A053328
Cation Sum	me/L	8.43	N/A	A053334	39.5	N/A	A053334	10.1	N/A	A053334
Hardness (CaCO3)	mg/L	330	1.0	A053332	790	1.0	A053332	450	1.0	A053332
Ion Balance (% Difference)	%	3.88	N/A	A053333	10.1	N/A	A053333	3.70	N/A	A053333
Langelier Index (@ 20C)	N/A	0.488		A053338	-0.196		A053338	1.13		A053338
Langelier Index (@ 4C)	N/A	0.240		A053339	-0.439		A053339	0.879		A053339
Nitrate (N)	mg/L	0.10	0.050	A053336	0.074	0.050	A053336	0.10	0.050	A053336
Saturation pH (@ 20C)	N/A	7.37		A053338	7.29		A053338	7.10		A053338
Saturation pH (@ 4C)	N/A	7.61		A053339	7.53		A053339	7.35		A053339
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	100	2.0	A060166	86	2.0	A061982	160	2.0	A061991
Dissolved Chloride (Cl-)	mg/L	87	1.0	A061773	960	10	A061773	26	1.0	A061773
Colour	TCU	6.0	5.0	A061780	12	5.0	A061780	12	5.0	A061780
Nitrate + Nitrite (N)	mg/L	0.10	0.050	A061784	0.074	0.050	A061784	0.12	0.050	A061784
Nitrite (N)	mg/L	<0.010	0.010	A061785	<0.010	0.010	A061785	0.015	0.010	A061785
Nitrogen (Ammonia Nitrogen)	mg/L	0.24	0.050	A062816	0.050	0.050	A062816	0.089	0.050	A062816
Total Organic Carbon (C)	mg/L	5.9	0.50	A062013	2.8	0.50	A062013	5.7	0.50	A061890
Orthophosphate (P)	mg/L	0.024	0.010	A061782	<0.010	0.010	A061782	0.13	0.010	A061782
pH	pH	7.85		A060163	7.09		A061978	8.23		A061986
Reactive Silica (SiO2)	mg/L	25	1.0	A061779	2.6	0.50	A061779	40	2.5	A061779
Dissolved Sulphate (SO4)	mg/L	160	10	A061777	170	10	A061777	260	10	A061777
Turbidity	NTU	2.6	0.10	A061385	2.3	0.10	A062150	35	0.10	A062138
Conductivity	uS/cm	880	1.0	A060164	4400	1.0	A061980	930	1.0	A061988

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGS89			AXGS94		AXGS95		
Sampling Date		2025/11/12 15:00			2025/11/12 12:20		2025/11/12 13:10		
	UNITS	CODT-008-MWB	RDL	QC Batch	CODT-201-MWA	RDL	CODT-201-MWC	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	2.64	N/A	A053334	7.83	N/A	5.44	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	27	1.0	A053328	160	1.0	180	1.0	A053328
Calculated TDS	mg/L	210	1.0	A053341	520	1.0	310	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.3	1.0	A053328	1.3	1.0	2.7	1.0	A053328
Cation Sum	me/L	3.58	N/A	A053334	7.95	N/A	5.82	N/A	A053334
Hardness (CaCO3)	mg/L	150	1.0	A053332	360	1.0	120	1.0	A053332
Ion Balance (% Difference)	%	15.1	N/A	A053333	0.760	N/A	3.37	N/A	A053333
Langelier Index (@ 20C)	N/A	0.752		A053338	0.774		0.626		A053338
Langelier Index (@ 4C)	N/A	0.502		A053339	0.526		0.377		A053339
Nitrate (N)	mg/L	0.18	0.050	A053336	38	0.15	<0.050	0.050	A053336
Saturation pH (@ 20C)	N/A	8.20		A053338	7.15		7.58		A053338
Saturation pH (@ 4C)	N/A	8.45		A053339	7.40		7.83		A053339
Inorganics									
Total Alkalinity (Total as CaCO3)	mg/L	30	2.0	A061991	160	2.0	180	2.0	A061982
Dissolved Chloride (Cl-)	mg/L	11	1.0	A061773	27	1.0	64	1.0	A061773
Colour	TCU	17	5.0	A061780	8.8	5.0	<5.0	5.0	A061780
Nitrate + Nitrite (N)	mg/L	0.26	0.050	A061784	38	0.15	<0.050	0.050	A061784
Nitrite (N)	mg/L	0.081	0.010	A061785	0.18	0.010	<0.010	0.010	A061785
Nitrogen (Ammonia Nitrogen)	mg/L	0.053	0.050	A062816	<0.050	0.050	0.40	0.050	A062819
Total Organic Carbon (C)	mg/L	4.4	0.50	A062013	3.1	0.50	6.8 (1)	5.0	A062958
Orthophosphate (P)	mg/L	<0.010	0.010	A061782	0.018	0.010	0.11	0.010	A061782
pH	pH	8.95		A061986	7.93		8.21		A061978
Reactive Silica (SiO2)	mg/L	28	1.0	A061779	14	0.50	11	0.50	A061779
Dissolved Sulphate (SO4)	mg/L	83	2.0	A061777	52	2.0	<2.0	2.0	A061777
Turbidity	NTU	5.4	0.10	A062150	18	0.10	0.98	0.10	A062147
Conductivity	uS/cm	300	1.0	A061988	850	1.0	620	1.0	A061980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.

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Bureau Veritas Job #: C5E3656
Report Date: 2025/11/28

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGS96			AXGT08			AXGT09		
Sampling Date		2025/11/12 09:20			2025/11/12 08:20			2025/11/12 10:30		
	UNITS	CODT-203-MW	RDL	QC Batch	CODT-205-MWA	RDL	QC Batch	CONCW-101-MWB	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	7.46	N/A	A053334	6.28	N/A	A053334	3.69	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	140	1.0	A053328	210	1.0	A053328	19	1.0	A053328
Calculated TDS	mg/L	500	1.0	A053341	380	1.0	A053341	270	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A053328	1.7	1.0	A053328	18	1.0	A053328
Cation Sum	me/L	7.90	N/A	A053334	7.14	N/A	A053334	4.47	N/A	A053334
Hardness (CaCO3)	mg/L	350	1.0	A053332	290	1.0	A053332	180	1.0	A053332
Ion Balance (% Difference)	%	2.86	N/A	A053333	6.41	N/A	A053333	9.56	N/A	A053333
Langelier Index (@ 20C)	N/A	0.559		A053338	0.798		A053338	1.73		A053338
Langelier Index (@ 4C)	N/A	0.311		A053339	0.549		A053339	1.48		A053339
Nitrate (N)	mg/L	12	0.50	A053336	<0.050	0.050	A053336	0.52	0.050	A053336
Saturation pH (@ 20C)	N/A	7.21		A053338	7.12		A053338	8.28		A053338
Saturation pH (@ 4C)	N/A	7.46		A053339	7.37		A053339	8.52		A053339
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	140	2.0	A061982	220	2.0	A061982	43	2.0	A062871
Dissolved Chloride (Cl-)	mg/L	24	1.0	A061773	12	1.0	A061787	22	1.0	A061787
Colour	TCU	6.9	5.0	A061780	16	5.0	A061796	9.5	5.0	A061796
Nitrate + Nitrite (N)	mg/L	12	0.50	A061784	<0.050	0.050	A061799	0.55	0.050	A061799
Nitrite (N)	mg/L	<0.010	0.010	A061785	<0.010	0.010	A061800	0.031	0.010	A061800
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	A062816	0.55	0.050	A062819	<0.050	0.050	A062819
Total Organic Carbon (C)	mg/L	4.5	0.50	A062835	8.1	0.50	A062958	3.4	0.50	A062013
Orthophosphate (P)	mg/L	0.027	0.010	A061782	<0.010	0.010	A061798	<0.010	0.010	A061798
pH	pH	7.77		A061978	7.92		A061978	10.0 (1)		A062867
Reactive Silica (SiO2)	mg/L	27	1.0	A061779	16	0.50	A061795	23	1.0	A061795
Dissolved Sulphate (SO4)	mg/L	150	10	A061777	78	2.0	A061792	100	4.0	A061792
Turbidity	NTU	1.0	0.10	A062147	64	0.10	A062147	0.58	0.10	A061388
Conductivity	uS/cm	800	1.0	A061980	630	1.0	A061980	430	1.0	A062870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) pH: linear range exceedance. Extended linearity confirmed.

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGT10			AXGT11			AXGT21		
Sampling Date		2025/11/12 10:45			2025/11/12 13:15			2025/11/12 15:10		
	UNITS	CONPL-202-MWA	RDL	QC Batch	COSB-002-MWA	RDL	QC Batch	MCWS-309-MW	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	6.23	N/A	A053334	6.71	N/A	A053334	7.49	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	210	1.0	A053328	92	1.0	A053328	280	1.0	A053328
Calculated TDS	mg/L	350	1.0	A053341	450	1.0	A053341	440	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.8	1.0	A053328	<1.0	1.0	A053328	3.3	1.0	A053328
Cation Sum	me/L	6.52	N/A	A053334	7.32	N/A	A053334	7.98	N/A	A053334
Hardness (CaCO3)	mg/L	300	1.0	A053332	340	1.0	A053332	35	1.0	A053332
Ion Balance (% Difference)	%	2.27	N/A	A053333	4.35	N/A	A053333	3.17	N/A	A053333
Langelier Index (@ 20C)	N/A	0.824		A053338	0.00700		A053338	-0.0250		A053338
Langelier Index (@ 4C)	N/A	0.575		A053339	-0.241		A053339	-0.274		A053339
Nitrate (N)	mg/L	<0.050	0.050	A053336	0.49	0.050	A053336	<0.050	0.050	A053336
Saturation pH (@ 20C)	N/A	7.13		A053338	7.43		A053338	8.12		A053338
Saturation pH (@ 4C)	N/A	7.38		A053339	7.68		A053339	8.37		A053339
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	210	2.0	A061991	92	2.0	A062877	280	2.0	A061982
Dissolved Chloride (Cl-)	mg/L	7.9	1.0	A061787	7.3	1.0	A061787	28	1.0	A061787
Colour	TCU	<5.0	5.0	A061796	6.6	5.0	A061796	21	5.0	A061796
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A061799	0.52	0.050	A061799	<0.050	0.050	A061799
Nitrite (N)	mg/L	<0.010	0.010	A061800	0.031	0.010	A061800	<0.010	0.010	A061800
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	A062819	0.10	0.050	A062819	0.42	0.050	A062819
Total Organic Carbon (C)	mg/L	2.5	0.50	A062828	2.2	0.50	A062828	12 (1)	5.0	A062830
Orthophosphate (P)	mg/L	0.011	0.010	A061798	<0.010	0.010	A061798	0.19	0.010	A061798
pH	pH	7.95		A061986	7.43		A062872	8.10		A061978
Reactive Silica (SiO2)	mg/L	8.9	0.50	A061795	16	0.50	A061795	9.3	0.50	A061795
Dissolved Sulphate (SO4)	mg/L	84	2.0	A061792	220	10	A061792	49	2.0	A061792
Turbidity	NTU	10	0.10	A061385	21	0.10	A062147	480	1.0	A061390
Conductivity	uS/cm	620	1.0	A061988	690	1.0	A062876	790	1.0	A061980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to turbidity.

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Bureau Veritas Job #: C5E3656
Report Date: 2025/11/28

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGT22			AXGT23			AXGT24		
Sampling Date		2025/11/12 16:20			2025/11/12 09:10			2025/11/12 09:35		
	UNITS	MCWS-310-MW	RDL	QC Batch	SCU11-001-MWA	RDL	QC Batch	SCU11-001-MWB	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	3.37	N/A	A053334	13.2	N/A	A053334	13.2	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	97	1.0	A053328	150	1.0	A053328	130	1.0	A053328
Calculated TDS	mg/L	200	1.0	A053341	770	1.0	A053341	890	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A053328	<1.0	1.0	A053328	<1.0	1.0	A053328
Cation Sum	me/L	3.66	N/A	A053334	15.4	N/A	A053334	14.0	N/A	A053334
Hardness (CaCO3)	mg/L	120	1.0	A053332	580	1.0	A053332	190	1.0	A053332
Ion Balance (% Difference)	%	4.13	N/A	A053333	7.78	N/A	A053333	2.72	N/A	A053333
Langelier Index (@ 20C)	N/A	0.0430		A053338	0.546		A053338	0.145		A053338
Langelier Index (@ 4C)	N/A	-0.207		A053339	0.299		A053339	-0.101		A053339
Nitrate (N)	mg/L	0.32	0.050	A053336	0.36	0.050	A053336	0.68	0.050	A053336
Saturation pH (@ 20C)	N/A	7.80		A053338	7.06		A053338	7.64		A053338
Saturation pH (@ 4C)	N/A	8.05		A053339	7.30		A053339	7.88		A053339
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	98	2.0	A061991	150	2.0	A062877	130	2.0	A062871
Dissolved Chloride (Cl-)	mg/L	34	1.0	A061787	360	5.0	A061787	43	1.0	A061787
Colour	TCU	39	5.0	A061796	7.7	5.0	A061796	5.5	5.0	A061796
Nitrate + Nitrite (N)	mg/L	0.32	0.050	A061799	0.38	0.050	A061799	0.68	0.050	A061799
Nitrite (N)	mg/L	<0.010	0.010	A061800	0.025	0.010	A061800	<0.010	0.010	A061800
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	A062819	2.2	0.25	A062819	<0.050	0.050	A062819
Total Organic Carbon (C)	mg/L	8.0	0.50	A062828	8.7	0.50	A062828	3.2	0.50	A062830
Orthophosphate (P)	mg/L	<0.010	0.010	A061798	<0.010	0.010	A061798	0.13	0.010	A061798
pH	pH	7.84		A061986	7.60		A062872	7.78		A062867
Reactive Silica (SiO2)	mg/L	5.9	0.50	A061795	11	0.50	A061795	7.7	0.50	A061795
Dissolved Sulphate (SO4)	mg/L	21	2.0	A061792	2.1	2.0	A061792	450	10	A061792
Turbidity	NTU	6.2	0.10	A062150	22	0.10	A062150	15	0.10	A062150
Conductivity	uS/cm	370	1.0	A061988	1700	1.0	A062876	1400	1.0	A062870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C5E3656
Report Date: 2025/11/28

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXGT56			AXGT58			AXGT59		
Sampling Date		2025/11/12 13:30			2025/11/12 10:50			2025/11/12 11:00		
	UNITS	25FD-04	RDL	QC Batch	25FD-05	RDL	QC Batch	25FD-07	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	5.42	N/A	A053334	3.67	N/A	A053334	6.43	N/A	A053334
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	A053328	19	1.0	A053328	220	1.0	A053328
Calculated TDS	mg/L	310	1.0	A053341	270	1.0	A053341	360	1.0	A053341
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.8	1.0	A053328	18	1.0	A053328	1.9	1.0	A053328
Cation Sum	me/L	5.85	N/A	A053334	4.34	N/A	A053334	6.82	N/A	A053334
Hardness (CaCO3)	mg/L	120	1.0	A053332	170	1.0	A053332	320	1.0	A053332
Ion Balance (% Difference)	%	3.82	N/A	A053333	8.36	N/A	A053333	2.94	N/A	A053333
Langelier Index (@ 20C)	N/A	0.444		A053338	1.71		A053338	0.876		A053338
Langelier Index (@ 4C)	N/A	0.195		A053339	1.46		A053339	0.627		A053339
Nitrate (N)	mg/L	<0.050	0.050	A053336	0.54	0.050	A053336	<0.050	0.050	A053336
Saturation pH (@ 20C)	N/A	7.58		A053338	8.31		A053338	7.10		A053338
Saturation pH (@ 4C)	N/A	7.83		A053339	8.56		A053339	7.35		A053339
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	180	2.0	A062877	42	2.0	A062871	220	2.0	A061982
Dissolved Chloride (Cl-)	mg/L	64	1.0	A061787	22	1.0	A061787	8.1	1.0	A061787
Colour	TCU	<5.0	5.0	A061796	9.0	5.0	A061796	<5.0	5.0	A061796
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A061799	0.58	0.050	A061799	<0.050	0.050	A061799
Nitrite (N)	mg/L	<0.010	0.010	A061800	0.039	0.010	A061800	<0.010	0.010	A061800
Nitrogen (Ammonia Nitrogen)	mg/L	0.40	0.050	A062819	0.054	0.050	A062819	<0.050	0.050	A062819
Total Organic Carbon (C)	mg/L	9.2	0.50	A062830	3.3	0.50	A062830	2.8	0.50	A062828
Orthophosphate (P)	mg/L	0.011	0.010	A061798	<0.010	0.010	A061798	0.011	0.010	A061798
pH	pH	8.02		A062872	10.0 (1)		A062867	7.97		A061978
Reactive Silica (SiO2)	mg/L	11	0.50	A061795	23	1.0	A061795	9.8	0.50	A061795
Dissolved Sulphate (SO4)	mg/L	<2.0	2.0	A061792	100	4.0	A061792	85	2.0	A061792
Turbidity	NTU	1.3	0.10	A061385	0.47	0.10	A061388	8.9	0.10	A062147
Conductivity	uS/cm	590	1.0	A062876	420	1.0	A062870	640	1.0	A061980

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) pH: linear range exceedance. Extended linearity confirmed.

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXGS67	AXGS87	AXGS88	AXGS89	AXGS94		
Sampling Date		2025/11/12 11:55	2025/11/12 16:15	2025/11/12 13:55	2025/11/12 15:00	2025/11/12 12:20		
	UNITS	COBB-004-MWA	COBC-002-MWA	COCP-110-MW	CODT-008-MWB	CODT-201-MWA	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<5.0	9.1	<5.0	180	<5.0	5.0	A056356
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	4.1	<1.0	<1.0	1.0	A056356
Dissolved Arsenic (As)	ug/L	3.5	1.3	12	3.3	<1.0	1.0	A056356
Dissolved Barium (Ba)	ug/L	49	42	72	30	36	1.0	A056356
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056356
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056356
Dissolved Boron (B)	ug/L	84	69	89	<50	<50	50	A056356
Dissolved Cadmium (Cd)	ug/L	0.022	0.23	0.038	<0.010	0.021	0.010	A056356
Dissolved Calcium (Ca)	ug/L	130000	270000	160000	58000	130000	100	A056356
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.9	1.8	<1.0	1.0	A056356
Dissolved Cobalt (Co)	ug/L	0.48	<0.40	<0.40	<0.40	<0.40	0.40	A056356
Dissolved Copper (Cu)	ug/L	<0.50	0.79	3.3	3.1	1.2	0.50	A056356
Dissolved Iron (Fe)	ug/L	120	390	52	<50	<50	50	A056356
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	A056356
Dissolved Magnesium (Mg)	ug/L	4400	29000	13000	1100	10000	100	A056356
Dissolved Manganese (Mn)	ug/L	1900	76	26	<2.0	<2.0	2.0	A056356
Dissolved Molybdenum (Mo)	ug/L	15	<2.0	3.6	<2.0	<2.0	2.0	A056356
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056356
Dissolved Phosphorus (P)	ug/L	<100	<100	120	<100	<100	100	A056356
Dissolved Potassium (K)	ug/L	4300	4100	7700	2000	3300	100	A056356
Dissolved Selenium (Se)	ug/L	<0.50	1.1	4.7	2.1	3.0	0.50	A056356
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056356
Dissolved Sodium (Na)	ug/L	39000	540000	21000	13000	14000	100	A056356
Dissolved Strontium (Sr)	ug/L	500	1300	630	330	320	2.0	A056356
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056356
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056356
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056356
Dissolved Uranium (U)	ug/L	2.7	<0.10	5.5	1.8	0.51	0.10	A056356
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	15	11	<2.0	2.0	A056356
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	6.5	<5.0	<5.0	5.0	A056356

