



The Corporation of the Municipality of Whitestone

**Agenda of Regular Council Meeting
Tuesday March 17, 2026 10:00 a.m.**

Dunchurch Community Centre

and

Join Zoom Meeting **by Video:**

<https://us02web.zoom.us/j/89573010445>

by Phone:

Dial 1-780-666-0144 Meeting ID: 895 7301 0445#

*Every effort is made to record meetings with the exception of the Closed Session matters.
Both the audio and video are posted on the Municipal Website.
The written minutes are the official record of the meeting.*

- 1. Call to Order and Roll Call 10:00 a.m.**

National Anthem

Indigenous Land Acknowledgement Statement

The Municipality of Whitestone recognizes all of Canada resides on traditional, unceded and/or treaty lands of the Indigenous People of Turtle Island.

We recognize our Municipality on The Robinson Huron Treaty territory is home to many past, present and future Indigenous families.

This acknowledgment of the land is a declaration of our commitment and collective responsibility to reconcile the past, and to honour and value the culture, history and relationships we have with one another.

- 2. Disclosure of Pecuniary Interest**
- 3. Approval of Agenda**
- 4. Presentations and Delegations**

- 4.1 North Bay Parry Sound District Health Unit
 - Alenna Stirpe – Blue-Green Algae information

Move into Committee of the Whole

5. Committee of the Whole

Planning Matters

- 5.1 ROTHAM-ROBERTS, Will (Proposed Zoning By-law amendment)
 - MHBC Planning Limited Memorandum for the March 17, 2026 Agenda
- 5.2 Consent Application B05/2026(W) – NASH
 - Report from Parry Sound Area Planning Board dated March 5, 2026

Reconvene into Regular Meeting

Matters Arising from Committee of the Whole

6. Public Meeting – None

7. Consent Agenda

Items listed under the Consent Agenda are considered routine and will be enacted in one motion. A Member of Council may request one or more items to be removed from the Consent Agenda for separate discussion and/or action.

- 7.1 Council Meeting Minutes
 - 7.1.1 Regular Council Budget Meeting Minutes – February 9, 2026
 - 7.1.2 Regular Council Budget Meeting Minutes – February 11, 2026
 - 7.1.3 Regular Council Meeting Minutes – February 17, 2026
- 7.2 Council Committee and Board Minutes
 - 7.2.1 Whitestone Library and Technology Centre Board – January 19, 2026
 - 7.2.2 Belvedere Heights Board of Management – December 10, 2025
 - 7.2.3 Parry Sound EMS Advisory Committee – February 26, 2026
 - 7.2.4 Parry Sound Area Planning Board – January 26, 2026
 - 7.2.5 Parry Sound Area District Social Services Board – January 8, 2026
 - 7.2.6 North Bay District Health Unit – January 22, 2026
- 7.3 Unfinished Business (listed on pages 4 and 5 of the agenda)

8. Accounts Payable

- 8.1 Accounts Payable Report from February 1, 2026 to February 28, 2026

9. Staff Reports

- 9.1 Report PW-2026-01
2025 Landfill Monitoring Program Dunchurch (York Street) and Aulds Road Landfill sites
- 9.2 Report FIN-2026-05
Council Remuneration and Expenses 2025

- 9.3 Report FIN-2026-06
2026 Draft Consolidated Operating and Capital Budget – Additional Revisions
- 9.4 Report FIN-2026-07
2026 Annual Donations
- 9.5 ADMIN-2026-02
Building Department Inactive Permits

10. By-laws

- 10.1 By-law No. 13-2026, being a By-law for a Zoning By-law amendment to rezone from Waterfront Residential 1 – Limited Services (WF1-LS) Zone to Tourist Commercial Exception 5 (C2-5) Zone, William Rootham-Roberts

11. Business Matters

- 11.1 ROMA Conference Update
Councillor Bray and Mayor Comrie
- 11.2 2026 FONOM Conference May 11 to 13, Timmins
- 11.3 Resolution of Support – South River Request for Revocation or Exemption from Mandatory Firefighter Certification Requirements (Item D from February 17 meeting Matters Arising from Correspondence)
- 11.4 Belvedere Heights Board of Management request to Council
 - Correspondence dated March 2, 2026
- 11.5 Parry Sound Area Planning Board
 - Parry Sound Area Planning Board 2026 Budget

12. Correspondence – listed on page 6 of the agenda

13. Councillor Items

14. Questions from the Public

15. Closed Session

- 15.1 Closed Session Minutes from the February 17, 2026 Regular Council Meeting
- 15.2 Advice that is subject to solicitor-client privilege, including communications necessary for that purpose, pursuant to Ontario Municipal Act, Section 239 (2) (d)
 - Verbal update of legal matter from CAO/Clerk Black

16. Confirming By-law

17. Adjournment

Unfinished Business

DATE	ITEM AND DESCRIPTION	ASSIGNED TO	STATUS
March 15, 2021	<p>Review of By-law 20-2014 (being a By-law for the licensing, regulating/governing of rental units in Whitestone)</p>	Administration Staff	<p>Public meeting for Public input: March 19, 2024.</p> <p>DRAFT By-law presented at the May 21, 2024</p> <p>Council to submit comments by June 7, 2024 to Staff</p> <p>Memo to Council meeting August 20, 2024 – Policy direction provided for future iteration of By-law</p> <p>Revised Draft to Council submitted November 19, 2024</p> <p>Staff to seek legal review and provide to Council at a future Council meeting</p> <p>To Council April 15 2025 – deferred</p> <p>To Council May 20 2025</p> <p>May 20 – staff to review and provide update</p> <p>CAO to provide report at January 21 2026 meeting</p> <p>Jan 21 2026 –staff directed to bring back to Council at a future meeting a revised by-law taking into account items discussed at the Jan 21 meeting</p>
July 4, 2023	<p>Strategic Plan, By-law Initiatives THAT the Council of the Municipality of Whitestone receive for information the Memorandum from CAO/Clerk Hendry, Strategic Plan – moving forward with 2023 priorities</p>	Assigned to various staff	In progress; review presented at Jan 21 meeting
October 21, 2025	<p>Blue Green Algae – arrange in-person meeting with</p>	Administration Staff	October 31 MECP suggests Health Unit has jurisdiction

	agencies responsible; continue to provide information to residents		Health Unit staff scheduled to attend March 17, 2026 Council meeting to provide information
October 21, 2025	Nursing Station update to operations	Administration Staff	Staff to arrange for a Nursing Station representative to attend and discuss operational change In progress – email request sent December 19 2025 Nursing Station staff confirm attendance at Feb 17 meeting Nurse Practitioner-Led Clinic and Health Centre staff delegated to Council Feb 17; item to be removed from Unfinished Business List
May 20, 2025	Grant Writing RFP	Treasurer	RPF for grant writing services to be posted In progress
December 2, 2025	Insurance Review	Treasurer	In progress – spoken to at Feb 9 Budget review meeting
December 2, 2025	Procurement By-law Review	Administration staff	In progress
November 18, 2025	Review of fees charged per building inspection	CAO / CBO	In progress

Correspondence

A	Southgate	Protect our Food Act Bill 21
B	Cochrane	Establishment of a provincial bail notification program
C	Papineau-Cameron	Expanding enrollment capacity at the Ontario Veterinary College
D	McKellar	Opposition to the demolition of the Jones Island Rear Lighthouse

PRESENTATIONS AND DELEGATIONS

4.1 North Bay Parry Sound District Health Unit
Alenna Stirpe - blue green algae information

COMMITTEE OF THE WHOLE

PLANNING ITEMS

MUNICIPALITY OF WHITESTONE – COUNCIL			
Report Prepared For:	Nigel Black, CAO/Clerk and Paula Macri, Planning Assistant	Owner Name:	William Rootham-Roberts
Report Prepared By:	Jamie Robinson, MCIP, RPP and Patrick Townes, BA, BEd, MHBC Planning Limited	Applicant Name:	Planscape Inc. c/o Stefan Szczerbak
Location:	9087 Bolger Lake	Application:	Zoning By-law Amendment
Legal Description:	Part Lot 24, Concession 6	Report Date:	March 17, 2026

A. RECOMMENDATION

THAT Council receives the Planning Report dated March 17, 2026, respecting the Zoning By-law Amendment for the property located at 9087 Bolger Lake; and,

THAT Council approves in-part the Zoning By-law Amendment application for 9087 Bolger Lake Road (Rootham-Roberts) and enact the Zoning By-law Amendment attached to this report that permits a marina, vehicle and trailer parking and boat storage as a principal use.

B. PROPOSAL/BACKGROUND

A Zoning By-law Amendment application has been submitted by the agent, Planscape Inc. (c/o Stefan Szczerbak) on behalf of the property owner, William Rootham-Roberts. The subject property is a located at 9087 Bolger Lake Road and the property is accessed via Semikoka Trail East. The subject property is located on the shoreline of Bolger Lake.

The purpose and effect of the proposed Zoning By-law Amendment application is to rezone the subject property from the Waterfront Residential 1 – Limited Services (WF1-LS) Zone to the Tourist Commercial Exception No. 4 (C2-4) Zone to permit a new private marina as well as other site-specific uses. The proposed uses include the following:

Primary Uses:

- Marina
- Resort
- Vehicle and trailer parking
- Boat storage
- Outside storage
- Tourist establishment
- Rental cottages

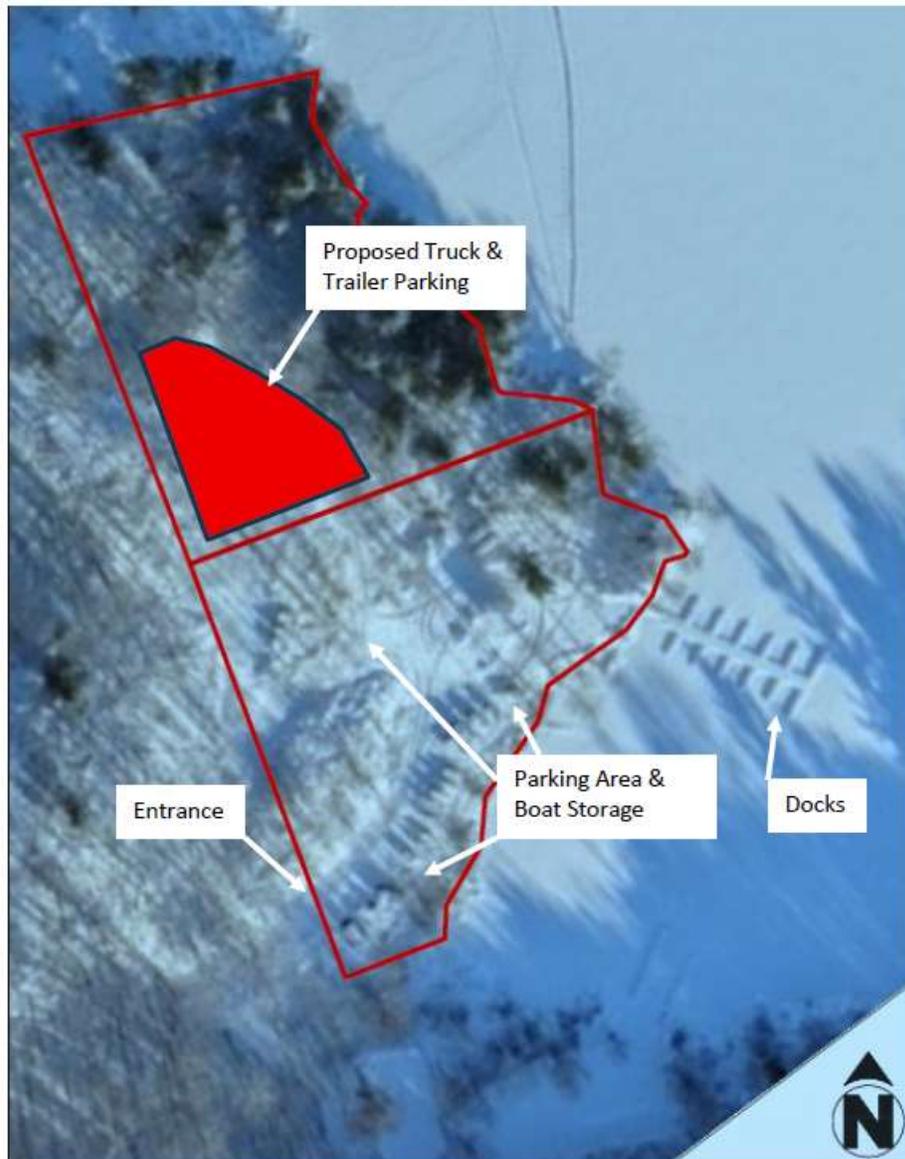
Accessory Uses:

- Dwelling
- Accessory uses

The owner also owns the adjacent property to the south, which was rezoned in March of 2023 to the Tourist Commercial Exception 4 (C2-4). The uses that are proposed for the current application are the same as the proposed uses in the 2023 application, as the owner is planning to expand the existing use.

The owner is currently operating a private marina on the adjacent property that contains a parking area, a boat storage area and docking facilities. The agent has provided a drone photo of the subject property and the adjacent property, showing the existing features on the adjacent property and the proposed truck and trailer parking area on the subject property. The drone photo is included in Figure 1.

Figure 1: Existing/Proposed Development



Based on the site plan drawing submitted by the agent, the only uses that are proposed on the subject property at present time include a proposed truck and trailer parking area to supplement the existing marina use on the adjacent property.

The Statutory Public Meeting was held on December 16, 2025. The Information Planning Report that was prepared for Council is included as Attachment #1 in this Report. The Information Planning Report provides additional background information on the proposed application and outlines items that Planning Staff requested from the owner and agent prior to making a recommendation to Council on the Zoning By-law Amendment, including additional information to demonstrate conformity to Section 13.06.3 of the Official Plan and a Fish Habitat Assessment due to the identified fish habitat area within adjacent lands to the subject property (within 120 metres). In response to the information contained within the Information Planning Report, the agent provided a response letter dated January 21, 2026 to address the comments. The agent's response letter is included as Attachment #2 in this Report.

C. REVIEW OF AGENT'S RESPONSE LETTER

A Planning Justification Report was submitted with the Zoning By-law Amendment application, however no site plan drawing was submitted showing the extent of what is proposed on the subject property and no analysis was included to demonstrate conformity to Section 13.06.3 of the Official Plan:

“Rather than prohibit new commercial uses along the waterfront, the municipality will require a number of studies to ensure that a proposed development is appropriate in terms of need, impacts and any mitigative measures. A zoning by-law amendment would also be required.”

Additional information was requested to further consider the following matters:

- traffic and road implications;
- summarize the existing number of water access lots on the lake(s);
- quantify the amount of boat traffic expected both from the proposed development and the cumulative impact of commercial activity planned on the neighboring lot; including details on the existing marina space and/or boat parking spaces that are available;
- whether the phasing of the build out of marina/waterfront landing properties should be required;
- whether there should be a maximum number of boat slips permitted on subject property;
- a conceptual site plan detailing dock location, vehicle parking locations and emergency access considerations;
- stormwater management; and,
- the proximity of fish habitat and potential impacts of fish habitat in relation of the scale and location of development proposed.

The intent of the agent's response letter included in Attachment #2 is to address these items and to demonstrate conformity to Section 13.06.3 of the Official Plan. An analysis of this information is included in the Official Plan section of this Report.

D. COMMENTS RECEIVED

Comments were received from Marsha Murphy (8851 Bolger Lake) who had concerns that the proposed application would not benefit the cottagers and that the expansion would result in more boats and congestion at all times of the day.

Comments were received from Susan Jennings and Randy Johnson (Owners fronting on Bolger Creek and Portage Bay, Kashegaba Lake and residing in Dunchurch) who were in support of the application. A summary of the comments is included below:

- There is currently limited parking at both the public landing and marina and it only makes sense to plan ahead for what we see as an inevitable shortage of space as families continue to grow.
- Additional marina space is beneficial as others have been denied land use leases for the purposes of storing docks.
- No impacts to fish habitat.
- Support for local marina businesses.

During the Statutory Public Meeting, there were comments provided by Council regarding whether or not a site visit was conducted. While it was intended that a site visit would be undertaken, due to the winter conditions and schedules of the owner and Planning Staff, a site visit has not been able to be undertaken to date. The owner and the agent have provided drone photos of the subject property and adjacent property to the Municipality for review. Generally, the site visits are more valuable during the non-snow seasons, however in this case Planning Staff do not require a site visit to be undertaken in order to provide a recommendation to Council, based on the following:

- nature of the application and limited uses that are proposed at present time;
- the previously approved and established land use on the adjacent property; and,
- the additional information that has been provided by the owner and agent despite the attempts to visit the property.

E. POLICY AND REGULATORY CONSIDERATIONS

The following is a review of the relevant policy and regulatory considerations that pertain to the proposed Zoning By-law Amendment application.

Provincial Planning Statement (2024)

The Provincial Planning Statement (PPS) came into effect on October 20, 2024. The PPS is the statement of the government's policies on land use planning and is intended to provide policy direction on land use matters which are in the Provincial interest. All land use planning decisions are required to be consistent with the PPS.

In the context of the PPS, the subject property is located on Rural Lands. Resource-based recreational uses and other rural land uses are permitted on Rural Lands. Tourist commercial uses, including marinas, are permitted on the subject property in the context of the PPS.

Section 1.1.5.3 of the PPS states that recreational, tourism and other economic opportunities should be promoted. The proposed application would result in an expansion to the existing and established marina on the adjacent property.

Section 3.6.4 of the PPS states that where municipal sewage services and municipal water services or private communal sewage services and private communal water services are not available, planned or feasible, individual on-site sewage services and individual on-site water services may be used provided that site conditions are suitable for the long-term provision of such services with no negative impacts.

Based on the current proposal, there are no buildings and structures being proposed. The only uses that are proposed on the subject property at present time include a proposed truck and trailer parking area to supplement the existing marina use on the adjacent property. The permitted uses within the requested C2-4 Zone include a number of uses that would be more intense than a truck and parking area, including a resort, tourist establishment or rental cottages. In order to evaluate the potential for these types of uses to occur, additional information would be required to demonstrate that such uses can be adequately serviced from a well and septic system perspective. Technical studies of this nature have not been submitted, which is reasonable based on the proposed uses shown on Figure 1 which has been submitted by the agent. As such, it is recommended that the proposed uses of a resort, tourist establishment and rental cottages not be included in the proposed Zoning By-law Amendment at present time.

Section 3.6.8 of the PPS includes policies regarding stormwater management. Similar to the response above, if uses such as a resort, tourist establishment or rental cottages are contemplated, additional information from a stormwater management perspective would be required.

Section 4.1 of the PPS contains policies related to natural heritage. Section 4.1.8 of the PPS contains policies regarding development adjacent to natural heritage features and areas. There is a wetland identified to the west of the subject property. The wetland is located approximately 75 metres from the subject property. The wetland is not classified as a Provincially Significant Wetland and therefore the adjacent lands policies of the Official Plan do not apply. There is no Environmental Impact Assessment required based on the policies of the PPS and the Official Plan. There are no other natural heritage features identified on the subject property or on applicable adjacent lands.

Section 4.1.6 of the PPS contains policies regarding fish habitat. Development and site alteration shall not be permitted in fish habitat except in accordance with Provincial and Federal requirements. There is fish habitat mapped and located to the south of the subject property and is approximately 50 metres from the closest point from the subject property. The shoreline of the subject property does not contain any mapped fish habitat. The area mapped as fish habitat is separated by the property to the south which is the property that has the zoning permissions for the marina and other uses (currently located within the C2-4 Zone). Section 4.1.8 of the PPS and Section 12.0.5 of the Municipality's Official Plan include policies regarding adjacent lands. Where development is proposed on lands adjacent to fish habitat, development and site alteration is not permitted unless the ecological function of the adjacent lands has been evaluated and it has been demonstrated that there will be no negative impacts on the natural features (fish habitat) or on their ecological functions.

A Fish Habitat Assessment was required, however a Fish Habitat Assessment has not been completed. The agent has provided a response noting that the subject property does not contain any fish habitat. This is correct however the adjacent lands must be considered in accordance with the policies of the PPS and the Official Plan.

The owner is not proposing any in-water structures such as a dock at present time. The only uses that are proposed on the subject property at present time include a proposed truck and parking area to supplement the existing marina use on the adjacent property. Based on the current development proposal, it does not appear that there would be an impact to the adjacent fish habitat area, due to the nature of the proposed development and the retention of vegetation along the shoreline area.

However, Section 4.1.8 of the PPS and Section 12.0.5 of the Municipality's Official Plan is difficult to satisfy especially if in-water structures were to be proposed. The subject property is within adjacent lands and as a result any in-water structures should be subject to a Fish Habitat Assessment prior to construction.

Typically, Site Plan Control could be used as a land use planning tool to require technical studies in the future, such as a Fish Habitat Assessment, to evaluate new development on a property. The Municipality's Site Plan Control By-law does not apply to the subject property. In the absence of the ability for the owner to enter into a Site Plan Control agreement with the Municipality, it is recommended that a holding symbol be included in the Zoning By-law Amendment, to require a Fish Habitat Assessment to be completed prior to the installation of any in-water structures in the future.

Section 5 of the PPS contains policies related to protecting public health and safety. In accordance with Section 5.2 of the PPS, the subject property is located outside of hazardous lands and hazardous sites.

Following a review of the application, drawings and information that has been provided, Planning Staff are satisfied that the proposed application is consistent with the PPS, subject to the following:

- The proposed uses of a resort, tourist establishment and rental cottages are not included in the implementing Zoning By-law Amendment; and,
- A Holding Symbol is included in the implementing Zoning By-law Amendment to require a Fish Habitat Assessment prior to the construction of any in-water structures.

Municipality of Whitestone Official Plan

The Municipality's Official Plan provides policy direction on growth and development within Whitestone. The policies in the Official Plan address the environment, cultural and built heritage, natural resources and servicing and transportation.

The subject property is designated as Waterfront in the Official Plan and there are no natural heritage features identified on the subject property. There is a wetland identified to the west that is located approximately 75 metres from the subject property and there is identified fish habitat mapped that is located approximately 50 metres from the subject property.

Section 12 of the Official Plan includes natural heritage policies. There is a wetland identified to the west of the subject property. The wetland is located approximately 75 metres from the subject property. The wetland is not classified as a Provincially Significant Wetland and therefore the adjacent lands policies of the Official Plan do not apply. There is no Environmental Impact Assessment required based on the policies of the PPS and the

Official Plan. There are no other natural heritage features identified on the subject property or on applicable adjacent lands.

There is fish habitat mapped and located to the south of the subject property and is approximately 50 metres from the closest point from the subject property. The shoreline of the subject property does not contain any fish habitat. The area mapped as fish habitat is where the existing public landing is located which is separated by the owner's adjacent property to the south which is already zoned C2-4. Section 12.01 of the Official Plan includes policies regarding fish habitat, including Section 12.01.1.5 which states that "*Any new structures along shoreline identified as Type 1 fish Habitat will not be permitted unless it can be demonstrated that there will be no adverse impacts.*" Further, Section 12.0.5 of the Official Plan includes policies for adjacent lands. Lands within 120 metres of fish habitat require a site assessment to determine if those features are present and to determine if further study is required to prevent negative impacts on the feature or its ecological function.

Section 12.05.5 of the Official Plan is applicable to this application, because the subject property is located 50 metres from the mapped fish habitat. A Fish Habitat Assessment was required, however a Fish Habitat Assessment has not been completed. The agent has provided a response noting that the subject property does not contain any fish habitat. This is correct however the adjacent lands must be considered in accordance with the policies of the PPS and the Official Plan.

The owner is not proposing any in-water structures such as a dock at present time. The only uses that are proposed on the subject property at present time include a proposed truck and parking area to supplement the existing marina use on the adjacent property. Based on the current development proposal, it does not appear that there would be an impact to the adjacent fish habitat area, due to the nature of the proposed development and the retention of vegetation along the shoreline area.

Previously, the ability to apply Site Plan Control on the subject property was referenced as an appropriate land use planning tool to require additional information to monitor what is proposed on the subject property and to require additional information if required. Under the Municipality's current Site Plan Control By-law, the subject property is not eligible for Site Plan Control and therefore the zoning on the subject property is the only land use planning tool to regulate uses on the subject property. The owner's adjacent property that is zoned C2-4 and is operating as a marina, is not subject to the Site Plan Control Agreement.

Tourist Commercial and access facilities are listed as permitted uses in Section 13.02.1 of the Official Plan within the Waterfront designation. One of the principles of this area within the Municipality is to preserve the character of the waterfront communities. Section 13.05.2 of the Official Plan states that marinas and boat access facilities are important elements in a waterfront community. The agent has provided information to confirm that the existing marina use on the adjacent property and the proposed use has reduced the amount of public parking/boat storage on the public access and is required to support the water access only lots located on Bolger Lake and Kashegaba Lake where all but four lots are water access only.

Section 13.06 of the Official Plan includes the general policies for new commercial development in the Waterfront designation:

13.06 *New Waterfront Commercial Development*

- 13.06.1 *This Plan recognizes that there are a variety but limited number of commercial land uses along the shores of recreational waterbodies. These include marinas, cottage rentals, campgrounds and isolated historical businesses.*
- 13.06.2 *Given the fact that most shoreline areas on the municipality's recreational waterbodies have been developed as low density residential or cottage area, any new commercial development proposed in these areas will have a potential to be incompatible with these existing uses.*
- 13.06.3 *Rather than prohibit new commercial uses along the waterfront, the municipality will require a number of studies to ensure that a proposed development is appropriate in terms of need, impacts and any mitigative measures. A zoning by-law amendment would also be required.*

The Planning Justification Report submitted with the application did not provide an analysis to evaluate conformity to Section 13.06.3 of the Official Plan. In addition to a site plan drawing showing what uses were proposed on the subject property, it was requested that the following matters be considered in order to provide an opinion on whether the proposed application conforms to Section 13.06.3 of the Official Plan. The agent provided responses to these items in the letter included as Attachment #2. Planning Staff have included responses to each of the items, in bolded italics below.

- traffic and road implications;
 - ***The agent confirmed that the main users/clients are those who already exist on the lake and those who have previously relied on the public landing.***
 - ***Previous Planning Staff also noted "The remoteness of this landing attracts a special kind of adventurer and the business will not likely create any perceptible heavy additional traffic loads"***
 - ***The comments that have been provided reflect the remoteness of the subject property and the limitations of the use based on access and historic use by residents.***
 - ***It is recognized that the rezoning of the owner's adjacent property to the south has resulted in use permissions for a resort, tourist establishment and rental cottages, however based on the limitations of access these uses on the subject property do not appear to be appropriate at present time.***
- summarize the existing number of water access lots on the lake(s);
 - ***The agent clarified that there are a total of 77 water access only lots on Bolger Lake and Kashegaba Lake. All but 4 lots on the lakes are water access only. Marinas and boat access are important to provide access to these property owners.***
- quantify the amount of boat traffic expected both from the proposed development and the cumulative impact of commercial activity planned on the neighboring lot;

including details on the existing marina space and/or boat parking spaces that are available;

- ***The agent stated that the amount of boat traffic is not expected to increase as a result of the application.***
- ***Based on this response, it is concluded that the uses of the docking facilities in this area will continue to use the subject property, the owner's adjacent property and the public landing for boat, truck and trailer storage and associated docking.***
- ***The impacts of potential uses such as a resort, tourist establishment and rental cottages are not referenced and unknown at present time.***
- whether the phasing of the build out of marina/waterfront landing properties should be required;
 - ***Based on the site plan drawing that was submitted, and the proposed use on the subject property for only a parking area at present time to support the existing marina use on the owner's adjacent property, it is recommended that such uses as a resort, tourist establishment and rental cottages not be permitted on the subject property as present time.***
 - ***If the proposed development changes in the future on the subject property, those uses could be evaluated at a future time. Or potentially at a time where they are first established on the owner's adjacent property where they are already permitted as of right.***
- whether there should be a maximum number of boat slips permitted on subject property;
 - ***As noted by the agent, the Municipality's Zoning By-law does include regulations in Section 3.19 of the Zoning By-law for docks. The following size restrictions apply for docks:***
 - ***Shall not occupy more than 35% of the lot frontage;***
 - ***Shall not occupy more than 1% of the total lot area or 100 square metres, whichever is less;***
 - ***Shall not exceed 20 metres in length; and***
 - ***Includes minimum setbacks from side lot lines.***
 - ***These regulations assist in controlling the size and scale of docking facilities on shoreline properties.***
 - ***Other than requiring a Fish Habitat Assessment prior to the installation of in-water structures (which are not currently proposed), there are no concerns with maximum docking, considering the regulations in the Zoning By-law.***
- a conceptual site plan detailing dock location, vehicle parking locations and emergency access considerations;
 - ***The owner provided a site plan drawing and this is included in Attachment #2. The existing development is shown on the owner's adjacent property as well as the subject property.***

- ***The site plan drawing shows that the only proposed uses on the subject property is a proposed truck and trailer parking area, at present time.***
- stormwater management; and,
 - ***It is agreed that there is no stormwater management plan required because there are no buildings and structures proposed.***
 - ***The proposed parking area is setback from the shoreline and it appears that vegetation along the shoreline will be maintained.***
 - ***If buildings and structures were being proposed, additional information from a stormwater management perspective would have been required to support the application, which included uses such as a resort, tourist establishment and rental cottages.***
- the proximity of fish habitat and potential impacts of fish habitat in relation of the scale and location of development proposed.
 - ***The agent confirmed that there is no fish habitat located on the subject property. This is correct, however there is fish habitat located on adjacent lands.***
 - ***A Holding Symbol is recommended to included in the implementing Zoning By-law Amendment to require a Fish Habitat Assessment prior to the construction of any in-water structures, in order to demonstrate conformity to the fish habitat policies included in the PPS and Municipality's Official Plan.***

Section 14 of the Official Plan includes policies regarding commercial and industrial development in the Municipality:

- 14.01 *The Council of the Municipality of Whitestone supports the establishment of new businesses in all areas to improve employment opportunities and to provide an increased commercial assessment base.*
- 14.02 *As it is difficult to predict where new industrial and commercial development may wish to locate, the designations of commercial and industrial have not yet been applied to any particular areas. Proposed businesses may locate in any designation subject to the following conditions in accordance with M.O.E.C.C.'s D-Series and Noise Guidelines:*
- 14.02.1 *submission of a report by the applicant describing the use and what measures, if any, that are proposed to mitigate against any impacts: financial; environmental; social; or physical;*
- 14.02.2 *an amendment to the zoning by-law;*
- 14.02.3 *the filing and approval of a site plan; and*
- 14.02.4 *consultation with any relevant agency.*

The owner is proposing a new tourist commercial use, a marina and other related uses on the subject property. The adjacent property that is also owned by the owner received approval of the same application and proposed uses in 2023.

Following a review of the proposed site plan drawing and the comments provided by the agent, it is acknowledged that the proposed uses on the subject property at present time are limited and the use is meant to support the existing marina on the owner's adjacent property. It is recommended that the proposed uses in the implementing Zoning By-law Amendment not include a resort, tourist establishment and rental cottages at present time because supporting information and justification has not been provided for these uses. The size of the lot and existing provisions in the zoning By-law sufficiently limit the scale of docking or future marina that could be established on the lot.

Similar to the conclusions provided in the PPS section of this Report, Planning Staff are satisfied that the proposed application conforms with the Municipality's Official Plan, subject to the following:

- The proposed uses of a resort, tourist establishment and rental cottages are not included in the implementing Zoning By-law Amendment; and,
- A Holding Symbol is included in the implementing Zoning By-law Amendment to require a Fish Habitat Assessment prior to the construction of any in-water structures.

Municipality of Whitestone Zoning By-law

The subject property is located within the Waterfront Residential 1 – Limited Services (WF1-LS) Zone. The Limited Services "LS" symbol attached to any WF zoned lands means that the lands do not have direct frontage or access to a publicly maintained, year-round road. The "LS" zoning symbol indicates that the provision of full municipal road services and access to the affected property by emergency vehicles may not be available. The subject property is accessed via Semikoka Trail East. The existing zoning on the subject property reflects that this area has limited access.

The subject property is proposed to be rezoned to the Tourist Commercial (C2) Zone, specifically to the C2-4 Zone which is the same zoning on the owner's adjacent property that was approved in 2023. The minimum lot area in the C2 Zone is 0.4 hectares, and the minimum lot frontage is 60 metres. The subject property meets the lot requirements in the Tourist Commercial (C2) Zone.

As part of the owner's application in 2023, the following uses were permitted on the adjacent property is which currently zoned C2-4:

Principle Uses

- Marina
- Resort
- Vehicle and trailer parking
- Boat storage
- Outside storage
- Tourist establishment
- Rental cottages

Ancillary Uses

- Dwelling
- Accessory uses

The agent has provided a site plan drawing showing the proposed uses on the subject property and has provided responses that we concur demonstrate conformity to the Official Plan for the scoped Zoning By-law Amendment that is attached to this report. Based on a review of the proposed site plan and the responses that have been provided, the proposed uses on the subject property are limited currently to a proposed truck and trailer parking area. The justification that has been provided reflects this proposed use, however, does not provide enough detail to support the other uses that would be permitted as of right, if the subject property was also rezoned to the C2-4 Zone. These uses include a resort, tourist establishment and rental cottages. These are uses that would require further investigation and studies prior to including in the implementing Zoning By-law. Without the ability to apply Site Plan Control on the subject property, zoning is the appropriate mechanism to control the permitted uses and to evaluate future in-water structures in this case.

At present time, it is recommended that the subject property be rezoned to the Tourist Commercial Exception 5 (C2-5) Zone to permit the following:

Principle Uses

- Marina
- Vehicle and trailer parking
- Boat storage

Ancillary Uses

- Dwelling
- Accessory uses

Outside storage was also removed as a permitted use. Outside storage is not defined in the Zoning By-law and is not permitted within the C2 Zone. Outdoor storage is only permitted in the Rural Industrial (RUI) Zone and is considered an industrial type use.

It is further recommended that the subject property also be subject to a Holding Symbol to require a Fish Habitat Assessment be completed prior to the construction of any in-water structures in the future.

A draft Zoning By-law Amendment has been prepared and is attached to this Report.

F. SUMMARY

This Report has been prepared to provide a recommendation on the proposed Zoning By-law Amendment. Following the Statutory Public Meeting, additional information was requested to show what development was proposed on the subject property and to demonstrate conformity to the Official Plan.

The agent provided a subsequent submission which is included as Attachment #2 to this Report. Following a review of the additional material, the proposed uses on the subject property at present time are limited to a truck and trailer parking area to support the existing established use on the owner's adjacent property. The drawing and the justification

provided is satisfactory to support the proposed use that is shown in Attachment #2, however justification to demonstrate that other uses that were previously permitted on the owner's adjacent property have not been provided. These uses include a resort, tourist establishment and rental cottages. It is recommended that these uses not be permitted on the subject property, primarily based on the following:

- That the primary use of the subject property (and owner's adjacent property) is for a marina to provide access to the water access lots on the lake and to take pressure off of the public dock facilities.
- That the existing road condition and the comments indicating that the road is only going to be used for residents on the lake to access their water access only lots;
- That there is the potential for new road users if a resort, tourist establishment or rental cottages were permitted;
- That there will be no increase to boat traffic as a result of the application;
- That a stormwater management plan is not required because there are no buildings and structures being proposed; and,
- That a dock will have to be evaluated in the future and there is no ability to apply Site Plan Control to the subject property.

It is recommended that the implementing Draft Zoning By-law Amendment, included as Attachment #3 be passed by Council.

Attachments:

Attachment #1 – Information Planning Report, December 15, 2026

Attachment #2 – Planscape Inc. (Agent) Response Letter, January 21, 2026

Attachment #3 – Draft Zoning By-law Amendment

MUNICIPALITY OF WHITESTONE – COUNCIL			
Report Prepared For:	Nigel Black, CAO/Clerk and Paula Macri, Planning Assistant	Owner Name:	William Rootham-Roberts
Report Prepared By:	Jamie Robinson, MCIP, RPP and Patrick Townes, BA, BEd, MHBC Planning Limited	Applicant Name:	Planscape Inc. c/o Stefan Szczerbak
Location:	9087 Bolger Lake	Application:	Zoning By-law Amendment
Legal Description:	Part Lot 24, Concession 6	Report Date:	December 16, 2025

A. RECOMMENDATION

THAT Council receives the Planning Report dated December 16, 2025, respecting the Zoning By-law Amendment for the property located at 9087 Bolger Lake for information purposes; and,

THAT Council directs staff to prepare a Recommendation Report, considering any new information, comments and feedback received at the December 16, 2025 Statutory Public Meeting, for presentation at a subsequent Council meeting.

B. PROPOSAL/BACKGROUND

A Zoning By-law Amendment application has been submitted by Planscape Inc. (c/o Stefan Szczerbak) on behalf of the property owner, William Rootham-Roberts. The subject property is located at 9087 Bolger Lake Road and the property is accessed via Semikoka Trail East. The subject property is located on the shoreline of Bolger Lake.

The purpose and effect of the proposed Zoning By-law Amendment application is to rezone the subject property from the Waterfront Residential 1 – Limited Services (WF1-LS) Zone to the Tourist Commercial Exception No. 4 (C2-4) Zone to permit a new private marina as well as other site-specific uses. The proposed uses include the following:

Primary Uses:

- Marina
- Resort
- Vehicle and trailer parking
- Boat storage
- Outside storage
- Tourist establishment
- Rental cottages

Accessory Uses:

- Dwelling
- Accessory uses

The owner also owns the adjacent property to the south, which was rezoned in March of 2023 to the Tourist Commercial Exception No. 4 (C2-4). The uses that are proposed for the current application are the same as the proposed uses in the 2023 application, as the owner is planning to expand the existing use in the future.

The previous application was approved by Council, however the property subject to the previous application has not been developed. It is our understanding that there were objections to the previous application during the public meeting prior to Council passing the Zoning By-law Amendment. Concerns were raised generally regarding the following:

- Questions regarding the need of the proposed use;
- Potential for increased traffic;
- Environmental impacts;
- Land use compatibility conflicts;
- Conformity to the Official Plan; and,
- Location adjacent to Conservation Reserve.

The general location of the subject property is shown in Figure 1 and an aerial of the subject property is shown in Figure 2.

Figure 1: Location of Subject Property



Figure 2: Aerial of Subject Property



The subject property is designated as Waterfront in the Official Plan. According to Schedule B of the Official Plan, there are no natural heritage features on the subject property. The subject property is located within the Waterfront Residential 1 – Limited Services (WF1-LS) Zone.

The surrounding land uses include other shoreline residential properties to the north and Crown Land/Conservation Reserve to the west. The property directly to the south has zoning permissions for the marina and accessory uses. These are the only lots on Bolger Lake that have road access.

The subject property is currently vacant and has a lot area of approximately 0.56 hectares (1.4 acres) and a lot frontage of approximately 112 metres on the shoreline.

It is understood that the majority of the properties located on Bolger and Kashegaba Lake are water access only. It is also noted that the subject property is located adjacent to the Wahwashkesh-Naiscoot Conservation Reserve.

The purpose of this Report is to provide a general overview of the application. There is no recommendation at present time. Comments are to be collected at the Statutory Public Meeting and are to be considered when a Recommendation Report is prepared for Council at a subsequent meeting of Council.

COMMENTS RECEIVED

No comments have been received prior to the preparation of this Report.

C. POLICY AND REGULATORY CONSIDERATIONS

The following is a review of the relevant policy and regulatory considerations that pertain to the proposed Zoning By-law Amendment application.

Provincial Planning Statement (2024)

The Provincial Planning Statement (PPS) came into effect on October 20, 2024. The PPS is the statement of the government's policies on land use planning and is intended to provide policy direction on land use matters which are in the Provincial interest. All land use planning decisions are required to be consistent with the PPS.

In the context of the PPS, the subject property is located on Rural Lands. Resource-based recreational uses and other rural land uses are permitted on Rural Lands. Tourist commercial uses are permitted in the context of the PPS.

Section 1.1.5.3 of the PPS states that recreational, tourism and other economic opportunities should be promoted.

Section 3.6.4 of the PPS states that where municipal sewage services and municipal water services or private communal sewage services and private communal water services are not available, planned or feasible, individual on-site sewage services and individual on-site water services may be used provided that site conditions are suitable for the long-term provision of such services with no negative impacts.

Section 4.1 of the PPS contains policies related to natural heritage. Section 4.1.8 of the PPS contains policies regarding development adjacent to natural heritage features and areas. There is a wetland identified to the west of the subject property. The wetland is located approximately 75 metres from the subject property. The wetland is not classified as a Provincially Significant Wetland and therefore the adjacent lands policies of the Official Plan do not apply. There is no Environmental Impact Assessment required based on the policies of the PPS and the Official Plan. There are no other natural heritage features identified on the subject property or on applicable adjacent lands.

Section 4.1.6 of the PPS contains policies regarding fish habitat. Development and site alteration shall not be permitted in fish habitat except in accordance with Provincial and Federal requirements. There is fish habitat mapped and located to the south of the subject property and is approximately 50 metres from the closest point from the subject property. The shoreline of the subject property does not contain any mapped fish habitat. The area mapped as fish habitat is separated by the property to the south which is the property that has the zoning permissions for the marina and other uses. Section 4.1.8 of the PPS includes policies regarding adjacent lands. Where development is proposed on lands adjacent to fish habitat, development and site alteration is not permitted unless the ecological function of the adjacent lands has been evaluated and it has been demonstrated that there will be no negative impacts on the natural features (fish habitat) or on their ecological functions.

Section 5 of the PPS contains policies related to protecting public health and safety. In accordance with Section 5.2 of the PPS, the subject property is located outside of hazardous lands and hazardous sites.

Municipality of Whitestone Official Plan

The Municipality's Official Plan provides policy direction on growth and development within Whitestone. The policies in the Official Plan address the environment, cultural and built heritage, natural resources and servicing and transportation.

The subject property is designated as Waterfront in the Official Plan and there are no natural heritage features identified on the subject property.

Section 12 of the Official Plan includes natural heritage policies. There is a wetland identified to the west of the subject property. The wetland is located approximately 75 metres from the subject property. The wetland is not classified as a Provincially Significant Wetland and therefore the adjacent lands policies of the Official Plan do not apply. There is no Environmental Impact Assessment required based on the policies of the PPS and the Official Plan. There are no other natural heritage features identified on the subject property or on applicable adjacent lands.

There is fish habitat mapped and located to the south of the subject property and is approximately 50 metres from the closest point from the subject property. The shoreline of the subject property does not contain any mapped fish habitat. The area mapped as fish habitat is separated by the property to the south which is the property that has the zoning permissions for the marina and other uses. Section 12.01 of the Official Plan includes policies regarding fish habitat, including Section 12.01.1.5 which states that "*Any new structures along shoreline identified as Type 1 fish Habitat will not be permitted unless it can be demonstrated that there will be no adverse impacts.*" Further, Section 12.0.5 of the Official Plan includes policies for adjacent lands. Lands within 120 metres of fish habitat require a site assessment to determine if those features are present and to determine if further study is required to prevent negative impacts on the feature or its ecological function.

The property will be subject to site plan control prior to development. During this process the Municipality can request the appropriate environmental assessment to determine if the development is appropriate and implement any mitigation measures that are identified.

Tourist Commercial and access facilities are listed as permitted uses in Section 13.02.1 as of the Official Plan within the Waterfront designation. One of the principles of this area within the Municipality is to preserve the character of the waterfront communities. Section 13.05.2 of the Official Plan states that marinas and boat access facilities are important elements in a waterfront community.

Section 13.06 of the Official Plan includes the general policies for new commercial development in the Waterfront designation:

- 13.06 *New Waterfront Commercial Development*
- 13.06.1 *This Plan recognizes that there are a variety but limited number of commercial land uses along the shores of recreational waterbodies. These include marinas, cottage rentals, campgrounds and isolated historical businesses.*
- 13.06.2 *Given the fact that most shoreline areas on the municipality's recreational waterbodies have been developed as low density residential or cottage area, any new commercial development*

proposed in these areas will have a potential to be incompatible with these existing uses.

13.06.3 *Rather than prohibit new commercial uses along the waterfront, the municipality will require a number of studies to ensure that a proposed development is appropriate in terms of need, impacts and any mitigative measures. A zoning by-law amendment would also be required.*

A Planning Justification Report has been submitted with the application that provides a review and summary of relevant land use planning policies. The Planning Justification Report provides no analysis of conformity with Section 13.06.3. It is recommended that further justification be provided to demonstrate how the proposed rezoning conforms to Section 13.06.3 of the Official Plan, and specifically how the need, impacts and mitigation measures associated with the proposed development have been considered in the supporting studies. No development or site plan has been submitted with the application.

In the absence of such information, planning staff are unable to evaluate the application for conformity with the policy tests established in Section 13.06.3 of the Official Plan, which is required before a Recommendation Report can be prepared.

Such further study shall consider:

- traffic and road implications;
- summarize the existing number of water access lots on the lake(s);
- quantify the amount of boat traffic expected both from the proposed development and the cumulative impact of commercial activity planned on the neighboring lot; including details on the existing marina space and/or boat parking spaces that are available;
- whether the phasing of the build out of marina/waterfront landing properties should be required;
- whether there should be a maximum number of boat slips permitted on subject property;
- a conceptual site plan detailing dock location, vehicle parking locations and emergency access considerations;
- stormwater management; and,
- the proximity of fish habitat and potential impacts of fish habitat in relation of the scale and location of development proposed.

Section 14 of the Official Plan includes policies regarding commercial and industrial development in the Municipality:

14.01 *The Council of the Municipality of Whitestone supports the establishment of new businesses in all areas to improve employment opportunities and to provide an increased commercial assessment base.*

14.02 *As it is difficult to predict where new industrial and commercial development may wish to locate, the designations of commercial and industrial have not yet been applied to any particular areas. Proposed businesses may locate in any designation subject to the following conditions in accordance with M.O.E.C.C.'s D-Series and Noise Guidelines:*

- 14.02.1 *submission of a report by the applicant describing the use and what measures, if any, that are proposed to mitigate against any impacts: financial; environmental; social; or physical;*
- 14.02.2 *an amendment to the zoning by-law;*
- 14.02.3 *the filing and approval of a site plan; and*
- 14.02.4 *consultation with any relevant agency.*

The owner is proposing a new tourist commercial use, a marina and other related uses on the subject property. The adjacent property that is also owned by the owner received approval of the same application and proposed uses in 2023.

A Planning Justification Report has been submitted with the application. It is acknowledged that a Site Plan Control agreement will be required in the future prior to development on the subject property.

Municipality of Whitestone Zoning By-law

The subject property is located within the Waterfront Residential 1 – Limited Services (WF1-LS) Zone. The Limited Services "LS" symbol attached to any WF zoned lands means that the lands do not have direct frontage or access to a publicly maintained, year round road. The "LS" zoning symbol indicates that the provision of full municipal road services and access to the affected property by emergency vehicles may not be available. The subject property is accessed via Semikoka Trail East.

The subject property is proposed to be rezoned to the Tourist Commercial (C2) Zone. The minimum lot area in the C2 Zone is 0.4 hectares and the minimum lot frontage is 60 metres. The subject property meets the lot requirements in the Tourist Commercial (C2) Zone.

Similar to the previous application and Council approval in 2023, the proposed uses on the subject property include the following which are to be included in the Tourist Commercial Exception 4 (C2-4) Zone on the subject property:

Principle Uses

- Marina
- Resort
- Vehicle and trailer parking
- Boat storage
- Outside storage
- Tourist establishment
- Rental cottages

Ancillary Uses

- Dwelling
- Accessory uses

A draft Zoning By-law Amendment has been prepared and is attached to this Report.

D. SUMMARY

This Report has been prepared to provide Council and members of the public with an overview of the Zoning By-law Amendment application and the general details. The application is proposing the same uses on the subject property that were previously approved by Council on the adjacent property to the south, which is also owned by the owner. Planning Staff have not provided a recommendation for the Statutory Public meeting in order to consider comments from members of the public and Council.

In summary, it is recommended that:

- 1) Comments be received and reviewed following the Statutory Public Meeting, prior to staff making a recommendation to Council on the application at a subsequent Council meeting.
- 2) The applicant complete the necessary studies, in consultation with staff, to demonstrate conformity with Section 13.06.3 of the Official Plan which shall include consideration of:
 - traffic and road implications;
 - summarize the existing number of water access lots on the lake(s);
 - quantify the amount of boat traffic expected both from the proposed development and the cumulative impact of commercial activity planned on the neighboring lot; including details on the existing marina space and/or boat parking spaces that are available;
 - whether the phasing of the build out of marina/waterfront landing properties should be required;
 - whether there should be a maximum number of boat slips permitted on subject property;
 - a conceptual site plan detailing dock location, vehicle parking locations and emergency access considerations;
 - stormwater management; and,
 - the proximity of fish habitat and potential impacts of fish habitat in relation of the scale and location of development proposed.
- 3) A Fish Habitat Assessment be submitted for review.

THE CORPORATION OF THE MUNICIPALITY OF WHITESTONE
By-law No. ___-2025

Being a By-law to amend By-law No. 07-2018 (the Zoning By-law) for the property located on Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake (Rootham-Roberts)

WHEREAS the Council of the Municipality of Whitestone has the authority to enact Zoning By-laws under Section 34 of the *Planning Act*, R.S.O. 1990;

AND WHEREAS the Council of the Municipality of Whitestone deem it appropriate and necessary to rezone the subject lands;

AND WHEREAS the Council of the Municipality of Whitestone has determined that no further notice is required in accordance with Section 34(17) of the *Planning Act*, R.S.O. 1990;

NOW THEREFORE the Council of the Municipality of Whitestone hereby enacts as follows:

1. That Schedule 'A', Sheet No. 3 of 22, of By-law No. 07-2018 as amended is hereby further amended by rezoning Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake, from the Waterfront Residential 1 – Limited Services (WF1-LS) Zone to the Tourist Commercial Exception No. 4 (C2-4) Zone, as shown on Schedule A attached to this By-law.
2. That Section 9.04.4 Tourist Commercial Exception 4 (C2-4), be amended in accordance with the following text:
 - a) Notwithstanding the requirements of this By-law, the following uses are permitted on the properties located at **9085 Bolger Lake and 9087 Bolger Lake**.

Principle Uses

- Marina
- Resort
- Vehicle and trailer parking
- Boat storage
- Outside storage
- Tourist establishment
- Rental cottages

Ancillary Uses

- Dwelling
- Accessory uses

3. This By-law shall take effect and come into force in accordance with Section 34 of the *Planning Act*.

4. **THAT** By-law No. ___-2025 being a By-law to amend By-law No. 07-2018 (the Zoning By-law) is hereby passed this ____ day of December, 2025.

Deputy Mayor

Joe Lamb

CAO/Clerk

Nigel Black

DRAFT

Schedule A to By-law __-2025





January 21, 2026

Nigel Black, CAO, Clerk & Paula Macri, Planning Assistant
Municipality of Whitestone
21 Church Street
Dunchurch, ON P0A 1G0

Via Email: nigel.black@whitestone.ca & paula.macri@whitestone.ca

To Mr. Black & Ms. Macri:

**REFERENCE: Zoning Amendment Application, 9087 Bolger Lake
Part Lot 24, Con. 6 (Burton), Municipality of Whitestone**

Further to the statutory public meeting held on December 16, 2025, please accept the following in response to the comments included in the staff report and those expressed by Council.

To summarize the application, the owners have successfully opened and are operating a private marina operation on the adjoining lands. The business has been a complete success and the owner is now looking to expand his operations onto the abutting lands. Figure 1. is a recent (2025) drone photo of the subject lands that shows the current location of winterized boat storage, approximate property lines and the red shaded area where the owner would like to expand the marina use that would be mainly used for truck and trailer parking. No other development is proposed at this time.

In response to the questions contained in the MHBC Planning Report, we offer the following.

- *Traffic and road implications.* Within the previous planning report for the neighbouring property, planning staff noted the following: "The remoteness of this landing attracts a special kind of adventurer and the business will not likely create any perceptible heavy additional traffic loads".

In my opinion and in discussion with the owner, the main users/clients are those who already exist on the lake and have previously relied on the MNRF/Township landing located at the end of Bolger Road.

- *Number of existing or water access lots on the lake(s).* There are only about 77 (37+40) parcels of land on the two lakes, Bolger and Kashegaba Lakes, with all but four lots being water access.

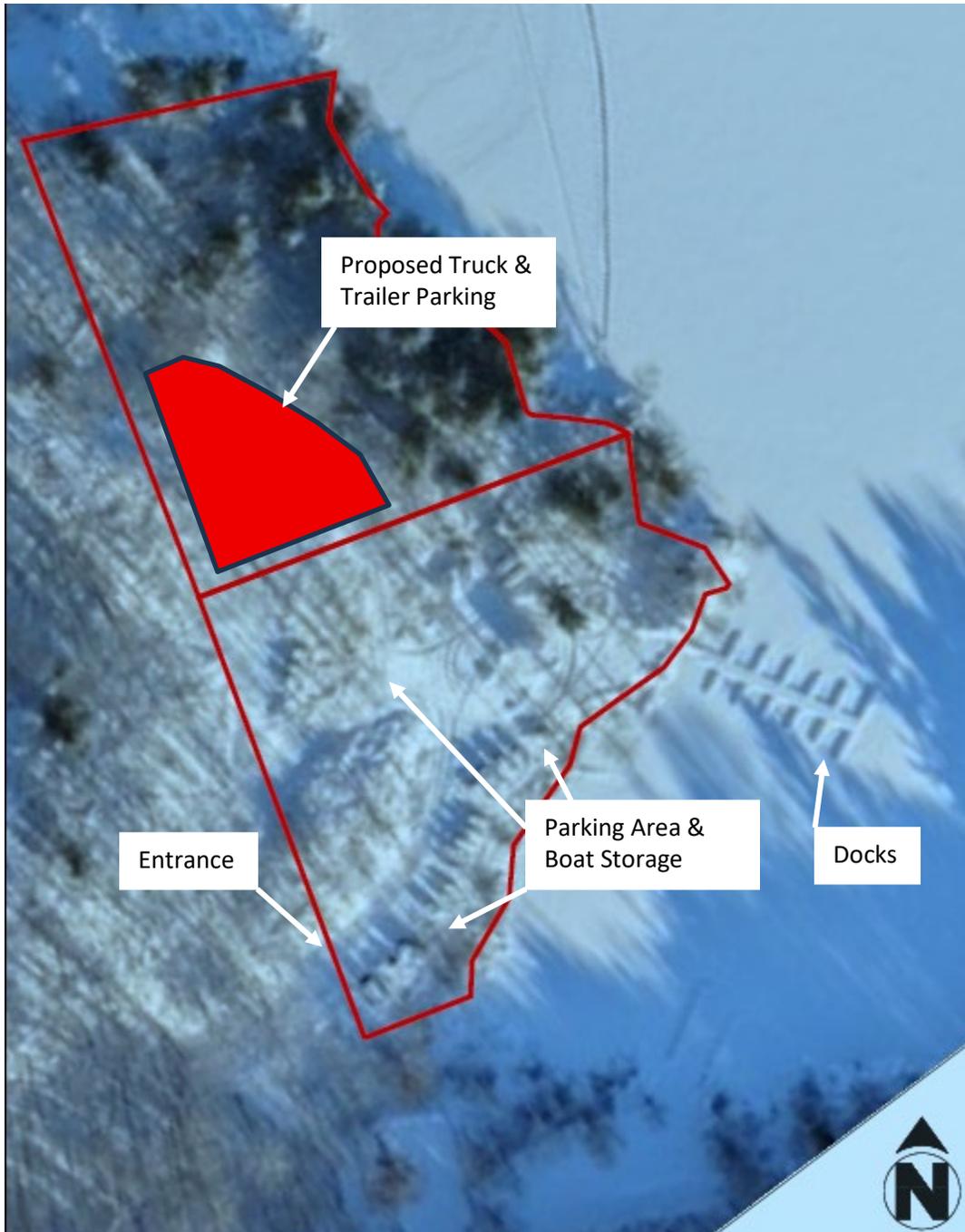
- *Amount of boat traffic expected both from the proposed development and the cumulative impact of commercial activity planned on the neighboring lot, including details on the existing marina space and/or boat parking spaces that are available.* Boat traffic will not be expected to increase. In fact the previous application has significantly reduced the amount of public parking/boat storage and use of the MNRF/Township public access point. This was recently acknowledged by the Cottage Association meeting in the summer of 2025, where the Association supported the subject expansion.
- *Potential phasing of the marina/waterfront landing properties.* Phasing is not required. If additional docks are needed, they will be added to the subject lot, comply with the Municipal requirements and be included on the required site plan agreement process.
- *Maximum number of boat slips permitted on subject property.* The applicant is not contemplating boat slips at this time. However, current zoning provisions provide specific and limited regulations for docks. The applicant has no current plans to exceed these limitations.
- *Conceptual site plan.* Figure 1. shows a draft plan for the two lots.
- *Stormwater management.* A stormwater management plan is not necessary as no new buildings are contemplated and the new parking areas will be gravel. This is similar to what exists on the neighbouring lot. Very little vegetation removal is necessary to establish the proposed parking area.
- *Proximity of fish habitat and potential impacts of fish habitat.* There is no sensitive fish habitat on the subject lands, according to the information available through the Township. This was noted on the previous property and this protected area is mainly found in front of the public landing. The current dock on the abutting property was specifically located well outside of this protected area and followed the current zoning provisions.