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXGS95	AXGS96	AXGT08		AXGT09		
Sampling Date		2025/11/12 13:10	2025/11/12 09:20	2025/11/12 08:20		2025/11/12 10:30		
	UNITS	CODT-201-MWC	CODT-203-MW	CODT-205-MWA	QC Batch	CONCW-101-MWB	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<5.0	5.3	<5.0	A056356	390	5.0	A056358
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	A056356	<1.0	1.0	A056358
Dissolved Arsenic (As)	ug/L	3.9	<1.0	11	A056356	3.3	1.0	A056358
Dissolved Barium (Ba)	ug/L	570	88	240	A056356	30	1.0	A056358
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	A056356	<0.10	0.10	A056358
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	A056356	<2.0	2.0	A056358
Dissolved Boron (B)	ug/L	76	64	<50	A056356	<50	50	A056358
Dissolved Cadmium (Cd)	ug/L	<0.010	0.048	<0.010	A056356	<0.010	0.010	A056358
Dissolved Calcium (Ca)	ug/L	39000	130000	98000	A056356	71000	100	A056358
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	A056356	1.1	1.0	A056358
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	A056356	<0.40	0.40	A056358
Dissolved Copper (Cu)	ug/L	<0.50	1.6	<0.50	A056356	3.0	0.50	A056358
Dissolved Iron (Fe)	ug/L	<50	<50	9400	A056356	<50	50	A056358
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	A056356	<0.50	0.50	A056358
Dissolved Magnesium (Mg)	ug/L	4500	6000	10000	A056356	860	100	A056358
Dissolved Manganese (Mn)	ug/L	700	<2.0	1400	A056356	<2.0	2.0	A056358
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.7	A056356	4.0	2.0	A056358
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	A056356	<2.0	2.0	A056358
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	A056356	<100	100	A056358
Dissolved Potassium (K)	ug/L	2500	2100	4200	A056356	2900	100	A056358
Dissolved Selenium (Se)	ug/L	3.0	6.8	<0.50	A056356	2.0	0.50	A056358
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	A056356	<0.10	0.10	A056358
Dissolved Sodium (Na)	ug/L	79000	21000	21000	A056356	18000	100	A056358
Dissolved Strontium (Sr)	ug/L	560	550	2900	A056356	410	2.0	A056358
Dissolved Thallium (Tl)	ug/L	<0.10	0.17	<0.10	A056356	<0.10	0.10	A056358
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	A056356	<2.0	2.0	A056358
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	A056356	<2.0	2.0	A056358
Dissolved Uranium (U)	ug/L	<0.10	1.6	0.37	A056356	0.26	0.10	A056358
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	A056356	16	2.0	A056358
Dissolved Zinc (Zn)	ug/L	<5.0	5.8	<5.0	A056356	<5.0	5.0	A056358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXGT10	AXGT11	AXGT21	AXGT22	AXGT23		
Sampling Date		2025/11/12 10:45	2025/11/12 13:15	2025/11/12 15:10	2025/11/12 16:20	2025/11/12 09:10		
	UNITS	CONPL-202-MWA	COSB-002-MWA	MCWS-309-MW	MCWS-310-MW	SCU11-001-MWA	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<5.0	63	5.8	130	<5.0	5.0	A056358
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	A056358
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	6.2	<1.0	1.3	1.0	A056358
Dissolved Barium (Ba)	ug/L	30	17	19	41	780	1.0	A056358
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056358
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056358
Dissolved Boron (B)	ug/L	<50	<50	360	66	65	50	A056358
Dissolved Cadmium (Cd)	ug/L	0.018	0.17	<0.010	0.015	<0.010	0.010	A056358
Dissolved Calcium (Ca)	ug/L	96000	120000	7700	40000	200000	100	A056358
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	A056358
Dissolved Cobalt (Co)	ug/L	<0.40	0.61	<0.40	<0.40	<0.40	0.40	A056358
Dissolved Copper (Cu)	ug/L	<0.50	0.56	<0.50	1.7	<0.50	0.50	A056358
Dissolved Iron (Fe)	ug/L	<50	2400	150	80	1900	50	A056358
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	A056358
Dissolved Magnesium (Mg)	ug/L	15000	13000	3800	5400	23000	100	A056358
Dissolved Manganese (Mn)	ug/L	<2.0	570	2800	14	1000	2.0	A056358
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	3.5	<2.0	<2.0	2.0	A056358
Dissolved Nickel (Ni)	ug/L	<2.0	14	<2.0	<2.0	<2.0	2.0	A056358
Dissolved Phosphorus (P)	ug/L	<100	<100	260	<100	240	100	A056358
Dissolved Potassium (K)	ug/L	1200	2700	9100	3000	8300	100	A056358
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	A056358
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056358
Dissolved Sodium (Na)	ug/L	9800	6900	160000	26000	76000	100	A056358
Dissolved Strontium (Sr)	ug/L	340	240	39	1100	4500	2.0	A056358
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A056358
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056358
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056358
Dissolved Uranium (U)	ug/L	1.1	<0.10	0.15	0.47	0.24	0.10	A056358
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A056358
Dissolved Zinc (Zn)	ug/L	<5.0	24	<5.0	13	17	5.0	A056358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXGT24	AXGT56		AXGT58		AXGT59		
Sampling Date		2025/11/12 09:35	2025/11/12 13:30		2025/11/12 10:50		2025/11/12 11:00		
	UNITS	SCU11-001-MWB	25FD-04	QC Batch	25FD-05	QC Batch	25FD-07	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	A056358	400	A056360	<5.0	5.0	A056358
Dissolved Antimony (Sb)	ug/L	1.2	<1.0	A056358	<1.0	A056360	<1.0	1.0	A056358
Dissolved Arsenic (As)	ug/L	<1.0	3.9	A056358	3.3	A056360	<1.0	1.0	A056358
Dissolved Barium (Ba)	ug/L	23	570	A056358	31	A056360	30	1.0	A056358
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	A056358	<0.10	A056360	<0.10	0.10	A056358
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	A056358	<2.0	A056360	<2.0	2.0	A056358
Dissolved Boron (B)	ug/L	150	83	A056358	<50	A056360	<50	50	A056358
Dissolved Cadmium (Cd)	ug/L	0.017	<0.010	A056358	<0.010	A056360	0.044	0.010	A056358
Dissolved Calcium (Ca)	ug/L	63000	39000	A056358	68000	A056360	100000	100	A056358
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	A056358	1.3	A056360	<1.0	1.0	A056358
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	A056358	<0.40	A056360	<0.40	0.40	A056358
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	A056358	2.9	A056360	<0.50	0.50	A056358
Dissolved Iron (Fe)	ug/L	<50	<50	A056358	<50	A056360	<50	50	A056358
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	A056358	<0.50	A056360	<0.50	0.50	A056358
Dissolved Magnesium (Mg)	ug/L	8700	4600	A056358	860	A056360	16000	100	A056358
Dissolved Manganese (Mn)	ug/L	<2.0	700	A056358	<2.0	A056360	96	2.0	A056358
Dissolved Molybdenum (Mo)	ug/L	23	<2.0	A056358	4.0	A056360	<2.0	2.0	A056358
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	A056358	<2.0	A056360	<2.0	2.0	A056358
Dissolved Phosphorus (P)	ug/L	120	<100	A056358	<100	A056360	<100	100	A056358
Dissolved Potassium (K)	ug/L	4900	2500	A056358	2800	A056360	1200	100	A056358
Dissolved Selenium (Se)	ug/L	<0.50	2.5	A056358	2.0	A056360	<0.50	0.50	A056358
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	A056358	<0.10	A056360	<0.10	0.10	A056358
Dissolved Sodium (Na)	ug/L	230000	79000	A056358	18000	A056360	11000	100	A056358
Dissolved Strontium (Sr)	ug/L	2100	570	A056358	420	A056360	390	2.0	A056358
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	A056358	<0.10	A056360	<0.10	0.10	A056358
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	A056358	<2.0	A056360	<2.0	2.0	A056358
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	A056358	<2.0	A056360	<2.0	2.0	A056358
Dissolved Uranium (U)	ug/L	0.35	<0.10	A056358	0.26	A056360	1.2	0.10	A056358
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	A056358	16	A056360	<2.0	2.0	A056358
Dissolved Zinc (Zn)	ug/L	16	<5.0	A056358	<5.0	A056360	<5.0	5.0	A056358

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		AXGS89		AXGS94		AXGS95		AXGS96		
Sampling Date		2025/11/12 15:00		2025/11/12 12:20		2025/11/12 13:10		2025/11/12 09:20		
	UNITS	CODT-008-MWB	RDL	CODT-201-MWA	RDL	CODT-201-MWC	RDL	CODT-203-MW	RDL	QC Batch
Polyaromatic Hydrocarbons										
1-Methylnaphthalene	ug/L	<0.050	0.050	<0.050	0.050	460 (1)	1.0	<0.050	0.050	A056303
2-Methylnaphthalene	ug/L	<0.050	0.050	<0.050	0.050	350 (1)	1.0	<0.050	0.050	A056303
Acenaphthene	ug/L	0.28	0.010	0.055	0.010	210 (1)	0.20	0.059	0.010	A056303
Acenaphthylene	ug/L	0.032	0.010	0.014	0.010	6.2	0.010	<0.010	0.010	A056303
Anthracene	ug/L	0.75	0.010	0.048	0.010	4.7	0.010	0.094	0.010	A056303
Benzo(a)anthracene	ug/L	2.1	0.010	0.050	0.010	0.10	0.010	0.22	0.010	A056303
Benzo(a)pyrene	ug/L	1.9	0.010	0.052	0.010	0.016	0.010	0.18	0.010	A056303
Benzo(b)fluoranthene	ug/L	1.3	0.010	0.036	0.010	0.010	0.010	0.12	0.010	A056303
Benzo(b/j)fluoranthene	ug/L	2.1	0.020	<0.040	0.040	<0.020	0.020	0.12	0.10	A053672
Benzo(g,h,i)perylene	ug/L	0.72	0.010	0.028	0.010	<0.010	0.010	0.066	0.010	A056303
Benzo(j)fluoranthene	ug/L	0.87	0.010	<0.030 (2)	0.030	<0.010	0.010	<0.090 (2)	0.090	A056303
Benzo(k)fluoranthene	ug/L	0.84	0.010	0.022	0.010	<0.010	0.010	0.083	0.010	A056303
Chrysene	ug/L	2.0	0.010	0.056	0.010	0.083	0.010	0.21	0.010	A056303
Dibenzo(a,h)anthracene	ug/L	0.23	0.010	<0.010	0.010	<0.010	0.010	0.022	0.010	A056303
Fluoranthene	ug/L	4.1	0.010	0.12	0.010	3.6	0.010	0.47	0.010	A056303
Fluorene	ug/L	0.28	0.010	0.022	0.010	89 (1)	0.20	0.054	0.010	A056303
Indeno(1,2,3-cd)pyrene	ug/L	0.75	0.010	0.022	0.010	<0.010	0.010	0.066	0.010	A056303
Naphthalene	ug/L	<0.20	0.20	<0.20	0.20	2700 (1)	4.0	<0.20	0.20	A056303
Perylene	ug/L	0.37	0.010	<0.010	0.010	<0.010	0.010	0.033	0.010	A056303
Phenanthrene	ug/L	3.0	0.010	0.044	0.010	67 (1)	0.20	0.35	0.010	A056303
Pyrene	ug/L	3.3	0.010	0.20	0.010	1.8	0.010	0.36	0.010	A056303
Surrogate Recovery (%)										
D10-Anthracene	%	98		108		92		110		A056303
D14-Terphenyl	%	101 (3)		110 (3)		102 (3)		111 (3)		A056303
D8-Acenaphthylene	%	96		110		110		107		A056303

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated PAH RDL(s) due to sample dilution.
(2) Elevated PAH RDL(s) due to matrix / co-extractive interference.
(3) PAH sample contained sediment.

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		AXGT21		AXGT56		
Sampling Date		2025/11/12 15:10		2025/11/12 13:30		
	UNITS	MCWS-309-MW	RDL	25FD-04	RDL	QC Batch
Polyaromatic Hydrocarbons						
1-Methylnaphthalene	ug/L	<0.050	0.050	490 (1)	1.0	A056303
2-Methylnaphthalene	ug/L	<0.050	0.050	380 (1)	1.0	A056303
Acenaphthene	ug/L	<0.010	0.010	230 (1)	0.20	A056303
Acenaphthylene	ug/L	0.021	0.010	5.9	0.010	A056303
Anthracene	ug/L	<0.040 (2)	0.040	4.7	0.010	A056303
Benzo(a)anthracene	ug/L	0.097	0.010	0.095	0.010	A056303
Benzo(a)pyrene	ug/L	0.083	0.010	0.014	0.010	A056303
Benzo(b)fluoranthene	ug/L	0.058	0.010	<0.010	0.010	A056303
Benzo(b/j)fluoranthene	ug/L	<0.060	0.060	<0.020	0.020	A053672
Benzo(g,h,i)perylene	ug/L	0.042	0.010	<0.010	0.010	A056303
Benzo(j)fluoranthene	ug/L	<0.050 (2)	0.050	<0.010	0.010	A056303
Benzo(k)fluoranthene	ug/L	0.043	0.010	<0.010	0.010	A056303
Chrysene	ug/L	0.094	0.010	0.077	0.010	A056303
Dibenzo(a,h)anthracene	ug/L	0.011	0.010	<0.010	0.010	A056303
Fluoranthene	ug/L	0.20	0.010	3.5	0.010	A056303
Fluorene	ug/L	0.029	0.010	96 (1)	0.20	A056303
Indeno(1,2,3-cd)pyrene	ug/L	0.040	0.010	<0.010	0.010	A056303
Naphthalene	ug/L	<0.20	0.20	2600 (1)	4.0	A056303
Perylene	ug/L	0.020	0.010	<0.010	0.010	A056303
Phenanthrene	ug/L	0.13	0.010	72 (1)	0.20	A056303
Pyrene	ug/L	0.23	0.010	1.7	0.010	A056303
Surrogate Recovery (%)						
D10-Anthracene	%	88		89		A056303
D14-Terphenyl	%	91 (3)		99 (3)		A056303
D8-Acenaphthylene	%	86		102		A056303

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Elevated PAH RDL(s) due to sample dilution.
(2) Elevated PAH RDL(s) due to matrix / co-extractive interference.
(3) PAH sample contained sediment.

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ATLANTIC RBCA HYDROCARBONS (WATER)

Bureau Veritas ID		AXGS95	AXGT56		
Sampling Date		2025/11/12 13:10	2025/11/12 13:30		
	UNITS	CODT-201-MWC	25FD-04	RDL	QC Batch
Petroleum Hydrocarbons					
Benzene	mg/L	0.076	0.070	0.0010	A057931
Toluene	mg/L	0.16	0.15	0.0010	A057931
Ethylbenzene	mg/L	0.13	0.12	0.0010	A057931
Total Xylenes	mg/L	0.52	0.47	0.0020	A057931
C6 - C10 (less BTEX)	mg/L	0.32	0.31	0.090	A057931
>C10-C16 Hydrocarbons	mg/L	14	14	0.50	A055775
>C16-C21 Hydrocarbons	mg/L	<0.50	0.52	0.50	A055775
>C21-<C32 Hydrocarbons	mg/L	<0.90	<0.90	0.90	A055775
Modified TPH (Tier1)	mg/L	14	15	0.90	A053407
Reached Baseline at C32	mg/L	Yes	Yes	N/A	A055775
Hydrocarbon Resemblance	mg/L	COMMENT (1)	COMMENT (1)	N/A	A055775
Surrogate Recovery (%)					
Isobutylbenzene - Extractable	%	89	89		A055775
n-Dotriacontane - Extractable	%	101 (2)	101 (2)		A055775
Isobutylbenzene - Volatile	%	91	87		A057931

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) One product in the gas/fuel oil range.
(2) Elevated TEH RDL(s) due to sample dilution.

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GENERAL COMMENTS

Sample AXGS67 [COBB-004-MWA] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGS87 [COBC-002-MWA] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGS88 [COCP-110-MW] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGS89 [CODT-008-MWB] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGS94 [CODT-201-MWA] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGS95 [CODT-201-MWC] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGS96 [CODT-203-MW] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGT08 [CODT-205-MWA] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGT09 [CONCW-101-MWB] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGT10 [CONPL-202-MWA] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGT23 [SCU11-001-MWA] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGT24 [SCU11-001-MWB] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGT56 [25FD-04] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXGT58 [25FD-05] : Poor RCAp Ion Balance due to sample matrix.