Finally, our client fully acknowledges and will submit the required site plan agreement application, and he is fully aware of any additional permissions/requirements.

With respect to the noted Official Plan policies included in the planning report, there are several supportive economic development policies that should be considered, as noted in the Planning Justification Report submitted with this zoning application.

In summary, it remains my professional planning opinion that the application clearly conforms to the direction of the Whitestone Official Plan and it represents good planning, as did the previous application for the same use.

Figure 1. General Area of Proposed Parking



Please contact me if you have any questions or require any additional information.

Yours truly,

PLANSCAPE INC.

A handwritten signature in black ink, reading "Stefan Szczerbak". The signature is written in a cursive style with a large, stylized 'S' at the beginning.

Stefan Szczerbak, M.Sc, MCIP, RPP
Principal

THE CORPORATION OF THE MUNICIPALITY OF WHITESTONE
By-law No. ___-2026

Being a By-law to amend By-law No. 07-2018 (the Zoning By-law) for the property located on Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake (Rootham-Roberts)

WHEREAS the Council of the Municipality of Whitestone has the authority to enact Zoning By-laws under Section 34 of the *Planning Act*, R.S.O. 1990;

AND WHEREAS the Council of the Municipality of Whitestone deem it appropriate and necessary to rezone the subject lands;

AND WHEREAS the Council of the Municipality of Whitestone has determined that no further notice is required in accordance with Section 34(17) of the *Planning Act*, R.S.O. 1990;

NOW THEREFORE the Council of the Municipality of Whitestone hereby enacts as follows:

1. That Schedule 'A', Sheet No. 3 of 22, of By-law No. 07-2018 as amended is hereby further amended by rezoning Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake, from the Waterfront Residential 1 – Limited Services (WF1-LS) Zone to the Tourist Commercial Exception 5 (C2-5) Zone, as shown on Schedule A attached to this By-law.
2. That Section 9.04.5 Tourist Commercial Exception 5 Holding (C2-5(H)), be added in accordance with the following:
 - a) Notwithstanding the requirements of this By-law, only the following uses are permitted on the property located at **9087 Bolger Lake.**

Principle Uses

- Marina
- Vehicle and trailer parking
- Boat storage

Ancillary Uses

- Dwelling
- Accessory uses

- b) The Holding 'H' suffix and the provisions relating to the restrictions attributed to the symbol will be removed upon: (i) the completion of a Fish Habitat Assessment to the satisfaction of the Municipality prior to the construction of any in-water structures on the shoreline.
3. This By-law shall take effect and come into force in accordance with Section 34 of the *Planning Act*.

4. **THAT** By-law No. ___-2026 being a By-law to amend By-law No. 07-2018 (the Zoning By-law) is hereby passed this 17th day of March, 2026.

Mayor

George Comrie

CAO/Clerk

Nigel Black

DRAFT

Schedule A to By-law __-2026



PARRY SOUND AREA PLANNING BOARD

1 Mall Drive, Unit 2, Parry Sound, Ontario P2A 3A9

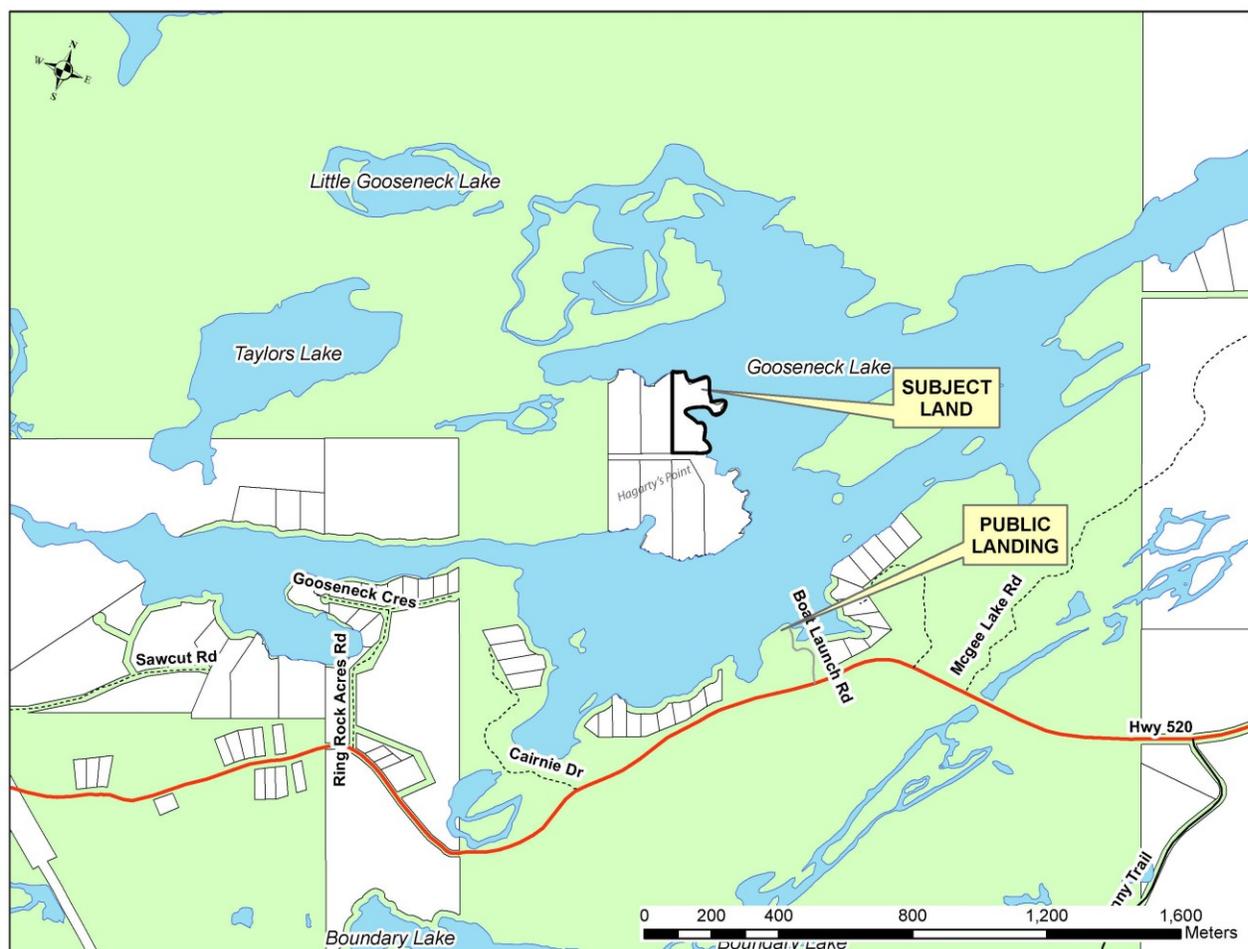
CONSENT APPLICATION NO. B05/2026(W)

PART OF LOT 4, CONCESSION 2
GEOGRAPHIC Township OF HAGERMAN
PART 4, 42R-21217
ROLL # 493904000102309
1250WA Gooseneck Lake
Applicant: Scott Nash

March 5, 2026

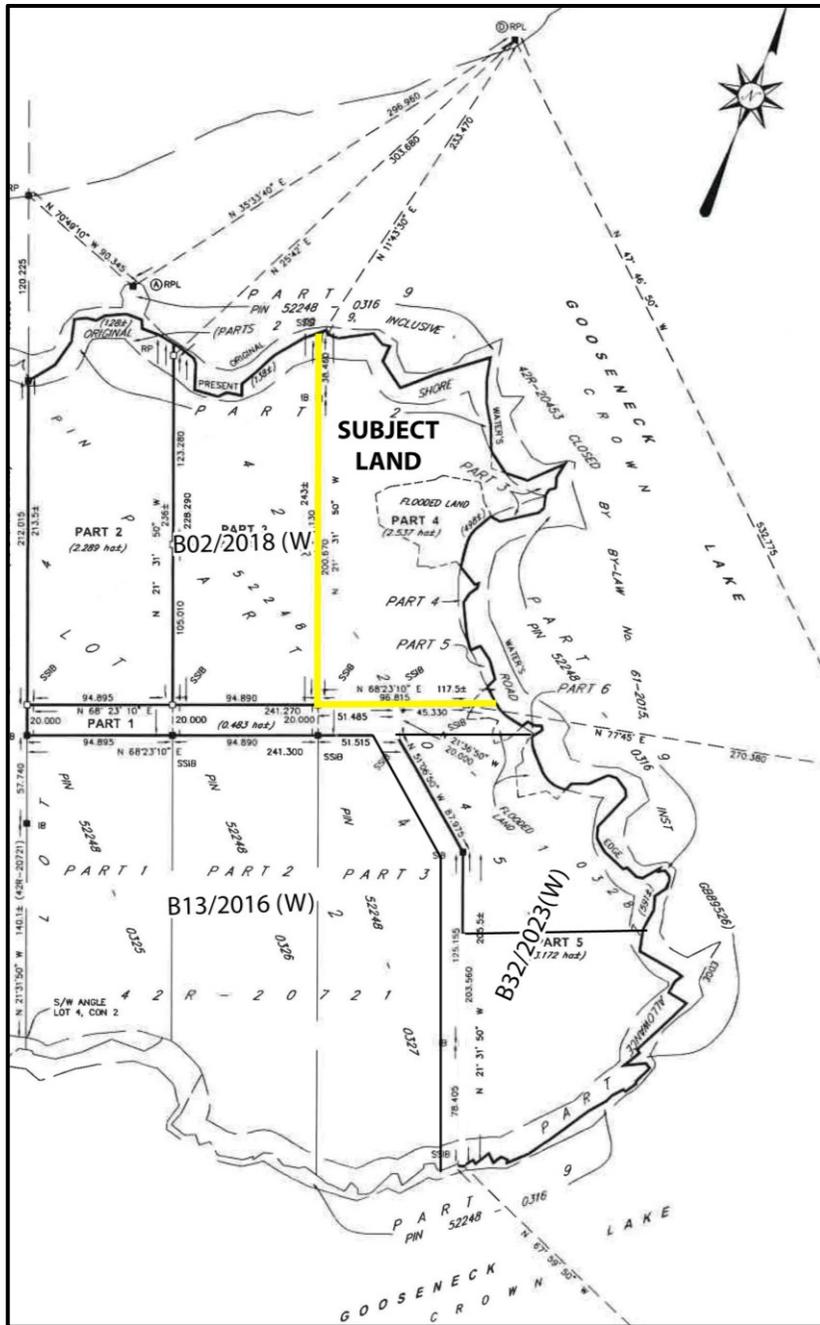
BACKGROUND / PURPOSE

Scott Nash owns a parcel on the north side of Hagarty's Point in Gooseneck Lake.



PREVIOUS CONSENTS

The Nash family have completed other severances on this point of land in the past. The history of these consent is show below.



The initial application for the creation of three lots was determined to be in conformity with the access policies of the official plan using the Gooseneck public access.

An E-mail chain from MNR staff, supporting the use of the public boat launch and a land use permit is attached.

The second application was determined to require an alternative water access arrangement using private property in contrast to the public landing.

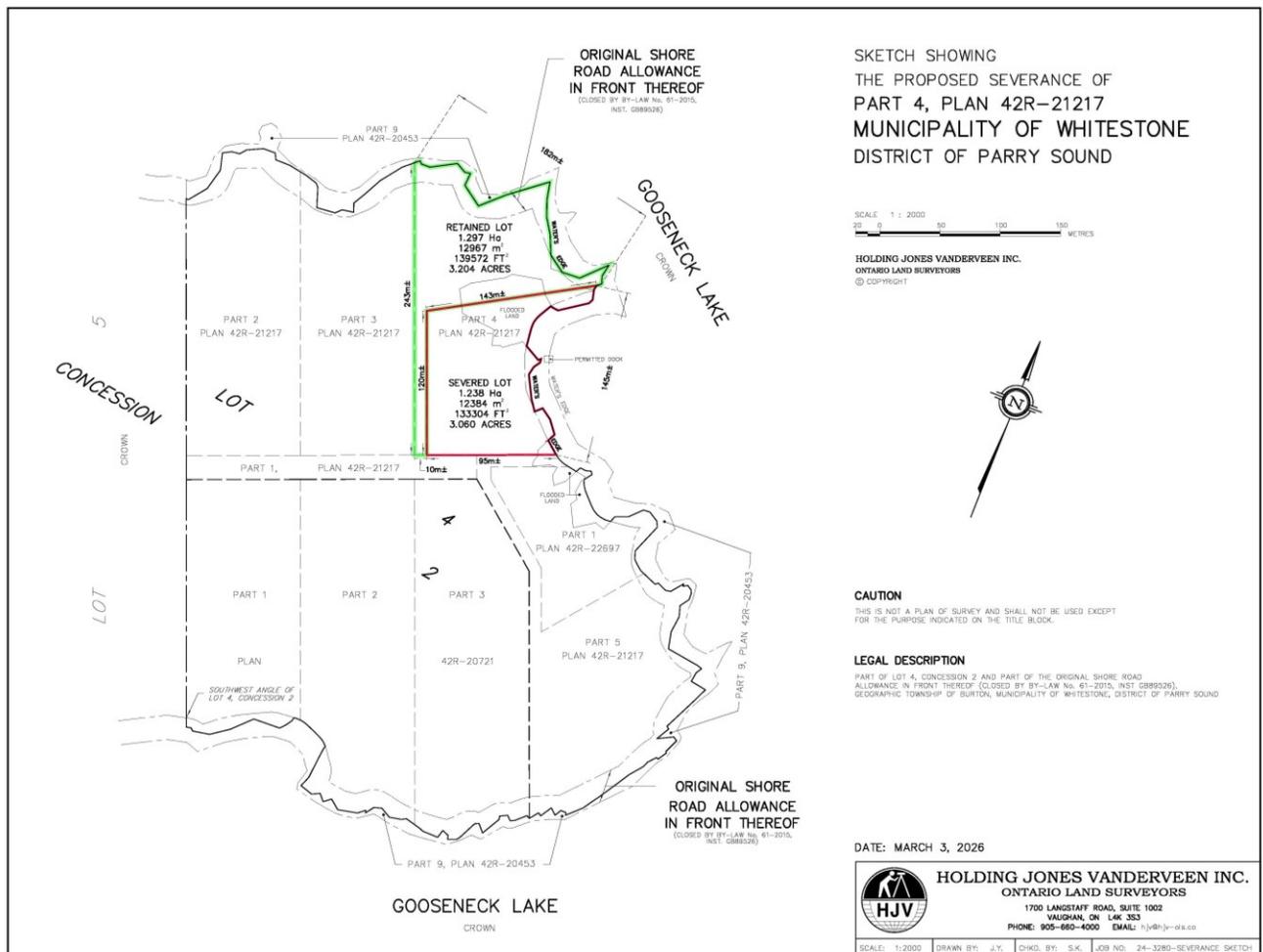
The third consent was approved with access from the public boat launch.

This public access point is proposed to be used for the new lot subject to this application.

The applicant has had planning reports done in support of these consents. These documents are not attached to this report but are available upon request.

PROPOSED CONSENT

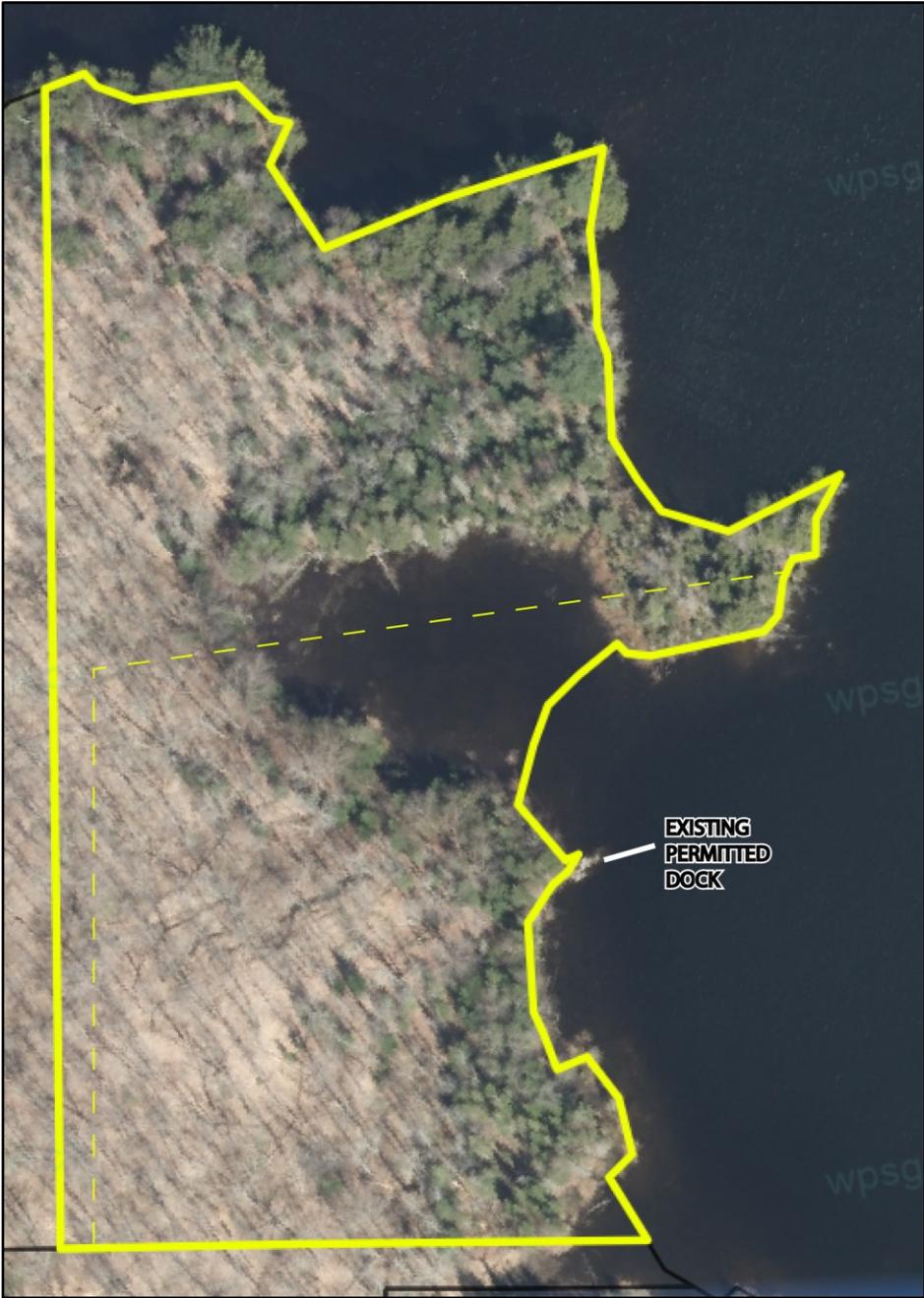
The proposed consent is to create one (1) new water access lot as shown on the sketch below.



	Frontage (m)	Depth(m)	Area(ha)
Retain	182	±120	1.3
Sever 1	145	±96	1.2

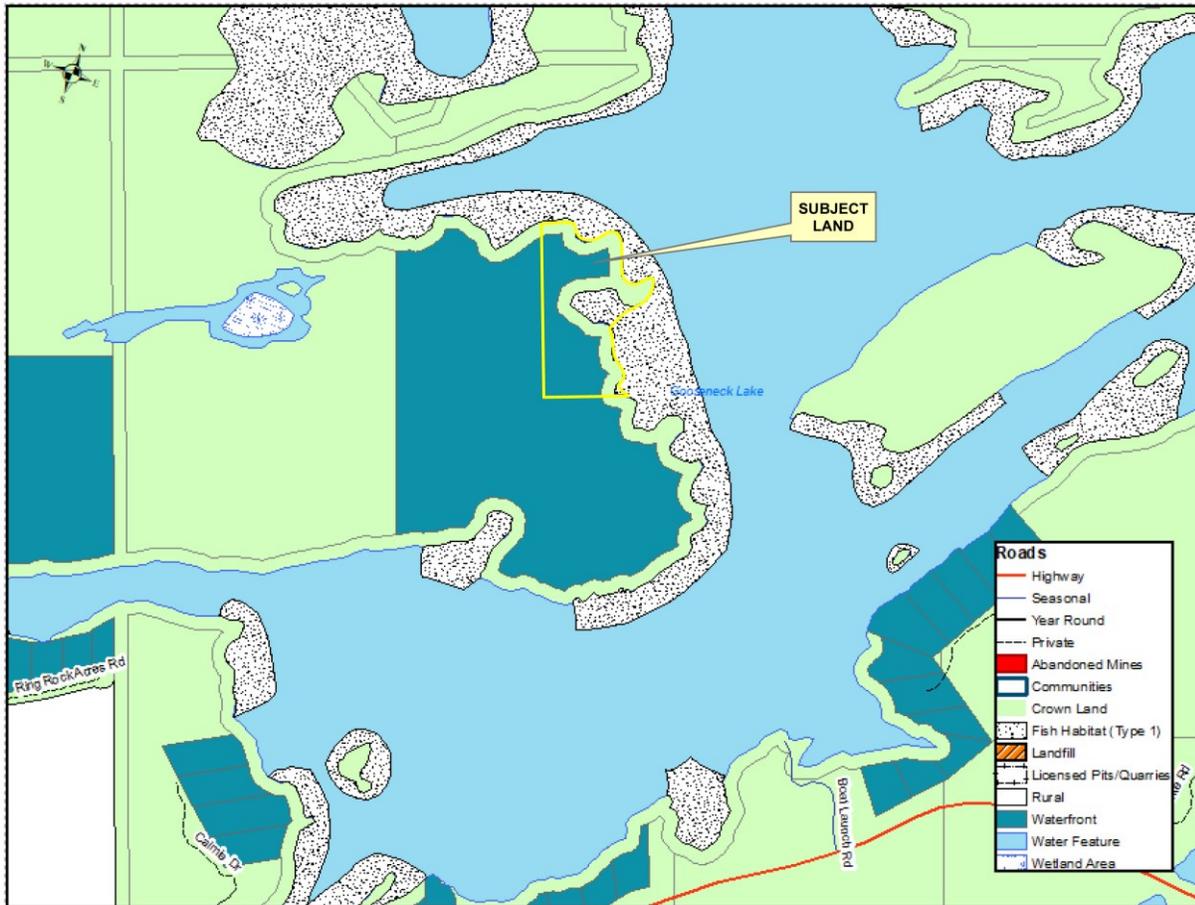
EXISTING LOT CONDITIONS

The subject lands (Part 4, plan 42R-21217) is a vacant water access lot on Gooseneck Lake. The lot is well forested. There is a low area in the centre of the shoreline that is identified as “flooded land” on the survey plan. There is an existing (permitted) dock on the proposed severed lot.



OFFICIAL PLAN

The subject lands are designated Waterfront in the Municipality's Official Plan.



The owner has had Species at Risk and Fish Habitat assessments undertaken in support of the previous consents. The scope of these studies included the subject lands. These studies are not attached to this report, but are available upon request.

A key statement from the Beacon Environmental – Scoped Environmental Assessment June 2016 states:

“The act of severing the lots would not give rise to any impacts. Mitigation associated with potential future development includes the avoidance of the species and microhabitat features and by timing any future construction activities outside of the active period for particular species as described in Appendix A.”

The report sets out methods and timing for development to avoid impacts on any endangered or threatened species that may be present on the lands.

The Beacon Environmental Assessment Report – June 2016 also recommended septic system design and phosphorus mitigation measures for any future development.

The same septic system design criteria used in previous consents will be applied as a condition of approval.

PROVINCIAL PLANNING STATEMENT (P.P.S) 2024

The subject lands are considered Rural in the P.P.S. and are subject to following policies:

2.5 Rural Areas in Municipalities

1. Healthy, integrated and viable rural areas should be supported by:
 - a) building upon rural character, and leveraging rural amenities and assets;
 - b) promoting regeneration, including the redevelopment of brownfield sites;
 - c) accommodating an appropriate range and mix of housing in rural settlement areas;
 - d) using rural infrastructure and public service facilities efficiently;
 - e) promoting diversification of the economic base and employment opportunities through goods and services, including value-added products and the sustainable management or use of resources;
 - f) providing opportunities for sustainable and diversified tourism, including leveraging historical, cultural, and natural assets;
 - g) conserving biodiversity and considering the ecological benefits provided by nature; and
 - h) providing opportunities for economic activities in prime agricultural areas, in accordance with policy 4.3.
2. In rural areas, rural settlement areas shall be the focus of growth and development and their vitality and regeneration shall be promoted.
3. When directing development in rural settlement areas in accordance with policy 2.3, planning authorities shall give consideration to locally appropriate rural characteristics, the scale of development and the provision of appropriate service levels.

Growth and development may be directed to rural lands in accordance with policy 2.6, including where a municipality does not have a settlement area.

2.6 Rural Lands in Municipalities

1. On rural lands located in municipalities, permitted uses are:
 - a) the management or use of resources;
 - b) resource-based recreational uses (including recreational dwellings not intended as permanent residences);
 - c) residential development, including lot creation, where site conditions are suitable for the provision of appropriate sewage and water services;
 - d) agricultural uses, agriculture-related uses, on-farm diversified uses and normal farm practices, in accordance with provincial standards;
 - e) home occupations and home industries;
 - f) cemeteries; and
 - g) other rural land uses.
2. Development that can be sustained by rural service levels should be promoted.
3. Development shall be appropriate to the infrastructure, which is planned or available, and avoid the need for the uneconomical expansion of this infrastructure.
4. Planning authorities should support a diversified rural economy by protecting agricultural and other resource-related uses and directing non-related development to areas where it will minimize constraints on these uses.
5. New land uses, including the creation of lots, and new or expanding livestock facilities, shall comply with the minimum distance separation formulae.

There are no inconsistencies with these policies.

ZONING BY-LAW

The subject lands are zoned Waterfront Residential 1 – Limited Services (WF1-LS)

The shoreline is entirely zoned Environmentally Protected (EP) in the zoning by-law mapping. However, on-site fish habitat assessment found numerous pockets of shoreline free of Type 1 fish habitat.

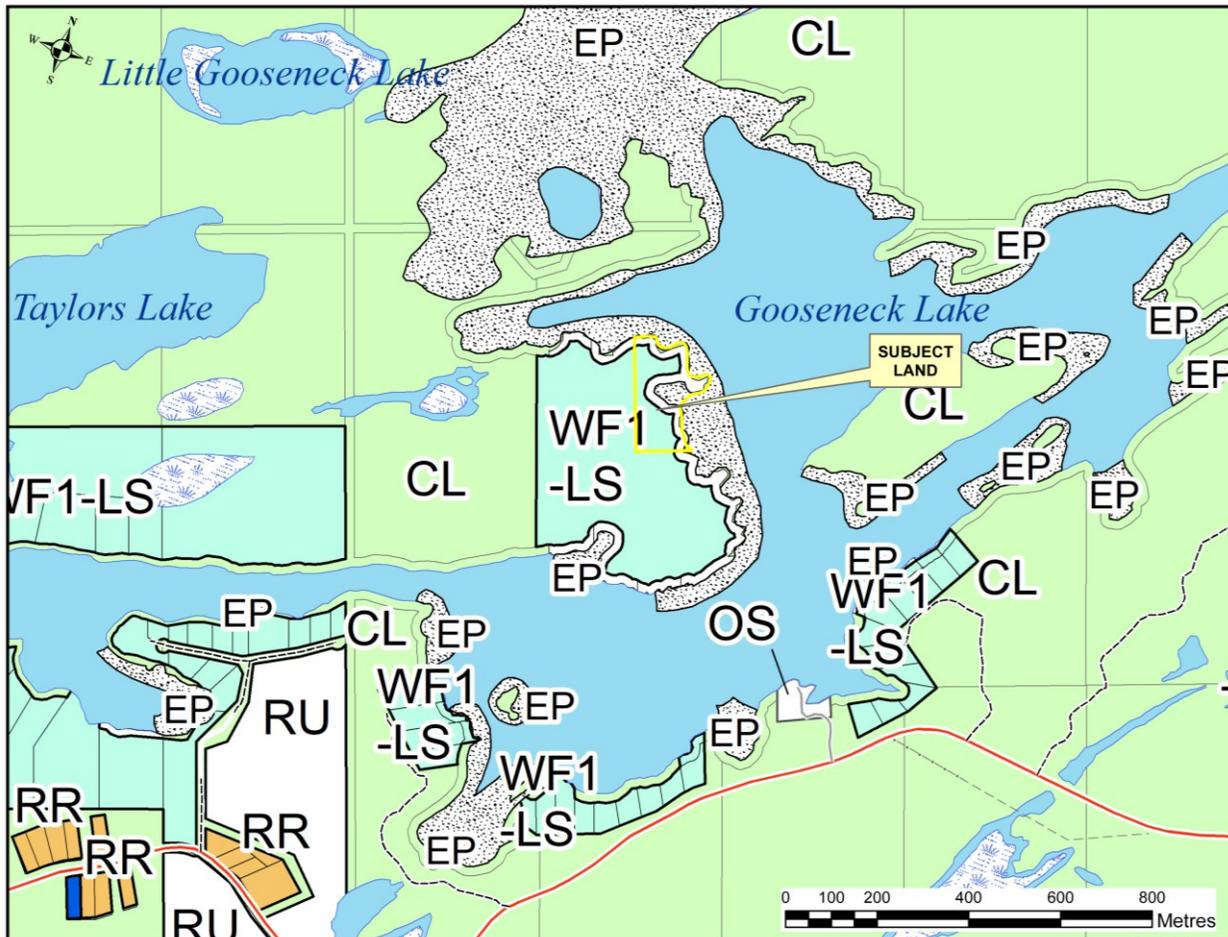
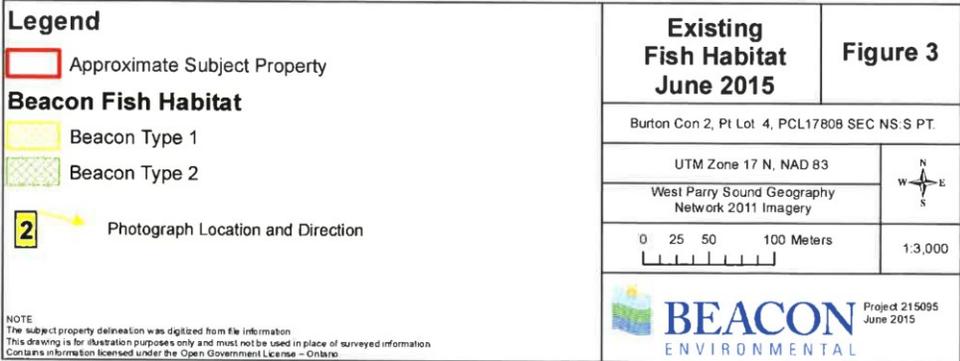


Figure 3 from the Beacon Environmental Fish Habitat Assessment (below) has had the proposed severance lines added.

The retained lot has much of its northern shoreline free of Type 1 habitat. The proposed severed lot has had its northerly lot line placed to include the required 15 metres of clear shoreline at the point to meet the zoning by-law requirement. There is also an existing, permitted dock that was placed in the middle of the proposed severed shoreline after the aerial photograph was taken.



RECOMMENDATION

That the proposed consent to allow the creation of one (1) new water access lot on Gooseneck Lake in Part of Lot 4, Concession 2, Geographic Township of Hagerman as applied for by Scott Nash in Application No. B05/2026(W) be approved subject to the following conditions:

1. Payment of a Parkland dedication fee in accordance with the Municipality's fee By-Law;
2. Entering into a 51(26) Consent Agreement with the Municipality of Whitestone to be registered on title by the applicants to implement the septic design criteria set out in the Official Plan;
3. That the newly created lot receive 911 addressing from the Municipality of Whitestone upon request of the applicant;

Respectfully,



Patrick Christie, C.P.T.
Secretary-Treasurer
Parry Sound Area Planning Board

Subject: RE: Gooseneck Lake Boat Launch Use --
From: Timson, Dean (MNRF) (dean.timson@ontario.ca)
To: [REDACTED]
Date: Tuesday, May 10, 2016 1:06 PM

Correct!!

Dean

From: SCOTT NASH [mailto:[REDACTED]]
Sent: May-10-16 1:05 PM
To: Timson, Dean (MNRF)
Subject: Re: Gooseneck Lake Boat Launch Use --

Dean,

No issues we understand that you are busy and thank you for the email of today.

Based on the email response we understand that Ministry of Natural Resources & Forestry has no issues or objections with the use of the Boat Launch and associated land "Access Point at Gooseneck Lake (Municipality of Whitestone)" as an access point for future additional lots that may be created within "South Part Con 2 Lot 4, 42R-20453 Parts 1 thru 8" as the Ministry of Natural Resources & Forestry has no intentions of restricting it's use or closing the site in the future

Can you please confirm that we understand correct.

Regards

Scott Nash

From: "Timson, Dean (MNRF)" <dean.timson@ontario.ca>
To: SCOTT NASH <[REDACTED]>
Sent: Tuesday, May 10, 2016 11:26 AM
Subject: RE: Gooseneck Lake Boat Launch Use --

Hello Scott;

Sorry for the delay.

Please be advised that the Ministry of Natural Resources & Forestry acknowledges that the access point at Gooseneck Lake (Municipality of Whitestone) is on Crown land and although we do not maintain the site we have no intentions of restricting its use or closing the site in the future.

Dean

*Dean Timson
Lands&Waters Technical Specialist
Parry Sound District/MNR&F
(705)773-4206*

From: SCOTT NASH [[mailto:\[REDACTED\]](mailto:[REDACTED])]
Sent: April-25-16 4:03 PM
To: Timson, Dean (MNRF)
Subject: Gooseneck Lake Boat Launch Use --

Dean,

Thank you for talking the time to call me today and discuss the Public Boat Launch located on Gooseneck Lake, located just off HWY 520 within the Municipality of Whitestone. Attached for reference is a GIS Map showing the location of the Property that we own along with the location of the Public Boat Launch.

As per our conversation we own a Property on Gooseneck Lake (South Part Con 2 Lot 4, 42R-20453 Parts 1 thru 8) consisting of +_ 45 Acres and are considering applying to the Parry Sound Planning Board / Municipality of Whitestone to creating several new lots. The new lots would be +_ 5-7 Acres with 90+ meters of Shore line each. Prior to submitting the application we wanted to follow up with the MNR regarding access to the additional lots from the current Boat Launch off HWY 520 and confirm that the MNR would not have any issues with access to the Lots from the Boat Launch.

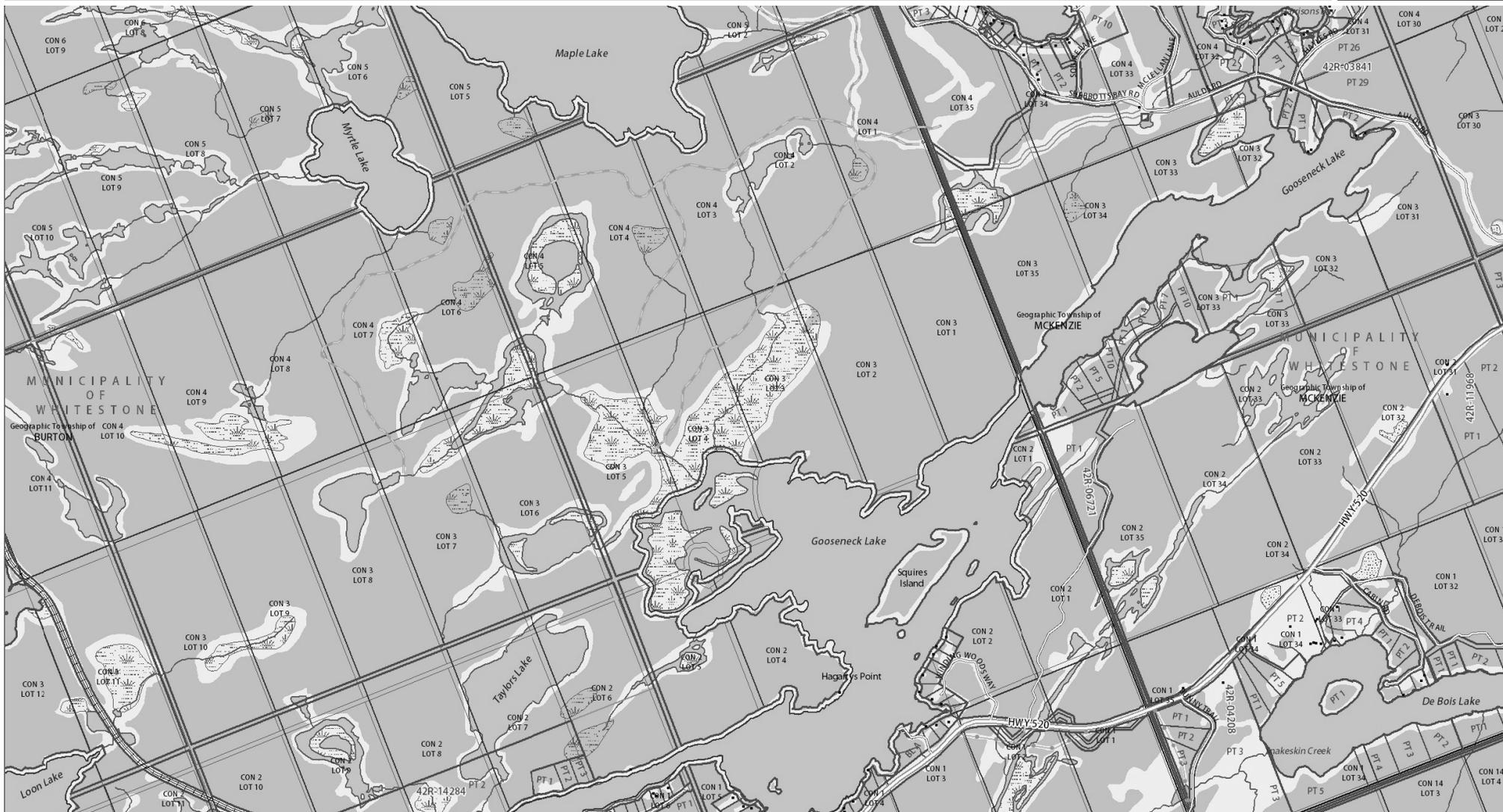
In doing some research we understand that the Boat Launch is located on MNR Property and the Municipality of Whitestone completes some general maintenance to the Boat Launch / Boat Launch Road on a yearly basis. This maintenance may consist of applying a load or 2 of gravel and some minor grading of the road etc. on a yearly basis, as over the years the MNR has divested interests in Boat Launch in many areas and the maintenance has fallen back to the Municipalities or Public.

Based on our conversation we understand that the Boat Launch is open for Public access to all of Gooseneck Lake, and is open for public access to several properties on Gooseneck Lake which are water access properties, and understand that the MNR does not intend on closing the Boat Launch in the future.

Can you please confirm to us that the MNR would not have any issues or objection with the Public Boat Launch on Gooseneck Lake being used to access several additional water access lots that would be created on (South Part Con 2 Lot 4, 42R-20453 Parts 1 thru 8) within the Municipality of Whitestone.

Should you have any Issues please feel free to contact me at [REDACTED] and we look forward to your confirmation.

Regards
Scott Nash



0.5 0 0.26 0.5 Miles

NAD_1983_UTM_Zone_17N

These maps may not be reproduced in whole or in part without the expressed permission of L. U. Maughan Company Limited.

EXPLANATORY NOTES: These maps should not be used for navigational purposes. Certain features may not be indicated as a result of changes, since 1984 Air Photography. Map is based on the 1:10,000 Ontario Base Map.

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1: 16,179





Use shaded areas for corrections.

Name of Applicant/Permittee (insert Corporate Name if Applicant is "Limited" or "Incorporated") Corporation of the Municipality of Whitestone		Area Code 705	Telephone No. 389-2466
As Trustee for			
Postal Address of Applicant/Permittee 21 Church Street			
City, Town or Village Dunchurch	Prov./State Ontario	Country	Postal Code P0A 1G0

Location of Land			
Lot 4	Concession/Block No. 2	Geographic Township BURTON	Municipality WHITESTONE M
U.T.M. Grid Zone E. N.		Geographic Location GooseNeck Lake	Area in ha. 0.50

As per sketch and description which is attached to the original permit for this site and forms part of this permit. A copy of this sketch and description is on file at the District Office and available for inspection by the applicant at any time during normal business hours.

Land Required for the Purpose of PARKING LOT	Sales Tax I.D. Number R124668666
---	-------------------------------------

Fee(s) and Period of Land Use			
Amount Due \$237.30	Annual Fee (subject to adjustment) \$90.00 + \$11.70 (HST)	Permit Effective Date Feb 1, 2017	Permit Termination Date Jan 31, 2027

Note: Terms and Conditions applicable to all Land Use Permits are on the reverse side of this form.

Terms and Conditions applicable to this permit	Purpose Parking Lot
	Sub-Purpose Other

Applicant's certification

I certify that the information given herein is true and complete, and that I have read, fully understand, and agree to comply with all of the terms and conditions set out in this permit and that I am of the age of majority.
I agree that this is the complete agreement between the parties hereto.

Signature of Applicant (Incl. Corporation Official) <i>Jammylylie</i>	Date Signed Jan. 16/17
--	---------------------------

Corporation Use Only

I have authority to bind the herein-named Corporation

Initials and Surname of Corporation Official (Please Print) T J WYLLIE	Signature of Corporation Official <i>Jammylylie</i>	Position CAO-Clerk-Treasurer
---	--	---------------------------------

Ministry Approval

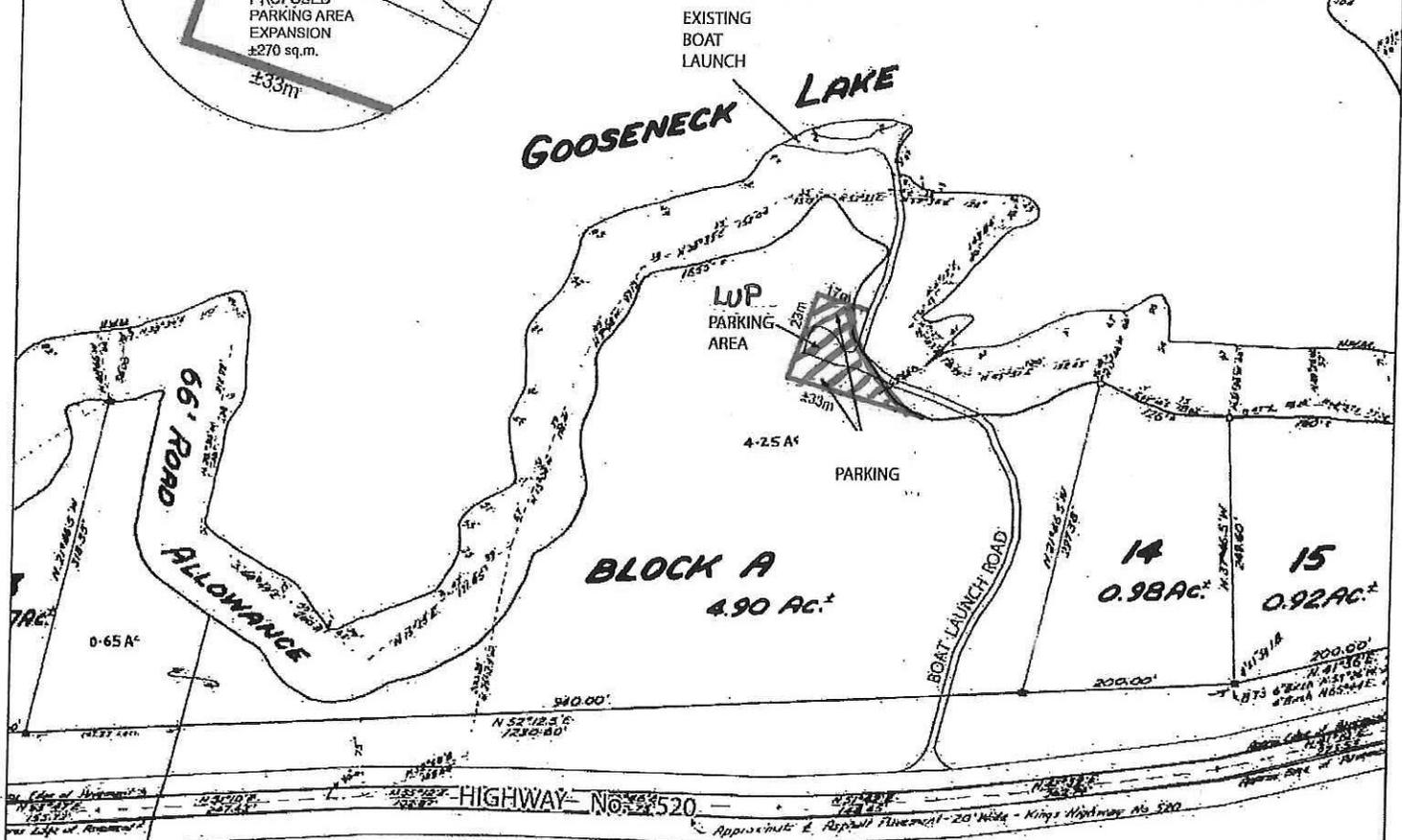
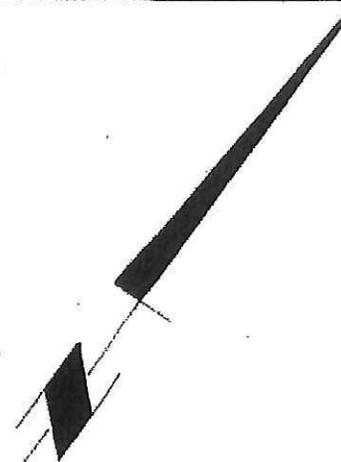
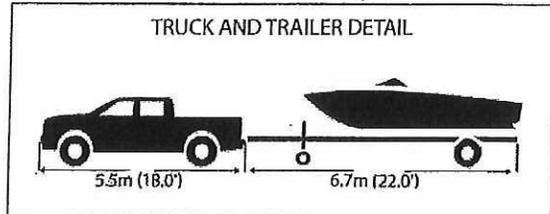
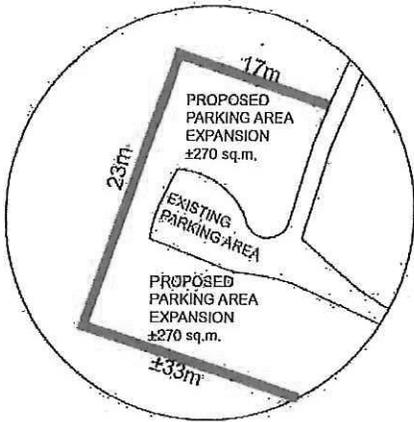
Under authority of the Regulations under the Public Lands Act, this Land Use Permit is hereby issued to the above applicant, subject to all terms conditions contained herein and no other, and these shall be the exclusive terms and conditions applicable to the use of this land.

Signature of MNRF Official <i>J Bonds</i>	Date Signed Jan 31/17	Cash Register Validation or Receipt No. 015A 025939	Amount Paid \$237.30
--	--------------------------	--	-------------------------

Personal information on this form is collected under authority of the Public Lands Act and will be used for the administration of that Act. Questions on this information should be directed to the local MNRF Office, whose address and telephone number appear in the Ontario Government Telephone Directory.

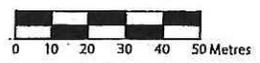
GOOSENECK LAKE BOAT LAUNCH PARKING AREA

NOT TO SCALE



LOT 4
LOT 3

LOT 3
CON. I



Scott Nash

From: SCOTT NASH [REDACTED]
Sent: Thursday, February 23, 2017 12:22 PM
To: Scott Nash
Subject: Fw: LUP1654-1004886, MNFR File Number: LUP Burton-011
Attachments: 20170223095516865.pdf

Sent from Yahoo Mail on Android

On Thu, Feb 23, 2017 at 9:58 AM, Oshier, Andrew (MNRF)
<andrew.oshier@ontario.ca> wrote:

Hi Scott,

Attached is the sketch on file for the Land Use Permit...

I hope this helps.

If you have any questions or concerns, please don't hesitate to contact me.

Thanks,

Andrew

Andrew Oshier
Resource Management Technician
Parry Sound MNRF District
(705)773-4208
andrew.oshier@ontario.ca

From: SCOTT NASH [REDACTED]
Sent: February-23-17 9:13 AM
To: Oshier, Andrew (MNRF)
Cc: Timson, Dean (MNRF)
Subject: LUP1654-1004886, MNFR File Number: LUP Burton-011

Andrew,

In Cliffs extended absence, thank you for speaking with me this AM. As I know how busy Dean can be, I did not want to bother him with this simple request.

We recently received the fully signed copy of the Land Use Permit for the Boat Launch Parking Area at Gooseneck Lake (LUP 1654-1004886 File No: LUP-Burton-011), which was forwarded from the Municipality after they had received back from MNR Office.

Can you please forward (via email) a copy of the Sketch that accompanies the Land Use Permit (LUP) so that we have for our files which I will then include with the LUP.

Dean, By copy just wanted to let you know that the vegetation removal is completed and the Gravel Installation for the Parking Expansion is well underway, and to date the Municipality has not heard from any residence regarding the works.

Thanks in Advance

Should you need to speak with me for any reason regarding my request I can be reached at 

Scott Nash

On Tue, Jan 17, 2017 at 8:02 AM, Timson, Dean (MNR) wrote:

<dean.timson@ontario.ca> wrote:

Hi Scott;

As a rule we issue LUP's starting at the beginning of a month. Since I consider that administrative in nature and the permit will be issued I have no issue with the clearing of brush etc. prior to Feb 1st. This e-mail can act as your authority to begin development of the site!

Dean

Dean Timson

Lands&Waters Technical Specialist

Parry Sound District/MNR&F

(705)773-4206

From: SCOTT NASH [REDACTED]
Sent: January-16-17 4:11 PM
To: Timson, Dean (MNRFF); Vankoughnett, Cliff (MNRFF)
Subject: RE: LUP-Burton-011 LUP1654-1004886

Dean

Tammy from the Municipality of Whitestone has sent me a copy of the signed Permit. (Attached). She has also advised me that the payment form and also the originals are being sent out in the mail to MNRFF today.

I see that the Permit Effective date reads Feb, 1 2017. Based on your email of last Friday we believe that you gave permission for work to start before this date.

Can you please confirm this is the case as if weather allows we would like to start this coming Friday on some of the vegetation removal as conditions appear favorable for this work.

Any questions please give me a call at [REDACTED]

Thanks

Scott

Sent from Yahoo Mail on Android

On Mon, Jan 16, 2017 at 12:12 PM, SCOTT NASH

<[REDACTED]> wrote:

Dean

Thank you for the email on late Friday.

I spoke with Tammy from Whitestone Friday afternoon after receiving your email and she has advised that she will look for the Permit in the mail and will get a payment and a copy signed and back to you.

In the mean time that you for advising that you have no issues with work starting at the Boat Launch area.

Regards

Scott Nash

Sent from Yahoo Mail on Android

On Fri, Jan 13, 2017 at 2:08 PM, Timson, Dean (MNRF)

[<dean.timson@ontario.ca>](mailto:dean.timson@ontario.ca) wrote:

Hello Scott,

Holidays are always good! The Land Use Permit has gone to the Township. It will need to be signed paid for and returned at which time it will be formally issued! If you contact Tammy at Whitestone she could advise if they have received the permit and ask when I can expect it to be returned for issuance. In the meantime I have no issues with you starting the work.

Dean

From: SCOTT NASH [REDACTED]
Sent: January-13-17 1:41 PM
To: Vankoughnett, Cliff (MNRF)
Cc: Timson, Dean (MNRF)
Subject: Re: LUP-Burton-001

Cliff and Dean

I hope that you and your families had a great Holiday Break.

Cliff I was just following up to your email from just before the Holidays and our conversation of last week.

Could you please provide me with an update as to when you anticipate the Permit will be issued. I know you had said it was just awaiting signatures and to be input. I am asking for the update as we have spoken with the Town and would like to have the work completed if possible for the vegetation over the next few weeks and would like to be able to tentatively schedule.

Thanks for all your help thus far. It is appreciated. Any questions please give me a call at [REDACTED]

Regards

Scott Nash
[REDACTED]

From: "Vankoughnett, Cliff (MNR)" <Cliff.Vankoughnett@ontario.ca>

To: [REDACTED]

Sent: Friday, December 23, 2016 1:15 PM

Subject: LUP-Burton-001

Hi Scott,

Unfortunately I am not going to be able to issue the permit at this time. I will not be able to secure the signatures required to provide authorization, Dean will not be in until the new year and this does need to go through him first. In the meantime I will continue to do the legwork required to have the permit ready to go so that it can be reviewed and issued as soon as possible. Sorry for the inconvenience.