Sample AXGT59 [25FD-07] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A055775	MGN	Matrix Spike	Isobutylbenzene - Extractable	2025/11/18		93	%	70 - 130
			n-Dotriacontane - Extractable	2025/11/18		101	%	70 - 130
			>C10-C16 Hydrocarbons	2025/11/18		86	%	70 - 130
			>C16-C21 Hydrocarbons	2025/11/18		86	%	70 - 130
			>C21-<C32 Hydrocarbons	2025/11/18		89	%	70 - 130
A055775	MGN	Spiked Blank	Isobutylbenzene - Extractable	2025/11/18		97	%	70 - 130
			n-Dotriacontane - Extractable	2025/11/18		108	%	70 - 130
			>C10-C16 Hydrocarbons	2025/11/18		93	%	70 - 130
			>C16-C21 Hydrocarbons	2025/11/18		91	%	70 - 130
			>C21-<C32 Hydrocarbons	2025/11/18		93	%	70 - 130
A055775	MGN	Method Blank	Isobutylbenzene - Extractable	2025/11/18		96	%	70 - 130
			n-Dotriacontane - Extractable	2025/11/18		96	%	70 - 130
			>C10-C16 Hydrocarbons	2025/11/18	<0.050		mg/L	
			>C16-C21 Hydrocarbons	2025/11/18	<0.050		mg/L	
			>C21-<C32 Hydrocarbons	2025/11/18	<0.090		mg/L	
A055775	MGN	RPD	>C10-C16 Hydrocarbons	2025/11/18	NC		%	40
			>C16-C21 Hydrocarbons	2025/11/18	NC		%	40
			>C21-<C32 Hydrocarbons	2025/11/18	NC		%	40
A056303	EPA	Matrix Spike	D10-Anthracene	2025/11/18		84	%	50 - 130
			D14-Terphenyl	2025/11/18		85 (1)	%	50 - 130
			D8-Acenaphthylene	2025/11/18		81	%	50 - 130
			1-Methylnaphthalene	2025/11/18		70	%	50 - 130
			2-Methylnaphthalene	2025/11/18		75	%	50 - 130
			Acenaphthene	2025/11/18		73	%	50 - 130
			Acenaphthylene	2025/11/18		80	%	50 - 130
			Anthracene	2025/11/18		84	%	50 - 130
			Benzo(a)anthracene	2025/11/18		81	%	50 - 130
			Benzo(a)pyrene	2025/11/18		79	%	50 - 130
			Benzo(b)fluoranthene	2025/11/18		74	%	50 - 130
			Benzo(g,h,i)perylene	2025/11/18		69	%	50 - 130
			Benzo(j)fluoranthene	2025/11/18		78	%	50 - 130
			Benzo(k)fluoranthene	2025/11/18		75	%	50 - 130
			Chrysene	2025/11/18		80	%	50 - 130
			Dibenzo(a,h)anthracene	2025/11/18		71	%	50 - 130
			Fluoranthene	2025/11/18		79	%	50 - 130
			Fluorene	2025/11/18		75	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/11/18		72	%	50 - 130
			Naphthalene	2025/11/18		70	%	50 - 130
			Perylene	2025/11/18		74	%	50 - 130
			Phenanthrene	2025/11/18		77	%	50 - 130
			Pyrene	2025/11/18		78	%	50 - 130
A056303	EPA	Spiked Blank	D10-Anthracene	2025/11/18		114	%	50 - 130
			D14-Terphenyl	2025/11/18		113	%	50 - 130
			D8-Acenaphthylene	2025/11/18		115	%	50 - 130
			1-Methylnaphthalene	2025/11/18		98	%	50 - 130
			2-Methylnaphthalene	2025/11/18		106	%	50 - 130
			Acenaphthene	2025/11/18		103	%	50 - 130
			Acenaphthylene	2025/11/18		114	%	50 - 130
			Anthracene	2025/11/18		120	%	50 - 130
			Benzo(a)anthracene	2025/11/18		114	%	50 - 130
			Benzo(a)pyrene	2025/11/18		112	%	50 - 130
			Benzo(b)fluoranthene	2025/11/18		105	%	50 - 130
			Benzo(g,h,i)perylene	2025/11/18		103	%	50 - 130
			Benzo(j)fluoranthene	2025/11/18		110	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(k)fluoranthene	2025/11/18		102	%	50 - 130
			Chrysene	2025/11/18		112	%	50 - 130
			Dibenzo(a,h)anthracene	2025/11/18		96	%	50 - 130
			Fluoranthene	2025/11/18		110	%	50 - 130
			Fluorene	2025/11/18		105	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/11/18		104	%	50 - 130
			Naphthalene	2025/11/18		100	%	50 - 130
			Perylene	2025/11/18		106	%	50 - 130
			Phenanthrene	2025/11/18		109	%	50 - 130
			Pyrene	2025/11/18		108	%	50 - 130
A056303	EPA	Method Blank	D10-Anthracene	2025/11/18		129	%	50 - 130
			D14-Terphenyl	2025/11/18		122	%	50 - 130
			D8-Acenaphthylene	2025/11/18		123	%	50 - 130
			1-Methylnaphthalene	2025/11/18	<0.050		ug/L	
			2-Methylnaphthalene	2025/11/18	<0.050		ug/L	
			Acenaphthene	2025/11/18	<0.010		ug/L	
			Acenaphthylene	2025/11/18	<0.010		ug/L	
			Anthracene	2025/11/18	<0.010		ug/L	
			Benzo(a)anthracene	2025/11/18	<0.010		ug/L	
			Benzo(a)pyrene	2025/11/18	<0.010		ug/L	
			Benzo(b)fluoranthene	2025/11/18	<0.010		ug/L	
			Benzo(g,h,i)perylene	2025/11/18	<0.010		ug/L	
			Benzo(j)fluoranthene	2025/11/18	<0.010		ug/L	
			Benzo(k)fluoranthene	2025/11/18	<0.010		ug/L	
			Chrysene	2025/11/18	<0.010		ug/L	
			Dibenzo(a,h)anthracene	2025/11/18	<0.010		ug/L	
			Fluoranthene	2025/11/18	<0.010		ug/L	
			Fluorene	2025/11/18	<0.010		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/11/18	<0.010		ug/L	
			Naphthalene	2025/11/18	<0.20		ug/L	
			Perylene	2025/11/18	<0.010		ug/L	
			Phenanthrene	2025/11/18	<0.010		ug/L	
			Pyrene	2025/11/18	<0.010		ug/L	
A056303	EPA	RPD	1-Methylnaphthalene	2025/11/18	NC		%	40
			2-Methylnaphthalene	2025/11/18	NC		%	40
			Acenaphthene	2025/11/18	7.2		%	40
			Acenaphthylene	2025/11/18	NC		%	40
			Anthracene	2025/11/18	19		%	40
			Benzo(a)anthracene	2025/11/18	6.0		%	40
			Benzo(a)pyrene	2025/11/18	NC		%	40
			Benzo(b)fluoranthene	2025/11/18	0.87		%	40
			Benzo(g,h,i)perylene	2025/11/18	NC		%	40
			Benzo(j)fluoranthene	2025/11/18	NC		%	40
			Benzo(k)fluoranthene	2025/11/18	NC		%	40
			Chrysene	2025/11/18	11		%	40
			Dibenzo(a,h)anthracene	2025/11/18	NC		%	40
			Fluoranthene	2025/11/18	11		%	40
			Fluorene	2025/11/18	5.9		%	40
			Indeno(1,2,3-cd)pyrene	2025/11/18	NC		%	40
			Naphthalene	2025/11/18	NC		%	40
			Perylene	2025/11/18	NC		%	40
			Phenanthrene	2025/11/18	3.2		%	40
			Pyrene	2025/11/18	8.9		%	40
A056356	MTZ	Matrix Spike	Dissolved Aluminum (Al)	2025/11/18		109	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Antimony (Sb)	2025/11/18		97	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		104	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		103	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		103	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		97	%	80 - 120
			Dissolved Boron (B)	2025/11/18		90	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		104	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		109	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		104	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		104	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		105	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		113	%	80 - 120
			Dissolved Lead (Pb)	2025/11/18		107	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		118	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		97	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		105	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		117	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		114	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		103	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		103	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		110	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		104	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		98	%	80 - 120
			Dissolved Tin (Sn)	2025/11/18		97	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		105	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		111	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		106	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		99	%	80 - 120
A056356	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/18		106	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/18		98	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		100	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		99	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		99	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		99	%	80 - 120
			Dissolved Boron (B)	2025/11/18		93	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		101	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		103	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		99	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		100	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		101	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		106	%	80 - 120
			Dissolved Lead (Pb)	2025/11/18		103	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		109	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		98	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		101	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		109	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		109	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		99	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		101	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		105	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		100	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		100	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Tin (Sn)	2025/11/18		99	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		102	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		107	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		101	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		97	%	80 - 120
A056356	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/18	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/18	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/18	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/18	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/18	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/18	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/18	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/18	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/18	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/18	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/18	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/18	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/18	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/18	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/18	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/18	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/18	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/18	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/18	<100		ug/L	
			Dissolved Potassium (K)	2025/11/18	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/18	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/18	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/18	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/18	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/18	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/18	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/18	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/18	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/18	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/18	<5.0		ug/L	
A056356	MTZ	RPD	Dissolved Aluminum (Al)	2025/11/18	NC		%	20
			Dissolved Antimony (Sb)	2025/11/18	NC		%	20
			Dissolved Arsenic (As)	2025/11/18	NC		%	20
			Dissolved Barium (Ba)	2025/11/18	2.0		%	20
			Dissolved Beryllium (Be)	2025/11/18	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/18	NC		%	20
			Dissolved Boron (B)	2025/11/18	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/18	NC		%	20
			Dissolved Calcium (Ca)	2025/11/18	0.79		%	20
			Dissolved Chromium (Cr)	2025/11/18	NC		%	20
			Dissolved Cobalt (Co)	2025/11/18	NC		%	20
			Dissolved Copper (Cu)	2025/11/18	NC		%	20
			Dissolved Iron (Fe)	2025/11/18	NC		%	20
			Dissolved Lead (Pb)	2025/11/18	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/18	1.1		%	20
			Dissolved Manganese (Mn)	2025/11/18	1.6		%	20
			Dissolved Molybdenum (Mo)	2025/11/18	NC		%	20
			Dissolved Nickel (Ni)	2025/11/18	NC		%	20
			Dissolved Phosphorus (P)	2025/11/18	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Potassium (K)	2025/11/18	4.5		%	20
			Dissolved Selenium (Se)	2025/11/18	NC		%	20
			Dissolved Silver (Ag)	2025/11/18	NC		%	20
			Dissolved Sodium (Na)	2025/11/18	0.21		%	20
			Dissolved Strontium (Sr)	2025/11/18	2.3		%	20
			Dissolved Thallium (Tl)	2025/11/18	NC		%	20
			Dissolved Tin (Sn)	2025/11/18	NC		%	20
			Dissolved Titanium (Ti)	2025/11/18	NC		%	20
			Dissolved Uranium (U)	2025/11/18	NC		%	20
			Dissolved Vanadium (V)	2025/11/18	NC		%	20
			Dissolved Zinc (Zn)	2025/11/18	NC		%	20
A056358	MOA	Matrix Spike [AXGT22-02]	Dissolved Aluminum (Al)	2025/11/18		108	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/18		100	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		104	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		101	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		99	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		95	%	80 - 120
			Dissolved Boron (B)	2025/11/18		83	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		103	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		NC	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		101	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		102	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		102	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		108	%	80 - 120
			Dissolved Lead (Pb)	2025/11/18		104	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		107	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		97	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		103	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		113	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		111	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		102	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		98	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		NC	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		98	%	80 - 120
			Dissolved Tin (Sn)	2025/11/18		99	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		101	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		110	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		104	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		98	%	80 - 120
A056358	MOA	Spiked Blank	Dissolved Aluminum (Al)	2025/11/18		103	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/18		100	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		103	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		100	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		99	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		100	%	80 - 120
			Dissolved Boron (B)	2025/11/18		92	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		103	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		104	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		102	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		103	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		104	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		107	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Lead (Pb)	2025/11/18		105	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		111	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		100	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		103	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		109	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		108	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		100	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		103	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		107	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		102	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		101	%	80 - 120
			Dissolved Tin (Sn)	2025/11/18		100	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		102	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		110	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		105	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		102	%	80 - 120
A056358	MOA	Method Blank	Dissolved Aluminum (Al)	2025/11/18	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/18	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/18	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/18	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/18	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/18	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/18	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/18	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/18	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/18	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/18	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/18	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/18	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/18	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/18	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/18	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/18	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/18	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/18	<100		ug/L	
			Dissolved Potassium (K)	2025/11/18	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/18	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/18	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/18	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/18	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/18	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/18	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/18	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/18	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/18	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/18	<5.0		ug/L	
A056358	MOA	RPD [AXGT22-02]	Dissolved Aluminum (Al)	2025/11/18	2.3		%	20
			Dissolved Antimony (Sb)	2025/11/18	NC		%	20
			Dissolved Arsenic (As)	2025/11/18	NC		%	20
			Dissolved Barium (Ba)	2025/11/18	1.0		%	20
			Dissolved Beryllium (Be)	2025/11/18	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/18	NC		%	20
			Dissolved Boron (B)	2025/11/18	14		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Cadmium (Cd)	2025/11/18	5.6		%	20
			Dissolved Calcium (Ca)	2025/11/18	0.13		%	20
			Dissolved Chromium (Cr)	2025/11/18	NC		%	20
			Dissolved Cobalt (Co)	2025/11/18	NC		%	20
			Dissolved Copper (Cu)	2025/11/18	0.23		%	20
			Dissolved Iron (Fe)	2025/11/18	1.4		%	20
			Dissolved Lead (Pb)	2025/11/18	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/18	0.18		%	20
			Dissolved Manganese (Mn)	2025/11/18	0.56		%	20
			Dissolved Molybdenum (Mo)	2025/11/18	NC		%	20
			Dissolved Nickel (Ni)	2025/11/18	NC		%	20
			Dissolved Phosphorus (P)	2025/11/18	NC		%	20
			Dissolved Potassium (K)	2025/11/18	1.7		%	20
			Dissolved Selenium (Se)	2025/11/18	NC		%	20
			Dissolved Silver (Ag)	2025/11/18	NC		%	20
			Dissolved Sodium (Na)	2025/11/18	0.50		%	20
			Dissolved Strontium (Sr)	2025/11/18	0.74		%	20
			Dissolved Thallium (Tl)	2025/11/18	NC		%	20
			Dissolved Tin (Sn)	2025/11/18	NC		%	20
			Dissolved Titanium (Ti)	2025/11/18	NC		%	20
			Dissolved Uranium (U)	2025/11/18	2.2		%	20
			Dissolved Vanadium (V)	2025/11/18	NC		%	20
			Dissolved Zinc (Zn)	2025/11/18	2.8		%	20
A056360	MOA	Matrix Spike [AXGT58-02]	Dissolved Aluminum (Al)	2025/11/18		98	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/18		102	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		100	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		97	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		95	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		100	%	80 - 120
			Dissolved Boron (B)	2025/11/18		92	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		99	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		NC	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		98	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		98	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		100	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		102	%	80 - 120
			Dissolved Lead (Pb)	2025/11/18		98	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		105	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		104	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		99	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		104	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		99	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		96	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		94	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		97	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		101	%	80 - 120
			Dissolved Tin (Sn)	2025/11/18		102	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		97	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		106	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		101	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		100	%	80 - 120
A056360	MOA	Spiked Blank	Dissolved Aluminum (Al)	2025/11/18		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Antimony (Sb)	2025/11/18		101	%	80 - 120
			Dissolved Arsenic (As)	2025/11/18		99	%	80 - 120
			Dissolved Barium (Ba)	2025/11/18		99	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/18		95	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/18		99	%	80 - 120
			Dissolved Boron (B)	2025/11/18		92	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/18		99	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/18		95	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/18		98	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/18		99	%	80 - 120
			Dissolved Copper (Cu)	2025/11/18		100	%	80 - 120
			Dissolved Iron (Fe)	2025/11/18		102	%	80 - 120
			Dissolved Lead (Pb)	2025/11/18		98	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/18		104	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/18		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/18		104	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/18		101	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/18		100	%	80 - 120
			Dissolved Potassium (K)	2025/11/18		98	%	80 - 120
			Dissolved Selenium (Se)	2025/11/18		96	%	80 - 120
			Dissolved Silver (Ag)	2025/11/18		96	%	80 - 120
			Dissolved Sodium (Na)	2025/11/18		99	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/18		98	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/18		101	%	80 - 120
			Dissolved Tin (Sn)	2025/11/18		101	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/18		96	%	80 - 120
			Dissolved Uranium (U)	2025/11/18		105	%	80 - 120
			Dissolved Vanadium (V)	2025/11/18		100	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/18		101	%	80 - 120
A056360	MOA	Method Blank	Dissolved Aluminum (Al)	2025/11/18	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/18	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/18	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/18	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/18	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/18	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/18	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/18	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/18	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/18	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/18	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/18	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/18	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/18	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/18	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/18	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/18	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/18	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/18	<100		ug/L	
			Dissolved Potassium (K)	2025/11/18	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/18	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/18	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/18	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/18	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/18	<0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Tin (Sn)	2025/11/18	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/18	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/18	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/18	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/18	<5.0		ug/L	
A056360	MOA	RPD [AXGT58-02]	Dissolved Aluminum (Al)	2025/11/18	0.26		%	20
			Dissolved Antimony (Sb)	2025/11/18	NC		%	20
			Dissolved Arsenic (As)	2025/11/18	3.8		%	20
			Dissolved Barium (Ba)	2025/11/18	1.6		%	20
			Dissolved Beryllium (Be)	2025/11/18	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/18	NC		%	20
			Dissolved Boron (B)	2025/11/18	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/18	NC		%	20
			Dissolved Calcium (Ca)	2025/11/18	1.2		%	20
			Dissolved Chromium (Cr)	2025/11/18	6.4		%	20
			Dissolved Cobalt (Co)	2025/11/18	NC		%	20
			Dissolved Copper (Cu)	2025/11/18	4.0		%	20
			Dissolved Iron (Fe)	2025/11/18	NC		%	20
			Dissolved Lead (Pb)	2025/11/18	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/18	0.11		%	20
			Dissolved Manganese (Mn)	2025/11/18	NC		%	20
			Dissolved Molybdenum (Mo)	2025/11/18	2.3		%	20
			Dissolved Nickel (Ni)	2025/11/18	NC		%	20
			Dissolved Phosphorus (P)	2025/11/18	NC		%	20
			Dissolved Potassium (K)	2025/11/18	1.9		%	20
			Dissolved Selenium (Se)	2025/11/18	0.93		%	20
			Dissolved Silver (Ag)	2025/11/18	NC		%	20
			Dissolved Sodium (Na)	2025/11/18	0.11		%	20
			Dissolved Strontium (Sr)	2025/11/18	0.27		%	20
			Dissolved Thallium (Tl)	2025/11/18	NC		%	20
			Dissolved Tin (Sn)	2025/11/18	NC		%	20
			Dissolved Titanium (Ti)	2025/11/18	NC		%	20
			Dissolved Uranium (U)	2025/11/18	6.9		%	20
			Dissolved Vanadium (V)	2025/11/18	2.7		%	20
			Dissolved Zinc (Zn)	2025/11/18	NC		%	20
A057931	THL	Matrix Spike [AXGT56-07]	Isobutylbenzene - Volatile	2025/11/20		89	%	70 - 130
			Benzene	2025/11/20		90	%	70 - 130
			Toluene	2025/11/20		NC	%	70 - 130
			Ethylbenzene	2025/11/20		NC	%	70 - 130
			Total Xylenes	2025/11/20		100	%	70 - 130
A057931	THL	Spiked Blank	Isobutylbenzene - Volatile	2025/11/20		107	%	70 - 130
			Benzene	2025/11/20		101	%	70 - 130
			Toluene	2025/11/20		99	%	70 - 130
			Ethylbenzene	2025/11/20		102	%	70 - 130
			Total Xylenes	2025/11/20		107	%	70 - 130
A057931	THL	Method Blank	Isobutylbenzene - Volatile	2025/11/20		107	%	70 - 130
			Benzene	2025/11/20	<0.0010		mg/L	
			Toluene	2025/11/20	<0.0010		mg/L	
			Ethylbenzene	2025/11/20	<0.0010		mg/L	
			Total Xylenes	2025/11/20	<0.0020		mg/L	
			C6 - C10 (less BTEX)	2025/11/20	<0.090		mg/L	
A057931	THL	RPD [AXGS95-07]	Benzene	2025/11/20	6.8		%	40
			Toluene	2025/11/20	6.6		%	40
			Ethylbenzene	2025/11/20	6.9		%	40

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Xylenes	2025/11/20	7.7		%	40
			C6 - C10 (less BTEX)	2025/11/20	2.0		%	40
A060163	J1A	Spiked Blank	pH	2025/11/25		99	%	97 - 103
A060163	J1A	RPD	pH	2025/11/25	0.74		%	N/A
A060164	J1A	Spiked Blank	Conductivity	2025/11/25		97	%	80 - 120
A060164	J1A	Method Blank	Conductivity	2025/11/25	<1.0		uS/cm	
A060164	J1A	RPD	Conductivity	2025/11/25	0.33		%	10
A060166	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/25		107	%	80 - 120
A060166	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/25	<2.0		mg/L	
A060166	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/25	1.7		%	20
A061385	KMC	QC Standard	Turbidity	2025/11/26		104	%	80 - 120
A061385	KMC	Spiked Blank	Turbidity	2025/11/26		102	%	80 - 120
A061385	KMC	Method Blank	Turbidity	2025/11/26	<0.10		NTU	
A061385	KMC	RPD	Turbidity	2025/11/26	1.7		%	20
A061388	J1A	QC Standard	Turbidity	2025/11/26		104	%	80 - 120
A061388	J1A	Spiked Blank	Turbidity	2025/11/26		102	%	80 - 120
A061388	J1A	Method Blank	Turbidity	2025/11/26	<0.10		NTU	
A061388	J1A	RPD	Turbidity	2025/11/26	13		%	20
A061390	J1A	QC Standard	Turbidity	2025/11/26		106	%	80 - 120
A061390	J1A	Spiked Blank	Turbidity	2025/11/26		102	%	80 - 120
A061390	J1A	Method Blank	Turbidity	2025/11/26	<0.10		NTU	
A061390	J1A	RPD	Turbidity	2025/11/26	NC		%	20
A061773	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2025/11/26		89	%	80 - 120
A061773	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/26		93	%	80 - 120
A061773	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/26	<1.0		mg/L	
A061773	MCN	RPD	Dissolved Chloride (Cl-)	2025/11/26	1.1		%	20
A061777	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2025/11/26		NC	%	80 - 120
A061777	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/26		101	%	80 - 120
A061777	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/26	<2.0		mg/L	
A061777	MCN	RPD	Dissolved Sulphate (SO4)	2025/11/26	2.2		%	20
A061779	MCN	Matrix Spike	Reactive Silica (SiO2)	2025/11/26		NC	%	80 - 120
A061779	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/26		95	%	80 - 120
A061779	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/27	<0.50		mg/L	
A061779	MCN	RPD	Reactive Silica (SiO2)	2025/11/26	1.4		%	20
A061780	MCN	Spiked Blank	Colour	2025/11/27		108	%	80 - 120
A061780	MCN	Method Blank	Colour	2025/11/27	<5.0		TCU	
A061780	MCN	RPD	Colour	2025/11/27	NC		%	20
A061782	MCN	Matrix Spike	Orthophosphate (P)	2025/11/27		96	%	80 - 120
A061782	MCN	Spiked Blank	Orthophosphate (P)	2025/11/27		101	%	80 - 120
A061782	MCN	Method Blank	Orthophosphate (P)	2025/11/27	<0.010		mg/L	
A061782	MCN	RPD	Orthophosphate (P)	2025/11/27	NC		%	20
A061784	MCN	Matrix Spike	Nitrate + Nitrite (N)	2025/11/26		100	%	80 - 120
A061784	MCN	Spiked Blank	Nitrate + Nitrite (N)	2025/11/26		100	%	80 - 120
A061784	MCN	Method Blank	Nitrate + Nitrite (N)	2025/11/26	<0.050		mg/L	
A061784	MCN	RPD	Nitrate + Nitrite (N)	2025/11/26	1.1		%	20
A061785	MCN	Matrix Spike	Nitrite (N)	2025/11/26		101	%	80 - 120
A061785	MCN	Spiked Blank	Nitrite (N)	2025/11/26		100	%	80 - 120
A061785	MCN	Method Blank	Nitrite (N)	2025/11/26	<0.010		mg/L	
A061785	MCN	RPD	Nitrite (N)	2025/11/26	NC		%	20
A061787	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2025/11/26		92	%	80 - 120
A061787	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/26		92	%	80 - 120
A061787	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/26	<1.0		mg/L	
A061787	MCN	RPD	Dissolved Chloride (Cl-)	2025/11/26	NC		%	20
A061792	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2025/11/26		95	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A061792	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/26		99	%	80 - 120
A061792	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/26	<2.0		mg/L	
A061792	MCN	RPD	Dissolved Sulphate (SO4)	2025/11/26	NC		%	20
A061795	MCN	Matrix Spike	Reactive Silica (SiO2)	2025/11/26		88	%	80 - 120
A061795	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/26		93	%	80 - 120
A061795	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/26	<0.50		mg/L	
A061795	MCN	RPD	Reactive Silica (SiO2)	2025/11/26	NC		%	20
A061796	MCN	Spiked Blank	Colour	2025/11/27		110	%	80 - 120
A061796	MCN	Method Blank	Colour	2025/11/27	<5.0		TCU	
A061796	MCN	RPD	Colour	2025/11/27	NC		%	20
A061798	MCN	Matrix Spike	Orthophosphate (P)	2025/11/27		99	%	80 - 120
A061798	MCN	Spiked Blank	Orthophosphate (P)	2025/11/27		97	%	80 - 120
A061798	MCN	Method Blank	Orthophosphate (P)	2025/11/27	<0.010		mg/L	
A061798	MCN	RPD	Orthophosphate (P)	2025/11/27	NC		%	20
A061799	MCN	Matrix Spike	Nitrate + Nitrite (N)	2025/11/27		101	%	80 - 120
A061799	MCN	Spiked Blank	Nitrate + Nitrite (N)	2025/11/27		93	%	80 - 120
A061799	MCN	Method Blank	Nitrate + Nitrite (N)	2025/11/27	<0.050		mg/L	
A061799	MCN	RPD	Nitrate + Nitrite (N)	2025/11/27	NC		%	20
A061800	MCN	Matrix Spike	Nitrite (N)	2025/11/26		108	%	80 - 120
A061800	MCN	Spiked Blank	Nitrite (N)	2025/11/26		104	%	80 - 120
A061800	MCN	Method Blank	Nitrite (N)	2025/11/27	<0.010		mg/L	
A061800	MCN	RPD	Nitrite (N)	2025/11/26	NC		%	20
A061890	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/26		99	%	85 - 115
A061890	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/26		101	%	80 - 120
A061890	S6S	Method Blank	Total Organic Carbon (C)	2025/11/26	<0.50		mg/L	
A061890	S6S	RPD	Total Organic Carbon (C)	2025/11/26	NC		%	15
A061978	J1A	Spiked Blank	pH	2025/11/26		99	%	97 - 103
A061978	J1A	RPD	pH	2025/11/26	0.0013		%	N/A
A061980	J1A	Spiked Blank	Conductivity	2025/11/26		99	%	80 - 120
A061980	J1A	Method Blank	Conductivity	2025/11/27	<1.0		uS/cm	
A061980	J1A	RPD	Conductivity	2025/11/26	1.1		%	10
A061982	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/26		99	%	80 - 120
A061982	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/26	<2.0		mg/L	
A061982	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/26	0.62		%	20
A061986	J1A	Spiked Blank	pH	2025/11/27		99	%	97 - 103
A061986	J1A	RPD	pH	2025/11/27	0.70		%	N/A
A061988	J1A	Spiked Blank	Conductivity	2025/11/27		97	%	80 - 120
A061988	J1A	Method Blank	Conductivity	2025/11/27	<1.0		uS/cm	
A061988	J1A	RPD	Conductivity	2025/11/27	0.71		%	10
A061991	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/27		99	%	80 - 120
A061991	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/27	<2.0		mg/L	
A061991	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/27	NC		%	20
A062013	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/26		99	%	85 - 115
A062013	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/26		106	%	80 - 120
A062013	S6S	Method Blank	Total Organic Carbon (C)	2025/11/26	<0.50		mg/L	
A062013	S6S	RPD	Total Organic Carbon (C)	2025/11/26	12		%	15
A062138	KMC	QC Standard	Turbidity	2025/11/27		101	%	80 - 120
A062138	KMC	Spiked Blank	Turbidity	2025/11/27		101	%	80 - 120
A062138	KMC	Method Blank	Turbidity	2025/11/27	<0.10		NTU	
A062138	KMC	RPD	Turbidity	2025/11/27	2.7		%	20
A062147	J1A	QC Standard	Turbidity	2025/11/27		102	%	80 - 120
A062147	J1A	Spiked Blank	Turbidity	2025/11/27		101	%	80 - 120
A062147	J1A	Method Blank	Turbidity	2025/11/27	<0.10		NTU	
A062147	J1A	RPD [AXGS94-01]	Turbidity	2025/11/27	0.65		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A062150	J1A	QC Standard	Turbidity	2025/11/27		103	%	80 - 120
A062150	J1A	Spiked Blank	Turbidity	2025/11/27		101	%	80 - 120
A062150	J1A	Method Blank	Turbidity	2025/11/27	<0.10		NTU	
A062150	J1A	RPD	Turbidity	2025/11/27	3.6		%	20
A062816	MCN	Matrix Spike [AXGS96-03]	Nitrogen (Ammonia Nitrogen)	2025/11/27		102	%	80 - 120
A062816	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/27		101	%	80 - 120
A062816	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/27	<0.050		mg/L	
A062816	MCN	RPD [AXGS96-03]	Nitrogen (Ammonia Nitrogen)	2025/11/27	NC		%	20
A062819	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2025/11/27		108	%	80 - 120
A062819	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/27		104	%	80 - 120
A062819	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/27	<0.050		mg/L	
A062819	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2025/11/27	7.2		%	20
A062828	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/27		102	%	85 - 115
A062828	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/27		108	%	80 - 120
A062828	S6S	Method Blank	Total Organic Carbon (C)	2025/11/27	<0.50		mg/L	
A062828	S6S	RPD	Total Organic Carbon (C)	2025/11/27	3.0		%	15
A062830	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/27		99	%	85 - 115
A062830	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/27		103	%	80 - 120
A062830	S6S	Method Blank	Total Organic Carbon (C)	2025/11/27	<0.50		mg/L	
A062830	S6S	RPD	Total Organic Carbon (C)	2025/11/27	NC		%	15
A062835	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/28		91	%	85 - 115
A062835	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/28		102	%	80 - 120
A062835	S6S	Method Blank	Total Organic Carbon (C)	2025/11/28	<0.50		mg/L	
A062835	S6S	RPD	Total Organic Carbon (C)	2025/11/28	10		%	15
A062867	J1A	Spiked Blank	pH	2025/11/27		99	%	97 - 103
A062867	J1A	RPD	pH	2025/11/27	0.11		%	N/A
A062870	J1A	Spiked Blank	Conductivity	2025/11/27		94	%	80 - 120
A062870	J1A	Method Blank	Conductivity	2025/11/27	<1.0		uS/cm	
A062870	J1A	RPD	Conductivity	2025/11/27	0.78		%	10
A062871	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/27		99	%	80 - 120
A062871	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/27	<2.0		mg/L	
A062871	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/27	2.4		%	20
A062872	J1A	Spiked Blank	pH	2025/11/27		99	%	97 - 103
A062872	J1A	RPD	pH	2025/11/27	0.54		%	N/A
A062876	J1A	Spiked Blank	Conductivity	2025/11/27		97	%	80 - 120
A062876	J1A	Method Blank	Conductivity	2025/11/27	<1.0		uS/cm	
A062876	J1A	RPD	Conductivity	2025/11/27	0.19		%	10
A062877	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/27		98	%	80 - 120
A062877	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/27	<2.0		mg/L	
A062877	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/27	2.4		%	20
A062958	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/27		98	%	85 - 115
A062958	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/27		102	%	80 - 120
A062958	S6S	Method Blank	Total Organic Carbon (C)	2025/11/27	<0.50		mg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A062958	S6S	RPD	Total Organic Carbon (C)	2025/11/27	NC		%	15

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.