Happy Holidays.

Clifford VanKoughnett

Resource Management Technician

Parry Sound District

Ministry of Natural Resources & Forestry

7 Bay Street, Parry Sound ON

P2A 1S4

Tel: 705-773-4222

Fax: 705-746-8828

Email: cliff.vankoughnett@ontario.ca

CONSENT AGENDA



DRAFT Regular Council Budget Meeting Minutes
Monday, February 9, 10:00 a.m.
Zoom Video Conferencing only

Present: Mayor George Comrie
Councillor Janice Bray
Councillor Joe Lamb
Councillor Scott Nash
Councillor Brian Woods

Staff: Nigel Black, CAO/Clerk
Mike Huggins, Manager of Public Works
Paula Macri, Planning Assistant
Wendy Schroeder, Deputy Clerk
Jessica Sinkowski, Treasurer / Tax Collector
Bob Whitman, Fire Chief

Invited Guests: None

Other Guests: 1 by videoconference

1. Roll Call and Call to Order 10:00 a.m.

2. Disclosure of Pecuniary Interest

Mayor Comrie requested that any pecuniary interest be declared for the record.

None was declared

3. Approval of the Agenda

Resolution No. 2026-039

Moved by: Councillor Nash

Seconded by: Councillor Lamb

WHEREAS the Members of Council have been presented with an Agenda for the February 9, 2026 Regular Council Budget meeting;

BE IT RESOLVED THAT the Agenda for this meeting be adopted.

Carried

4. Presentations and Delegations – None

Move into Committee of the Whole

Resolution No. 2026-040

Moved by: Councillor Bray

Seconded by: Councillor Woods

THAT the Council of the Municipality of Whitestone move into Committee of the Whole at 10:14 a.m.

Carried

5. Committee of the Whole

- 5.1 2026 Consolidated Operating and Capital Budget
- Report FIN-2026-03, from Treasurer Tax Collector Jessica Sinkowski

Recess 12:15 to 1:00; 2:50 to 3:00

Reconvene into Regular Meeting

Resolution No. 2026-041

Moved by: Councillor Nash

Seconded by: Councillor Woods

THAT the Council of the Municipality of Whitestone reconvene into the Regular Meeting at 4:51 p.m.

Carried

6. **Public Meeting - None**
7. **Consent Agenda - None**
8. **Accounts Payable - None**
9. **Staff Reports - None**
10. **By-laws - None**
11. **Business Matters - None**
12. **Correspondence - None**
13. **Councillor Items**
14. **Questions from the Public – none**
15. **Closed Session - None**
16. **Confirming By-law**

Resolution No. 2026-042

Moved by: Councillor Nash

Seconded by: Councillor Lamb

THAT By-law No. 09-2026 being the Confirmatory By-law for the Regular Council meeting of the Municipality of Whitestone on February 9, 2026 is hereby enacted this 9th day of February, 2026.

Carried

17. Adjournment

Resolution No. 2026-043

Moved by: Councillor Nash

Seconded by: Councillor Bray

WHEREAS the business of this Meeting has concluded;

NOW THEREFORE BE IT RESOLVED THAT this meeting be adjourned at 4:53 p.m. until the continuation of the Regular Council Budget Meeting of Wednesday, February 11, 2026 at 10:00 a.m. or at the call of the Chair.

Carried

George Comrie

Mayor

Nigel Black

CAO / Clerk



DRAFT Special Council Meeting Minutes
Wednesday, February 11, 10:00 a.m.
Zoom Video Conferencing only

Present: Mayor George Comrie
Councillor Janice Bray
Councillor Joe Lamb
Councillor Scott Nash
Councillor Brian Woods

Staff: Nigel Black, CAO/Clerk
Mike Huggins, Manager of Public Works
Paula Macri, Planning Assistant
Wendy Schroeder, Deputy Clerk
Jessica Sinkowski, Treasurer / Tax Collector
Bob Whitman, Fire Chief

Invited Guests: Eva Fincham, CFO, Whitestone Library and Technology Centre
Peggi Woehl, Chair, Whitestone Library and Technology Centre Board

Other Guests: 2 by videoconference

Council observed a moment of silence in acknowledgement of the recent tragedy in Tumbler Ridge, BC, and will send a letter to their Council.

1. Roll Call and Call to Order 10:00 a.m.

2. Disclosure of Pecuniary Interest

Mayor Comrie requested that any pecuniary interest be declared for the record.
None was declared

3. Approval of the Agenda

Clerk's note: as this meeting is a continuation of the February 9, 2026 Regular Council Budget Meeting, Approval of the Agenda was not required.

4. Presentations and Delegations – None

Move into Committee of the Whole

Resolution No. 2026-044

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council of the Municipality of Whitestone move into Committee of the Whole at 10:06 a.m.

Carried

5. Committee of the Whole

- 5.1 2026 Consolidated Operating and Capital Budget
- Report FIN-2026-03, from Treasurer Tax Collector Jessica Sinkowski

Recess 12:15 to 1:00; 3:55 to 4:03

Reconvene into Regular Meeting

Resolution No. 2026-045

Moved by: Councillor Nash

Seconded by: Councillor Woods

THAT the Council of the Municipality of Whitestone reconvene into the Regular Meeting at 4:48 p.m.

Carried

Matters Arising from Committee of the Whole

Resolution No. 2026-046

Moved by: Councillor Lamb

Seconded by: Councillor Bray

- 5.1 2026 Consolidated Operating and Capital Budget
- Report FIN-2026-03, from Treasurer Tax Collector Jessica Sinkowski

THAT the Council of the Municipality of Whitestone hereby receives Report FIN-2026-03, 2026 Consolidated Operating and Capital Budget, for information

Carried

6. Public Meeting - None

7. Consent Agenda - None

8. Accounts Payable - None

9. Staff Reports - None

10. By-laws - None

11. Business Matters - None

12. Correspondence - None

13. Councillor Items

14. Questions from the Public – none

15. Closed Session - None

16. Confirming By-law

Resolution No. 2026-47

Moved by: Councillor Bray

Seconded by: Councillor Woods

THAT By-law No. 10-2026 being the Confirmatory By-law for the Regular Council meeting of the Municipality of Whitestone on February 11, 2026 is hereby enacted this 11th day of February, 2026.

Carried

17. Adjournment

Resolution No. 2026-048

Moved by: Councillor Nash

Seconded by: Councillor Woods

WHEREAS the business of this Meeting has concluded;

NOW THEREFORE BE IT RESOLVED THAT this meeting be adjourned at 4:50 p.m. until the Regular Council Meeting of Tuesday, February 17, 2026 at 10:00 a.m. or at the call of the Chair.

Carried

George Comrie

Mayor

Nigel Black

CAO / Clerk



DRAFT Regular Council Meeting Minutes
Tuesday February 17, 10:00 a.m.
Dunchurch Community Centre and Zoom Video Conferencing

- Present:** Mayor George Comrie
Councillor Janice Bray
Councillor Joe Lamb
Councillor Scott Nash to 3:20 p.m.
Councillor Brian Woods to 10:45 a.m., returned to meeting at 3:10 p.m.
- Staff:** Nigel Black, CAO/Clerk
Paula Macri, Planning Assistant
Jamie Osborne, Chief Building Official
Wendy Schroeder, Deputy Clerk
Jessica Sinkowski, Treasurer / Tax Collector
Bob Whitman, Fire Chief
- Invited Guests:** 6 - Naomi Wachowiak, Teresa Wetselaar, Lead Nurse Practitioner, and Jim Hanna, Director of Transformation and Strategic Partnerships, West Parry Sound Health Centre; Debbie Stivrins, President and Mary Lynne Black, Treasurer, Rotary Club of Parry Sound; Patrick Chrisite, Parry Sound Area Planning Board
- Other Guests:** 2 in person; 4 by Zoom

1. Roll Call and Call to Order 10:03 a.m.

2. Disclosure of Pecuniary Interest

Mayor Comrie requested that any pecuniary interest be declared, for the record.

Councillor Nash declared a pecuniary interest with item 15.3, Personal matters about an identifiable individual, including municipal or local board employees, pursuant to *Ontario Municipal Act*, Section 239(2)(b), and left the meeting before the item was addressed.

3. Approval of the Agenda

Resolution No. 2026-049

Moved by: Councillor Lamb

Seconded by: Councillor Bray

WHEREAS the Members of Council have been presented with an agenda for the February 17, 2026 Regular Council meeting;

BE IT RESOLVED THAT the Agenda for this meeting be adopted as presented.

Carried

4. Presentations and Delegations

4.1 Nurse Practitioner-Led Clinic – Whitestone site

- Naomi Wachowiak, Teresa Wetselaar, Lead Nurse Practitioner, and Jim Hanna, Director of Transformation and Strategic Partnerships

4.2 Rotary Club of Parry Sound

- Debbie Stivrins, President and Mary Lynne Black, Treasurer

Matters Arising from Presentations and Delegations

Resolution No. 2026-050

Moved by: Councillor Bray

Seconded by: Councillor Lamb

- 4.1 **THAT** the Council of the Municipality of Whitestone receives the presentation from Naomi Wachowiak, Teresa Wetselaar, Lead Nurse Practitioner, and Jim Hanna, Director of Transformation and Strategic Partnerships, regarding the Nurse Practitioner-Led Clinic, Whitestone site, for information, with thanks.

Carried

Councillor Woods left the meeting at 10:45 a.m.

Resolution No. 2026-051

Moved by: Councillor Nash

Seconded by: Councillor Bray

- 4.2 **THAT** the Council of the Municipality of Whitestone receives the presentation from Debbie Stivrins, President and Mary Lynne Black, Treasurer, regarding the Rotary Club of Parry Sound, for information, with thanks.

Carried

Move into Committee of the Whole

Resolution No. 2026-052

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council of the Municipality of Whitestone moves into Committee of the Whole at 11:12 a.m.

Carried

5 Committee of the Whole

5.1 Consent Application B01/2026(W) – SKEBA

Report from Parry Sound Area Planning Board dated January 26, 2026.

Reconvene into Regular Meeting

Resolution No. 2026-053

Moved by: Councillor Bray

Seconded by: Councillor Lamb

THAT the Council of the Municipality of Whitestone reconvenes into the Regular Meeting at 11:39 a.m.

Carried

Matters Arising from Committee of the Whole

5.1 Consent Application No. B01/2026(W) – SKEBA, Ilona and Christopher

Resolution No. 2026-054

Moved by: Councillor Lamb

Seconded by: Councillor Nash

WHEREAS Patrick Christie, C.P.T., has prepared a report for the Parry Sound Area Planning Board regarding Consent Application No. B01/2026(W) – SKEBA, Ilona and Christopher, and has provided a copy to the Municipality of Whitestone.

BE IT RESOLVED THAT the Council of the Municipality of Whitestone receives this report as information; and

THAT the Council of the Municipality of Whitestone recommends this Consent Application for approval in principle, subject to the following conditions:

1. THAT payment of a parkland dedication fee be made in accordance with the current Municipal Fees and Charges By-law;
2. THAT the three (3) new lots receive 911 addressing from the Municipality;
3. THAT the newly created lots be rezoned from the Waterfront Residential 1 – Limited Services (WF1-LS) to the Rural-Limited Services (RU-LS) Zone;
4. THAT the applicants enter into a Section 51.26 Consent Agreement with the Municipality of Whitestone to be registered on title, to include:
 - (i) the implementation of the septic system design measures from the Septic Suitability Assessment as set out in the Hutchison Environmental Sciences Report dated August 31, 2022 to ensure the retention of phosphorous; and
 - (ii) recognition of the private access road for the new lots and to indemnify the Municipality for any responsibility or liability for the access or maintenance;
5. THAT payment of all Municipal planning consultant fees and all other fees associated with the processing of this application be paid.

Recorded vote as per Procedural By-law 80-2023 s.3.20

		YEAS	NAYS	ABSTAIN
<u>3</u>	Councillor Bray	X		
<u>1</u>	Councillor Lamb	X		
<u>2</u>	Councillor Nash	X		
	Councillor Woods	Not present		
<u>4</u>	Mayor Comrie		X	

Carried

6 Public Meeting – None

7 Consent Agenda

Resolution No. 2026-055

Moved by: Councillor Lamb

Seconded by: Councillor Bray

WHEREAS the Council of the Municipality of Whitestone has reviewed the Consent Agenda consisting of:

- 7.1 Council Meeting Minutes
 - Special Council Budget Meeting Minutes – January 14, 2026
 - 7.1.2 Regular Council Meeting Minutes – January 21, 2026
 - 7.1.3 Special Council Meeting (Official Plan Review) Minutes – January 29, 2026
- 7.2 Council Committee and Board Minutes
 - 7.2.1 Parry Sound Area Planning Board – December 22, 2025
 - 7.2.2 Parry Sound Area District Social Services Board – December 11, 2025
 - 7.2.3 North Bay District Health Unit – November 25, 2025
- 7.3 Unfinished Business (listed on pages 4 and 5 of the agenda)

NOW THEREFORE BE IT RESOLVED THAT the Council of the Municipality of Whitestone hereby approves the following Council Meeting Minutes:

- 7.1 Council Meeting Minutes
 - 7.1.1 Regular Council Budget Meeting Minutes – January 14, 2026
 - 7.1.2 Regular Council Meeting Minutes – January 21, 2026
 - 7.1.3 Special Council Meeting (Official Plan Review) Minutes – January 29, 2026

AND THAT the Council of the Municipality of Whitestone receives for information:

- 7.2 Council Committee and Board Minutes
 - 7.2.1 Parry Sound Area Planning Board – December 22, 2025
 - 7.2.2 Parry Sound Area District Social Services Board – December 11, 2025
 - 7.2.3 North Bay District Health Unit – November 25, 2025

7.3 Unfinished Business (listed on pages 4 and 5 of the agenda)

Carried

8 Accounts Payable

Resolution No. 2026-056

Moved by: Councillor Bray

Seconded by: Councillor Lamb

THAT the Council of the Municipality of Whitestone receives for information the Accounts Payable listing in the amount of \$235,611.29 for the period ending January 31, 2026.

Carried

Recess 12:15 p.m. to 12:45 p.m.

9 Staff Reports

9.1 Report FIRE-2026-01 - Fire and Rescue Services Q4 2025

Resolution No. 2026-057

Moved by: Councillor Bray

Seconded by: Councillor Lamb

THAT the Council for the Municipality of Whitestone, receives for information Report FIRE-2026-01, Fire and Rescue Services Q4 2025.

Carried

9.2 Report PLN-2026-01 - Planning Services Q4 2025 Statistics

Resolution No. 2026-058

Moved by: Councillor Bray

Seconded by: Councillor Lamb

THAT the Council for the Municipality of Whitestone, receives for information Report PLN-2026-01, Planning Services Q4 2025 Statistics.

Carried

9.3 Report BLDG-2026-01 - Building Services Q4 2025

Resolution No. 2026-059

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council for the Municipality of Whitestone, receives for information Report BLDG-2026-01, Building Services Q4 2025.

Recorded vote requested by Councillor Nash

		YEAS	NAYS	ABSTAIN
<u>2</u>	Councillor Bray	X		
<u>3</u>	Councillor Lamb	X		
<u>1</u>	Councillor Nash		X	
	Councillor Woods	Not present		
<u>4</u>	Mayor Comrie	X		

Carried

10 By-laws - None

11. Business Matters

11.1 Bottle Shed Collection Update

Resolution No. 2026-060

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council for the Municipality of Whitestone receives the update regarding bottle shed collection from Robert Dreyer, Treasurer, Whitestone McKellar Lions Club, with thanks.

Carried

11.2 Proclamation Celebrating the 50th Anniversary of the Whitestone Public Library and Technology Centre

Resolution No. 2026-061

Moved by: Councillor Lamb

Seconded by: Councillor Bray

WHEREAS libraries play an essential role in strengthening communities by fostering literacy, supporting lifelong learning, and providing equitable access to knowledge, culture, and technology; and

WHEREAS the **Whitestone Public Library and Technology Centre** has, since its founding in **1976**, served as a cornerstone of the community, offering resources, programs, and welcoming spaces that enrich the lives of residents of all ages; and

WHEREAS over the past five decades, the Whitestone Public Library and Technology Centre has continually evolved to meet the changing needs of the community, embracing innovation, expanding technological access, and championing digital literacy while remaining committed to its core mission of public service; and

WHEREAS the year **2026** marks the **50th anniversary** of the Whitestone Public Library and Technology Centre, a milestone made possible through the dedication of its staff, volunteers, supporters, and patrons who have contributed to its growth and success; and

WHEREAS this anniversary provides an opportunity to honour the library's history, celebrate its achievements, and recognize its ongoing impact as a hub for learning, creativity, and community connection;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Municipality of Whitestone, hereby recognizes **2026 as the 50th Anniversary Year of the Whitestone Public Library and Technology Centre**, and encourage all residents to join in celebrating this remarkable milestone and the invaluable contributions the library continues to make to our community.

Carried

12. Correspondence

Resolution No. 2026-062

Moved by: Councillor Lamb

Seconded by: Councillor Bray

WHEREAS the Council of the Municipality of Whitestone has reviewed the Correspondence Items as listed on page 6 of the February 17 Council Meeting agenda,

NOW THEREFORE BE IT RESOLVED THAT Council receives the correspondence items for information, with the following extracted for further discussion / action:

- D South River Volunteer Firefighter Certification issues – resolution of support to be brought at March 17 Council meeting

Carried

13. Councillor Items

Councillor Nash:

- Congratulated Megan Oldham on her Olympic successes
- believes the purchase of an ice resurfacer is important based on positive feedback
- supports the suggestion of the donation to the school

Councillor Lamb

- asked when the next meeting for the Official Plan will be scheduled – CAO/Clerk Black indicated he is working with MHBC to set a date
- asked if an RFP would be issued soon with regards to a grant-writing company

14. Questions from the Public – none

15. Closed Session

Move into Closed Session

Resolution No. 2026-063

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT this meeting be adjourned into a Closed Session meeting at 2:50 p.m. for the following matters:

- 15.1 Closed Session Minutes of the Regular Council Meeting December 16, 2025
- 15.2 Personal matters about an identifiable individual, including municipal or local board employees, pursuant to *Ontario Municipal Act*, Section 239(2)(b)
 - Volunteer Appointments to OPP Board
- 15.3 Personal matters about an identifiable individual, including municipal or local board employees, pursuant to *Ontario Municipal Act*, Section 239(2)(b)
 - Council's approval for the payment of fees for legal opinion

Carried

RECORDING PAUSED

Councillor Woods returned to the meeting at 3:10 p.m.

Pecuniary interest declared by Councillor with respect to Item 15.3. Councillor Nash left the meeting at 3:20 p.m., prior to the item being discussed.

Reconvene into Regular Meeting

Resolution No. 2026-064

Moved by: Councillor Bray

Seconded by: Councillor Lamb

THAT this meeting be reconvened to a Regular Meeting at 3:56 p.m.

Carried

RECORDING RESUMED

Matters Arising from Closed Session

- 15.1 Closed Session Minutes of the Regular Closed Session Council meeting of Wednesday January 21, 2026

Resolution No. 2026-065

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council of the Municipality of Whitestone hereby approves the Regular Closed Session Council meeting minutes of Wednesday, January 21, 2026.

Carried

- 15.2 Personal matters about an identifiable individual, including municipal or local board employees, pursuant to *Ontario Municipal Act*, Section 239(2)(b)

Resolution No. 2026-066

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT the Council of the Municipality of Whitestone hereby supports the appointments of Lesley Harries-Jones and Christine Kasulke as citizen representatives to the West Parry Sound OPP Detachment Board.

Carried

15.3 Personal matters about an identifiable individual, including municipal or local board employees, pursuant to *Ontario Municipal Act*, Section 239(2)(b)

This matter was addressed in closed session.

16. Confirming By-law

Resolution No. 2026-067

Moved by: Councillor Lamb

Seconded by: Councillor Bray

THAT By-law No. 11-2026 being the Confirmatory By-law for the Regular Council Meeting of the Municipality of Whitestone on February 17, 2026 is hereby enacted this 17th day of February, 2026.

Carried

17. Adjournment

Resolution No. 2026-068

Moved by: Councillor Lamb

Seconded by: Councillor Woods

WHEREAS the business of this Meeting has concluded;

NOW THEREFORE BE IT RESOLVED THAT this meeting be adjourned at 3:58 p.m. until the Regular Council Budget Meeting of Wednesday March 4, 2026 at 10:00 a.m. or at the call of the chair.

Carried

George Comrie

Mayor

Nigel Black

CAO / Clerk

7.2

Committee and Board Minutes

**WHITESTONE PUBLIC LIBRARY AND TECHNOLOGY CENTRE
LIBRARY BOARD MEETING MINUTES**

DATE AND TIME	January 19, 2026; 6:00 PM
LOCATION	Virtual
ATTENDEES	A. Anklewicz, A. Taylor, J. Davis, M. Johnson, C. Gorrie, C. Lamb, J. Lamb, P. Woehl Staff: E. Fincham
REGRETS	
CALL TO ORDER	P. Woehl called the meeting to order at 6:04 PM.

DECLARATION OF CONFLICT OF INTEREST

None

APPROVAL OF AGENDA

2026-01 Moved: C. Lamb

Carried Seconded: C. J. Lamb

Be it resolved that the Agenda for this meeting be approved as amended.

APPROVAL OF CONSENT AGENDA

2026-02 Moved: M. Johnson

Carried Seconded: C. Gorrie

Be it resolved that the Consent Agenda be approved as amended.

NEW BUSINESS

None

BUSINESS ARISING

Board Recruitment & Presentation by the OLS

P. Woehl thanked C. Lamb for contacting the Ontario Library Service to organize a presentation on February 9, 2026. P. Woehl asked board members to send her their questions to provide to the OLS in advance.

Fundraising and Special Events

C. Lamb brought forward an email campaign from the Burlington Public Library that specified items in the children's room (book sets, STEM programmer, toys, etc.).

The Fundraising and Special Events Committee to meet on Thursday, January 29 at 3:00 PM to discuss donation cards and plan for the Library's 50th.

E. Fincham to present to Council on Wednesday, January 21, 2026. The presentation will highlight the library's changes and service over the last 50 years.

Budget

J. Lamb shared that the operating budget is being presented on February 9 and 11. E. Fincham to present at that meeting.

Announcements and inquiries by a Board member

J. Lamb discussed Whitestone Woods and his request that the organization donate to the library. He recommended sending a letter to the organization. J. Lamb suggested contacting the WWCA for a donation.

UNFINISHED/ONGOING BUSINESS

- Strategic Plan
- HR Committee

QUESTION PERIOD FOR THE GENERAL PUBLIC

None

CLOSED SESSION

None

Next meeting will be held at 6:00 PM on February 9, 2026 at the Whitestone Public Library.

ADJOURNMENT

2026-03

Moved: J. Davis

Carried

Seconded: A. Taylor

Be it resolved that the meeting adjourned at 6:36 PM.

**District of Parry Sound West (Belvedere Heights)
Board of Management Meeting
Wednesday, December 10, 2025, 0900 hr
Zoom**

Directors Present (voting): Joe Beleskey
Paul Borneman, Vice Chair
Don Carmichael, Secretary/Treasurer
Gail Finnsen
Cheryl Ward
Pamela Wing, Chair
Debbie Zulak

Director Regrets:

Staff Attending (non voting): Deborah Randall Wood, Administrator
Linda Taylor, Manager CSS
John Vanderhorst, Environmental Services Manager
William Brooks, CFO Cassellholme, consultant

1.0 Call to Order: The Board Chair called the meeting to order at 0900

2.0 Confirmation of Quorum: A quorum was achieved.

3.0 Conflict of Interest: No conflicts were declared.

4.0 Land Acknowledgement

We will begin this Board Meeting by acknowledging that we are meeting on the aboriginal lands of the Ojibiwa/Chippewa peoples. We recognize and deeply appreciate their historic connection to this place. We also recognize the contributions of Métis, Inuit, and other Indigenous peoples have made to the stewardship of these lands.

5.0 Approval of Agenda:

BH#-86/25

Moved by G. Finnsen seconded by D. Zulak that be it resolved that the Board of Management accepts the agenda.

Carried.

6.0 Approval of Minutes:

BH#-87/25

Moved by C. Ward, seconded by P. Borneman that be it resolved that the minutes of the Board of Management meetings held November 26, 2025, be approved.

Carried.

7.0 Matters Arising

11

8.0 Financial Reports:

#BH-88/25

Moved by C. Ward, seconded by G. Finnison that the 2026 budget be received.
Carried.

8.1 Finance Update – W. Brooks

- **Key Changes in Provincial Funding for 2026:**
 - **CMI Increase:** Estimated at 1.0918, resulting in a budget impact of approximately \$580,000 (compared to the 2025 budget of 0.96 CMI). This is a significant driver of the budget increase.
 - **Level of Care Increase:** Estimated at 2%, contributing approximately \$123,000.
 - **Staffing Increase Funding:** Estimated at 2%, contributing approximately \$37,500.
- **Total Non-Levy Revenue:** Budgeted at \$12.7 million for 2026, a 6% increase from the 2025 budget of \$11.976 million. The bulk of this increase is from NPC and a less conservative budgeting approach for OA funding.
- **Salaries & Benefits (NPC & PSS combined):** Up approximately \$470,000 (6%). Key drivers:
 - Two new PSW shifts (approximately \$243,000/year).
 - Addition of an assistant administrator position to train to become new administrator in 2026 (approximately \$137,000/year).
 - Addition of a Director of Organizational Development position (approximately \$137,000/year).
 - Removal of some RN project hours.
- **Dietary and Raw Food:**
 - **Dietary:** Up 2% (inflationary). Budgeted dietary aid hours were reduced to reflect actual staffing levels (the 2025 budget was higher than actual staffing).
 - **Raw Food:** Decrease due to correction of a formula error in the 2025 budget (previously budgeted to add a dollar instead of a percentage).
 - *Clarification:* Deborah R.W. clarified that an increase in equipment and purchase services in Dietary was due to contracting Aramark for management-level assistance following previous dietary manager issues.
- **Environmental Services (Housekeeping, Laundry, Maintenance):** Salaries and benefits up 7% due to provision for additional maintenance hours for succession planning (bringing in replacements early due to an aging workforce and the complexity of older buildings).
- **Facility:** Fairly inflationary (4%), with an outsized increase for insurance (12%), including new cyber insurance.
- **Administration:** Down 15%. A large administrative contract ended, resulting in expense savings. This is offset by the new Administrator salary and increased IT services costs.
- **Expenditure Summary:** Total expenditures are up about 6% (\$12.7M), matching revenue increases. The bulk is in NPC. Decreases in nutritional support are due to budget estimate changes. Minor capital includes \$130,000 for equipment/repairs.

- **Budgeted Hours of Care:**
 - Ministry Target (Jan 1, 2026): 4.0 hours for direct care + 0.6 hours for allied health = 4.6 total.
 - Provincial Average (23-24): 4.4 hours total.
 - Belvedere Budgeted: 3.7 hours direct care + 1.4 hours allied health = 5.1 total.
 - Belvedere's allied health hours are higher than average, partly because fixed costs (e.g., DOC, managers) are spread across 101 residents compared to larger homes.
- **Union Worked Hours:** Approximately 200,000 hours budgeted for CUPE and ONA, equating to about 102 full-time equivalent (FTE) staff. Changes include dietary staffing adjustments, added PSWs, removed RN hours, and additional maintenance hours.
- **Non-Union Hours:** Primarily administrative staff. Changes include adding the ADOC position, the educator position (Director of Organizational Development), and the Administrator position, offset by a small decrease in secretary hours. Total addition of 2.8 FTEs. About 13 admin FTEs budgeted for 2026.
- **Levy:** The operating levy is set at \$1 million, unchanged from the prior year. A small operating reserve levy of \$9,200 is also included.