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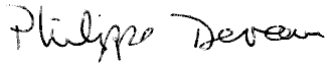
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist



Phil Deveau, Scientific Specialist (Organics)

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

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Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/27
Report #: R8659061
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E5069
Received: 2025/11/14, 16:50

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide (1)	18	N/A	2025/11/21	N/A	SM 24 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2025/11/24	N/A	SM 24 4500-CO2 D
Alkalinity (1)	17	N/A	2025/11/20	ATL SOP 00142	SM 24 2320 B
Alkalinity (1)	2	N/A	2025/11/21	ATL SOP 00142	SM 24 2320 B
Chloride (1)	18	N/A	2025/11/21	ATL SOP 00014	SM 24 4500-Cl- E m
Chloride (1)	1	N/A	2025/11/26	ATL SOP 00014	SM 24 4500-Cl- E m
Colour (1)	19	N/A	2025/11/21	ATL SOP 00020	SM 24 2120C m
Conductance - water (1)	17	N/A	2025/11/20	ATL SOP 00004	SM 24 2510B m
Conductance - water (1)	2	N/A	2025/11/21	ATL SOP 00004	SM 24 2510B m
Hardness (calculated as CaCO3) (1)	3	N/A	2025/11/20	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3) (1)	15	N/A	2025/11/21	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3) (1)	1	N/A	2025/11/25	ATL SOP 00048	Auto Calc
Metals Water Diss. MS- Lab Filtered (1, 2)	1	N/A	2025/11/21	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS- Field Filtered (1)	17	N/A	2025/11/20	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS- Field Filtered (1)	1	N/A	2025/11/21	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference) (1)	19	N/A	2025/11/25	N/A	Auto Calc.
Anion and Cation Sum (1)	19	N/A	2025/11/25	N/A	Auto Calc.
Nitrogen Ammonia - water (1)	19	N/A	2025/11/25	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite (1)	19	N/A	2025/11/21	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite (1)	19	N/A	2025/11/21	ATL SOP 00017	SM 24 4500-NO2- B m
Nitrogen - Nitrate (as N) (1)	19	N/A	2025/11/24	ATL SOP 00018	ASTM D3867-16
pH (1, 3)	16	N/A	2025/11/20	ATL SOP 00003	SM 24 4500-H+ B m
pH (1, 3)	3	N/A	2025/11/21	ATL SOP 00003	SM 24 4500-H+ B m
Phosphorus - ortho (1)	19	N/A	2025/11/21	ATL SOP 00021	SM 24 4500-P E m
Sat. pH and Langelier Index (@ 20C) (1)	19	N/A	2025/11/25	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	19	N/A	2025/11/25	ATL SOP 00049	Auto Calc.
Reactive Silica (1)	18	N/A	2025/11/21	ATL SOP 00022	EPA 366.0 m
Reactive Silica (1)	1	N/A	2025/11/26	ATL SOP 00022	EPA 366.0 m
Sulphate (1)	18	N/A	2025/11/21	ATL SOP 00023	ASTM D516-16 m
Sulphate (1)	1	N/A	2025/11/26	ATL SOP 00023	ASTM D516-16 m
Total Dissolved Solids (TDS calc) (1)	19	N/A	2025/11/25	N/A	Auto Calc.
Organic carbon - Total (TOC) (1, 4)	6	N/A	2025/11/20	ATL SOP 00203	SM 24 5310B m

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/27
Report #: R8659061
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E5069
Received: 2025/11/14, 16:50

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Organic carbon - Total (TOC) (1, 4)	13	N/A	2025/11/21	ATL SOP 00203	SM 24 5310B m
Turbidity (1)	19	N/A	2025/11/21	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Bureau Veritas 465 George St., Unit G, Sydney, NS, B1P 1K5 Tel:902 567 1255 Toll Free: 888 535 7770 Fax: 902 539 6504 www.bvna.com

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/27
Report #: R8659061
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CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E5069
Received: 2025/11/14, 16:50

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
27 Nov 2025 16:44:14

Please direct all questions regarding this Certificate of Analysis to:
Natalie MacAskill, Key Account Specialist
Email: Natalie.MacAskill@bureauveritas.com
Phone# (902)567-1255 Ext:17

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO36			AXJO50			AXJO51		
Sampling Date		2025/11/14 13:15			2025/11/14 10:15			2025/11/14 09:05		
	UNITS	COBC-004-MWA	RDL	QC Batch	COBT-003-MWB	RDL	QC Batch	COSCW-001-MWA	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	14.2	N/A	A055661	9.86	N/A	A055661	5.11	N/A	A055309
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	190	1.0	A055654	200	1.0	A055654	190	1.0	A055304
Calculated TDS	mg/L	890	1.0	A055669	570	1.0	A055669	300	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.5	1.0	A055654	1.4	1.0	A055654	1.9	1.0	A055304
Cation Sum	me/L	15.2	N/A	A055661	10.2	N/A	A055661	5.89	N/A	A055309
Hardness (CaCO3)	mg/L	520	1.0	A055658	300	1.0	A055658	230	1.0	A055305
Ion Balance (% Difference)	%	3.13	N/A	A055660	1.79	N/A	A055660	7.09	N/A	A055308
Langelier Index (@ 20C)	N/A	1.10		A055666	0.685		A055666	0.767		A055315
Langelier Index (@ 4C)	N/A	0.858		A055667	0.437		A055667	0.518		A055316
Nitrate (N)	mg/L	1.3	0.050	A055662	<0.050	0.050	A055662	<0.050	0.050	A055311
Saturation pH (@ 20C)	N/A	7.04		A055666	7.17		A055666	7.25		A055315
Saturation pH (@ 4C)	N/A	7.29		A055667	7.42		A055667	7.49		A055316
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	190	2.0	A058133	200	2.0	A058123	190	2.0	A058133
Dissolved Chloride (Cl-)	mg/L	150	5.0	A058418	160	5.0	A058418	14	1.0	A058418
Colour	TCU	<5.0	5.0	A058443	<5.0	5.0	A058443	<5.0	5.0	A058443
Nitrate + Nitrite (N)	mg/L	1.3	0.050	A058447	<0.050	0.050	A058447	<0.050	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	A058450	<0.010	0.010	A058450	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	A060316	<0.050	0.050	A060316	0.062	0.050	A060316
Total Organic Carbon (C)	mg/L	1.5	0.50	A058050	1.3	0.50	A058906	<5.0 (1)	5.0	A058909
Orthophosphate (P)	mg/L	0.17	0.010	A058445	<0.010	0.010	A058445	<0.010	0.010	A058445
pH	pH	8.14		A058129	7.86		A058119	8.01		A058129
Reactive Silica (SiO2)	mg/L	23	1.0	A058441	13	0.50	A058441	11	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	290	10	A058426	67	2.0	A058426	40	2.0	A058426
Turbidity	NTU	1.4	0.10	A058412	1.5	0.10	A058452	190	1.0	A058452
Conductivity	uS/cm	1400	1.0	A058132	1100	1.0	A058122	520	1.0	A058132

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to turbidity.

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO52			AXJO53		
Sampling Date		2025/11/14 08:40			2025/11/14 09:30		
	UNITS	COSCW-001-MWB	RDL	QC Batch	COSCW-002-MWA	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	6.35	N/A	A055661	9.28	N/A	A055661
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	250	1.0	A055654	290	1.0	A055654
Calculated TDS	mg/L	350	1.0	A055669	550	1.0	A055669
Carb. Alkalinity (calc. as CaCO3)	mg/L	2.1	1.0	A055654	1.8	1.0	A055654
Cation Sum	me/L	6.58	N/A	A055661	10.4	N/A	A055661
Hardness (CaCO3)	mg/L	280	1.0	A055658	500	1.0	A055658
Ion Balance (% Difference)	%	1.78	N/A	A055660	5.74	N/A	A055660
Langelier Index (@ 20C)	N/A	0.845		A055666	1.03		A055666
Langelier Index (@ 4C)	N/A	0.597		A055667	0.785		A055667
Nitrate (N)	mg/L	0.052	0.050	A055662	0.051	0.050	A055662
Saturation pH (@ 20C)	N/A	7.11		A055666	6.77		A055666
Saturation pH (@ 4C)	N/A	7.35		A055667	7.02		A055667
Inorganics							
Total Alkalinity (Total as CaCO3)	mg/L	250	2.0	A058128	300	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	14	1.0	A058418	6.2	1.0	A058418
Colour	TCU	<5.0	5.0	A058443	<5.0	5.0	A058443
Nitrate + Nitrite (N)	mg/L	0.052	0.050	A058447	0.051	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	A058450	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	0.11	0.050	A060316	<0.050	0.050	A060316
Total Organic Carbon (C)	mg/L	3.0	0.50	A058050	<5.0 (1)	5.0	A058909
Orthophosphate (P)	mg/L	<0.010	0.010	A058445	<0.010	0.010	A058445
pH	pH	7.95		A058125	7.81		A058119
Reactive Silica (SiO2)	mg/L	14	0.50	A058441	12	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	44	2.0	A058426	150	10	A058426
Turbidity	NTU	3.4	0.10	A058442	46	0.10	A058452
Conductivity	uS/cm	600	1.0	A058127	890	1.0	A058122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to turbidity.

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO54			AXJO55		AXJO56		
Sampling Date		2025/11/14 08:30			2025/11/14 10:35		2025/11/14 15:35		
	UNITS	COSCW-002-MWB	RDL	QC Batch	COTS-001-MWB	QC Batch	MCES-001-MWA	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	7.21	N/A	A055661	5.09	A055661	7.70	N/A	A055661
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	240	1.0	A055654	160	A055654	3.2	1.0	A055653
Calculated TDS	mg/L	420	1.0	A055317	350	A055317	470	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.7	1.0	A055654	1.0	A055654	82	1.0	A055653
Cation Sum	me/L	7.67	N/A	A055661	8.00	A055661	9.31	N/A	A055661
Hardness (CaCO3)	mg/L	330	1.0	A055658	340	A055658	400	1.0	A055658
Ion Balance (% Difference)	%	3.09	N/A	A055659	22.2	A055660	9.47	N/A	A055659
Langelier Index (@ 20C)	N/A	0.836		A055315	0.653	A055315	2.68		A055315
Langelier Index (@ 4C)	N/A	0.587		A055316	0.404	A055316	2.43		A055316
Nitrate (N)	mg/L	<0.050	0.050	A055662	<0.050	A055662	0.14	0.050	A055662
Saturation pH (@ 20C)	N/A	7.03		A055315	7.17	A055315	8.75		A055315
Saturation pH (@ 4C)	N/A	7.28		A055316	7.42	A055316	9.00		A055316
Inorganics									
Total Alkalinity (Total as CaCO3)	mg/L	240	2.0	A058123	160	A058123	220	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	8.9	1.0	A058418	20	A061833	48	1.0	A058418
Colour	TCU	<5.0	5.0	A058443	<5.0	A058443	<5.0	5.0	A058443
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A058447	<0.050	A058447	0.38	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	A058450	<0.010	A058450	0.24	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	A060316	0.78	A060316	0.39	0.050	A060316
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	A058906	2.1	A058906	1.9	0.50	A058906
Orthophosphate (P)	mg/L	<0.010	0.010	A058445	<0.010	A058445	<0.010	0.010	A058445
pH	pH	7.87		A058119	7.82	A058119	11.4 (2)		A058119
Reactive Silica (SiO2)	mg/L	11	0.50	A058441	11	A061837	4.0	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	100	4.0	A058426	60	A061836	92	2.0	A058426
Turbidity	NTU	66	0.10	A058412	3.3	A058452	1.0	0.10	A058412
Conductivity	uS/cm	710	1.0	A058122	520	A058122	1100	1.0	A058122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to turbidity.
(2) pH: linear range exceedance. Extended linearity confirmed.

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO57			AXJO58			AXJO59		
Sampling Date		2025/11/14 16:10			2025/11/14 13:50			2025/11/14 16:25		
	UNITS	MCES-201-MWB	RDL	QC Batch	MCES-006-MW	RDL	QC Batch	MCWS-307-MWB	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	7.86	N/A	A055309	3.85	N/A	A055309	16.0	N/A	A055309
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A055304	160	1.0	A055304	270	1.0	A055304
Calculated TDS	mg/L	490	1.0	A055317	220	1.0	A055317	930	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	20	1.0	A055304	1.1	1.0	A055304	2.2	1.0	A055304
Cation Sum	me/L	9.95	N/A	A055309	4.02	N/A	A055309	16.8	N/A	A055309
Hardness (CaCO3)	mg/L	420	1.0	A055658	180	1.0	A055658	310	1.0	A055658
Ion Balance (% Difference)	%	11.7	N/A	A055308	2.16	N/A	A055308	2.23	N/A	A055308
Langelier Index (@ 20C)	N/A	2.09		A055315	0.460		A055315	0.810		A055315
Langelier Index (@ 4C)	N/A	1.84		A055316	0.210		A055316	0.564		A055316
Nitrate (N)	mg/L	<0.050	0.050	A055662	<0.050	0.050	A055662	<0.050	0.050	A055662
Saturation pH (@ 20C)	N/A	9.57		A055315	7.38		A055315	7.12		A055315
Saturation pH (@ 4C)	N/A	9.82		A055316	7.63		A055316	7.36		A055316
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	250	2.0	A058128	160	2.0	A058123	270	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	45	1.0	A058418	12	1.0	A058418	310	5.0	A058418
Colour	TCU	<5.0	5.0	A058443	12	5.0	A058443	<5.0	5.0	A058443
Nitrate + Nitrite (N)	mg/L	0.13	0.050	A058447	<0.050	0.050	A058447	<0.050	0.050	A058447
Nitrite (N)	mg/L	0.10	0.010	A058450	<0.010	0.010	A058450	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	0.70	0.050	A060316	0.74	0.050	A060316	0.26	0.050	A060316
Total Organic Carbon (C)	mg/L	2.3	0.50	A058050	14 (1)	5.0	A058906	1.8	0.50	A058906
Orthophosphate (P)	mg/L	<0.010	0.010	A058445	<0.010	0.010	A058445	<0.010	0.010	A058445
pH	pH	11.7 (2)		A058125	7.84		A058119	7.93		A058119
Reactive Silica (SiO2)	mg/L	4.2	0.50	A058441	12	0.50	A058441	9.7	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	79	2.0	A058426	12	2.0	A058426	92	2.0	A058426
Turbidity	NTU	14	0.10	A058442	2.8	0.10	A058452	23	0.10	A058412
Conductivity	uS/cm	1300	1.0	A058127	390	1.0	A058122	1800	1.0	A058122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.
(2) pH: linear range exceedance. Extended linearity confirmed.

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO60			AXJO61		AXJO62		
Sampling Date		2025/11/14 12:00			2025/11/14 11:30		2025/11/14 15:45		
	UNITS	MSES-004-MW	RDL	QC Batch	MSES-006-MW	RDL	MSES-008-MW	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	12.7	N/A	A055309	25.7	N/A	41.4	N/A	A055309
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	A055304	330	1.0	170	1.0	A055304
Calculated TDS	mg/L	800	1.0	A055317	1600	1.0	2600	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A055304	1.6	1.0	<1.0	1.0	A055304
Cation Sum	me/L	13.8	N/A	A055309	27.8	N/A	46.6	N/A	A055309
Hardness (CaCO3)	mg/L	660	1.0	A055658	1300	1.0	1300	1.0	A055658
Ion Balance (% Difference)	%	4.26	N/A	A055308	3.94	N/A	5.95	N/A	A055308
Langelier Index (@ 20C)	N/A	0.399		A055315	1.23		0.742		A055315
Langelier Index (@ 4C)	N/A	0.152		A055316	0.983		0.500		A055316
Nitrate (N)	mg/L	<0.050	0.050	A055662	<0.050	0.050	<0.050	0.050	A055662
Saturation pH (@ 20C)	N/A	6.95		A055315	6.48		6.78		A055315
Saturation pH (@ 4C)	N/A	7.20		A055316	6.72		7.02		A055316
Inorganics									
Total Alkalinity (Total as CaCO3)	mg/L	180	2.0	A058123	330	2.0	170	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	18	1.0	A058418	41	1.0	850	10	A058418
Colour	TCU	14	5.0	A058443	5.0	5.0	80	25	A058443
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A058447	<0.050	0.050	<0.050	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	A058450	<0.010	0.010	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	0.22	0.050	A060316	0.63	0.050	0.25	0.050	A060316
Total Organic Carbon (C)	mg/L	3.6	0.50	A058906	5.2	0.50	1.3	0.50	A058050
Orthophosphate (P)	mg/L	<0.010	0.010	A058445	0.072	0.010	<0.010	0.010	A058445
pH	pH	7.35		A058119	7.71		7.52		A058119
Reactive Silica (SiO2)	mg/L	3.4	0.50	A058441	19	0.50	24	1.0	A058441
Dissolved Sulphate (SO4)	mg/L	410	10	A058426	860	20	670	20	A058426
Turbidity	NTU	4.9	0.10	A058452	5.3	0.10	220	1.0	A058452
Conductivity	uS/cm	1200	1.0	A058122	2100	1.0	4400	1.0	A058122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO63		AXJO64			AXJO65		
Sampling Date		2025/11/14 14:10		2025/11/14 12:10			2025/11/14 12:40		
	UNITS	MSES-012-MWA	RDL	MSES-104-MWA	RDL	QC Batch	MSES-104-MWB	RDL	QC Batch
Calculated Parameters									
Anion Sum	me/L	43.5	N/A	27.2	N/A	A055309	32.3	N/A	A055309
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	180	1.0	11	1.0	A055304	580	1.0	A055304
Calculated TDS	mg/L	2700	1.0	1900	1.0	A055317	2000	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	<1.0	1.0	A055304	2.3	1.0	A055304
Cation Sum	me/L	46.9	N/A	30.9	N/A	A055309	33.8	N/A	A055309
Hardness (CaCO3)	mg/L	720	1.0	1500	1.0	A055658	1400	1.0	A055658
Ion Balance (% Difference)	%	3.77	N/A	6.32	N/A	A055308	2.28	N/A	A055308
Langelier Index (@ 20C)	N/A	0.497		-0.577		A055315	1.28		A055315
Langelier Index (@ 4C)	N/A	0.255		-0.820		A055316	1.04		A055316
Nitrate (N)	mg/L	0.075	0.050	<0.050	0.050	A055662	<0.050	0.050	A055311
Saturation pH (@ 20C)	N/A	7.04		7.86		A055315	6.33		A055315
Saturation pH (@ 4C)	N/A	7.28		8.10		A055316	6.58		A055316
Inorganics									
Total Alkalinity (Total as CaCO3)	mg/L	180	2.0	12	2.0	A058123	580	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	1100	20	51	1.0	A058418	65	1.0	A058418
Colour	TCU	17	5.0	<5.0	5.0	A058443	7.8	5.0	A058443
Nitrate + Nitrite (N)	mg/L	0.075	0.050	<0.050	0.050	A058447	<0.050	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	A058450	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	0.071	0.050	1.0	0.050	A060316	0.62	0.050	A060316
Total Organic Carbon (C)	mg/L	3.4	0.50	3.1	0.50	A058906	8.4 (1)	5.0	A058906
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	A058445	<0.010	0.010	A058445
pH	pH	7.54		7.28		A058119	7.62		A058119
Reactive Silica (SiO2)	mg/L	39	1.0	1.4	0.50	A058441	8.9	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	380	10	1200	60	A058426	900	20	A058426
Turbidity	NTU	28	0.10	7.3	0.10	A058452	50	0.10	A058412
Conductivity	uS/cm	4700	1.0	2300	1.0	A058122	2700	1.0	A058122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.

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Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXJO66			AXJO67		
Sampling Date		2025/11/14 10:35			2025/11/14 16:40		
	UNITS	SCU7-003-MW	RDL	QC Batch	25FD-06	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	9.70	N/A	A055309	16.0	N/A	A055309
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	130	1.0	A055304	270	1.0	A055304
Calculated TDS	mg/L	590	1.0	A055317	930	1.0	A055317
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A055304	2.1	1.0	A055304
Cation Sum	me/L	10.2	N/A	A055309	16.5	N/A	A055309
Hardness (CaCO3)	mg/L	240	1.0	A055658	300	1.0	A055305
Ion Balance (% Difference)	%	2.56	N/A	A055308	1.45	N/A	A055308
Langelier Index (@ 20C)	N/A	-0.0430		A055315	0.786		A055315
Langelier Index (@ 4C)	N/A	-0.290		A055316	0.539		A055316
Nitrate (N)	mg/L	<0.050	0.050	A055311	<0.050	0.050	A055311
Saturation pH (@ 20C)	N/A	7.47		A055315	7.13		A055315
Saturation pH (@ 4C)	N/A	7.72		A055316	7.38		A055316
Inorganics							
Total Alkalinity (Total as CaCO3)	mg/L	130	2.0	A058123	270	2.0	A058123
Dissolved Chloride (Cl-)	mg/L	180	5.0	A058418	310	5.0	A058418
Colour	TCU	<5.0	5.0	A058443	<5.0	5.0	A058443
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A058447	<0.050	0.050	A058447
Nitrite (N)	mg/L	<0.010	0.010	A058450	<0.010	0.010	A058450
Nitrogen (Ammonia Nitrogen)	mg/L	0.88	0.050	A060316	0.22	0.050	A060318
Total Organic Carbon (C)	mg/L	2.0	0.50	A058906	1.8	0.50	A058050
Orthophosphate (P)	mg/L	<0.010	0.010	A058445	<0.010	0.010	A058445
pH	pH	7.43		A058119	7.91		A058119
Reactive Silica (SiO2)	mg/L	9.5	0.50	A058441	9.7	0.50	A058441
Dissolved Sulphate (SO4)	mg/L	110	10	A058426	92	2.0	A058426
Turbidity	NTU	4.7	0.10	A058412	5.5	0.10	A058452
Conductivity	uS/cm	1100	1.0	A058122	1800	1.0	A058122

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N/A = Not Applicable

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXJO36	AXJO50		AXJO51		
Sampling Date		2025/11/14 13:15	2025/11/14 10:15		2025/11/14 09:05		
	UNITS	COBC-004-MWA	COBT-003-MWB	QC Batch	COSCW-001-MWA	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	A058039	<5.0	5.0	A058894
Dissolved Antimony (Sb)	ug/L	2.3	<1.0	A058039	<1.0	1.0	A058894
Dissolved Arsenic (As)	ug/L	6.3	2.6	A058039	<1.0	1.0	A058894
Dissolved Barium (Ba)	ug/L	25	44	A058039	63	1.0	A061348
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	A058039	<0.10	0.10	A058894
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	A058039	<2.0	2.0	A058894
Dissolved Boron (B)	ug/L	95	69	A058039	<50	50	A058894
Dissolved Cadmium (Cd)	ug/L	0.092	<0.010	A058039	0.010	0.010	A058894
Dissolved Calcium (Ca)	ug/L	170000	100000	A058039	78000	100	A058894
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	A058039	<1.0	1.0	A058894
Dissolved Cobalt (Co)	ug/L	<0.40	0.55	A058039	<0.40	0.40	A058894
Dissolved Copper (Cu)	ug/L	5.7	<0.50	A058039	0.65	0.50	A058894
Dissolved Iron (Fe)	ug/L	<50	260	A058039	<50	50	A058894
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	A058039	<0.50	0.50	A058894
Dissolved Magnesium (Mg)	ug/L	27000	12000	A058039	9700	100	A058894
Dissolved Manganese (Mn)	ug/L	230	2500	A058039	<2.0	2.0	A058894
Dissolved Molybdenum (Mo)	ug/L	5.9	<2.0	A058039	<2.0	2.0	A058894
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	A058039	<2.0	2.0	A058894
Dissolved Phosphorus (P)	ug/L	180	<100	A058039	<100	100	A058894
Dissolved Potassium (K)	ug/L	6200	2800	A058039	1700	100	A058894
Dissolved Selenium (Se)	ug/L	6.2	<0.50	A058039	<0.50	0.50	A058894
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	A058039	<0.10	0.10	A058894
Dissolved Sodium (Na)	ug/L	100000	95000	A058039	27000	100	A058894
Dissolved Strontium (Sr)	ug/L	420	1200	A058039	620	2.0	A058894
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	A058039	<0.10	0.10	A058894
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	A058039	<2.0	2.0	A058894
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	A058039	<2.0	2.0	A058894
Dissolved Uranium (U)	ug/L	0.76	0.24	A058039	0.84	0.10	A058894
Dissolved Vanadium (V)	ug/L	15	<2.0	A058039	<2.0	2.0	A058894
Dissolved Zinc (Zn)	ug/L	19	<5.0	A058039	<5.0	5.0	A061348

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXJO52	AXJO53	AXJO54	AXJO55	AXJO56		
Sampling Date		2025/11/14 08:40	2025/11/14 09:30	2025/11/14 08:30	2025/11/14 10:35	2025/11/14 15:35		
	UNITS	COSCW-001-MWB	COSCW-002-MWA	COSCW-002-MWB	COTS-001-MWB	MCES-001-MWA	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	<5.0	5.0	110	5.0	A058039
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	A058039
Dissolved Arsenic (As)	ug/L	2.4	<1.0	<1.0	2.6	<1.0	1.0	A058039
Dissolved Barium (Ba)	ug/L	160	28	41	46	91	1.0	A058039
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Boron (B)	ug/L	66	<50	<50	<50	<50	50	A058039
Dissolved Cadmium (Cd)	ug/L	0.021	0.19	0.16	<0.010	<0.010	0.010	A058039
Dissolved Calcium (Ca)	ug/L	85000	170000	110000	110000	160000	100	A058039
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	2.6	1.0	A058039
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.68	<0.40	<0.40	0.40	A058039
Dissolved Copper (Cu)	ug/L	<0.50	21	2.7	<0.50	2.4	0.50	A058039
Dissolved Iron (Fe)	ug/L	240	<50	180	430	<50	50	A058039
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	2.1	0.50	A058039
Dissolved Magnesium (Mg)	ug/L	16000	18000	13000	13000	<100	100	A058039
Dissolved Manganese (Mn)	ug/L	190	19	790	1500	<2.0	2.0	A058039
Dissolved Molybdenum (Mo)	ug/L	2.6	<2.0	3.3	<2.0	6.3	2.0	A058039
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	<100	100	A058039
Dissolved Potassium (K)	ug/L	3500	1500	1700	2600	7100	100	A058039
Dissolved Selenium (Se)	ug/L	0.99	<0.50	<0.50	<0.50	1.2	0.50	A058039
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Sodium (Na)	ug/L	20000	8000	25000	26000	27000	100	A058039
Dissolved Strontium (Sr)	ug/L	1400	320	210	1500	670	2.0	A058039
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Uranium (U)	ug/L	2.6	4.3	2.4	1.0	<0.10	0.10	A058039
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	23	2.0	A058039
Dissolved Zinc (Zn)	ug/L	<5.0	72	53	<5.0	<5.0	5.0	A058039

RDL = Reportable Detection Limit
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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXJO57	AXJO58	AXJO59	AXJO60	AXJO61		
Sampling Date		2025/11/14 16:10	2025/11/14 13:50	2025/11/14 16:25	2025/11/14 12:00	2025/11/14 11:30		
	UNITS	MCES-201-MWB	MCES-006-MW	MCWS-307-MWB	MSES-004-MW	MSES-006-MW	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	220	26	<5.0	18	6.9	5.0	A058039
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	A058039
Dissolved Arsenic (As)	ug/L	<1.0	8.5	1.6	2.1	<1.0	1.0	A058039
Dissolved Barium (Ba)	ug/L	88	290	50	15	21	1.0	A058039
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Boron (B)	ug/L	<50	<50	130	79	110	50	A058039
Dissolved Cadmium (Cd)	ug/L	<0.010	0.047	<0.010	<0.010	<0.010	0.010	A058039
Dissolved Calcium (Ca)	ug/L	170000	63000	98000	210000	420000	100	A058039
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	A058039
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	A058039
Dissolved Copper (Cu)	ug/L	1.3	<0.50	<0.50	<0.50	<0.50	0.50	A058039
Dissolved Iron (Fe)	ug/L	<50	330	280	510	<50	50	A058039
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	A058039
Dissolved Magnesium (Mg)	ug/L	<100	4900	15000	35000	66000	100	A058039
Dissolved Manganese (Mn)	ug/L	<2.0	2900	260	950	1900	2.0	A058039
Dissolved Molybdenum (Mo)	ug/L	7.9	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	170	100	A058039
Dissolved Potassium (K)	ug/L	12000	1800	3000	2700	8100	100	A058039
Dissolved Selenium (Se)	ug/L	1.2	0.69	<0.50	<0.50	0.59	0.50	A058039
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Sodium (Na)	ug/L	28000	8100	240000	12000	31000	100	A058039
Dissolved Strontium (Sr)	ug/L	1000	510	440	300	720	2.0	A058039
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	A058039
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	A058039
Dissolved Uranium (U)	ug/L	<0.10	<0.10	1.1	0.27	4.3	0.10	A058039
Dissolved Vanadium (V)	ug/L	28	17	<2.0	<2.0	3.1	2.0	A058039
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	A058039

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXJO62	AXJO63	AXJO64			AXJO65		
Sampling Date		2025/11/14 15:45	2025/11/14 14:10	2025/11/14 12:10			2025/11/14 12:40		
	UNITS	MSES-008-MW	MSES-012-MWA	MSES-104-MWA	RDL	QC Batch	MSES-104-MWB	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	7.0	5.0	A058039	25	5.0	A057212
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	1.0	A058039	<1.0	1.0	A057212
Dissolved Arsenic (As)	ug/L	12	1.7	1.5	1.0	A058039	5.1	1.0	A057212
Dissolved Barium (Ba)	ug/L	13	9.2	20	1.0	A058039	18	1.0	A057212
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	0.10	A058039	<0.10	0.10	A057212
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	2.0	A058039	<2.0	2.0	A057212
Dissolved Boron (B)	ug/L	64	<50	<50	50	A058039	200	50	A057212
Dissolved Cadmium (Cd)	ug/L	<0.010	0.011	<0.010	0.010	A058039	0.037	0.010	A057212
Dissolved Calcium (Ca)	ug/L	470000	250000	520000	100	A058039	350000	100	A057212
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	1.0	A058039	<1.0	1.0	A057212
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	<0.40	0.40	A058039	1.6	0.40	A057212
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	<0.50	0.50	A058039	<0.50	0.50	A057212
Dissolved Iron (Fe)	ug/L	14000	1000	150	50	A058039	3500	50	A057212
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	0.50	A058039	<0.50	0.50	A057212
Dissolved Magnesium (Mg)	ug/L	29000	22000	37000	100	A058039	120000	1000	A057212
Dissolved Manganese (Mn)	ug/L	1100	110	80	2.0	A058039	29000	2.0	A057212
Dissolved Molybdenum (Mo)	ug/L	3.0	<2.0	6.2	2.0	A058039	<2.0	2.0	A057212
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	<2.0	2.0	A058039	10	2.0	A057212
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	A058039	<100	100	A057212
Dissolved Potassium (K)	ug/L	9600	7200	11000	100	A058039	14000	100	A057212
Dissolved Selenium (Se)	ug/L	<0.50	0.71	<0.50	0.50	A058039	<0.50	0.50	A057212
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	0.10	A058039	<0.10	0.10	A057212
Dissolved Sodium (Na)	ug/L	460000	740000	30000	100	A058039	130000	100	A057212
Dissolved Strontium (Sr)	ug/L	810	440	600	2.0	A058039	1300	2.0	A057212
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	0.10	A058039	<0.10	0.10	A057212
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	2.0	A058039	<2.0	2.0	A057212
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	2.0	A058039	<2.0	2.0	A057212
Dissolved Uranium (U)	ug/L	0.55	0.28	<0.10	0.10	A058039	3.2	0.10	A057212
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	2.0	A058039	<2.0	2.0	A057212
Dissolved Zinc (Zn)	ug/L	48	80	<5.0	5.0	A058039	<5.0	5.0	A057212

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXJO66	AXJO67		
Sampling Date		2025/11/14 10:35	2025/11/14 16:40		
	UNITS	SCU7-003-MW	25FD-06	RDL	QC Batch
Metals					
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	5.0	A057212
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	A057212
Dissolved Arsenic (As)	ug/L	<1.0	1.6	1.0	A057212
Dissolved Barium (Ba)	ug/L	27	51	1.0	A057212
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	A057212
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Boron (B)	ug/L	66	130	50	A057212
Dissolved Cadmium (Cd)	ug/L	0.079	<0.010	0.010	A057212
Dissolved Calcium (Ca)	ug/L	81000	97000	100	A057212
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	A057212
Dissolved Cobalt (Co)	ug/L	0.62	<0.40	0.40	A057212
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	0.50	A057212
Dissolved Iron (Fe)	ug/L	250	280	50	A057212
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	A057212
Dissolved Magnesium (Mg)	ug/L	8400	15000	100	A057212
Dissolved Manganese (Mn)	ug/L	2000	260	2.0	A057212
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Phosphorus (P)	ug/L	<100	<100	100	A057212
Dissolved Potassium (K)	ug/L	5000	3000	100	A057212
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	0.50	A057212
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	A057212
Dissolved Sodium (Na)	ug/L	120000	240000	100	A057212
Dissolved Strontium (Sr)	ug/L	420	450	2.0	A057212
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	A057212
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Uranium (U)	ug/L	0.12	1.1	0.10	A057212
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	A057212
Dissolved Zinc (Zn)	ug/L	7.0	<5.0	5.0	A057212

RDL = Reportable Detection Limit
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GENERAL COMMENTS

Sample AXJO51 [COSCW-001-MWA] : Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample AXJO53 [COSCW-002-MWA] : Poor RCAp Ion Balance due to sample matrix.

Sample AXJO55 [COTS-001-MWB] : Poor RCAp Ion Balance due to sample matrix.

Sample AXJO56 [MCES-001-MWA] : Poor RCAp Ion Balance due to sample matrix.

Sample AXJO57 [MCES-201-MWB] : Poor RCAp Ion Balance due to sample matrix.

Sample AXJO62 [MSES-008-MW] : Poor RCAp Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample AXJO64 [MSES-104-MWA] : Poor RCAp Ion Balance due to sample matrix.
Sample AXJO51, Metals Water Diss. MS- Lab Filtered: Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A057212	MTZ	Matrix Spike	Dissolved Aluminum (Al)	2025/11/19		98	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/19		96	%	80 - 120
			Dissolved Arsenic (As)	2025/11/19		95	%	80 - 120
			Dissolved Barium (Ba)	2025/11/19		92	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/19		89	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/19		89	%	80 - 120
			Dissolved Boron (B)	2025/11/19		88	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/19		91	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/19		NC	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/19		92	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/19		93	%	80 - 120
			Dissolved Copper (Cu)	2025/11/19		93	%	80 - 120
			Dissolved Iron (Fe)	2025/11/19		93	%	80 - 120
			Dissolved Lead (Pb)	2025/11/19		92	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/19		NC	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/19		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/19		91	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/19		93	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/19		103	%	80 - 120
			Dissolved Potassium (K)	2025/11/19		NC	%	80 - 120
			Dissolved Selenium (Se)	2025/11/19		95	%	80 - 120
			Dissolved Silver (Ag)	2025/11/19		91	%	80 - 120
			Dissolved Sodium (Na)	2025/11/19		NC	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/19		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/19		93	%	80 - 120
			Dissolved Tin (Sn)	2025/11/19		94	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/19		92	%	80 - 120
			Dissolved Uranium (U)	2025/11/19		94	%	80 - 120
			Dissolved Vanadium (V)	2025/11/19		94	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/19		90	%	80 - 120
A057212	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/19		99	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/19		97	%	80 - 120
			Dissolved Arsenic (As)	2025/11/19		97	%	80 - 120
			Dissolved Barium (Ba)	2025/11/19		97	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/19		95	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/19		96	%	80 - 120
			Dissolved Boron (B)	2025/11/19		91	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/19		94	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/19		97	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/19		97	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/19		97	%	80 - 120
			Dissolved Copper (Cu)	2025/11/19		97	%	80 - 120
			Dissolved Iron (Fe)	2025/11/19		99	%	80 - 120
			Dissolved Lead (Pb)	2025/11/19		96	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/19		102	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/19		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/19		98	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/19		99	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/19		102	%	80 - 120
			Dissolved Potassium (K)	2025/11/19		103	%	80 - 120
			Dissolved Selenium (Se)	2025/11/19		95	%	80 - 120
			Dissolved Silver (Ag)	2025/11/19		96	%	80 - 120
			Dissolved Sodium (Na)	2025/11/19		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Strontium (Sr)	2025/11/19		98	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/19		98	%	80 - 120
			Dissolved Tin (Sn)	2025/11/19		97	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/19		98	%	80 - 120
			Dissolved Uranium (U)	2025/11/19		101	%	80 - 120
			Dissolved Vanadium (V)	2025/11/19		97	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/19		98	%	80 - 120
A057212	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/19	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/19	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/19	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/19	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/19	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/19	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/19	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/19	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/19	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/19	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/19	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/19	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/19	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/19	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/19	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/19	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/19	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/19	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/19	<100		ug/L	
			Dissolved Potassium (K)	2025/11/19	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/19	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/19	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/19	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/19	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/19	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/19	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/19	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/19	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/19	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/19	<5.0		ug/L	
A057212	MTZ	RPD	Dissolved Aluminum (Al)	2025/11/19	NC		%	20
			Dissolved Antimony (Sb)	2025/11/19	NC		%	20
			Dissolved Arsenic (As)	2025/11/19	NC		%	20
			Dissolved Barium (Ba)	2025/11/19	NC		%	20
			Dissolved Beryllium (Be)	2025/11/19	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/19	NC		%	20
			Dissolved Boron (B)	2025/11/19	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/19	NC		%	20
			Dissolved Calcium (Ca)	2025/11/19	0.20		%	20
			Dissolved Chromium (Cr)	2025/11/19	NC		%	20
			Dissolved Cobalt (Co)	2025/11/19	NC		%	20
			Dissolved Copper (Cu)	2025/11/19	NC		%	20
			Dissolved Iron (Fe)	2025/11/19	NC		%	20
			Dissolved Lead (Pb)	2025/11/19	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/19	0.59		%	20
			Dissolved Manganese (Mn)	2025/11/19	0.60		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Molybdenum (Mo)	2025/11/19	NC		%	20
			Dissolved Nickel (Ni)	2025/11/19	NC		%	20
			Dissolved Phosphorus (P)	2025/11/19	NC		%	20
			Dissolved Potassium (K)	2025/11/19	0.31		%	20
			Dissolved Selenium (Se)	2025/11/19	NC		%	20
			Dissolved Silver (Ag)	2025/11/19	NC		%	20
			Dissolved Sodium (Na)	2025/11/19	1.1		%	20
			Dissolved Strontium (Sr)	2025/11/19	1.3		%	20
			Dissolved Thallium (Tl)	2025/11/19	NC		%	20
			Dissolved Tin (Sn)	2025/11/19	NC		%	20
			Dissolved Titanium (Ti)	2025/11/19	NC		%	20
			Dissolved Uranium (U)	2025/11/19	NC		%	20
			Dissolved Vanadium (V)	2025/11/19	NC		%	20
			Dissolved Zinc (Zn)	2025/11/19	NC		%	20
A058039	MTZ	Matrix Spike [AXJO50-02]	Dissolved Aluminum (Al)	2025/11/20		107	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/20		102	%	80 - 120
			Dissolved Arsenic (As)	2025/11/20		99	%	80 - 120
			Dissolved Barium (Ba)	2025/11/20		93	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/20		96	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/20		98	%	80 - 120
			Dissolved Boron (B)	2025/11/20		93	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/20		96	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/20		NC	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/20		96	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/20		95	%	80 - 120
			Dissolved Copper (Cu)	2025/11/20		95	%	80 - 120
			Dissolved Iron (Fe)	2025/11/20		108	%	80 - 120
			Dissolved Lead (Pb)	2025/11/20		96	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/20		NC	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/20		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/20		103	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/20		95	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/20		116	%	80 - 120
			Dissolved Potassium (K)	2025/11/20		112	%	80 - 120
			Dissolved Selenium (Se)	2025/11/20		97	%	80 - 120
			Dissolved Silver (Ag)	2025/11/20		85	%	80 - 120
			Dissolved Sodium (Na)	2025/11/20		NC	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/20		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/20		100	%	80 - 120
			Dissolved Tin (Sn)	2025/11/20		101	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/20		98	%	80 - 120
			Dissolved Uranium (U)	2025/11/20		105	%	80 - 120
			Dissolved Vanadium (V)	2025/11/20		97	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/20		97	%	80 - 120
A058039	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/20		102	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/20		94	%	80 - 120
			Dissolved Arsenic (As)	2025/11/20		100	%	80 - 120
			Dissolved Barium (Ba)	2025/11/20		98	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/20		95	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/20		96	%	80 - 120
			Dissolved Boron (B)	2025/11/20		91	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/20		99	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/20		102	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2025/11/20		98	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/20		100	%	80 - 120
			Dissolved Copper (Cu)	2025/11/20		100	%	80 - 120
			Dissolved Iron (Fe)	2025/11/20		103	%	80 - 120
			Dissolved Lead (Pb)	2025/11/20		100	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/20		106	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/20		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/20		97	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/20		101	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/20		109	%	80 - 120
			Dissolved Potassium (K)	2025/11/20		108	%	80 - 120
			Dissolved Selenium (Se)	2025/11/20		97	%	80 - 120
			Dissolved Silver (Ag)	2025/11/20		98	%	80 - 120
			Dissolved Sodium (Na)	2025/11/20		103	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/20		100	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/20		96	%	80 - 120
			Dissolved Tin (Sn)	2025/11/20		95	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/20		100	%	80 - 120
			Dissolved Uranium (U)	2025/11/20		106	%	80 - 120
			Dissolved Vanadium (V)	2025/11/20		100	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/20		98	%	80 - 120
A058039	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/20	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/20	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/20	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/20	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/20	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/20	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/20	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/20	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/20	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/20	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/20	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/20	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/20	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/20	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/20	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/20	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/20	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/20	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/20	<100		ug/L	
			Dissolved Potassium (K)	2025/11/20	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/20	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/20	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/20	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/20	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/20	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/20	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/20	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/20	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/20	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/20	<5.0		ug/L	
A058039	MTZ	RPD [AXJO50-02]	Dissolved Aluminum (Al)	2025/11/20	NC		%	20
			Dissolved Antimony (Sb)	2025/11/20	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Arsenic (As)	2025/11/20	2.2		%	20
			Dissolved Barium (Ba)	2025/11/20	0.79		%	20
			Dissolved Beryllium (Be)	2025/11/20	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/20	NC		%	20
			Dissolved Boron (B)	2025/11/20	1.2		%	20
			Dissolved Cadmium (Cd)	2025/11/20	NC		%	20
			Dissolved Calcium (Ca)	2025/11/20	0.24		%	20
			Dissolved Chromium (Cr)	2025/11/20	NC		%	20
			Dissolved Cobalt (Co)	2025/11/20	1.0		%	20
			Dissolved Copper (Cu)	2025/11/20	NC		%	20
			Dissolved Iron (Fe)	2025/11/20	0.47		%	20
			Dissolved Lead (Pb)	2025/11/20	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/20	0.84		%	20
			Dissolved Manganese (Mn)	2025/11/20	0.56		%	20
			Dissolved Molybdenum (Mo)	2025/11/20	NC		%	20
			Dissolved Nickel (Ni)	2025/11/20	NC		%	20
			Dissolved Phosphorus (P)	2025/11/20	NC		%	20
			Dissolved Potassium (K)	2025/11/20	0.069		%	20
			Dissolved Selenium (Se)	2025/11/20	NC		%	20
			Dissolved Silver (Ag)	2025/11/20	NC		%	20
			Dissolved Sodium (Na)	2025/11/20	0.26		%	20
			Dissolved Strontium (Sr)	2025/11/20	0.19		%	20
			Dissolved Thallium (Tl)	2025/11/20	NC		%	20
			Dissolved Tin (Sn)	2025/11/20	NC		%	20
			Dissolved Titanium (Ti)	2025/11/20	NC		%	20
			Dissolved Uranium (U)	2025/11/20	7.3		%	20
			Dissolved Vanadium (V)	2025/11/20	NC		%	20
			Dissolved Zinc (Zn)	2025/11/20	NC		%	20
A058050	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/20		98	%	85 - 115
A058050	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/20		102	%	80 - 120
A058050	S6S	Method Blank	Total Organic Carbon (C)	2025/11/20	<0.50		mg/L	
A058050	S6S	RPD	Total Organic Carbon (C)	2025/11/20	4.9		%	15
A058119	J1A	Spiked Blank	pH	2025/11/20		99	%	97 - 103
A058119	J1A	RPD [AXJO60-01]	pH	2025/11/20	0.47		%	N/A
A058122	J1A	Spiked Blank	Conductivity	2025/11/20		95	%	80 - 120
A058122	J1A	Method Blank	Conductivity	2025/11/20	<1.0		uS/cm	
A058122	J1A	RPD [AXJO60-01]	Conductivity	2025/11/20	0.18		%	10
A058123	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/20		97	%	80 - 120
A058123	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/20	<2.0		mg/L	
A058123	J1A	RPD [AXJO60-01]	Total Alkalinity (Total as CaCO3)	2025/11/20	1.7		%	20
A058125	J1A	Spiked Blank	pH	2025/11/20		100	%	97 - 103
A058125	J1A	RPD	pH	2025/11/20	0.036		%	N/A
A058127	J1A	Spiked Blank	Conductivity	2025/11/20		94	%	80 - 120
A058127	J1A	Method Blank	Conductivity	2025/11/20	<1.0		uS/cm	
A058127	J1A	RPD	Conductivity	2025/11/20	0.22		%	10
A058128	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/20		101	%	80 - 120
A058128	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/20	<2.0		mg/L	
A058128	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/20	NC		%	20
A058129	J1A	Spiked Blank	pH	2025/11/20		99	%	97 - 103
A058129	J1A	RPD [AXJO51-01]	pH	2025/11/21	0.28		%	N/A
A058132	J1A	Spiked Blank	Conductivity	2025/11/20		93	%	80 - 120
A058132	J1A	Method Blank	Conductivity	2025/11/21	<1.0		uS/cm	
A058132	J1A	RPD [AXJO51-01]	Conductivity	2025/11/21	0.20		%	10