BOARD DISCUSSION

- **Pam Wing:** Highlighted that the budget increase relates to additional staffing that the board needs to agree to. Emphasized that the budget is balanced and the organization has funds to cover these increases. Stressed the need for efficiencies, which benchmarking would help identify. Clarified that while the goal is to shift the levy to capital, it may never be 100% capital-only, and municipalities need to understand this. She affirmed that the intent is *not* to increase the levy.
- **Gal Finsson:** Addressed discomfort with any levy increase, especially for municipalities already paying a significant share. Agreed with focusing on efficiencies and using the levy for capital.
- **Cheryl Ward:** Agreed with Gail, stating her goal was for Belvedere to be self-sustaining within its funding, noting her experience with Lakeland having no levy.
- **Paul Borneman:** Emphasized looking at the full capital picture (e.g., new roof) over 3, 5, 10 years to make informed levy decisions.
- **Don Carmichael:** The unfunded portion of the Roth-lams report (upgrades to the old building) is about \$3 million. The target was to eliminate the operating levy for NPC (approx. \$300,000/year) to fund these capital projects over 10 years without a levy increase. He also mentioned pressures from lack of private rooms affecting revenue and the significant WSIB issues Deborah is addressing, driving investments in a safer workplace. A budget refresh in May/June will assess the impact of these initiatives.
- **Deborah R.W.'s Explanation of Staffing Decisions:**
 - **PSW Increases:** Necessary for resident care needs, especially at night, as many residents are awake and require care.
 - **Director of Organizational Development (DOD):** This high-level educator position is critical to address high critical incidents, neglect of care, abuse, increased workplace injuries, and poor staff retention. The goal is to improve clinical competence, onboarding, and change cultural patterns, particularly with internationally trained staff.

- **Succession Planning:** The DOD role is also intended to be a succession pipeline for the Administrator position to prevent future leadership gaps.
- **Dietary Management (Aramark):** Clarified that Plan A (previous contractor) was a staffing agency that failed to provide effective dietary management. Aramark, with extensive experience, was brought in temporarily (3 months) to stabilize the department due to enormous stress, illness, absenteeism, and an unresolved HR issue with the existing manager.

9.0 Standing Items:

9.1 Building Update – J. Vanderhorst

- **Move:** The move of residents from upstairs to downstairs is confirmed for December 16th, with December 15th as a buffer day.
- **Progress:** The new space is looking "really nice" with railings, floors, paint, new windows, and cabinetry being installed.
- **Occupancy Permit:** The occupancy permit is expected early next week, which will not delay the move.
- **Move:** The move of residents from upstairs to downstairs is confirmed for December 16th, with December 15th as a buffer day.
- **Progress:** The new space is looking "really nice" with railings, floors, paint, new windows, and cabinetry being installed.
- **Occupancy Permit:** The occupancy permit is expected early next week, which will not delay the move.

10.0 New Business:

10.1 none

11.0 Other Reports

- 11.1 Chair Report (none)
- 11.2 Administrators Report (none)

12.0 Correspondence (none)

13.0 Closed Session

14.0 Adjournment

BH#-89/25

Moved by G. Finsson, seconded by C. Ward that there being no further business to conduct, the meeting terminated at 10:34.

Carried.

P. Wing, Chair

Town of Parry Sound EMS Advisory Committee

Open Minutes

Date:

February 26, 2026

Time:

6:00pm

Location:

(on-line) ZOOM Meeting and on-line streaming of the meeting please click on the link below.

<https://www.youtube.com/channel/UC4QrR6HjwibWOJRbLwnjcFQ/videos>

Members Present:

Jamie McGarvey - chairperson, Dan Robertson, Pearl Ivens, Shelly Foote, Scott Sheard

Regrets:

Joel Constable, Ann MacDiarmid

Present:

Dave Thompson, Director of Development and Protective Services

Recording:

Sheri Skinner, Administrative Assistant

Guests:

Matt Thomas, Manager EMS

Land Acknowledgment

1. Agenda

1.1 Additions to Agenda

1.2 Prioritization of Agenda

1.3 Adoption of Agenda

Moved by Dan Robertson

Seconded by Pearl Ivens

That the February 26, 2026 Parry Sound District Emergency Medical Services Committee meeting agenda be approved.

carried

1.4 Disclosure of Pecuniary Interest and the General Nature Thereof

2. Minutes and Matters Arising from Minutes

2.1 Adoption of Minutes

Moved by Shelly Foote

Seconded by Dan Robertson

That the Minutes of the October 23, 2025 meeting of the Parry Sound District Emergency Medical Services Committee be approved as circulated.

Carried

3. Correspondence

4. Deputations

5. Emergency Services Director's Report

Moved by Shelly Foote

Seconded by Pearl Ivens

That the Emergency Services Director's Report dated February 26, 2026 be accepted as submitted.

Carried

6. Reports

6.1 EMS Statistical Report - December 2026

6.2 EMS Night Call Statistics - December 2026

6.3 EMS Vehicle Inventory - December 2026

Dave Thompson provided a descriptive overview of the various reports attached.

Resolution

EMS Committee members have received reports 6.1, 6.2, 6.3 as listed above.

Moved by Scott Sheard

Second by Dan Robertson

Carried

7. Ratification of Matters from Closed Agenda

8. Other Business

8.1 DT R&R South River EMS Base Relocation MOU - 2026

8.1.1 DT ATT#1 South River EMS Base Relocation MOU - 2026

Town of Parry Sound EMS Advisory Committee

Open Minutes

Dave Thompson spoke on the relocation and renovation of the South River EMS base with discussion on the rent increase vs. the beneficial facility upgrade.

Resolution

Moved by Scott Sheard

Seconded by Pearl Ivens

That the EMS Advisory Committee recommends Council for the Town of Parry Sound authorize the Director of Development and Protective Services to enter into an MOU substantially as attached that outlines the process for the renovation and relocation of the South River EMS Base to 309 Hwy 124 South River.

Carried

9. Adjournment @ 7:06pm

Moved by Scott Sheard

Seconded by Pearl Ivens

Carried

Parry Sound Area Planning Board

Meeting Minutes

Monday January 26, 2026 6:30 p.m. Zoom Electronic Web Meeting

Members Present: Joe Lamb, Morley Haskim, David Moore, Scott Nash

Others Present: Karlee Britton (Clerk- Township of McKellar), Brian Woods (Councillor – Municipality of Whitestone)

Zoom Link: <https://us02web.zoom.us/j/7791245001?>

Agenda

1.1. Additions to Agenda

1.1.1 Appointments

1.2. Prioritization of Agenda

1.3. Disclosure of Pecuniary Interest and the General Nature Thereof

1.4. Minutes and Matters Arising From Minutes

2. Adoption of Minutes

Resolution: 2026-001

Moved By: Morley Haskim

Seconded By: David Moore

Added note that Morley Haskim chaired the meeting

That the minutes of a meeting held December 22, 2025 be adopted.

“Carried”

Councillor Brian Woods entered the meeting

3. Correspondence

4. Closed

5. Reports & Enquiries

5.1. Enquiries

5.2. Accounts Payable

Resolution: 2026-002
Moved By: Scott Nash
Seconded By: David Moore

That the accounts for December 2025 be paid in the amount of **\$9,980.64**

“Carried”

5.3. Accounts

Resolution: 2026-003
Moved By: Scott Nash
Seconded By: Morley Haskim

Discussion regarding McKellar’s roll in accounting.

Scott Nash suggested keeping the existing bank account and asked why the Board does not have an HST number.

- a) That the Parry Sound Area Planning Board accepts the Township of McKellar’s offer to provide accounting services and authorizes the closure of the Boards’ current bank account.

“Carried”

5.4. Administration

Resolution: 2026-004
Moved By: Morley Haskim
Seconded By: David Moore

- a) That the Parry Sound Area Planning Board accepts the resignation of the Municipality of McDougall and Township of Carling board members as a result of the Ministers order that those municipalities be allowed to leave the Board.

“Carried”

Resolution: 2026-005
Moved By: Morley Haskim
Seconded By: Scott Nash

Discussion of Levies for Whitestone and McKellar increase for \$5000 to \$10,000 and \$8,000 respectively

Scott Nash suggested higher amounts for the first year.

- b) That the Parry Sound Area Planning Board ask the member municipalities to approve an increase in municipal levies

“Carried”

Resolution: 2026-006

Moved By: Morley Haskim

Seconded By: David Moore

Patrick Christie described changes to the procedural by-law

David Moore pointed out 2.1.0 still refers to 8 members

Scott Nash asked about people attending in person at the planning board office or at McKellar Township. It will remain an option to attend in person.

Scott Nash suggested that the procedural by-law include deeming an application complete.

Patrick Christie agreed to add this to the procedural by-law.

Scott Nash asked about notice. Patrick Christie added that he circulates to 60m radius as per the planning act.

Scott Nash asked about the Secretary Treasure being added as a voting member. This was not supported.

Scott Nash indicated that Councillor Brian Woods was added as an alternate member.

Morley Haskim suggested that McKellar Council appoint an alternate member.

- c) That the Parry Sound Area Planning Board approves the revised procedural by-law.

“Carried”

Discussion on the budget numbers (levies, administration costs and application fee increases)

Morley Haskim suggested an amount to be added to reserves along with the levy increase.

- d) Discussion on the draft 2026 fee schedule.

- e) Discussion on the draft 2026 Budget.

Discussion regarding the cost of operating the Board office.

Resolution: 2026-007

Moved By: Morley Haskim

Seconded By: David Moore

- f) That the Parry Sound Area Planning Board approves the 2026 meeting schedule.

“Carried”

Discussion on the name change of the Board

6. Adjournment

Resolution: 2026-008
Moved By: David Moore
Seconded By: Morley Haskim

That we do now adjourn at 8:13 pm.

“Carried”

MEETING MINUTES

Thursday, January 8, 2026 at 6:30 PM



Board Meeting Location: 1 Beechwood Drive, Parry Sound, Ontario (Virtual)

Board Members Present:

Jerry Brandt	Ted Collins
Gail Finnsion	Teri Brandt
Sharon Smith	Peter McIsaac
Tom Lundy	Rick Zanussi
Sean Cotton	Teresa Hunt
Janice Bray	Jamie McGarvey
Joel Constable	

Board Members Absent:

Irene Smit

Staff:

Tammy MacKenzie, CAO
 JJ Blower, Communications Officer
 Sylvia Roy, Director of Finance

1. CALL MEETING TO ORDER:

The meeting was called to order by Rick Zanussi at 6:30PM.

2. TRADITIONAL LAND ACKNOWLEDGMENT.

3. DISCLOSURE OF PECUNIARY INTEREST.

4. APPROVAL OF AGENDA

Resolution 26 01 01

CARRIED

Moved by Janice Bray

Seconded by Sean Cotton

“THAT the agenda of the Regular Meeting of the Board held on January 8, 2026 be accepted as presented.”

5. ELECTIONS.

5.1 Election of Chair

The CAO assumed the position of Chair and conducted the election.

The CAO called for nominations from the floor three times for the position of Chair.

Rick Zanussi was nominated and willing to stand. No other nominations were put forward for the position of Chair.

Resolution 26 01 02

CARRIED

Moved by Tom Lundy

Seconded by Gail Finnsion

“THAT Rick Zanussi be appointed and approved as the Chair of the District of Parry Sound Social Services Administration Board for the year 2026.”

5.2 Election of Vice-Chair

The Chair conducted the election.

The Chair called for nominations from the floor three times for the position of Vice-Chair. Jerry Brandt was nominated and willing to stand. No other nominations were put forward for the position of Vice-Chair.

Resolution 26 01 03

CARRIED

Moved by Tom Lundy

Seconded by Gail Finnsen

“THAT Jerry Brandt be appointed and approved as the Vice-Chair of the District of Parry Sound Social Services Administration Board for the year 2026.”

6. APPROVAL OF MINUTES:

6.1 December 11, 2025

Resolution 26 01 04

CARRIED

Moved by Peter McIsaac

Seconded by Sharon Smith

“THAT the Board meeting minutes of Thursday, December 11, 2025 be approved as presented.”

7. DEPUTATIONS & PRESENTATIONS.

8. REPORTS:

8.1 Chair

The chair welcomed the Board and highlighted the human resources update in the CAO report indicating that the average tenure of DSSAB staff was over 9 years, and that the DSSAB employed 172 staff. He also compared our Ontario Works numbers to the provincial average noting the successes of our local DSSAB.

8.2 Chief Administrative Officer

A written report was provided, and Ms. MacKenzie was available to answer any questions. The CAO highlighted the success of the Esprit holiday giving campaign and thanked the community for their generosity. She also shared her appreciation to staff that worked over the holidays, noting that we worked with a smaller group to allow more of our staff to spend time with their families around the holidays, while still supporting the community and keeping child care open. Ms. MacKenzie also acknowledged that Ireme Smit had resigned from Council and would therefore not be attending tonight’s meeting and would be resigning from the DSSAB Board, wishing Ms. Smit well and thanking her for her service.

8.3 Director of Finance

The Director of Finance reported that the 2026 budget was approved with a 6.5% levy increase at the Dec 11/25 Board meeting and indicated that after that passing, she had updated the 85-page budget document to reflect this amount as the draft was presented at

5%. All 22 municipalities have received the levy apportionment schedule and approved 2026 budget package. In the next few weeks finance staff will upload budgets into our software systems so that monthly reports can be prepared and variance analysis can be done. Finance staff have switched gears to work on year-end preliminary work and have opened new years in software systems, and updated monthly allocation journal entries to reflect 2026 amounts. Now that the budget has been approved, staff can complete the OW budget submission in TPON.

9. OUTSTANDING ISSUES.

10. NEW BUSINESS:

10.1 Appointment of LHC Board for 2026

A written report was presented by the Director of Finance.

Resolution 26 01 05

CARRIED

Moved by Janice Bray

Seconded by Sean Cotton

“THAT the Board approves the appointment of the Officers and Directors of Parry Sound District Housing Corporation, as follows:

Directors: Rick Zanussi, Jerry Brandt, Teri Brandt, Janice Bray, Ted Collins, Joel Constable, Gail Finsson, Teresa Hunt, Sean Cotton, Tom Lundy, Jamie McGarvey, Peter McIsaac, and Sharon Smith.

Officers:

Chair	Rick Zanussi
Vice-Chair	Jerry Brandt
CEO/Secretary	Tammy MacKenzie
Housing Manager	Sharon Davis
Treasurer	Sylvia Roy

10.2 Appointment of NOAH Board for 2026

A written report was presented by the Director of Finance.

Resolution 26 01 06

CARRIED

Moved by Jerry Brandt

Seconded by Teri Brandt

“THAT the Board approves the appointment of the Officers and Directors of the Non-Profit Organization for Almaguin Housing (N.O.A.H.) Inc., as follows:

Directors: Rick Zanussi, Jerry Brandt, Teri Brandt, Janice Bray, Ted Collins, Joel Constable, Gail Finsson, Teresa Hunt, Sean Cotton, Tom Lundy, Jamie McGarvey, Peter McIsaac, and Sharon Smith.

Officers:

Chair	Rick Zanussi
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Vice-Chair	Jerry Brandt
CEO/Secretary	Tammy MacKenzie
Housing Manager	Sharon Davis
Treasurer	Sylvia Roy

Teresa Hunt joined the meeting 6:53pm

10.3 Borrowing Resolution for 2026

A written report was presented by the Director of Finance.

Resolution 26 01 07

CARRIED

Moved by Gail Finnon

Seconded by Peter McIsaac

“THAT the CAO and/or the Director of Finance are authorized to arrange with the Corporation’s Bank by way of promissory notes, to borrow up to a maximum amount of \$1,000,000 that may be required to meet expenditures.

AND THAT the CAO and/or the Director of Finance are authorized to arrange with the Corporation’s Bank by way of the issuance of corporate credit cards, to borrow up to a corporate maximum limit of \$250,000 and that Finance Credit Card Policy 2.12 be adhered to.

AND THAT this borrowing arrangement shall stay in effect until February 11, 2027.

11. IN-CAMERA: 2

Resolution 26 01 08

CARRIED

Moved by Jamie McGarvey

Seconded by Tom Lundy

“THAT pursuant to Section 38 of the District of Parry Sound Social Services Administration Board’s *Procedural Rules*, the Board moves to an In-Camera session in order to address matters pertaining to:

- iv) a decision concerning negotiations for an agreement or contract between the Board and a third party.”

Resolution 26 01 09

CARRIED

Moved by Joel Constable

Seconded by Sean Cotton

“THAT the Board now rises out of In-Camera without report.”

Resolution 26 01 10

CARRIED

Moved by Ted Collins

Seconded by Janice Bray

“THAT upon the recommendation of the consultant, the Board does not recommend advancing any EOI submission and instead recommends prioritizing the NOSDA Build Canada Homes portfolio approach as the preferred pathway for advancing affordable

housing development in the District of Parry Sound, as it offers greater cost certainty, reduced delivery risk, improved access to government funding and stronger alignment with PSDSSAB’s affordability and delivery objectives.”

Resolution 26 01 11

CARRIED

Moved by Tom Lundy

Seconded by Joel Constable

“THAT the Board direct staff to continue with the next Steps as outlined in the InCamera Report 11.2 titled NOSDA Portfolio Approach.”

12. CORRESPONDENCE.

11.1 NBPSDHU Overdose Report

13. ADJOURNMENT.

Resolution 26 01 12

CARRIED

Moved by Ted Collins

Seconded by Jamie McGarvey

“THAT the Board meeting now be adjourned at 7:20 PM, and that the next Regular meeting be held Thursday, February 12, 2026 at the hour of 6:30 PM via Zoom Video Conference.”

A meeting of the Board of Health for the North Bay Parry Sound District Health Unit was held on Wednesday, January 22, 2025, via teleconference. The meeting was open to the public and live streaming of the proceedings was provided for the media and public through a link on the Health Unit's website.

PRESENT:**Nipissing District:**

Central Appointee	Karen Cook
Central Appointee	Sara Inch
Central Appointee	Jamie Lowery (<i>Vice-Chairperson</i>)
Central Appointee	Maurice Switzer
Central Appointee	Dave Wolfe
Eastern Appointee	Rick Champagne (<i>Chairperson</i>)
Western Appointee – Nipissing District	Jamie Restoule

Parry Sound District:

Northeastern Appointee	Blair Flowers
Southeastern Appointee	Marianne Stickland
Western Appointee	Jamie McGarvey
Public Appointees:	Tim Sheppard
	Catherine Still

REGRETS:**ALSO IN ATTENDANCE:**

Medical Officer of Health/Executive Officer	Dr. Carol Zimbalatti
Executive Assistant, Executive Director's Office	Christine Neily

Recorder

Executive Assistant, Office of the Medical Officer of Health	Ashley Lecappelain
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1.0 CALL TO ORDER

The Board of Health members joined the meeting in person from the Nipissing Room at 345 Oak Street West, North Bay, Ontario, and virtually via Teams video conference.

Dr. Zimbalatti, called the Board of Health meeting to order at 5:01 p.m.

2.0 LAND ACKNOWLEDGEMENT

The land acknowledgement was provided by Jamie Restoule.

Blair Flowers joined the Board of Health meeting at 5:02 p.m.

3.0 ELECTIONS

Nominations for the Chairperson and Vice-Chairperson positions were conducted electronically prior to the start of the Board of Health meeting.

3.1 Election of Chairperson

Dr. Zimbalatti opened the floor for further nominations. Having no further nominations, a vote was conducted among the nominees during the meeting.

The following motion was read:

Board of Health Resolution #BOH/2025/01/01 *Restoule/Lowery

Be It Resolved, that Rick Champagne be elected Chairperson of the Board of Health for the year 2025.

The recorded vote was as follows:

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

3.1 Election of Vice-Chairperson

Rick Champagne assumed the role as Chairperson and opened the floor for further nominations for Vice-Chairperson

Having no further nominations, the following motion was read:

Board of Health Resolution #BOH/2025/01/02 *Champagne/McGarvey

Be It Resolved, that Jamie Lowery be elected Vice-Chairperson of the Board of Health for the year 2025.

The recorded vote was as follows:

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

Following the election of the Vice-Chairperson, Rick Champagne requested that Jamie Lowery, Vice-Chairperson, assume the role of Chair for the remainder of the Board of Health meeting.

4.0 APPROVAL OF AGENDA

The agenda for the January 22, 2025, Board of Health meeting was reviewed, and the following motion was read:

Board of Health Resolution #BOH/2025/01/03 *Still/Stickland

Be It Resolved, that the Board of Health Agenda, dated January 22, 2025, be approved.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

5.0 CONFLICT OF INTEREST DECLARATION

There were no conflicts of interest declared.

6.0 APPROVAL OF PREVIOUS MINUTES

6.1 Board of Health Minutes – December 4, 2024

The minutes from the Board of Health meeting held on December 4, 2024, were reviewed and the following motion was read:

Board of Health Resolution #BOH/2025/01/04 *Sheppard/Cook

Be It Resolved, that the minutes from the Board of Health meeting held on December 4, 2024, be approved as presented.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

6.2 Board of Health In-Camera Minutes – December 4, 2024

The in-camera minutes from the Board of Health meeting held on December 4, 2024, were reviewed and the following motion was read:

Board of Health Resolution #BOH/2025/01/05 *Restoule/Flowers

Be It Resolved, that the in-camera minutes from the Board of Health meeting held on December 4, 2024, be approved as presented.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

7.0 DATE OF THE NEXT MEETING

The proposed meeting schedule for 2025 was presented and the following motion was read:

Board of Health Resolution #BOH/2025/01/06 *Wolfe/Stickland

Be It Resolved, that in accordance with Board of Health Bylaw Section III, #51, the Board of Health approve the regular meeting schedule for the year 2025 as follows:

DATE	MEETING	TIME
January 22 <i>*This date is carried over from the 2024 approved schedule: for information only</i>	<i>Board of Health Meeting Finance and Property Committee</i>	<i>5 – 7 p.m.</i>
February 26	<i>Personnel Policy, Employee/Labour Relations Committee Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>
April 23	<i>Personnel Policy, Employee/Labour Relations Committee Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>
June 25	<i>Personnel Policy, Employee/Labour Relations Committee Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>
September 24	<i>Personnel Policy, Employee/Labour Relations Committee Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>
November 26	<i>Personnel Policy, Employee/Labour Relations Committee Board of Health</i>	<i>5 – 7 p.m.</i>
December 3	<i>Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>
January 28, 2026	<i>Finance and Property Committee Board of Health</i>	<i>5 – 7 p.m.</i>

And Furthermore Be It Resolved, that the Board of Health meetings are held at the North Bay Parry Sound District Health Unit, Main Office, North Bay, with the exception of one meeting that will be held at the Parry Sound Branch Office, if possible. The Parry Sound meeting date is scheduled for June 25, 2025

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

8.0 APPOINTMENT OF STANDING COMMITTEES FOR 2025

The following motion was read:

Board of Health Resolution #BOH/2025/01/07 *Cook /Champagne

Be It Resolved, that the Board of Health for the North Bay Parry Sound District Health Unit approves the appointment of the following Board of Health Standing Committees for 2025:

1. A **Finance and Property Committee** comprised of all Board members to deal with matters of finance, banking, insurance, property, and financial policies of the Board of Health; and
2. A **Personnel Policy, Labour/Employee Relations Committee** comprised of all Board members to deal with matters related to collective agreements (unions) and employment policies (non-union), and personnel policies of the Board of Health.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

9.0 APPOINTMENT OF SIGNING OFFICERS FOR 2025

The following motion was read:

Board of Health Resolution #BOH/2025/01/08 *Wolfe/McGarvey

Be It Resolved, that the Board of Health for the North Bay Parry Sound District Health Unit approve the signing officers for the year 2025 as follows:

<i>Board of Health Chairperson</i>	<i>Rick Champagne</i>
<i>Board of Health Vice-Chairperson</i>	<i>Jamie Lowery</i>
<i>Medical Officer of Health/Executive Officer</i>	<i>Dr. Carol Zimbalatti</i>
<i>Executive Director, Clinical Services and Chief Nursing Officer</i>	<i>Shannon Mantha</i>
<i>Executive Director, Community Services</i>	<i>Louise Gagné</i>
<i>Executive Director, Corporate Services and Privacy Officer</i>	<i>Paul Massicotte</i>
<i>Executive Director, Finance</i>	<i>Isabel Churcher</i>
<i>Executive Director, Organizational Effectiveness</i>	<i>Chris Bowes</i>

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

10.0 APPOINTMENT OF LEGAL ADVISORS FOR 2025

The following motion was read:

Board of Health Resolution #BOH/2025/01/09 *Stickland/Still

Be It Resolved, that the Board of Health for the North Bay Parry Sound District Health Unit approve appointment of the following legal advisors for the year 2025:

Corporate Legal Advisors:

- *The Corporation of the City of North Bay*

- *Lucenti Orlando Professional Corporation*

Enforcement Legal Advisors:

- *Joseph D. Kennedy B.A., LL.B., C.S.*
- *The Corporation of the City of North Bay*

Health Protection and Promotion Act (HPPA) Legal Advisors:

- *Joseph D. Kennedy B.A., LL.B., C.S.*
- *Larmer Jackson*

Labour Relations Legal Advisors:

- *Filion Wakely Thorup Angeletti LLP*

and,

Furthermore Be It Resolved, that the North Bay Parry Sound District Health Unit may use additional legal advisors as directed by the Medical Officer of Health/Executive Officer, and approved by resolution at the next regular Board of Health meeting.

Jamie Lowery declared a conflict of interest and abstained from voting.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery			x	Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

11.0 BUSINESS ARISING

Report on Meeting with the Deputy Minister of Health

Rick Champagne provided an update on his recent meeting with the Deputy Minister of Health. The following key points were discussed:

- The implications of a 1% funding increase for Public Health Units and its impact on service delivery.
- The continued financial burden on municipalities resulting from insufficient provincial funding for public health, leading to an increased municipal contribution.

12.0 REPORT OF MEDICAL OFFICER OF HEALTH

The Report of the Medical Officer of Health dated January 22, 2025, was presented to the Board of Health for information purposes.

Questions and comments were received and addressed.

13.0 BOARD COMMITTEE REPORTS

There were no committee reports.

14.0 CORRESPONDENCE

Board of Health correspondence listed for the January 22, 2025, meeting is made available for review by Board members in the Board of Health online portal.

15.0 NEW BUSINESS

15.1 Corporate Sponsorships and Donations 2024 – Report to the Board

The report for 2024 corporate sponsorships was provided to the Board for information purposes.

15.2 Requests for Proposal 2024 – Report to the Board

The report for 2024 requests for proposal was provided to the Board for information purposes.

15.3 Association of Local Public Health Agencies (alPHa) Winter Symposium Registration

Notice of the 2025 alPHa Winter Symposium was provided. The following motion was read:

Board of Health Resolution #BOH/2025/01/10 *Still/Restoule

Therefore Be It Resolved, that the Board of Health for the North Bay Parry Sound District Health Unit authorizes up to three Board of Health member(s) to attend the Association of Local Public Health Agencies (alPHa) 2025 Winter Symposium, to be held virtually on February 12-14, 2025; and

Furthermore Be It Resolved, that expenses related to attendance of the alPHa 2025 Winter Symposium be paid in accordance with Board of Health Bylaws Section VI, #79, Remuneration.

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		

Blair Flowers	x	Marianne Stickland	x
Sara Inch	A	Catherine Still	x
Jamie Lowery	x	Maurice Switzer	x
Jamie McGarvey	x	Dave Wolfe	x

“Carried”

Sara Inch was absent from the Board of Health meeting during the recorded vote.