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A058133	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/20		101	%	80 - 120
A058133	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/21	<2.0		mg/L	
A058133	J1A	RPD [AXJO51-01]	Total Alkalinity (Total as CaCO3)	2025/11/21	1.1		%	20
A058412	KMC	QC Standard	Turbidity	2025/11/21		108	%	80 - 120
A058412	KMC	Spiked Blank	Turbidity	2025/11/21		102	%	80 - 120
A058412	KMC	Method Blank	Turbidity	2025/11/21	<0.10		NTU	
A058412	KMC	RPD [AXJO66-01]	Turbidity	2025/11/21	8.0		%	20
A058418	MCN	Matrix Spike [AXJO36-01]	Dissolved Chloride (Cl-)	2025/11/21		NC	%	80 - 120
A058418	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/21		95	%	80 - 120
A058418	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/21	<1.0		mg/L	
A058418	MCN	RPD [AXJO36-01]	Dissolved Chloride (Cl-)	2025/11/21	0.35		%	20
A058426	MCN	Matrix Spike [AXJO36-01]	Dissolved Sulphate (SO4)	2025/11/21		NC	%	80 - 120
A058426	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/21		95	%	80 - 120
A058426	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/21	<2.0		mg/L	
A058426	MCN	RPD [AXJO36-01]	Dissolved Sulphate (SO4)	2025/11/21	0.51		%	20
A058441	MCN	Matrix Spike [AXJO36-01]	Reactive Silica (SiO2)	2025/11/21		NC	%	80 - 120
A058441	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/21		95	%	80 - 120
A058441	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/21	<0.50		mg/L	
A058441	MCN	RPD [AXJO36-01]	Reactive Silica (SiO2)	2025/11/21	0.57		%	20
A058442	J1A	QC Standard	Turbidity	2025/11/21		109	%	80 - 120
A058442	J1A	Spiked Blank	Turbidity	2025/11/21		101	%	80 - 120
A058442	J1A	Method Blank	Turbidity	2025/11/21	<0.10		NTU	
A058442	J1A	RPD	Turbidity	2025/11/21	NC		%	20
A058443	MCN	Spiked Blank	Colour	2025/11/21		105	%	80 - 120
A058443	MCN	Method Blank	Colour	2025/11/21	<5.0		TCU	
A058443	MCN	RPD [AXJO36-01]	Colour	2025/11/21	NC		%	20
A058445	MCN	Matrix Spike [AXJO36-01]	Orthophosphate (P)	2025/11/21		94	%	80 - 120
A058445	MCN	Spiked Blank	Orthophosphate (P)	2025/11/21		92	%	80 - 120
A058445	MCN	Method Blank	Orthophosphate (P)	2025/11/21	<0.010		mg/L	
A058445	MCN	RPD [AXJO36-01]	Orthophosphate (P)	2025/11/21	7.5		%	20
A058447	MCN	Matrix Spike [AXJO36-01]	Nitrate + Nitrite (N)	2025/11/21		NC	%	80 - 120
A058447	MCN	Spiked Blank	Nitrate + Nitrite (N)	2025/11/21		104	%	80 - 120
A058447	MCN	Method Blank	Nitrate + Nitrite (N)	2025/11/21	<0.050		mg/L	
A058447	MCN	RPD [AXJO36-01]	Nitrate + Nitrite (N)	2025/11/21	1.9		%	20
A058450	MCN	Matrix Spike [AXJO36-01]	Nitrite (N)	2025/11/21		106	%	80 - 120
A058450	MCN	Spiked Blank	Nitrite (N)	2025/11/21		105	%	80 - 120
A058450	MCN	Method Blank	Nitrite (N)	2025/11/21	<0.010		mg/L	
A058450	MCN	RPD [AXJO36-01]	Nitrite (N)	2025/11/21	NC		%	20
A058452	J1A	QC Standard	Turbidity	2025/11/21		109	%	80 - 120
A058452	J1A	Spiked Blank	Turbidity	2025/11/21		100	%	80 - 120
A058452	J1A	Method Blank	Turbidity	2025/11/21	<0.10		NTU	
A058452	J1A	RPD	Turbidity	2025/11/21	3.6		%	20
A058894	MTZ	Matrix Spike [AXJO51-01]	Dissolved Aluminum (Al)	2025/11/21		104	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/21		103	%	80 - 120
			Dissolved Arsenic (As)	2025/11/21		105	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/21		101	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/21		97	%	80 - 120
			Dissolved Boron (B)	2025/11/21		112	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/21		103	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/21		NC	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/21		104	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/21		101	%	80 - 120
			Dissolved Copper (Cu)	2025/11/21		100	%	80 - 120

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			Dissolved Iron (Fe)	2025/11/21		106	%	80 - 120
			Dissolved Lead (Pb)	2025/11/21		98	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/21		100	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/21		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/21		107	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/21		101	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/21		108	%	80 - 120
			Dissolved Potassium (K)	2025/11/21		94	%	80 - 120
			Dissolved Selenium (Se)	2025/11/21		102	%	80 - 120
			Dissolved Silver (Ag)	2025/11/21		99	%	80 - 120
			Dissolved Sodium (Na)	2025/11/21		NC	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/21		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/21		100	%	80 - 120
			Dissolved Tin (Sn)	2025/11/21		104	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/21		107	%	80 - 120
			Dissolved Uranium (U)	2025/11/21		107	%	80 - 120
			Dissolved Vanadium (V)	2025/11/21		104	%	80 - 120
A058894	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/21		100	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/21		102	%	80 - 120
			Dissolved Arsenic (As)	2025/11/21		101	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/21		97	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/21		101	%	80 - 120
			Dissolved Boron (B)	2025/11/21		97	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/21		101	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/21		100	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/21		100	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/21		101	%	80 - 120
			Dissolved Copper (Cu)	2025/11/21		100	%	80 - 120
			Dissolved Iron (Fe)	2025/11/21		104	%	80 - 120
			Dissolved Lead (Pb)	2025/11/21		99	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/21		106	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/21		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/21		103	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/21		100	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/21		106	%	80 - 120
			Dissolved Potassium (K)	2025/11/21		101	%	80 - 120
			Dissolved Selenium (Se)	2025/11/21		98	%	80 - 120
			Dissolved Silver (Ag)	2025/11/21		98	%	80 - 120
			Dissolved Sodium (Na)	2025/11/21		101	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/21		101	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/21		101	%	80 - 120
			Dissolved Tin (Sn)	2025/11/21		102	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/21		103	%	80 - 120
			Dissolved Uranium (U)	2025/11/21		105	%	80 - 120
			Dissolved Vanadium (V)	2025/11/21		102	%	80 - 120
A058894	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/21	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/21	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/21	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/21	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/21	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/21	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/21	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/21	<100		ug/L	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2025/11/21	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/21	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/21	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/21	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/21	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/21	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/21	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/21	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/21	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/21	<100		ug/L	
			Dissolved Potassium (K)	2025/11/21	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/21	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/21	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/21	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/21	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/21	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/21	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/21	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/21	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/21	<2.0		ug/L	
A058894	MTZ	RPD [AXJO51-01]	Dissolved Aluminum (Al)	2025/11/21	NC		%	20
			Dissolved Antimony (Sb)	2025/11/21	NC		%	20
			Dissolved Arsenic (As)	2025/11/21	NC		%	20
			Dissolved Beryllium (Be)	2025/11/21	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/21	NC		%	20
			Dissolved Boron (B)	2025/11/21	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/21	1.8		%	20
			Dissolved Calcium (Ca)	2025/11/21	8.9		%	20
			Dissolved Chromium (Cr)	2025/11/21	NC		%	20
			Dissolved Cobalt (Co)	2025/11/21	NC		%	20
			Dissolved Copper (Cu)	2025/11/21	1.9		%	20
			Dissolved Iron (Fe)	2025/11/21	NC		%	20
			Dissolved Lead (Pb)	2025/11/21	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/21	10		%	20
			Dissolved Manganese (Mn)	2025/11/21	NC		%	20
			Dissolved Molybdenum (Mo)	2025/11/21	NC		%	20
			Dissolved Nickel (Ni)	2025/11/21	NC		%	20
			Dissolved Phosphorus (P)	2025/11/21	NC		%	20
			Dissolved Potassium (K)	2025/11/21	20		%	20
			Dissolved Selenium (Se)	2025/11/21	NC		%	20
			Dissolved Silver (Ag)	2025/11/21	NC		%	20
			Dissolved Sodium (Na)	2025/11/21	7.6		%	20
			Dissolved Strontium (Sr)	2025/11/21	9.7		%	20
			Dissolved Thallium (Tl)	2025/11/21	NC		%	20
			Dissolved Tin (Sn)	2025/11/21	NC		%	20
			Dissolved Titanium (Ti)	2025/11/21	NC		%	20
			Dissolved Uranium (U)	2025/11/21	11		%	20
			Dissolved Vanadium (V)	2025/11/21	NC		%	20
A058906	S6S	Matrix Spike [AXJO64-04]	Total Organic Carbon (C)	2025/11/21		100	%	85 - 115
A058906	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/21		103	%	80 - 120
A058906	S6S	Method Blank	Total Organic Carbon (C)	2025/11/21	<0.50		mg/L	
A058906	S6S	RPD [AXJO64-04]	Total Organic Carbon (C)	2025/11/21	0.35		%	15
A058909	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/21		100	%	85 - 115

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A058909	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/21		102	%	80 - 120
A058909	S6S	Method Blank	Total Organic Carbon (C)	2025/11/21	<0.50		mg/L	
A058909	S6S	RPD	Total Organic Carbon (C)	2025/11/21	1.3		%	15
A060316	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2025/11/25		102	%	80 - 120
A060316	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/25		104	%	80 - 120
A060316	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/25	<0.050		mg/L	
A060316	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2025/11/25	1.4		%	20
A060318	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2025/11/25		NC	%	80 - 120
A060318	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/25		110	%	80 - 120
A060318	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/25	<0.050		mg/L	
A060318	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2025/11/25	0.79		%	20
A061348	MTZ	Matrix Spike	Dissolved Barium (Ba)	2025/11/25		98	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/25		102	%	80 - 120
A061348	MTZ	Spiked Blank	Dissolved Barium (Ba)	2025/11/25		101	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/25		100	%	80 - 120
A061348	MTZ	Method Blank	Dissolved Barium (Ba)	2025/11/25	<1.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/25	<5.0		ug/L	
A061348	MTZ	RPD	Dissolved Barium (Ba)	2025/11/25	0.62		%	20
			Dissolved Zinc (Zn)	2025/11/25	3.0		%	20
A061833	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2025/11/26		86	%	80 - 120
A061833	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/26		88	%	80 - 120
A061833	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/27	<1.0		mg/L	
A061833	MCN	RPD	Dissolved Chloride (Cl-)	2025/11/26	0.15		%	20
A061836	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2025/11/26		98	%	80 - 120
A061836	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/26		97	%	80 - 120
A061836	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/27	<2.0		mg/L	
A061836	MCN	RPD	Dissolved Sulphate (SO4)	2025/11/26	0.84		%	20
A061837	MCN	Matrix Spike	Reactive Silica (SiO2)	2025/11/26		91	%	80 - 120
A061837	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/26		96	%	80 - 120
A061837	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/14	<0.50		mg/L	
A061837	MCN	RPD	Reactive Silica (SiO2)	2025/11/26	2.4		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Bureau Veritas Job #: C5E5069
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: SS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

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Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/26
Report #: R8658193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E5633
Received: 2025/11/17, 17:00

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide (1)	4	N/A	2025/11/24	N/A	SM 24 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide (1)	1	N/A	2025/11/25	N/A	SM 24 4500-CO2 D
Alkalinity (1)	4	N/A	2025/11/21	ATL SOP 00142	SM 24 2320 B
Alkalinity (1)	1	N/A	2025/11/24	ATL SOP 00142	SM 24 2320 B
Chloride (1)	4	N/A	2025/11/24	ATL SOP 00014	SM 24 4500-Cl- E m
Chloride (1)	1	N/A	2025/11/25	ATL SOP 00014	SM 24 4500-Cl- E m
Colour (1)	5	N/A	2025/11/24	ATL SOP 00020	SM 24 2120C m
Conductance - water (1)	4	N/A	2025/11/21	ATL SOP 00004	SM 24 2510B m
Conductance - water (1)	1	N/A	2025/11/24	ATL SOP 00004	SM 24 2510B m
Hardness (calculated as CaCO3) (1)	2	N/A	2025/11/24	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3) (1)	3	N/A	2025/11/25	ATL SOP 00048	Auto Calc
Metals Water Diss. MS- Field Filtered (1)	2	N/A	2025/11/21	ATL SOP 00058	EPA 6020B R2 m
Metals Water Diss. MS- Field Filtered (1)	3	N/A	2025/11/24	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference) (1)	5	N/A	2025/11/26	N/A	Auto Calc.
Anion and Cation Sum (1)	5	N/A	2025/11/26	N/A	Auto Calc.
Nitrogen Ammonia - water (1)	5	N/A	2025/11/26	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite (1)	5	N/A	2025/11/24	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite (1)	5	N/A	2025/11/24	ATL SOP 00017	SM 24 4500-NO2- B m
Nitrogen - Nitrate (as N) (1)	5	N/A	2025/11/25	ATL SOP 00018	ASTM D3867-16
pH (1, 2)	4	N/A	2025/11/21	ATL SOP 00003	SM 24 4500-H+ B m
pH (1, 2)	1	N/A	2025/11/24	ATL SOP 00003	SM 24 4500-H+ B m
Phosphorus - ortho (1)	5	N/A	2025/11/24	ATL SOP 00021	SM 24 4500-P E m
Sat. pH and Langelier Index (@ 20C) (1)	5	N/A	2025/11/26	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	5	N/A	2025/11/26	ATL SOP 00049	Auto Calc.
Reactive Silica (1)	5	N/A	2025/11/24	ATL SOP 00022	EPA 366.0 m
Sulphate (1)	4	N/A	2025/11/24	ATL SOP 00023	ASTM D516-16 m
Sulphate (1)	1	N/A	2025/11/25	ATL SOP 00023	ASTM D516-16 m
Total Dissolved Solids (TDS calc) (1)	5	N/A	2025/11/26	N/A	Auto Calc.
Organic carbon - Total (TOC) (1, 3)	3	N/A	2025/11/21	ATL SOP 00203	SM 24 5310B m
Organic carbon - Total (TOC) (1, 3)	2	N/A	2025/11/24	ATL SOP 00203	SM 24 5310B m
Turbidity (1)	5	N/A	2025/11/24	ATL SOP 00011	EPA 180.1 R2 m

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/26
Report #: R8658193
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E5633
Received: 2025/11/17, 17:00

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Bureau Veritas
26 Nov 2025 14:49:13

Please direct all questions regarding this Certificate of Analysis to:
Natalie MacAskill, Key Account Specialist
Email: Natalie.MacAskill@bureauveritas.com
Phone# (902)567-1255 Ext:17

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Bureau Veritas Job #: C5E5633
Report Date: 2025/11/26

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXKT90			AXKT94			AXKT95		
Sampling Date		2025/11/17 08:40			2025/11/17 11:20			2025/11/17 12:55		
	UNITS	COBC-001-MWA	RDL	QC Batch	COBP-006-MWA	RDL	QC Batch	CODT-105-MW	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	17.8	N/A	A056219	6.97	N/A	A056219	9.88	N/A	A056219
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	120	1.0	A056215	230	1.0	A056215	260	1.0	A056215
Calculated TDS	mg/L	1100	1.0	A056228	400	1.0	A056228	600	1.0	A056228
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	A056215	<1.0	1.0	A056215	2.0	1.0	A056215
Cation Sum	me/L	17.2	N/A	A056219	7.44	N/A	A056219	10.4	N/A	A056219
Hardness (CaCO3)	mg/L	720	1.0	A056217	300	1.0	A056217	470	1.0	A056217
Ion Balance (% Difference)	%	1.80	N/A	A056218	3.26	N/A	A056218	2.66	N/A	A056218
Langelier Index (@ 20C)	N/A	0.594		A056225	0.407		A056225	1.04		A056225
Langelier Index (@ 4C)	N/A	0.348		A056226	0.159		A056226	0.794		A056226
Nitrate (N)	mg/L	<0.050	0.050	A056220	<0.050	0.050	A056220	3.1	0.25	A056220
Saturation pH (@ 20C)	N/A	7.09		A056225	7.09		A056225	6.87		A056225
Saturation pH (@ 4C)	N/A	7.33		A056226	7.34		A056226	7.12		A056226
Inorganics										
Total Alkalinity (Total as CaCO3)	mg/L	120	2.0	A060161	230	2.0	A059055	260	2.0	A059055
Dissolved Chloride (Cl-)	mg/L	100	2.0	A060060	49	1.0	A060060	24	1.0	A060060
Colour	TCU	25	5.0	A060068	11	5.0	A060068	6.8	5.0	A060068
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A060070	<0.050	0.050	A060070	3.1	0.25	A060070
Nitrite (N)	mg/L	<0.010	0.010	A060071	<0.010	0.010	A060071	<0.010	0.010	A060071
Nitrogen (Ammonia Nitrogen)	mg/L	0.81	0.050	A060481	1.3	0.050	A060481	<0.050	0.050	A060481
Total Organic Carbon (C)	mg/L	3.2	0.50	A058910	14 (1)	5.0	A060004	2.9	0.50	A060129
Orthophosphate (P)	mg/L	0.12	0.010	A060069	<0.010	0.010	A060069	0.035	0.010	A060069
pH	pH	7.68		A060151	7.50		A059052	7.91		A059052
Reactive Silica (SiO2)	mg/L	9.6	0.50	A060067	15	0.50	A060067	20 (1)	1.0	A060067
Dissolved Sulphate (SO4)	mg/L	610	20	A060066	44	2.0	A060066	180	10	A060066
Turbidity	NTU	63	0.10	A059352	18	0.10	A059346	1.8	0.10	A059352
Conductivity	uS/cm	1600	1.0	A060157	690	1.0	A059054	930	1.0	A059054

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.