15.4 Quality Issue Report 2024 – Report to the Board

The year-end quality issue report for 2024 was provided to the Board for information purposes.

15.5 Elimination and Archiving of the Board of Health Policies

The following motion was read:

Board of Health Resolution #BOH/2025/01/11 *Champagne/Restoule

Whereas, on September 27, 2023, a presentation on a new governance documentation system aimed at streamlining the Board of Health policies, Board of Health Bylaws document, and Board of Health Orientation Manual into three core documents (Bylaws document, Governance Manual, and Code of Conduct) was received and accepted; and,

Whereas, on April 24, 2024, a memo and updated Board of Health Bylaws, updated Governance Manual (formerly called Orientation Manual) and new Code of Conduct document containing board governance content (e.g. information about the governing of board activities) from the Board of Health policies were reviewed and approved; and

Whereas, all operational content (e.g. information about operating Health Unit programs/services) from the Board of Health policies has been integrated into existing or new Health Unit policies, procedures, and/or associated documents, and

Whereas, the Board of Health is aware of and has access to Health Unit Operational Policies through the Board Governance Manual; and

Whereas, the new governance document system is fully implemented with associated work completed;

Therefore, be it resolved, that the Board of Health for the North Bay Parry Sound District Health Unit approves the elimination and archiving of the Board of Health policies listed below:

- Asset Capitalization – B-F-005
- Asset Protection – B-F-002
- Corporate Sponsorships and Donations – B-F-003

- Municipal Reserve – B-F-007
- Procurement – B-F-001
- Remuneration for Board Members – B-F-004
- Signing Authority – B-F-006
- Confidentiality of Information – B-G-004
- Risk Management – B-G-023
- Personal Health Information Protection Act – B-G-011
- Municipal Freedom of Information and Protection of Privacy Act – B-G-012
- Recognizing Community Partners – B-G-014
- Recognition of Staff and Volunteers – B-P-002
- Relocation (Moving) Expenses for New Employees – B-P-003
- Appointment of Board of Health Members – B-G-002
- Appointment, Term of Office, Powers and Duties for Committees of the Board of Health – B-G-006
- Appointment, Recognition, Terms and Duties of Board of Health Auditors and Legal Advisors for the Board of Health – B-G-007
- Board of Health Orientation and Training – B-G-020
- Code of Conduct – B-G-010
- Conflict of Interest – B-G-003
- Election, Term of Office, Duties and Powers of the Chairperson and Vice-Chairperson of the Board of Health – B-G-005
- In Camera Meeting Proceedings – B-G-015
- Information Process for Meetings of BOH and Committees – B-G-013
- Meeting Proceedings for Board of Health and Committees – B-G-009
- Notice and Attendance of Public at BOH and Committee Meetings – B-G-021
- Responding to Complaints Received by the BOH Members – B-G-016
- Roles and Responsibilities of Board of Health Members – B-G-008
- Integrated Accessibility Standards – B-P-012
- Occupational Health and Safety – B-P-004
- Preventing Workplace Harassment – B-P-001
- Preventing Workplace Violence – B-P-009
- Scent-free Workplace – B-P-005
- Baby Friendly Initiative – B-G-022
- Anti-Nepotism – B-P-006
- Social Media Governance for Health Unit Accounts – B-P-010
- Copyright – B-G-026
- Health Unit Brand Governance – B-G-025
- Tobacco, Cannabis, and Electronic Cigarette Use Policy – B-P-007
- Organizational Planning – B-G-024
- Geographic Areas Serviced by the NBPSDHU – B-G-001

The recorded vote was as follows:

RECORDED VOTE FOR CIRCULATION: Yes / No (Please circle one)

Name:	For:	Against:	Abstain:	Name:	For:	Against:	Abstain:
Rick Champagne	x			Jamie Restoule	x		
Karen Cook	x			Tim Sheppard	x		
Blair Flowers	x			Marianne Stickland	x		
Sara Inch	x			Catherine Still	x		
Jamie Lowery	x			Maurice Switzer	x		
Jamie McGarvey	x			Dave Wolfe	x		

“Carried”

16.0 IN CAMERA

There was no in camera session.

17.0 ADJOURNMENT

Having no further business, Jamie Lowery the Board of Health Vice-Chairperson adjourned the Board of Health meeting at 5:54 p.m.

Original Signed by Rick Champagne 2025/02/26

Chairperson/Vice-Chairperson Date (yyyy/mm/dd)

Original Signed by Ashley Lecappelain 2025/02/26

_ Ashley Lecappelain, Recorder Date (yyyy/mm/dd)

ACCOUNTS PAYABLE

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

Bank Code - AP - AP-GENERAL OPER

COMPUTER CHEQUE

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
37847	02/10/2026	Bell Canada - Public Access			
177015		16-787 - Recreation - Public Pay	Pay Telephone	50.88	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.62	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	6.50	NL 56.50
37848	02/10/2026	Minister of Finance-Policing			
3427012607051	Accrual	16-274 - Policing Levy	December Policing	35,087.00	35,087.00
37849	02/10/2026	Bell Mobility			
0096550697		16-212 - Fire - Radio Tower & Ai	Fire Tower	144.63	
		11-210-2 - A/R HST Receivable	HST Tax Code	15.98	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	18.48	NL 160.61
37850	02/25/2026	Kathy Whitman			
January 2026		16-207 - Fire - Drivers Exams	Driver Test & License	90.00	
		16-207 - Fire - Drivers Exams	Driver Test & License	23.75	113.75
37851	02/25/2026	Jims Locksmithing			
INV024452		16-702 - Dunchurch Hall - Suppl	Keys	51.90	
		16-110 - Admin - Office Supplies	Keys	51.90	
		16-811 - Nursing Station Expens	Keys	51.89	
		11-210-2 - A/R HST Receivable	HST Tax Code	17.20	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	19.89	NL 172.89
37852	02/25/2026	Morrow's Plumbing & Heating			
24853		16-778 - Water Maintenance	Repairs	569.45	
		11-210-2 - A/R HST Receivable	HST Tax Code	62.89	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	72.74	NL 632.34
37853	02/25/2026	Cormac O'Neill			
Feb 14 2026		16-790 - Recreation Cmttee-Pro	D & D Membership	84.53	84.53
37854	02/25/2026	Jenny Paul			
Feb 14 2026	Accrual	16-790 - Recreation Cmttee-Pro	Mind and Body Fitness Clas	1,000.00	1,000.00
37855	02/27/2026	Scott Nash			
Nov 2025	Accrual	16-120 - Admin - Legal Expense	Legal Fees - FOI Request	1,474.65	1,474.65
37856	03/05/2026	Town of Parry Sound (EMS)			
IVC0000000024		16-550 - Ambulance Levy	Land Ambulance 2026	240,607.43	240,607.43
37857	03/05/2026	Paul Rossitter			
Jan 2026		16-120 - Admin - Legal Expense	Legal Services - By-Law	216.56	216.56
37858	03/05/2026	Canadian Tire			
12412	Accrual	16-320 - Garage - Mtc/Supplies/	Supplies	223.86	
		11-210-2 - A/R HST Receivable	HST Tax Code	24.73	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	28.60	NL 248.59
12451	Accrual	16-320 - Garage - Mtc/Supplies/	Supplies	39.67	
		11-210-2 - A/R HST Receivable	HST Tax Code	4.38	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	5.07	NL 44.05
16072	Accrual	16-769 - Parks Maintenance	Supplies	120.05	
		11-210-2 - A/R HST Receivable	HST Tax Code	13.26	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	15.34	NL 133.31
12178	Accrual	16-702 - Dunchurch Hall - Suppl	Supplies	338.37	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

COMPUTER CHEQUE

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
		11-210-2 - A/R HST Receivable	HST Tax Code	37.38	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	43.23	NL 375.75
Nov 5 2025	Accrual	16-320 - Garage - Mtc/Supplies/	Supplies	138.33	
		11-210-2 - A/R HST Receivable	HST Tax Code	15.28	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	17.67	NL 153.61
Dec 29 2025	Accrual	16-320 - Garage - Mtc/Supplies/	Supplies	18.31	
		11-210-2 - A/R HST Receivable	HST Tax Code	2.02	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	2.34	NL 20.33
16281		16-702 - Dunchurch Hall - Suppl	Supplies	20.33	
		11-210-2 - A/R HST Receivable	HST Tax Code	2.25	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	2.60	NL 22.58
11216		16-320 - Garage - Mtc/Supplies/	Supplies	264.56	
		11-210-2 - A/R HST Receivable	HST Tax Code	29.22	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	33.80	NL 293.78
			Payment Total:		1,292.00
37859	03/05/2026	Holly Dickson			
Feb 2026		16-702 - Dunchurch Hall - Suppl	Family Day Supplies	120.00	120.00
37860	03/05/2026	Jean-Paul Bressan			
August 2025	Accrual	16-702 - Dunchurch Hall - Suppl	Recreation - D&D Beyond S	77.68	77.68
37861	03/05/2026	Bell Mobility			
0096566746		16-212 - Fire - Radio Tower & Ai	Fire Tower	144.63	
		11-210-2 - A/R HST Receivable	HST Tax Code	15.98	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	18.48	NL 160.61
			Total Computer Cheque:		281,256.55

ONLINE BANKING

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
OB-232	01/06/2026	TD Visa			
202512LIB	Accrual	11-223 - Due to Due (from) Libr	December Visa Library	417.88	417.88
202512JS	Accrual	16-115 - Admin - Computer Supj	Google - Gsuite	426.88	
		11-210-2 - A/R HST Receivable	HST Tax Code	47.16	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	54.54	NL 474.04
122025WS	Accrual	16-710 - Dunchurch Hall -High S	Starlink - Internet	142.46	
		16-110 - Admin - Office Supplies	Zoom - Subscription	53.93	
		16-123 - Admin - Volunteer Appr	Dollarama - Appreciation Di	42.74	
		16-123 - Admin - Volunteer Appr	Walmart - Appreciation Dinn	4.07	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	20.79	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	72.62	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	29.49	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	37.10	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	23.34	
		16-790 - Recreation Cmttee-Pro	Amazon - Crafts for Rec	37.33	
		16-126 - Admin - Communicatioi	Amazon - Crafts for Rec	38.23	
		16-126 - Admin - Communicatioi	Mailchimp - e-newsletter	38.24	
		16-790 - Recreation Cmttee-Pro	Amazon - Yoga Matts for Cl	559.58	
		16-123 - Admin - Volunteer Appr	Rock N'Duck - Gift cards for	75.00	
		16-123 - Admin - Volunteer Appr	LCBO - Gift cards for the A	29.95	
		19-110 - Community Centre Con	Amazon - Meeting Owl	1,579.74	
		16-123 - Admin - Volunteer Appr	Amazon - Meeting Owl	25.95	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

ONLINE BANKING

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
		11-130 - Chequing Account	TD Visa - Top Up Dec 2	-3,033.31	
		16-123 - Admin - Volunteer Appr	Dollarama - Appreciation Di	25.95	
		16-123 - Admin - Volunteer Appr	Sockey Centre - Gift Card A	76.13	
		16-123 - Admin - Volunteer Appr	Canadian Tire - Gift Card A	50.00	
		16-104 - Admin - Training Exper	AMCTO - MLP Corresponden	432.48	
		16-104 - Admin - Training Exper	AMCTO - MLP Corresponden	-42.28	
		11-210-2 - A/R HST Receivable	HST Tax Code	344.67	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	398.64	NL 664.20
122025MH	Accrual	16-732 - Ardbeg Internet	Starlink - Internet	142.46	
		19-308 - Roads-Capital-Bridge	Home Depot - Supplies	197.37	
		19-308 - Roads-Capital-Bridge	Home Depot - Supplies	238.05	
		16-320 - Garage - Mtc/Supplies/	Canadian Tire - Supplies	122.26	
		11-210-2 - A/R HST Receivable	HST Tax Code	77.34	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	89.44	NL 777.48
012026JS	Accrual	16-115 - Admin - Computer Supj	Paymate - Software Renew.	870.05	
		16-115 - Admin - Computer Supj	Google - Gsuite	426.88	
		16-118 - Admin - Financial Expe	Google - Gsuite	9.35	
		11-210-2 - A/R HST Receivable	HST Tax Code	143.26	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	165.69	NL 1,449.54
012026LIB		11-223 - Due to Due (from) Libr	January Visa Library	1,827.47	1,827.47
			Payment Total:		5,610.61
OB-233	01/15/2026	TD Visa			
012026MH	Accrual	16-320 - Garage - Mtc/Supplies/	Walmart - Supplies	62.71	
		16-320 - Garage - Mtc/Supplies/	Walmart - Supplies	29.70	
		16-732 - Ardbeg Internet	Starlink - Ardbeg Internet	142.46	
		16-396 - Misc MTO Vehicle Plat	MTO - Vehicle Plate Renew	8,987.00	
		16-396 - Misc MTO Vehicle Plat	Dollar Tree - Supplies	21.37	
		16-320 - Garage - Mtc/Supplies/	Walmart - Supplies	65.56	
		16-092 - Council - Miscellaneous	Sobeys - Food Trays - May	225.87	
		16-118 - Admin - Financial Expe	TD Visa - Interest	19.00	
		16-790 - Recreation Cmttee-Pro	Hydro One - Meter Hook Up	775.89	
		16-790 - Recreation Cmttee-Pro	Hydro One - TD Visa Servic	20.68	
		11-210-2 - A/R HST Receivable	HST Tax Code	130.89	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	151.38	NL 10,481.13
012026NB	Accrual	16-118 - Admin - Financial Expe	TD Visa - Vis Cash Back Cr	-7.33	
		16-798 - After School Program	OPP - Vulnerable Sector Cf	41.00	
		16-102 - Admin - Travel Expens	Boston Pizza - CAO Christn	28.54	62.21
012026WS	Accrual	16-123 - Admin - Volunteer Appr	Hucklebarry's Parry Sound	50.00	
		16-123 - Admin - Volunteer Appr	Dollarama - Appreciation ev	15.26	
		16-123 - Admin - Volunteer Appr	Duck Rock Resort - Gift - A	33.89	
		16-123 - Admin - Volunteer Appr	Rock N Duck Rest - Gift -A	67.17	
		16-710 - Dunchurch Hall -High S	Starlink - Internet	142.46	
		19-110 - Community Centre Con	Amazon - Council meeting s	191.30	
		19-110 - Community Centre Con	Amazon - Council meeting s	22.38	
		16-110 - Admin - Office Supplies	Zoom - Communications	53.93	
		16-092 - Council - Miscellaneous	NBX Aspen Valley - Donatic	200.00	
		16-103 - Admin - Membership/Si	OBOA - Annual membershi	379.56	
		16-126 - Admin - Communicatioi	Intuit Mailchimp - e-newslett	37.11	
		16-118 - Admin - Financial Expe	TD Visa - Interest	19.63	
		11-210-2 - A/R HST Receivable	HST Tax Code	100.44	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	116.16	NL 1,313.13
			Payment Total:		11,856.47

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

ONLINE BANKING

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
OB-234	01/13/2026	Bell Canada			
Dec Internet	Accrual	16-118 - Admin - Financial Expe	December Internet	5.59	
		16-162 - High Speed Internet	December Internet	172.99	
		11-210-2 - A/R HST Receivable	HST Tax Code	19.11	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	22.10	NL 197.69
OB-235	01/13/2026	Bell Mobility Inc.			
January Cell		16-092 - Council - Miscellaneous	January Cell Phone	39.94	
		16-322 - Cell Phone	January Cell Phone	36.02	
		16-283-1 - Cell Phone	January Cell Phone	33.58	
		16-322 - Cell Phone	January Cell Phone	34.21	
		16-109 - Admin - Telephone	January Cell Phone	34.84	
		11-210-2 - A/R HST Receivable	HST Tax Code	19.75	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	22.83	NL 198.34
OB-236	01/13/2026	Hydro One Networks Inc.-Auld			
Dec 2025	Accrual	16-466-1 - Aulds Landfill - Hydr	Nov 14 - Dec 12 Aulds LF	92.24	
		16-466-1 - Aulds Landfill - Hydr	Nov 14 - Dec 12 Aulds LF- I	-21.30	
		11-210-2 - A/R HST Receivable	HST Tax Code	10.18	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	11.78	NL 81.12
OB-237	01/13/2026	Hydro One Networks Inc.-York (6266)			
December 2025	Accrual	16-446-1 - York Landfill - Hydro	December Hydro	52.67	
		16-446-1 - York Landfill - Hydro	December Hydro Rebate	-12.16	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.82	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	6.73	NL 46.33
OB-238	01/13/2026	Municipality Of McDougall			
26225	Accrual	16-459 - York Landfill - Bulk Wa:	Household Waste	1,175.88	
		16-471 - Auld Landfill - Bulk Wa:	Household Waste	1,175.88	2,351.76
OB-239	01/13/2026	Receiver General			
PP26	Accrual	12-331 - Payroll Deductions	December 16 - 31 Remittan	22,755.27	22,755.27
OB-240	01/15/2026	Bell Canada			
December CC	Accrual	16-706 - Dunchurch Hall - Telep	December Phone	53.56	
		16-118 - Admin - Financial Expe	December Phone	1.73	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.91	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	6.84	NL 61.20
December MI	Accrual	16-720 - Maple Is. Hall - Teleph	December Phone	63.73	
		16-118 - Admin - Financial Expe	December Phone	2.06	
		11-210-2 - A/R HST Receivable	HST Tax Code	7.04	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	8.14	NL 72.83
December Stn 1	Accrual	16-237 - Station 1 - Telephone	December Phone	75.94	
		16-118 - Admin - Financial Expe	December Phone	2.45	
		11-210-2 - A/R HST Receivable	HST Tax Code	8.39	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	9.70	NL 86.78
December Office	Accrual	16-109 - Admin - Telephone	December Phone	264.34	
		16-118 - Admin - Financial Expe	December Phone	8.54	
		11-210-2 - A/R HST Receivable	HST Tax Code	29.20	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	33.77	NL 302.08
December Gara	Accrual	16-324 - Garage Telephone	December Phone	53.56	
		16-118 - Admin - Financial Expe	December Phone	1.73	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.91	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	6.84	NL 61.20

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

ONLINE BANKING

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
				Payment Total:	584.09
OB-241	01/15/2026	Minister Of Finance			
Dec 2025 EHT	Accrual	12-332 - Employer Health Tax	December 2025 EHT Remit	3,099.26	3,099.26
OB-242	01/16/2026	Municipality Of McDougall			
26277	Accrual	16-459 - York Landfill - Bulk Wa:	Household Waste	424.46	424.46
OB-243	01/22/2026	Whitestone Public Library and			
Thrift Shop Don	Accrual	16-793 - Recreation-Thrift Shop	2025 Thrift Shop Donation	5,283.40	5,283.40
OB-244	01/23/2026	Hydro One Networks Inc.-All			
January Hydro		16-743 - Pavilion - Hydro	January Hydro	259.43	
		16-743 - Pavilion - Hydro	January Hydro - Rebate	-59.91	
		16-705 - Dunchurch Hall - Hydro	January Hydro - Rebate	-84.48	
		16-705 - Dunchurch Hall - Hydro	January Hydro	365.80	
		16-439 - Roads - Street Lights	January Hydro - Rebate	-4.03	
		16-439 - Roads - Street Lights	January Hydro	17.43	
		16-439 - Roads - Street Lights	January Hydro	309.03	
		16-439 - Roads - Street Lights	January Hydro - Rebate	-71.36	
		16-323 - Garage - Hydro	January Hydro - Rebate	-83.08	
		16-323 - Garage - Hydro	January Hydro	359.76	
		16-232 - Station 1 - Hydro	January Hydro	763.94	
		16-232 - Station 1 - Hydro	January Hydro - Rebate	-176.42	
		16-150 - Office - Heating/Hydro	January Hydro - Rebate	-58.81	
		16-150 - Office - Heating/Hydro	January Hydro	254.64	
		16-251 - Station 2 - Hydro	January Hydro	93.46	
		16-251 - Station 2 - Hydro	January Hydro - Rebate	-21.58	
		16-719 - Maple Is. Hall - Heat/Hy	January Hydro - Rebate	-101.42	
		16-719 - Maple Is. Hall - Heat/Hy	January Hydro	439.16	
		16-719 - Maple Is. Hall - Heat/Hy	January Hydro	34.46	
		16-719 - Maple Is. Hall - Heat/Hy	January Hydro - Rebate	-5.78	
		11-210-2 - A/R HST Receivable	HST Tax Code	319.98	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	370.10 NL	2,550.22
OB-245	01/26/2026	Receiver General			
PP1		12-331 - Payroll Deductions	January 1 to 15 Remittance	15,994.47	15,994.47
OB-246	02/10/2026	TD Visa			
022026JS		16-115 - Admin - Computer Supp	Google - Gsuite	426.88	
		16-118 - Admin - Financial Expe	February Visa - Interest	0.25	
		11-210-2 - A/R HST Receivable	HST Tax Code	47.16	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	54.54 NL	474.29
022026LIB		11-223 - Due to Due (from) Libr	February Visa Library	1,597.55	1,597.55
022026 MH		16-320 - Garage - Mtc/Supplies/	Canadian Tire - Shovels - w	100.50	
		16-303 - Roads-Office-Supplies/	Staples - Supplies	408.90	
		16-732 - Ardbeg Internet	Starlink - Ardbeg Internet	142.46	
		16-118 - Admin - Financial Expe	February Visa - Interest	1.20	
		11-210-2 - A/R HST Receivable	HST Tax Code	72.01	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	83.28 NL	725.07
022026 WS		16-710 - Dunchurch Hall -High S	Starlink - Internet	142.46	
		16-238 - Station 1 - Supplies	Amazon - Fire -Lenovo tab	24.42	
		16-110 - Admin - Office Supplies	Zoom - Communication	53.93	
		16-104 - Admin - Training Exper	AMCTO - Membership Fee	282.50	
		16-110 - Admin - Office Supplies	Costco - Supplies	104.97	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

ONLINE BANKING

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
		16-110 - Admin - Office Supplies	Costco - Supplies	64.99	
		16-126 - Admin - Communication	Mailchimp - Communication	37.41	
		16-113 - Admin - Office Equipment	Amazon	50.87	
		16-790 - Recreation Cmttee-Pro	Amazon	22.55	
		16-118 - Admin - Financial Expe	February Visa - Interest	0.13	
		11-210-2 - A/R HST Receivable	HST Tax Code	36.64	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	42.38	NL 820.87
			Payment Total:		<u>3,617.78</u>
			Total EFT:		<u>74,651.27</u>

EFT

Payment # Invoice #	Date	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
3546 WS2602	02/13/2026	Air Automotive Tracking 16-310 - Roads-Supplies GPS M	February Wireless	254.40	
		11-210-2 - A/R HST Receivable	HST Tax Code	28.10	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	32.50	NL 282.50
3547 24307	02/13/2026	Active Lock and Safe 16-151 - Office - Building Mainte	Supplies	595.30	
		11-210-2 - A/R HST Receivable	HST Tax Code	65.75	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	76.05	NL 661.05
3548 0000197525	02/13/2026	A.J. Stone Company Ltd. 16-210 - Fire - Miscellaneous	Repair	163.83	
		11-210-2 - A/R HST Receivable	HST Tax Code	18.10	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	20.93	NL 181.93
3549 45028	02/13/2026	Azimuth Environmental Consult 16-456 - York Landfill - Monitorir	Professional Fees - Monitor	437.78	
		11-210-2 - A/R HST Receivable	HST Tax Code	48.36	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	55.93	NL 486.14
3550 10769	02/13/2026	Blitz Electric 16-806 - Library - Building Maint	Service Call - repairs	225.53	
		11-210-2 - A/R HST Receivable	HST Tax Code	24.91	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	28.81	NL 250.44
3551 W202511	02/13/2026	Chris Kasulke Accrual 16-275 - By-Law Enforcement	By-Law Enforcement	1,750.00	1,750.00
3552 91828673 91824993	02/13/2026	Canadian National Non Freight 16-414 - Bunny Trail RR Crossir	Bunny Trail	403.50	403.50
		16-414 - Bunny Trail RR Crossir	Bunny Trail	403.50	403.50
			Payment Total:		<u>807.00</u>
3553 183077	02/13/2026	Duck Rock Resort Accrual 16-234 - Station 1 - Fuel & Oil	Fuel	150.71	
		11-210-2 - A/R HST Receivable	HST Tax Code	16.64	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	19.25	NL 167.35
183076	Accrual	16-320 - Garage - Mtc/Supplies/	Fuel and Supplies	10.13	
		16-320 - Garage - Mtc/Supplies/	Fuel and Supplies	4.53	
		11-210-2 - A/R HST Receivable	HST Tax Code	1.12	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	1.29	NL 15.78
183074	Accrual	16-320 - Garage - Mtc/Supplies/	Fuel - Gas and Supplies	24.56	
		16-408-1 - 2022 Dodge 2500 Fu	Fuel - Gas and Supplies	180.11	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

		EFT			
Payment #	Date	Vendor Name			
Invoice #		GL Account	GL Transaction Description	Detail Amount	Payment Amount
		11-210-2 - A/R HST Receivable	HST Tax Code	19.89	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	23.01	NL 224.56
183075	Accrual	16-110 - Admin - Office Supplies	Supples	18.12	18.12
183078	Accrual	16-279 - Building Dept Truck - F	Fuel - CBO	72.05	
		11-210-2 - A/R HST Receivable	HST Tax Code	7.95	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	9.20	NL 80.00
				Payment Total:	505.81
3554	02/13/2026	Fractal Saas Inc.			
110758		16-216 - Fire - Permits	Fire Permit Licence for 2026	2,544.00	
		11-210-2 - A/R HST Receivable	HST Tax Code	281.00	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	325.00	NL 2,825.00
110757	Accrual	16-216 - Fire - Permits	Fire Permit Licence 2024	2,544.00	
		11-210-2 - A/R HST Receivable	HST Tax Code	281.00	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	325.00	NL 2,825.00
				Payment Total:	5,650.00
3555	02/13/2026	Freightliner North Bay			
17469IN		16-402 - 2015 Freightliner Tandem	Parts	104.58	
		11-210-2 - A/R HST Receivable	HST Tax Code	11.55	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	13.36	NL 116.13
3556	02/13/2026	Glen Martin Limited			
429507		16-153 - Office - Janitorial Suppl	Supplies	179.76	
		11-210-2 - A/R HST Receivable	HST Tax Code	19.85	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	22.96	NL 199.61
429507-1		16-151 - Office - Building Mainte	Supplies	81.05	
		11-210-2 - A/R HST Receivable	HST Tax Code	8.95	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	10.35	NL 90.00
				Payment Total:	289.61
3557	02/13/2026	Griffith Bros. Service Centre			
95055		16-407-1 - 2022 Dodge 2500 PI	Repair	246.77	
		11-210-2 - A/R HST Receivable	HST Tax Code	27.26	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	31.53	NL 274.03
3558	02/13/2026	Iron Mountain Canada			
KZTG274		16-110 - Admin - Office Supplies	Shredding	19.55	
		11-210-2 - A/R HST Receivable	HST Tax Code	2.16	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	2.50	NL 21.71
3559	02/13/2026	Janice Bray			
January 2026		16-091 - Council - Travel	Roma Conference	271.04	
		16-091 - Council - Travel	Roma Conference	135.36	
		11-210-2 - A/R HST Receivable	HST Tax Code	14.52	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	16.79	NL 420.92
2026 EDA		16-093 - Council- Electronic Dev	2026 Electronic Device Allo	600.00	600.00
				Payment Total:	1,020.92
3560	02/13/2026	Kidd's Home Hardware			
2986122		16-703 - Dunchurch Hall - Bld M	Supplies	34.52	
		11-210-2 - A/R HST Receivable	HST Tax Code	3.81	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	4.41	NL 38.33
2986043		16-702 - Dunchurch Hall - Suppl	Supplies	40.56	
		11-210-2 - A/R HST Receivable	HST Tax Code	4.48	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	5.18	NL 45.04
				Payment Total:	83.37