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Bureau Veritas Job #: C5E5633
Report Date: 2025/11/26

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXKT96		AXKT97		
Sampling Date		2025/11/17 13:55		2025/11/17 09:55		
	UNITS	MCWS-306-MWB	RDL	SCU7-001-MW	RDL	QC Batch
Calculated Parameters						
Anion Sum	me/L	10.0	N/A	37.4	N/A	A056219
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	230	1.0	130	1.0	A056215
Calculated TDS	mg/L	620	1.0	2400	1.0	A056228
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.2	1.0	<1.0	1.0	A056215
Cation Sum	me/L	10.2	N/A	36.2	N/A	A056219
Hardness (CaCO3)	mg/L	480	1.0	1600	1.0	A056217
Ion Balance (% Difference)	%	1.04	N/A	1.70	N/A	A056218
Langelier Index (@ 20C)	N/A	0.861		0.877		A056225
Langelier Index (@ 4C)	N/A	0.613		0.634		A056226
Nitrate (N)	mg/L	<0.050	0.050	0.087	0.050	A056220
Saturation pH (@ 20C)	N/A	6.91		6.74		A056225
Saturation pH (@ 4C)	N/A	7.16		6.98		A056226
Inorganics						
Total Alkalinity (Total as CaCO3)	mg/L	230	2.0	140	2.0	A059055
Dissolved Chloride (Cl-)	mg/L	24	1.0	270	5.0	A060060
Colour	TCU	7.2	5.0	5.2	5.0	A060068
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	0.087	0.050	A060070
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	A060071
Nitrogen (Ammonia Nitrogen)	mg/L	0.36	0.050	0.13	0.050	A060481
Total Organic Carbon (C)	mg/L	4.7	0.50	1.2	0.50	A058910
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	A060069
pH	pH	7.77		7.62		A059052
Reactive Silica (SiO2)	mg/L	18	0.50	11	0.50	A060067
Dissolved Sulphate (SO4)	mg/L	230	10	1300	60	A060066
Turbidity	NTU	54	0.10	7.6	0.10	A059346
Conductivity	uS/cm	920	1.0	2900	1.0	A059054

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Bureau Veritas Job #: C5E5633
Report Date: 2025/11/26

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXKT90		AXKT94	AXKT95	AXKT96		
Sampling Date		2025/11/17 08:40		2025/11/17 11:20	2025/11/17 12:55	2025/11/17 13:55		
	UNITS	COBC-001-MWA	RDL	COBP-006-MWA	CODT-105-MW	MCWS-306-MWB	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	<5.0	13	6.9	5.0	A058899
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	<1.0	2.1	<1.0	1.0	A058899
Dissolved Arsenic (As)	ug/L	2.1	1.0	1.2	2.8	3.3	1.0	A058899
Dissolved Barium (Ba)	ug/L	72	1.0	130	37	49	1.0	A058899
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	<0.10	<0.10	<0.10	0.10	A058899
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	A058899
Dissolved Boron (B)	ug/L	<50	50	<50	66	93	50	A058899
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	0.024	0.047	0.016	0.010	A058899
Dissolved Calcium (Ca)	ug/L	260000	100	97000	160000	170000	100	A058899
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<1.0	1.3	<1.0	1.0	A058899
Dissolved Cobalt (Co)	ug/L	0.50	0.40	<0.40	<0.40	1.2	0.40	A058899
Dissolved Copper (Cu)	ug/L	<0.50	0.50	<0.50	4.1	<0.50	0.50	A058899
Dissolved Iron (Fe)	ug/L	5000	50	11000	<50	5300	50	A058899
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	A058899
Dissolved Magnesium (Mg)	ug/L	16000	100	13000	19000	13000	100	A058899
Dissolved Manganese (Mn)	ug/L	2700	2.0	3900	<2.0	6700	2.0	A058899
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	6.5	7.5	2.0	A058899
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	<2.0	<2.0	3.3	2.0	A058899
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	<100	100	A058899
Dissolved Potassium (K)	ug/L	2900	100	3900	6500	4400	100	A058899
Dissolved Selenium (Se)	ug/L	<0.50	0.50	<0.50	27	<0.50	0.50	A058899
Dissolved Silver (Ag)	ug/L	<0.10	0.10	<0.10	<0.10	<0.10	0.10	A058899
Dissolved Sodium (Na)	ug/L	56000	100	22000	21000	8900	100	A058899
Dissolved Strontium (Sr)	ug/L	9000	20	380	450	550	2.0	A058899
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	<0.10	<0.10	<0.10	0.10	A058899
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	A058899
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	A058899
Dissolved Uranium (U)	ug/L	0.11	0.10	0.19	2.7	0.88	0.10	A058899
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<2.0	5.0	<2.0	2.0	A058899
Dissolved Zinc (Zn)	ug/L	60	5.0	33	9.8	43	5.0	A058899

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXKT97		
Sampling Date		2025/11/17 09:55		
	UNITS	SCU7-001-MW	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	A058899
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	A058899
Dissolved Arsenic (As)	ug/L	2.4	1.0	A058899
Dissolved Barium (Ba)	ug/L	13	1.0	A058899
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	A058899
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	A058899
Dissolved Boron (B)	ug/L	<50	50	A058899
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	A058899
Dissolved Calcium (Ca)	ug/L	640000	100	A058899
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	A058899
Dissolved Cobalt (Co)	ug/L	0.80	0.40	A058899
Dissolved Copper (Cu)	ug/L	<0.50	0.50	A058899
Dissolved Iron (Fe)	ug/L	480	50	A058899
Dissolved Lead (Pb)	ug/L	<0.50	0.50	A058899
Dissolved Magnesium (Mg)	ug/L	10000	100	A058899
Dissolved Manganese (Mn)	ug/L	5200	2.0	A058899
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	A058899
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	A058899
Dissolved Phosphorus (P)	ug/L	<100	100	A058899
Dissolved Potassium (K)	ug/L	1800	100	A058899
Dissolved Selenium (Se)	ug/L	<0.50	0.50	A058899
Dissolved Silver (Ag)	ug/L	<0.10	0.10	A058899
Dissolved Sodium (Na)	ug/L	74000	100	A058899
Dissolved Strontium (Sr)	ug/L	15000	20	A058899
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	A058899
Dissolved Tin (Sn)	ug/L	<2.0	2.0	A058899
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	A058899
Dissolved Uranium (U)	ug/L	1.4	0.10	A058899
Dissolved Vanadium (V)	ug/L	<2.0	2.0	A058899
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	A058899

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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GENERAL COMMENTS

Sample AXKT90 [COBC-001-MWA] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXKT95 [CODT-105-MW] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A058899	MTZ	Matrix Spike	Dissolved Aluminum (Al)	2025/11/21		106	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/21		105	%	80 - 120
			Dissolved Arsenic (As)	2025/11/21		106	%	80 - 120
			Dissolved Barium (Ba)	2025/11/21		103	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/21		101	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/21		101	%	80 - 120
			Dissolved Boron (B)	2025/11/21		94	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/21		109	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/21		106	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/21		104	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/21		105	%	80 - 120
			Dissolved Copper (Cu)	2025/11/21		105	%	80 - 120
			Dissolved Iron (Fe)	2025/11/21		110	%	80 - 120
			Dissolved Lead (Pb)	2025/11/21		104	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/21		114	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/21		106	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/21		106	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/21		104	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/21		112	%	80 - 120
			Dissolved Potassium (K)	2025/11/21		106	%	80 - 120
			Dissolved Selenium (Se)	2025/11/21		104	%	80 - 120
			Dissolved Silver (Ag)	2025/11/21		103	%	80 - 120
			Dissolved Sodium (Na)	2025/11/21		106	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/21		108	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/21		102	%	80 - 120
			Dissolved Tin (Sn)	2025/11/21		106	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/21		102	%	80 - 120
			Dissolved Uranium (U)	2025/11/21		111	%	80 - 120
			Dissolved Vanadium (V)	2025/11/21		106	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/21		104	%	80 - 120
A058899	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/21		99	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/21		105	%	80 - 120
			Dissolved Arsenic (As)	2025/11/21		102	%	80 - 120
			Dissolved Barium (Ba)	2025/11/21		101	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/21		96	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/21		100	%	80 - 120
			Dissolved Boron (B)	2025/11/21		94	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/21		103	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/21		99	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/21		100	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/21		101	%	80 - 120
			Dissolved Copper (Cu)	2025/11/21		101	%	80 - 120
			Dissolved Iron (Fe)	2025/11/21		104	%	80 - 120
			Dissolved Lead (Pb)	2025/11/21		99	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/21		105	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/21		101	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/21		104	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/21		101	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/21		105	%	80 - 120
			Dissolved Potassium (K)	2025/11/21		101	%	80 - 120
			Dissolved Selenium (Se)	2025/11/21		99	%	80 - 120
			Dissolved Silver (Ag)	2025/11/21		98	%	80 - 120
			Dissolved Sodium (Na)	2025/11/21		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Strontium (Sr)	2025/11/21		104	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/21		102	%	80 - 120
			Dissolved Tin (Sn)	2025/11/21		103	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/21		102	%	80 - 120
			Dissolved Uranium (U)	2025/11/21		105	%	80 - 120
			Dissolved Vanadium (V)	2025/11/21		102	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/21		103	%	80 - 120
A058899	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/21	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/21	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/21	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/21	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/21	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/21	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/21	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/21	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/21	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/21	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/21	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/21	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/21	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/21	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/21	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/21	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/21	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/21	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/21	<100		ug/L	
			Dissolved Potassium (K)	2025/11/21	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/21	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/21	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/21	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/21	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/21	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/21	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/21	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/21	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/21	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/21	<5.0		ug/L	
A058899	MTZ	RPD	Dissolved Aluminum (Al)	2025/11/21	3.1		%	20
			Dissolved Antimony (Sb)	2025/11/21	NC		%	20
			Dissolved Arsenic (As)	2025/11/21	NC		%	20
			Dissolved Barium (Ba)	2025/11/21	0.69		%	20
			Dissolved Beryllium (Be)	2025/11/21	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/21	NC		%	20
			Dissolved Boron (B)	2025/11/21	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/21	NC		%	20
			Dissolved Calcium (Ca)	2025/11/21	0.86		%	20
			Dissolved Chromium (Cr)	2025/11/21	NC		%	20
			Dissolved Cobalt (Co)	2025/11/21	NC		%	20
			Dissolved Copper (Cu)	2025/11/21	NC		%	20
			Dissolved Iron (Fe)	2025/11/21	NC		%	20
			Dissolved Lead (Pb)	2025/11/21	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/21	1.1		%	20
			Dissolved Manganese (Mn)	2025/11/21	3.1		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Molybdenum (Mo)	2025/11/21	NC		%	20
			Dissolved Nickel (Ni)	2025/11/21	NC		%	20
			Dissolved Phosphorus (P)	2025/11/21	NC		%	20
			Dissolved Potassium (K)	2025/11/21	1.1		%	20
			Dissolved Selenium (Se)	2025/11/21	NC		%	20
			Dissolved Silver (Ag)	2025/11/21	NC		%	20
			Dissolved Sodium (Na)	2025/11/21	2.0		%	20
			Dissolved Strontium (Sr)	2025/11/21	0.035		%	20
			Dissolved Thallium (Tl)	2025/11/21	NC		%	20
			Dissolved Tin (Sn)	2025/11/21	NC		%	20
			Dissolved Titanium (Ti)	2025/11/21	NC		%	20
			Dissolved Uranium (U)	2025/11/21	NC		%	20
			Dissolved Vanadium (V)	2025/11/21	NC		%	20
			Dissolved Zinc (Zn)	2025/11/21	NC		%	20
A058910	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/21		99	%	85 - 115
A058910	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/21		102	%	80 - 120
A058910	S6S	Method Blank	Total Organic Carbon (C)	2025/11/21	<0.50		mg/L	
A058910	S6S	RPD	Total Organic Carbon (C)	2025/11/21	4.1		%	15
A059052	J1A	Spiked Blank	pH	2025/11/21		99	%	97 - 103
A059052	J1A	RPD	pH	2025/11/21	2.7		%	N/A
A059054	J1A	Spiked Blank	Conductivity	2025/11/21		93	%	80 - 120
A059054	J1A	Method Blank	Conductivity	2025/11/21	<1.0		uS/cm	
A059054	J1A	RPD	Conductivity	2025/11/21	0.27		%	10
A059055	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/21		98	%	80 - 120
A059055	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/21	<2.0		mg/L	
A059055	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/21	8.7		%	20
A059346	KMC	QC Standard	Turbidity	2025/11/24		102	%	80 - 120
A059346	KMC	Spiked Blank	Turbidity	2025/11/24		102	%	80 - 120
A059346	KMC	Method Blank	Turbidity	2025/11/24	<0.10		NTU	
A059346	KMC	RPD	Turbidity	2025/11/24	NC		%	20
A059352	J1A	QC Standard	Turbidity	2025/11/24		103	%	80 - 120
A059352	J1A	Spiked Blank	Turbidity	2025/11/24		102	%	80 - 120
A059352	J1A	Method Blank	Turbidity	2025/11/24	<0.10		NTU	
A059352	J1A	RPD	Turbidity	2025/11/24	NC		%	20
A060004	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/24		101	%	85 - 115
A060004	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/24		102	%	80 - 120
A060004	S6S	Method Blank	Total Organic Carbon (C)	2025/11/24	<0.50		mg/L	
A060004	S6S	RPD	Total Organic Carbon (C)	2025/11/24	4.6		%	15
A060060	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2025/11/24		104	%	80 - 120
A060060	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/24		108	%	80 - 120
A060060	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/24	<1.0		mg/L	
A060060	MCN	RPD	Dissolved Chloride (Cl-)	2025/11/24	1.7		%	20
A060066	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2025/11/24		109	%	80 - 120
A060066	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/24		108	%	80 - 120
A060066	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/24	<2.0		mg/L	
A060066	MCN	RPD	Dissolved Sulphate (SO4)	2025/11/24	0.71		%	20
A060067	MCN	Matrix Spike	Reactive Silica (SiO2)	2025/11/24		100	%	80 - 120
A060067	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/24		102	%	80 - 120
A060067	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/24	<0.50		mg/L	
A060067	MCN	RPD	Reactive Silica (SiO2)	2025/11/24	5.2		%	20
A060068	MCN	Spiked Blank	Colour	2025/11/24		108	%	80 - 120
A060068	MCN	Method Blank	Colour	2025/11/24	<5.0		TCU	
A060068	MCN	RPD	Colour	2025/11/24	NC		%	20

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Bureau Veritas Job #: C5E5633
Report Date: 2025/11/26

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A060069	MCN	Matrix Spike	Orthophosphate (P)	2025/11/24		85	%	80 - 120
A060069	MCN	Spiked Blank	Orthophosphate (P)	2025/11/24		98	%	80 - 120
A060069	MCN	Method Blank	Orthophosphate (P)	2025/11/24	<0.010		mg/L	
A060069	MCN	RPD	Orthophosphate (P)	2025/11/24	2.5		%	20
A060070	MCN	Matrix Spike	Nitrate + Nitrite (N)	2025/11/24		94	%	80 - 120
A060070	MCN	Spiked Blank	Nitrate + Nitrite (N)	2025/11/24		100	%	80 - 120
A060070	MCN	Method Blank	Nitrate + Nitrite (N)	2025/11/24	<0.050		mg/L	
A060070	MCN	RPD	Nitrate + Nitrite (N)	2025/11/24	NC		%	20
A060071	MCN	Matrix Spike	Nitrite (N)	2025/11/24		103	%	80 - 120
A060071	MCN	Spiked Blank	Nitrite (N)	2025/11/24		110	%	80 - 120
A060071	MCN	Method Blank	Nitrite (N)	2025/11/24	<0.010		mg/L	
A060071	MCN	RPD	Nitrite (N)	2025/11/24	NC		%	20
A060129	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/24		98	%	85 - 115
A060129	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/24		100	%	80 - 120
A060129	S6S	Method Blank	Total Organic Carbon (C)	2025/11/24	<0.50		mg/L	
A060129	S6S	RPD	Total Organic Carbon (C)	2025/11/24	3.4 (1)		%	15
A060151	J1A	Spiked Blank	pH	2025/11/24		99	%	97 - 103
A060151	J1A	RPD	pH	2025/11/24	0.67		%	N/A
A060157	J1A	Spiked Blank	Conductivity	2025/11/24		97	%	80 - 120
A060157	J1A	Method Blank	Conductivity	2025/11/24	<1.0		uS/cm	
A060157	J1A	RPD	Conductivity	2025/11/24	0.29		%	10
A060161	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/24		101	%	80 - 120
A060161	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/24	<2.0		mg/L	
A060161	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/24	NC		%	20
A060481	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2025/11/26		105	%	80 - 120
A060481	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/26		107	%	80 - 120
A060481	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/26	<0.050		mg/L	
A060481	MCN	RPD	Nitrogen (Ammonia Nitrogen)	2025/11/26	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Elevated reporting limit due to turbidity.

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Bureau Veritas Job #: C5E5633
Report Date: 2025/11/26

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

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Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/27
Report #: R8658776
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E6311
Received: 2025/11/18, 15:15

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbonate, Bicarbonate and Hydroxide (1)	2	N/A	2025/11/25	N/A	SM 24 4500-CO2 D
Alkalinity (1)	2	N/A	2025/11/24	ATL SOP 00142	SM 24 2320 B
Chloride (1)	1	N/A	2025/11/25	ATL SOP 00014	SM 24 4500-Cl- E m
Chloride (1)	1	N/A	2025/11/26	ATL SOP 00014	SM 24 4500-Cl- E m
Colour (1)	2	N/A	2025/11/26	ATL SOP 00020	SM 24 2120C m
Conductance - water (1)	2	N/A	2025/11/24	ATL SOP 00004	SM 24 2510B m
Hardness (calculated as CaCO3) (1)	1	N/A	2025/11/25	ATL SOP 00048	Auto Calc
Hardness (calculated as CaCO3) (1)	1	N/A	2025/11/26	ATL SOP 00048	Auto Calc
Metals Water Diss. MS- Field Filtered (1)	2	N/A	2025/11/24	ATL SOP 00058	EPA 6020B R2 m
Ion Balance (% Difference) (1)	2	N/A	2025/11/27	N/A	Auto Calc.
Anion and Cation Sum (1)	2	N/A	2025/11/27	N/A	Auto Calc.
Nitrogen Ammonia - water (1)	2	N/A	2025/11/26	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite (1)	2	N/A	2025/11/25	ATL SOP 00016	USGS I-2547-11m
Nitrogen - Nitrite (1)	2	N/A	2025/11/25	ATL SOP 00017	SM 24 4500-NO2- B m
Nitrogen - Nitrate (as N) (1)	2	N/A	2025/11/26	ATL SOP 00018	ASTM D3867-16
pH (1, 2)	2	N/A	2025/11/24	ATL SOP 00003	SM 24 4500-H+ B m
Phosphorus - ortho (1)	2	N/A	2025/11/25	ATL SOP 00021	SM 24 4500-P E m
Sat. pH and Langelier Index (@ 20C) (1)	1	N/A	2025/11/26	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C) (1)	1	N/A	2025/11/27	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	1	N/A	2025/11/26	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C) (1)	1	N/A	2025/11/27	ATL SOP 00049	Auto Calc.
Reactive Silica (1)	2	N/A	2025/11/25	ATL SOP 00022	EPA 366.0 m
Sulphate (1)	2	N/A	2025/11/25	ATL SOP 00023	ASTM D516-16 m
Total Dissolved Solids (TDS calc) (1)	2	N/A	2025/11/27	N/A	Auto Calc.
Organic carbon - Total (TOC) (1, 3)	2	N/A	2025/11/24	ATL SOP 00203	SM 24 5310B m
Turbidity (1)	2	N/A	2025/11/24	ATL SOP 00011	EPA 180.1 R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession

Your Project #: 251391
Site#: OH PARK / HARBOURSIDE EAST
Site Location: OH PARK / HARBOURSIDE EAST

Attention: Nadine Wambolt

Dillon Consulting Limited
275 Charlotte St
Sydney, NS
CANADA B1P 1C6

Report Date: 2025/11/27
Report #: R8658776
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C5E6311
Received: 2025/11/18, 15:15

using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Bureau Veritas
27 Nov 2025 11:22:18

Please direct all questions regarding this Certificate of Analysis to:
Natalie MacAskill, Key Account Specialist
Email: Natalie.MacAskill@bureauveritas.com
Phone# (902)567-1255 Ext:17

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

Bureau Veritas Job #: C5E6311
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AXMF86			AXMF94		
Sampling Date		2025/11/18 08:50			2025/11/18 09:10		
	UNITS	MCWS-113-MWB	RDL	QC Batch	25 EB-01	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	40.1	N/A	A057138	0.0600	N/A	A057138
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	240	1.0	A057134	2.8	1.0	A057134
Calculated TDS	mg/L	2300	1.0	A057145	2.0	1.0	A057145
Carb. Alkalinity (calc. as CaCO3)	mg/L	1.1	1.0	A057134	<1.0	1.0	A057134
Cation Sum	me/L	42.7	N/A	A057138	0.00	N/A	A057138
Hardness (CaCO3)	mg/L	1500	1.0	A057136	<1.0	1.0	A057136
Ion Balance (% Difference)	%	3.21	N/A	A057137	100	N/A	A057137
Langelier Index (@ 20C)	N/A	1.08		A057141	NC		A057141
Langelier Index (@ 4C)	N/A	0.837		A057143	NC		A057143
Nitrate (N)	mg/L	<0.050	0.050	A057139	<0.050	0.050	A057139
Saturation pH (@ 20C)	N/A	6.61		A057141	NC		A057141
Saturation pH (@ 4C)	N/A	6.86		A057143	NC		A057143
Inorganics							
Total Alkalinity (Total as CaCO3)	mg/L	240	2.0	A060149	2.8	2.0	A060149
Dissolved Chloride (Cl-)	mg/L	1200	30	A060889	<1.0	1.0	A060889
Colour	TCU	10	5.0	A060896	<5.0	5.0	A060896
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	A060900	<0.050	0.050	A060900
Nitrite (N)	mg/L	0.015	0.010	A060901	0.017	0.010	A060901
Nitrogen (Ammonia Nitrogen)	mg/L	3.8	0.25	A062125	<0.050	0.050	A062125
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	A060129	<0.50	0.50	A060143
Orthophosphate (P)	mg/L	0.033	0.010	A060899	<0.010	0.010	A060899
pH	pH	7.69		A060145	6.78		A060145
Reactive Silica (SiO2)	mg/L	9.5	0.50	A060893	<0.50	0.50	A060893
Dissolved Sulphate (SO4)	mg/L	35	2.0	A060892	<2.0	2.0	A060892
Turbidity	NTU	150	1.0	A059354	<0.10	0.10	A059354
Conductivity	uS/cm	4400	1.0	A060147	1.8	1.0	A060147

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.

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ELEMENTS BY ICP/MS (WATER)

Bureau Veritas ID		AXMF86	AXMF94		
Sampling Date		2025/11/18 08:50	2025/11/18 09:10		
	UNITS	MCWS-113-MWB	25 EB-01	RDL	QC Batch
Metals					
Dissolved Aluminum (Al)	ug/L	<5.0	<5.0	5.0	A060106
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	A060106
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	A060106
Dissolved Barium (Ba)	ug/L	1600	<1.0	1.0	A060106
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	A060106
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Boron (B)	ug/L	310	<50	50	A060106
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	A060106
Dissolved Calcium (Ca)	ug/L	470000	<100	100	A060106
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	A060106
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.40	A060106
Dissolved Copper (Cu)	ug/L	<0.50	<0.50	0.50	A060106
Dissolved Iron (Fe)	ug/L	11000	<50	50	A060106
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	A060106
Dissolved Magnesium (Mg)	ug/L	73000	<100	100	A060106
Dissolved Manganese (Mn)	ug/L	20000	<2.0	2.0	A060106
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Phosphorus (P)	ug/L	230	<100	100	A060106
Dissolved Potassium (K)	ug/L	17000	<100	100	A060106
Dissolved Selenium (Se)	ug/L	<0.50	<0.50	0.50	A060106
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	A060106
Dissolved Sodium (Na)	ug/L	280000	<100	100	A060106
Dissolved Strontium (Sr)	ug/L	2200	<2.0	2.0	A060106
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	A060106
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	A060106
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	A060106
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	A060106

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

GENERAL COMMENTS

Sample AXMF86 [MCWS-113-MWB] : NOX < NO2 : Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample AXMF94 [25 EB-01] : NOX < NO2 : Both values fall within the method uncertainty for duplicates and are likely equivalent. RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.

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Bureau Veritas Job #: C5E6311
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A059354	J1A	QC Standard	Turbidity	2025/11/24		103	%	80 - 120
A059354	J1A	Spiked Blank	Turbidity	2025/11/24		101	%	80 - 120
A059354	J1A	Method Blank	Turbidity	2025/11/24	<0.10		NTU	
A059354	J1A	RPD	Turbidity	2025/11/24	11		%	20
A060106	MTZ	Matrix Spike	Dissolved Aluminum (Al)	2025/11/24		97	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/24		98	%	80 - 120
			Dissolved Arsenic (As)	2025/11/24		101	%	80 - 120
			Dissolved Barium (Ba)	2025/11/24		99	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/24		101	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/24		93	%	80 - 120
			Dissolved Boron (B)	2025/11/24		96	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/24		102	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/24		99	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/24		102	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/24		102	%	80 - 120
			Dissolved Copper (Cu)	2025/11/24		103	%	80 - 120
			Dissolved Iron (Fe)	2025/11/24		99	%	80 - 120
			Dissolved Lead (Pb)	2025/11/24		100	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/24		106	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/24		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/24		102	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/24		103	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/24		105	%	80 - 120
			Dissolved Potassium (K)	2025/11/24		104	%	80 - 120
			Dissolved Selenium (Se)	2025/11/24		101	%	80 - 120
			Dissolved Silver (Ag)	2025/11/24		99	%	80 - 120
			Dissolved Sodium (Na)	2025/11/24		103	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/24		94	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/24		97	%	80 - 120
			Dissolved Tin (Sn)	2025/11/24		97	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/24		103	%	80 - 120
			Dissolved Uranium (U)	2025/11/24		106	%	80 - 120
			Dissolved Vanadium (V)	2025/11/24		104	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/24		99	%	80 - 120
A060106	MTZ	Spiked Blank	Dissolved Aluminum (Al)	2025/11/24		104	%	80 - 120
			Dissolved Antimony (Sb)	2025/11/24		96	%	80 - 120
			Dissolved Arsenic (As)	2025/11/24		99	%	80 - 120
			Dissolved Barium (Ba)	2025/11/24		98	%	80 - 120
			Dissolved Beryllium (Be)	2025/11/24		98	%	80 - 120
			Dissolved Bismuth (Bi)	2025/11/24		95	%	80 - 120
			Dissolved Boron (B)	2025/11/24		93	%	80 - 120
			Dissolved Cadmium (Cd)	2025/11/24		101	%	80 - 120
			Dissolved Calcium (Ca)	2025/11/24		106	%	80 - 120
			Dissolved Chromium (Cr)	2025/11/24		98	%	80 - 120
			Dissolved Cobalt (Co)	2025/11/24		99	%	80 - 120
			Dissolved Copper (Cu)	2025/11/24		101	%	80 - 120
			Dissolved Iron (Fe)	2025/11/24		108	%	80 - 120
			Dissolved Lead (Pb)	2025/11/24		99	%	80 - 120
			Dissolved Magnesium (Mg)	2025/11/24		109	%	80 - 120
			Dissolved Manganese (Mn)	2025/11/24		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/11/24		97	%	80 - 120
			Dissolved Nickel (Ni)	2025/11/24		100	%	80 - 120
			Dissolved Phosphorus (P)	2025/11/24		110	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Potassium (K)	2025/11/24		108	%	80 - 120
			Dissolved Selenium (Se)	2025/11/24		98	%	80 - 120
			Dissolved Silver (Ag)	2025/11/24		98	%	80 - 120
			Dissolved Sodium (Na)	2025/11/24		108	%	80 - 120
			Dissolved Strontium (Sr)	2025/11/24		96	%	80 - 120
			Dissolved Thallium (Tl)	2025/11/24		97	%	80 - 120
			Dissolved Tin (Sn)	2025/11/24		95	%	80 - 120
			Dissolved Titanium (Ti)	2025/11/24		97	%	80 - 120
			Dissolved Uranium (U)	2025/11/24		105	%	80 - 120
			Dissolved Vanadium (V)	2025/11/24		102	%	80 - 120
			Dissolved Zinc (Zn)	2025/11/24		96	%	80 - 120
A060106	MTZ	Method Blank	Dissolved Aluminum (Al)	2025/11/24	<5.0		ug/L	
			Dissolved Antimony (Sb)	2025/11/24	<1.0		ug/L	
			Dissolved Arsenic (As)	2025/11/24	<1.0		ug/L	
			Dissolved Barium (Ba)	2025/11/24	<1.0		ug/L	
			Dissolved Beryllium (Be)	2025/11/24	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2025/11/24	<2.0		ug/L	
			Dissolved Boron (B)	2025/11/24	<50		ug/L	
			Dissolved Cadmium (Cd)	2025/11/24	<0.010		ug/L	
			Dissolved Calcium (Ca)	2025/11/24	<100		ug/L	
			Dissolved Chromium (Cr)	2025/11/24	<1.0		ug/L	
			Dissolved Cobalt (Co)	2025/11/24	<0.40		ug/L	
			Dissolved Copper (Cu)	2025/11/24	<0.50		ug/L	
			Dissolved Iron (Fe)	2025/11/24	<50		ug/L	
			Dissolved Lead (Pb)	2025/11/24	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2025/11/24	<100		ug/L	
			Dissolved Manganese (Mn)	2025/11/24	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2025/11/24	<2.0		ug/L	
			Dissolved Nickel (Ni)	2025/11/24	<2.0		ug/L	
			Dissolved Phosphorus (P)	2025/11/24	<100		ug/L	
			Dissolved Potassium (K)	2025/11/24	<100		ug/L	
			Dissolved Selenium (Se)	2025/11/24	<0.50		ug/L	
			Dissolved Silver (Ag)	2025/11/24	<0.10		ug/L	
			Dissolved Sodium (Na)	2025/11/24	<100		ug/L	
			Dissolved Strontium (Sr)	2025/11/24	<2.0		ug/L	
			Dissolved Thallium (Tl)	2025/11/24	<0.10		ug/L	
			Dissolved Tin (Sn)	2025/11/24	<2.0		ug/L	
			Dissolved Titanium (Ti)	2025/11/24	<2.0		ug/L	
			Dissolved Uranium (U)	2025/11/24	<0.10		ug/L	
			Dissolved Vanadium (V)	2025/11/24	<2.0		ug/L	
			Dissolved Zinc (Zn)	2025/11/24	<5.0		ug/L	
A060106	MTZ	RPD	Dissolved Aluminum (Al)	2025/11/24	1.3		%	20
			Dissolved Antimony (Sb)	2025/11/24	NC		%	20
			Dissolved Arsenic (As)	2025/11/24	NC		%	20
			Dissolved Barium (Ba)	2025/11/24	1.3		%	20
			Dissolved Beryllium (Be)	2025/11/24	NC		%	20
			Dissolved Bismuth (Bi)	2025/11/24	NC		%	20
			Dissolved Boron (B)	2025/11/24	NC		%	20
			Dissolved Cadmium (Cd)	2025/11/24	1.3		%	20
			Dissolved Calcium (Ca)	2025/11/24	2.9		%	20
			Dissolved Chromium (Cr)	2025/11/24	NC		%	20
			Dissolved Cobalt (Co)	2025/11/24	2.0		%	20
			Dissolved Copper (Cu)	2025/11/24	2.8		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Iron (Fe)	2025/11/24	1.2		%	20
			Dissolved Lead (Pb)	2025/11/24	NC		%	20
			Dissolved Magnesium (Mg)	2025/11/24	1.6		%	20
			Dissolved Manganese (Mn)	2025/11/24	1.9		%	20
			Dissolved Molybdenum (Mo)	2025/11/24	NC		%	20
			Dissolved Nickel (Ni)	2025/11/24	0.84		%	20
			Dissolved Phosphorus (P)	2025/11/24	NC		%	20
			Dissolved Potassium (K)	2025/11/24	0.34		%	20
			Dissolved Selenium (Se)	2025/11/24	NC		%	20
			Dissolved Silver (Ag)	2025/11/24	NC		%	20
			Dissolved Sodium (Na)	2025/11/24	0.84		%	20
			Dissolved Strontium (Sr)	2025/11/24	3.5		%	20
			Dissolved Thallium (Tl)	2025/11/24	NC		%	20
			Dissolved Tin (Sn)	2025/11/24	NC		%	20
			Dissolved Titanium (Ti)	2025/11/24	NC		%	20
			Dissolved Uranium (U)	2025/11/24	NC		%	20
			Dissolved Vanadium (V)	2025/11/24	NC		%	20
			Dissolved Zinc (Zn)	2025/11/24	2.2		%	20
A060129	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/24		98	%	85 - 115
A060129	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/24		100	%	80 - 120
A060129	S6S	Method Blank	Total Organic Carbon (C)	2025/11/24	<0.50		mg/L	
A060129	S6S	RPD	Total Organic Carbon (C)	2025/11/24	3.4 (1)		%	15
A060143	S6S	Matrix Spike	Total Organic Carbon (C)	2025/11/24		99	%	85 - 115
A060143	S6S	Spiked Blank	Total Organic Carbon (C)	2025/11/24		101	%	80 - 120
A060143	S6S	Method Blank	Total Organic Carbon (C)	2025/11/24	<0.50		mg/L	
A060143	S6S	RPD	Total Organic Carbon (C)	2025/11/24	NC (2)		%	15
A060145	J1A	Spiked Blank	pH	2025/11/24		99	%	97 - 103
A060145	J1A	RPD	pH	2025/11/24	0.74		%	N/A
A060147	J1A	Spiked Blank	Conductivity	2025/11/24		98	%	80 - 120
A060147	J1A	Method Blank	Conductivity	2025/11/24	<1.0		uS/cm	
A060147	J1A	RPD	Conductivity	2025/11/24	0.17		%	10
A060149	J1A	Spiked Blank	Total Alkalinity (Total as CaCO3)	2025/11/24		101	%	80 - 120
A060149	J1A	Method Blank	Total Alkalinity (Total as CaCO3)	2025/11/24	<2.0		mg/L	
A060149	J1A	RPD	Total Alkalinity (Total as CaCO3)	2025/11/24	0.94		%	20
A060889	MCN	Matrix Spike	Dissolved Chloride (Cl-)	2025/11/26		NC	%	80 - 120
A060889	MCN	Spiked Blank	Dissolved Chloride (Cl-)	2025/11/25		100	%	80 - 120
A060889	MCN	Method Blank	Dissolved Chloride (Cl-)	2025/11/25	<1.0		mg/L	
A060889	MCN	RPD	Dissolved Chloride (Cl-)	2025/11/26	0.13		%	20
A060892	MCN	Matrix Spike	Dissolved Sulphate (SO4)	2025/11/25		NC	%	80 - 120
A060892	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2025/11/25		102	%	80 - 120
A060892	MCN	Method Blank	Dissolved Sulphate (SO4)	2025/11/25	<2.0		mg/L	
A060892	MCN	RPD	Dissolved Sulphate (SO4)	2025/11/25	0.066		%	20
A060893	MCN	Matrix Spike	Reactive Silica (SiO2)	2025/11/25		97	%	80 - 120
A060893	MCN	Spiked Blank	Reactive Silica (SiO2)	2025/11/25		94	%	80 - 120
A060893	MCN	Method Blank	Reactive Silica (SiO2)	2025/11/25	<0.50		mg/L	
A060893	MCN	RPD	Reactive Silica (SiO2)	2025/11/25	7.0		%	20
A060896	MCN	Spiked Blank	Colour	2025/11/26		107	%	80 - 120
A060896	MCN	Method Blank	Colour	2025/11/26	<5.0		TCU	
A060896	MCN	RPD	Colour	2025/11/26	11		%	20
A060899	MCN	Matrix Spike	Orthophosphate (P)	2025/11/25		87	%	80 - 120
A060899	MCN	Spiked Blank	Orthophosphate (P)	2025/11/25		100	%	80 - 120
A060899	MCN	Method Blank	Orthophosphate (P)	2025/11/25	<0.010		mg/L	
A060899	MCN	RPD	Orthophosphate (P)	2025/11/25	2.8		%	20

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Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A060900	MCN	Matrix Spike	Nitrate + Nitrite (N)	2025/11/25		97	%	80 - 120
A060900	MCN	Spiked Blank	Nitrate + Nitrite (N)	2025/11/25		102	%	80 - 120
A060900	MCN	Method Blank	Nitrate + Nitrite (N)	2025/11/25	<0.050		mg/L	
A060900	MCN	RPD	Nitrate + Nitrite (N)	2025/11/25	NC		%	20
A060901	MCN	Matrix Spike	Nitrite (N)	2025/11/25		100	%	80 - 120
A060901	MCN	Spiked Blank	Nitrite (N)	2025/11/25		104	%	80 - 120
A060901	MCN	Method Blank	Nitrite (N)	2025/11/25	<0.010		mg/L	
A060901	MCN	RPD	Nitrite (N)	2025/11/25	NC		%	20
A062125	MCN	Matrix Spike [AXMF94-03]	Nitrogen (Ammonia Nitrogen)	2025/11/26		105	%	80 - 120
A062125	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2025/11/26		100	%	80 - 120
A062125	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2025/11/26	<0.050		mg/L	
A062125	MCN	RPD [AXMF94-03]	Nitrogen (Ammonia Nitrogen)	2025/11/26	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Elevated reporting limit due to turbidity.

(2) Elevated reporting limit due to sample matrix.

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Bureau Veritas Job #: C5E6311
Report Date: 2025/11/27

Dillon Consulting Limited
Client Project #: 251391
Site Location: OH PARK / HARBOURSIDE EAST
Sampler Initials: MK

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.

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Appendix D

QC Tables

TABLE D-1
2025 LTMM GROUNDWATER MONITORING EVENT OHP & HE
SUMMARY OF FIELD DUPLICATES AND TRIP BLANKS

Field Duplicate Sample - Laboratory Certificate Number	Date Sampled	Trip Blank Sample - Laboratory Certificate Number	Date Sampled	Equipment Blank Sample - Laboratory Certificate Number	Date Sampled
25FD-04 - C5E3656	11/12/2025	-	-	25 EB-01 - C5E6311	11/18/2025
25FD-05 - C5E3656	11/12/2025				
25FD-06 - C5E5069	11/14/2025				
25FD-07 - C5E3656	11/12/2025				

Notes:

1. FD - Field Duplicate
2. EB - Equipment Blank

TABLE D-2
2025 LTMM GROUNDWATER MONITORING EVENT OHP AND HE
RPD FOR FIELD DUPLICATES (GROUNDWATER) - PAHs

Sample Location	Sample	Type	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Perylene	Phenanthrene	Pyrene
				µg/L																			
CODT-201-MWC	25FD-04	Field Duplicate	11/12/2025	230	5.9	4.7	0.095	0.014	<0.010	<0.010	<0.010	<0.010	0.077	<0.010	3.5	96	<0.010	490	380	2600	<0.010	72	1.7
		Regular		210	6.2	4.7	0.10	0.016	0.010	<0.010	<0.010	<0.010	0.083	<0.010	3.6	89	<0.010	460	350	2700	<0.010	67	1.8
		RPD (%)		9.09%	4.96%	0.00%	5.13%	13.33%	NA	NA	NA	N/A	7.50%	N/A	2.82%	7.57%	NA	6.32%	8.22%	3.77%	N/A	7.19%	5.71%

Notes:

NA - Not applicable (Either 1) Parameter not analyzed or 2) One or both sample results exhibit concentrations less than 5 times the RDL)

Bold - Calculation is outside of the acceptable RPD range.

TABLE D-3
2025 LTMM GROUNDWATER MONITORING EVENT OHP AND HE
RPD FOR FIELD DUPLICATES (GROUNDWATER) - INORGANIC CHEMISTRY

Sample Location	Sample	Type	Sample Date	Na	K	Ca	Mg	ALK	SO4	Cl	SiO2	OPO4	P	NO3	NO2	NO2-NO3	NH3	Colour	TOC	TURB	COND	pH	HARD	BICARB ALK	CARB ALK	TDS	Al	Sb
				µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	TCU	mg/L	NTU	µS/cm	pH	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L
CODT-201-MWC	25FD-04	Field Duplicate	11/12/2025	79000	2500	39000	4600	180	<2.0	64	11	0.011	<100	<0.050	<0.010	<0.050	0.40	<5.0	9.2	1.3	590	8.02	120	180	1.8	310	<5.0	<1.0
		Regular		79000	2500	39000	4500	180	<2.0	64	11	0.11	<100	<0.050	<0.010	<0.050	0.40	<5.0	6.8	0.98	620	8.21	120	180	2.7	310	<5.0	<1.0
		RPD (%)		0.00%	0.00%	0.00%	2.20%	0.00%	N/A	0.00%	0.00%	NA	N/A	N/A	N/A	N/A	0.00%	N/A	30.00%	28.07%	4.96%	2.34%	0.00%	0.00%	40.00%	0.00%	N/A	N/A
CONCW-101-MWB	25FD-05	Field Duplicate	11/12/2025	18000	2800	68000	860	42	100	22	23	<0.010	<100	0.54	0.039	0.58	0.054	9.0	3.3	0.47	420	10	170	19	18	270	400	<1.0
		Regular		18000	2900	71000	860	43	100	22	23	<0.010	<100	0.52	0.031	0.55	<0.050	9.5	3.4	0.58	430	10	180	19	18	270	390	<1.0
		RPD (%)		0.00%	3.51%	4.32%	0.00%	2.35%	0.00%	0.00%	0.00%	N/A	N/A	3.77%	N/A	5.31%	7.69%	5.41%	2.99%	20.95%	2.35%	0.00%	5.71%	0.00%	0.00%	0.00%	2.53%	N/A
MCWS-307-MWB	25FD-06	Field Duplicate	11/14/2025	240000	3000	97000	15000	270	92	310	9.7	<0.010	<100	<0.050	<0.010	<0.050	0.22	<5.0	1.8	5.5	1800	7.91	300	270	2.1	930	<5.0	<1.0
		Regular		240000	3000	98000	15000	270	92	310	9.7	<0.010	<100	<0.050	<0.010	<0.050	0.26	<5.0	1.8	23	1800	7.93	310	270	2.2	930	<5.0	<1.0
		RPD (%)		0.00%	0.00%	1.03%	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	N/A	N/A	N/A	16.67%	N/A	N/A	**122.81%**	0.00%	0.25%	3.28%	0.00%	4.65%	0.00%	N/A	N/A
CONPL-202-MWA	25FD-07	Field Duplicate	11/12/2025	11000	1200	100000	16000	220	85	8.1	9.8	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.8	8.9	640	7.97	320	220	1.9	360	<5.0	<1.0
		Regular		9800	1200	96000	15000	210	84	7.9	8.9	0.011	<100	<0.050	<0.010	<0.050	<0.050	<5.0	2.5	10	620	7.95	300	210	1.8	350	<5.0	<1.0
		RPD (%)		11.54%	0.00%	4.08%	6.45%	4.65%	1.18%	2.50%	9.63%	0.00%	N/A	N/A	N/A	N/A	N/A	N/A	11.32%	11.64%	3.17%	0.25%	6.45%	4.65%	5.41%	2.82%	N/A	N/A

Sample Location	Sample	Type	Sample Date	As	Ba	Be	Bi	B	Cd	Cr	Co	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	Sr	Tl	Sn	Ti	U	V	Zn
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CODT-201-MWC	25FD-04	Field Duplicate	11/12/2025	3.9	570	<0.10	<2.0	83	<0.010	<1.0	<0.40	<0.50	<50	<0.50	700	-	<2.0	<2.0	2.5	<0.10	570	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
		Regular		3.9	570	<0.10	<2.0	76	<0.010	<1.0	<0.40	<0.50	<50	<0.50	700	-	<2.0	<2.0	3.0	<0.10	560	<0.10	<2.0	<2.0	<0.10	<2.0	<5.0
		RPD (%)		0.00%	0.00%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00%	-	N/A	N/A	N/A	N/A	1.77%	N/A	N/A	N/A	N/A	N/A	N/A
CONCW-101-MWB	25FD-05	Field Duplicate	11/12/2025	3.3	31	<0.10	<2.0	<50	<0.010	1.3	<0.40	2.9	<50	<0.50	<2.0	-	4.0	<2.0	2.0	<0.10	420	<0.10	<2.0	<2.0	0.26	16	<5.0
		Regular		3.3	30	<0.10	<2.0	<50	<0.010	1.1	<0.40	3.0	<50	<0.50	<2.0	-	4.0	<2.0	2.0	<0.10	410	<0.10	<2.0	<2.0	0.26	16	<5.0
		RPD (%)		0.00%	3.28%	N/A	N/A	N/A	N/A	16.67%	N/A	3.39%	N/A	N/A	N/A	-	0.00%	N/A	N/A	N/A	2.41%	N/A	N/A	N/A	0.00%	0.00%	N/A
MCWS-307-MWB	25FD-06	Field Duplicate	11/14/2025	1.6	51	<0.10	<2.0	130	<0.010	<1.0	<0.40	<0.50	280	<0.50	260	-	<2.0	<2.0	<0.50	<0.10	450	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
		Regular		1.6	50	<0.10	<2.0	130	<0.010	<1.0	<0.40	<0.50	280	<0.50	260	-	<2.0	<2.0	<0.50	<0.10	440	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
		RPD (%)		0.00%	1.98%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00%	N/A	0.00%	-	N/A	N/A	NA	N/A	2.25%	N/A	N/A	N/A	0.00%	N/A	NA
CONPL-202-MWA	25FD-07	Field Duplicate	11/12/2025	<1.0	30	<0.10	<2.0	<50	0.044	<1.0	<0.40	<0.50	<50	<0.50	96	<0.013	<2.0	<2.0	<0.50	<0.10	390	<0.10	<2.0	<2.0	1.2	<2.0	<5.0
		Regular		<1.0	30	<0.10	<2.0	<50	0.018	<1.0	<0.40	<0.50	<50	<0.50	<2.0	<0.013	<2.0	<2.0	<0.50	<0.10	340	<0.10	<2.0	<2.0	1.1	<2.0	<5.0
		RPD (%)		N/A	0.00%	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	13.70%	N/A	N/A	N/A	8.70%	N/A	N/A

Notes:

NA - Not applicable (Either 1) Parameter not analyzed or 2) One or both sample results exhibit concentrations less than 5 times the RDL)

Bold - Calculation is outside of the acceptable RPD range.

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