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

EFT					
Payment #	Date	Vendor Name	GL Transaction Description	Detail Amount	Payment Amount
Invoice #		GL Account			
3561	02/13/2026	Joseph Lamb			
Feb 2026		16-091 - Council - Travel	Milage	52.56	52.56
3562	02/13/2026	Local Authority Services Ltd.			
MGBP00004538		16-110 - Admin - Office Supplies	Office Supplies	163.82	
		11-210-2 - A/R HST Receivable	HST Tax Code	18.10	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	20.93	NL 181.92
MGBP00004587		16-227 - Fire - Office Supplies	Supplies	468.87	
		11-210-2 - A/R HST Receivable	HST Tax Code	51.79	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	59.90	NL 520.66
MBBP00004592		16-110 - Admin - Office Supplies	Office Supplies	50.87	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.62	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	6.50	NL 56.49
MGBP00004666		16-110 - Admin - Office Supplies	Credit Supplies	-50.87	
		11-210-2 - A/R HST Receivable	HST Tax Code	-5.62	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	-6.50	NL -56.49
			Payment Total:		702.58
3563	02/13/2026	McDougall Energy			
ARI00866922		16-403 - 2015 Freightliner Tand	Diesel Clear	702.91	
		16-404-1 - 2017 Freightliner Sin	Diesel Clear	702.91	
		16-404-2 - 2020 Freightliner - Sr	Diesel Clear	702.91	
		16-411 - 2007 International - Fu	Diesel Clear	702.90	
		11-210-2 - A/R HST Receivable	HST Tax Code	310.56	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	359.19	NL 3,122.19
ARI00866891		16-427-1 - 2022 Backhoe -Fuel	Fuel - Diesel Dyed	1,051.46	
		16-439-2 - Hyundai Excavator Fi	Fuel - Diesel Dyed	1,051.45	
		11-210-2 - A/R HST Receivable	HST Tax Code	232.27	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	268.65	NL 2,335.18
			Payment Total:		5,457.37
3564	02/13/2026	North Bay Parry Sound District			
February 2026		16-549 - Health Unit Operating (February 2026 Levy	2,790.50	2,790.50
3565	02/13/2026	My-Tech Information Technology			
Jan 31 2026		16-115 - Admin - Computer Supj	IT Support	1,169.43	
		11-210-2 - A/R HST Receivable	HST Tax Code	129.17	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	149.40	NL 1,298.60
3566	02/13/2026	Near North Industrial Solution			
105497		16-404-3 - 2020 Freightliner Sn	Repairs	978.45	
		11-210-2 - A/R HST Receivable	HST Tax Code	108.08	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	125.00	NL 1,086.53
105487		16-421 - 2010 Grader - Mainten	Supplies	380.92	
		11-210-2 - A/R HST Receivable	HST Tax Code	42.07	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	48.66	NL 422.99
			Payment Total:		1,509.52
3567	02/13/2026	The Flag Store			
86174		16-320 - Garage - Mtc/Supplies/	Custom Whitestone Flags	180.37	
		16-702 - Dunchurch Hall - Suppl	Custom Whitestone Flags	180.37	
		16-446 - York Landfill - Supplies	Custom Whitestone Flags	180.37	
		16-466 - Auld Landfill - Supplies	Custom Whitestone Flags	180.37	
		11-210-2 - A/R HST Receivable	HST Tax Code	79.69	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	92.17	NL 801.17
3568	02/13/2026	Parry Sound Auto Parts Co Ltd			

**Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028**

Payment #	Date	Vendor Name	EFT	GL Transaction Description	Detail Amount	Payment Amount
Invoice #		GL Account				
2-1224435		16-243 - Station 1-Snowmobile I		Parts	73.26	
		11-210-2 - A/R HST Receivable		HST Tax Code	8.09	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	9.36	NL 81.35
2-1224398		16-243 - Station 1-Snowmobile I		Parts	52.11	
		16-264 - Station 2 - Snowmobile		Parts	52.11	
		11-210-2 - A/R HST Receivable		HST Tax Code	11.51	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	13.31	NL 115.73
				Payment Total:		197.08
3569	02/13/2026	Ricoh Canada Inc.				
SCO95162066		16-113 - Admin - Office Equipme		Copier Usage	200.12	
		11-210-2 - A/R HST Receivable		HST Tax Code	22.10	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	25.56	NL 222.22
3570	02/13/2026	Realtax Inc.				
111930		16-120 - Admin - Legal Expense		Legal Services -	1,488.21	1,488.21
3571	02/13/2026	Michael Skof, Prosecutor				
25731	Accrual	16-120 - Admin - Legal Expense		Legal Services September	1,377.58	
		11-210-2 - A/R HST Receivable		HST Tax Code	152.16	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	175.99	NL 1,529.74
3572	02/13/2026	Town of Parry Sound				
IVC000000240	Accrual	16-455 - York Landfill -Hazardou		Hazardous Waste	2,869.35	2,869.35
3573	02/13/2026	Vianet				
Feb 1 2026		16-321 - Garage - High Speed Ir		Internet	106.80	
		16-720 - Maple Is. Hall - Teleph		Internet	106.80	
		16-457-1 - York Landfill - Interne		Internet	160.72	
		11-210-2 - A/R HST Receivable		HST Tax Code	41.35	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	47.82	NL 415.67
3574	02/13/2026	The Water Healer Corp.				
1182		16-778 - Water Maintenance		PAC 5 Gallon	1,096.97	
		11-210-2 - A/R HST Receivable		HST Tax Code	121.17	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	140.14	NL 1,218.14
3575	02/17/2026	Canadian Union of Public				
Jan 2026		12-338 - CUPE-Union Dues		January 2026 CUPE Remitt	986.35	986.35
3576	02/27/2026	Adams Bros Construction Ltd				
188671		16-452 - York Landfill - Maintena		Service Customer Owned T	101.76	
		11-210-2 - A/R HST Receivable		HST Tax Code	11.24	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	13.00	NL 113.00
3577	02/27/2026	Azimuth Environmental Consult				
44760	Accrual	16-478 - Auld's Landfill - Monito		Professional Fees - Monitor	1,413.19	
		11-210-2 - A/R HST Receivable		HST Tax Code	156.09	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	180.53	NL 1,569.28
3578	02/27/2026	Deborah Comrie				
Dec 29 2025	Accrual	16-790 - Recreation Cmttee-Pro		Rec Supplies	59.00	
		16-790 - Recreation Cmttee-Pro		Rec Supplies	315.40	
		16-790 - Recreation Cmttee-Pro		Rec Supplies	9.64	
		16-790 - Recreation Cmttee-Pro		Rec Supplies	53.12	
		16-790 - Recreation Cmttee-Pro		Rec Supplies	69.05	
		11-210-2 - A/R HST Receivable		HST Tax Code	55.91	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

Payment #	Date	Vendor Name	EFT	GL Transaction Description	Detail Amount	Payment Amount
Invoice #		GL Account				
		99-999-1 - HST (Statistical) Non-		HST Tax Code	64.66 NL	562.12
Feb 16 2026		16-790 - Recreation Cmttee-Pro		Family Day Supplies	246.35	
		16-790 - Recreation Cmttee-Pro		Family Day Supplies	11.03	
		11-210-2 - A/R HST Receivable		HST Tax Code	1.01	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	1.17 NL	258.39
				Payment Total:		820.51
3579	02/27/2026	Fisher's Regalia & Uniform				
58617		16-222 - Fire - Bunker/Safety/Ur		Pants	86.50	
		11-210-2 - A/R HST Receivable		HST Tax Code	9.55	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	11.05 NL	96.05
3580	02/27/2026	Ideal Supply Company Ltd.				
6530196		16-421 - 2010 Grader - Mainten:		Part	327.65	
		11-210-2 - A/R HST Receivable		HST Tax Code	36.19	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	41.86 NL	363.84
6530747		16-421 - 2010 Grader - Mainten:		Part	117.00	
		11-210-2 - A/R HST Receivable		HST Tax Code	12.93	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	14.95 NL	129.93
6530182		16-421 - 2010 Grader - Mainten:		Supplies	148.57	
		11-210-2 - A/R HST Receivable		HST Tax Code	16.41	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	18.98 NL	164.98
6546691		16-409 - 2007 International-Mair		Supplies	100.62	
		16-404-3 - 2020 Freightliner Sn		Supplies	100.62	
		16-404-1 - 2017 Freightliner Sin		Supplies	100.62	
		11-210-2 - A/R HST Receivable		HST Tax Code	33.34	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	38.56 NL	335.20
6551029		16-421 - 2010 Grader - Mainten:		Part	430.70	
		11-210-2 - A/R HST Receivable		HST Tax Code	47.57	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	55.02 NL	478.27
				Payment Total:		1,472.22
3581	02/27/2026	Janet Jackson				
Feb 12 2026		16-798 - After School Program		Jan 29 ASP	57.85	57.85
Feb 6 2026		16-798 - After School Program		Feb 4 - Feb 6 extra day	231.40	231.40
Feb 13 2026		16-798 - After School Program		Feb 11 - Feb 12 ASP	115.70	115.70
				Payment Total:		404.95
3582	02/27/2026	Jenn Gerlach				
2910		16-108 - Admin - Advertising		February Newsletter 2026	350.00	350.00
3583	02/27/2026	Local Authority Services Ltd.				
MGBP00004855		16-110 - Admin - Office Supplies		Supplies	120.06	
		11-210-2 - A/R HST Receivable		HST Tax Code	13.26	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	15.34 NL	133.32
MGBP00004841		16-110 - Admin - Office Supplies		Supplies	53.16	
		11-210-2 - A/R HST Receivable		HST Tax Code	5.87	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	6.79 NL	59.03
MGBP00004773		16-110 - Admin - Office Supplies		Supplies	78.77	
		11-210-2 - A/R HST Receivable		HST Tax Code	8.70	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	10.06 NL	87.47
				Payment Total:		279.82
3584	02/27/2026	Loopstra Nixon LLP				
192068		16-120 - Admin - Legal Expense		Fees -	2,445.41	
		11-210-2 - A/R HST Receivable		HST Tax Code	270.11	
		99-999-1 - HST (Statistical) Non-		HST Tax Code	312.41 NL	2,715.52

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

		EFT			
Payment #	Date	Vendor Name			
Invoice #		GL Account	GL Transaction Description	Detail Amount	Payment Amount
3585	02/27/2026	Magnetawan Building Centre Ltd			
101-178540		16-110 - Admin - Office Supplies	Supplies	22.47	22.47
3586	02/27/2026	McDougall Energy			
ARI00930517		16-427-1 - 2022 Backhoe -Fuel	Diesel Dyed	445.61	
		16-423 - 2010 Grader - Fuel	Diesel Dyed	445.61	
		16-439-2 - Hyundai Excavator F	Diesel Dyed	445.59	
		11-210-2 - A/R HST Receivable	HST Tax Code	147.66	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	170.78	NL 1,484.47
ARI00926305		16-408-1 - 2022 Dodge 2500 Ft	Regular Gas	240.11	
		16-394-2 - 2018 Dodge Ram 20	Regular Gas	240.12	
		16-776 - 2016 Facilities Truck - I	Regular Gas	240.12	
		11-210-2 - A/R HST Receivable	HST Tax Code	79.57	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	92.03	NL 799.92
ARI00930899		16-408-1 - 2022 Dodge 2500 Ft	Regular Gas	119.62	
		16-394-2 - 2018 Dodge Ram 20	Regular Gas	119.62	
		16-776 - 2016 Facilities Truck - I	Regular Gas	119.61	
		11-210-2 - A/R HST Receivable	HST Tax Code	39.63	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	45.84	NL 398.48
ARI00930898		16-404-2 - 2020 Freightliner - Sr	Diesel Clear	892.10	
		16-404-1 - 2017 Freightliner Sin	Diesel Clear	892.10	
		16-403 - 2015 Freightliner Tand	Diesel Clear	892.10	
		16-411 - 2007 International - Fu	Diesel Clear	892.09	
		11-210-2 - A/R HST Receivable	HST Tax Code	394.15	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	455.87	NL 3,962.54
			Payment Total:		6,645.41
3587	02/27/2026	MHBC Planning LTD			
5038853		16-843 - Planning & Developmei	Short Term Rental By-law	2,567.92	
		11-210-2 - A/R HST Receivable	HST Tax Code	283.64	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	328.06	NL 2,851.56
5038854		16-844 - Planning-Capital-Offici	Official Plan Update	2,612.69	
		11-210-2 - A/R HST Receivable	HST Tax Code	288.59	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	333.78	NL 2,901.28
5038565	Accrual	16-844 - Planning-Capital-Offici	Official Plan Update Sep-Dc	1,784.61	
		11-210-2 - A/R HST Receivable	HST Tax Code	197.12	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	227.99	NL 1,981.73
			Payment Total:		7,734.57
3588	02/27/2026	Moore Propane Limited			
9021076		16-150 - Office - Heating/Hydro	Liquid Propane - 21 Church	1,586.59	
		11-210-2 - A/R HST Receivable	HST Tax Code	175.25	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	202.69	NL 1,761.84
9021078		16-457 - York Landfill - Heating	Liquid Propane - York LDF	110.16	
		11-210-2 - A/R HST Receivable	HST Tax Code	12.16	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	14.07	NL 122.32
9021070		16-329 - Garage - Heating	Liquid Propane - Garage	1,728.42	
		11-210-2 - A/R HST Receivable	HST Tax Code	190.91	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	220.81	NL 1,919.33
9021074		16-704 - Dunchurch Hall - Heati	Liquid Propane - CC	775.33	
		11-210-2 - A/R HST Receivable	HST Tax Code	85.64	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	99.05	NL 860.97
9021075		16-741-1 - Pavilion-Heating	Liquid Propane - Pavilion	174.30	
		11-210-2 - A/R HST Receivable	HST Tax Code	19.25	

**Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028**

EFT					
Payment #	Date	Vendor Name	GL Transaction Description	Detail Amount	Payment Amount
Invoice #		GL Account			
		99-999-1 - HST (Statistical) Non-	HST Tax Code	22.27 NL	193.55
				Payment Total:	4,858.01
3589	02/27/2026	Near North Laboratories Inc.			
2600045		16-779 - Water Testing	Water Testing	46.61	
		11-210-2 - A/R HST Receivable	HST Tax Code	5.14	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	5.95 NL	51.75
3590	02/27/2026	OMERS			
Jan 2026		12-339 - OMERS	January 2026 OMERS	17,318.18	17,318.18
3591	02/27/2026	Parry Sound Auto Parts Co Ltd			
1-3108070		16-248 - Stat 1 - Pumper #1 Ins	Supplies	24.01	
		11-210-2 - A/R HST Receivable	HST Tax Code	2.65	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	3.07 NL	26.66
1-3108748		16-320 - Garage - Mtc/Supplies/	Tank Rental	88.53	
		11-210-2 - A/R HST Receivable	HST Tax Code	9.78	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	11.31 NL	98.31
				Payment Total:	124.97
3592	02/27/2026	Sands Canada Inc.			
00732118		16-252 - Station 2 - Minor Purch	Supplies	213.70	
		11-210-2 - A/R HST Receivable	HST Tax Code	23.60	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	27.30 NL	237.30
3593	02/27/2026	Sling-Choker Safety &			
115041		16-320 - Garage - Mtc/Supplies/	Supplies	393.40	
		11-210-2 - A/R HST Receivable	HST Tax Code	43.45	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	50.26 NL	436.85
3594	02/27/2026	Michael Skof, Prosecutor			
025731		16-120 - Admin - Legal Expense	Legal Services - January 20	2,039.02	
		11-210-2 - A/R HST Receivable	HST Tax Code	225.22	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	260.49 NL	2,264.24
3595	02/27/2026	Wurth Canada Limited			
26790902		16-320 - Garage - Mtc/Supplies/	Supplies	142.41	
		11-210-2 - A/R HST Receivable	HST Tax Code	15.73	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	18.19 NL	158.14
26786606		16-320 - Garage - Mtc/Supplies/	Supplies	774.86	
		11-210-2 - A/R HST Receivable	HST Tax Code	85.59	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	98.99 NL	860.45
				Payment Total:	1,018.59
				Total EFT:	82,453.39

PROPOSED PAYMENTS

Payment #	Vendor Name	GL Account	GL Transaction Description	Detail Amount	Payment Amount
Invoice #					
PP - 3596	Air Automotive Tracking				
WS2603		16-310 - Roads-Supplies GPS M	March Wireless	254.40	
		11-210-2 - A/R HST Receivable	HST Tax Code	28.10	
		99-999-1 - HST (Statistical) Non-	HST Tax Code	32.50 NL	282.50
PP - 3597	Adams Bros Construction Ltd				
188766		16-473 - Auld Landfill - Maintena	Service Customer Owned T	101.76	
		16-452 - York Landfill - Maintena	Service Customer Owned T	101.76	
		11-210-2 - A/R HST Receivable	HST Tax Code	22.48	

Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028

PROPOSED PAYMENTS

Payment # Invoice #	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
188759	99-999-1 - HST (Statistical) Non-	HST Tax Code	26.00 NL	226.00
	16-459 - York Landfill - Bulk Wa:	Empty & Return Bin - York	909.43	
	11-210-2 - A/R HST Receivable	HST Tax Code	100.45	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	116.18 NL	1,009.88
		Payment Total:		1,235.88
PP - 3598	Azimuth Environmental Consult			
45146	16-478 - Auld's Landfill - Monito	Professional Fees - Monitor	503.71	
	11-210-2 - A/R HST Receivable	HST Tax Code	55.64	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	64.35 NL	559.35
PP - 3599	Fire Marshal's Public Fire			
IN170538	16-208 - Fire - Prevention/Educa	Detect Combo Alarm	465.61	
	11-210-2 - A/R HST Receivable	HST Tax Code	51.43	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	59.48 NL	517.04
PP - 3600	Freightliner North Bay			
17768IN	16-402 - 2015 Freightliner Tand	Part	613.82	
	11-210-2 - A/R HST Receivable	HST Tax Code	67.80	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	78.42 NL	681.62
PP - 3601	Georgian Bay Overhead Doors			
1318	16-239 - Station 1 - Building Mtc	Repair - Fire Hall Door	815.89	
	11-210-2 - A/R HST Receivable	HST Tax Code	90.13	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	104.24 NL	906.02
1303	16-239 - Station 1 - Building Mtc	Install/Repair Fire Hall Door	393.81	
	11-210-2 - A/R HST Receivable	HST Tax Code	43.50	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	50.31 NL	437.31
		Payment Total:		1,343.33
PP - 3602	Ideal Supply Company Ltd.			
6569875	16-394-1 - 2018 Dodge Ram M	Part	270.68	
	11-210-2 - A/R HST Receivable	HST Tax Code	29.90	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	34.58 NL	300.58
PP - 3603	Iron Mountain Canada			
LCDY355	16-110 - Admin - Office Supplies	Shredding	95.06	
	11-210-2 - A/R HST Receivable	HST Tax Code	10.50	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	12.14 NL	105.56
PP - 3604	Jamie Osborne			
Jan 14/26	16-291-1 - Bld Official-Mileage	Mileage - OBOA Chapter M	119.52	119.52
PP - 3605	Janet Jackson			
Feb 19 2026	16-798 - After School Program	Feb 17 - Feb 19 ASP	173.55	173.55
Feb 26 2026	16-798 - After School Program	Feb 24 - Feb 26 ASP	115.70	115.70
		Payment Total:		289.25
PP - 3606	Kootenay Murphy Holding Ltd.			
INV-0197	16-267 - Fire Pro	FirePro2 Service Contract M	2,035.20	
	11-210-2 - A/R HST Receivable	HST Tax Code	224.80	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	260.00 NL	2,260.00
PP - 3607	Mac Lang (Sundridge) Limited			
215983	16-407-1 - 2022 Dodge 2500 PI	Repairs	1,948.91	
	11-210-2 - A/R HST Receivable	HST Tax Code	215.27	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	248.98 NL	2,164.18
PP - 3608	Magnetawan Building Centre Ltd			

**Municipality of Whitestone
List of Accounts for Approval
Batch: 2026-00013 to 2026-00028**

PROPOSED PAYMENTS

Payment # Invoice #	Vendor Name GL Account	GL Transaction Description	Detail Amount	Payment Amount
101-178731	16-703 - Dunchurch Hall - Bld M	Supplies	41.69	
	11-210-2 - A/R HST Receivable	HST Tax Code	4.61	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	5.33	NL 46.30
PP - 3609	Moore Propane Limited			
163007403	16-479 - Auld Landfill - Heating	Liquid Propane - Auld LDF	79.98	
	11-210-2 - A/R HST Receivable	HST Tax Code	8.84	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	10.22	NL 88.82
163007404	16-256 - Station 2 - Heating	Liquid Propane - Ardbeg Fir	369.62	
	11-210-2 - A/R HST Receivable	HST Tax Code	40.83	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	47.22	NL 410.45
		Payment Total:		499.27
PP - 3610	North Bay Parry Sound District			
March 2026	16-549 - Health Unit Operating (March 2026 Levy	2,790.50	2,790.50
PP - 3611	My-Tech Information Technology			
Feb 28 2026	16-115 - Admin - Computer Supp	IT Support	1,169.43	
	11-210-2 - A/R HST Receivable	HST Tax Code	129.17	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	149.40	NL 1,298.60
PP - 3612	Ricoh Canada Inc.			
SCO95195193	16-113 - Admin - Office Equipme	Copier Usage	717.72	
	11-210-2 - A/R HST Receivable	HST Tax Code	79.28	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	91.69	NL 797.00
PP - 3613	Sundridge Laundromat			
1358	16-702 - Dunchurch Hall - Suppl	Wash, Dry, Fold & Iron Tabl	489.47	
	11-210-2 - A/R HST Receivable	HST Tax Code	54.07	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	62.54	NL 543.54
PP - 3614	Sun Life Assurance Company of Canada			
00278411	16-101 - Admin- Benefits	EAP	42.74	
	11-210-2 - A/R HST Receivable	HST Tax Code	4.72	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	5.46	NL 47.46
PP - 3615	Telizon Inc.			
0631912026021	16-109 - Admin - Telephone	Long Distance	4.83	
	16-237 - Station 1 - Telephone	Long Distance	4.78	
	16-803 - Library - Expenses	Long Distance	0.15	
	11-210-2 - A/R HST Receivable	HST Tax Code	1.08	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	1.25	NL 10.84
PP - 3616	Vianet			
Mar 1 2026	16-321 - Garage - High Speed Ir	Internet	106.80	
	16-720 - Maple Is. Hall - Teleph	Internet	106.80	
	16-457-1 - York Landfill - Interne	Internet	160.72	
	11-210-2 - A/R HST Receivable	HST Tax Code	41.35	
	99-999-1 - HST (Statistical) Non-	HST Tax Code	47.82	NL 415.67

Report prepared for Council March 9, 2026

Total Proposed Payments: 16,307.99

Jessica Sinkowski

Total AP: 454,669.20

STAFF REPORTS



Municipality of Whitestone

Report to Council

Prepared for: Council

Department: Public Works

Agenda Date: March 17, 2026

Report No: PW-2026-01

Subject:

2025 Landfill Monitoring Program Dunchurch – (York Street) and Aulds Road Landfill sites

Recommendation:

THAT the Council of the Municipality of Whitestone receives Report PW-2026-01 (2025 Landfill Monitoring Program Dunchurch (York Street) and Aulds Road Landfill sites) for information.

Background:

Both the Dunchurch (York Street) and Aulds Road landfill sites are monitored annually by Azimuth Environmental Consulting Inc. The monitoring program for both sites was completed in 2025 with site visits on April 24th, August 12th and October 28th.

For the Dunchurch (York Road) site, the work completed included ground water samples collected from eight monitoring wells. Samples were also collected from three surface water locations.

This monitoring program generally matches what was proposed in the Design and Operations Plan and Environmental Compliance Approval (ECA) # A521501.

For the Aulds Road site, the work completed included ground water samples collected from three downgradient monitoring wells. Samples were also collected from three surface water locations. It is noted that this monitoring program matches what was proposed in the Design and Operations Plan submitted to the Ministry of Environment, Conservation & Parks (MECP) in March 2018 as no formal monitoring requirements are established within Environmental Compliance Approval (ECA) #A7101302.

Analysis:

Fill rates and remaining capacity

Dunchurch (York Street)

Calculations undertaken indicate that there was a reduction in overall volume at the site of 273m³ between October 2024 and October 2025, which was a result of excavation and compaction completed in the fall.

Given the current (October 2025) remaining capacity of the site is 10,300 m³ and an average annual fill rate of ~400 to 1,000 m³, the site has an estimated remaining lifespan of approximately 10 to 25 years.

Aulds Road

The 2025 volume is lower than the typical range due to the fact that a large amount of clean wood and yard waste were unable to be surveyed as they were in large piles in preparation for grinding and relocating. As a result, the 2026 volume will likely be higher, accounting for these wastes.

Given the current waste volume of 15,349 m³, remaining capacity of the site is 15,981 m³ and an average annual fill rate of 300 m³ to 600 m³, the site has an estimated remaining lifespan of approximately 25 to 50 years, which represents approximately 53% of the total capacity (30,000 m³).

Summary - Effective Operations

Dunchurch (York Street)

Overall, and aside from some minor issues, the site is operating effectively as a small northern natural attenuation landfill site should be and is currently in compliance with the ECA from an environmental perspective (i.e. ground and surface water quality).

Aulds Road

Overall, the site is operating effectively, despite some minor deficiencies identified and fits with typical operations for a small northern natural attenuation landfill Site.

Respectfully submitted by:

Original signed by M Huggins

Mike Huggins
Manager of Public Works

Reviewed by:



NigeJ/Black
CAO/Clerk

Attachments:

- Attachment A - Technical Memorandum from Azimuth Environmental Consulting Inc. dated February 26, 2026 (2025 Dunchurch Landfill Monitoring Program Summary)
- Attachment B - 2023-2025 Performance Monitoring Report Aulds Road Landfill Site dated February 2026



Technical Memorandum

To: Mike Huggins, Municipality of Whitestone

Re: 2025 Dunchurch Landfill Monitoring Program Summary

From: Colin Ross, Azimuth Environmental Consulting Inc.

Project: 25-011

Date: February 26, 2026

The purpose of this memorandum is to provide a brief summary of the current status of the Dunchurch Landfill Site (Site) with respect to the environmental monitoring and compliance, lifespan and some operational items. This Site has been operated by the Municipality of Whitestone (Municipality) since 2000, while operations originated more than 60 years ago.

ENVIRONMENTAL MONITORING

The monitoring program was completed in 2025 with site visits completed on April 24th, August 12th and October 28th. The work completed included ground water samples collected from seven monitoring wells. Samples were also collected from three surface water locations, where sufficient water was able to be collected. It is noted that this monitoring program matches what was proposed in the Design and Operations Plan and Environmental Compliance Approval (ECA) # A521501, with the exception of samples not able to be collected at MW107-S and MW107-D as these wells had previously been damaged and plugged due to active operations in the area of the monitor. Work was completed at MW107D to try and repair this well, which facilitated sample collected in April, but the well had a high sediment load in October which kept plugging the sample tubing. As such, it is likely that the monitor has been damaged subsurface limiting the potential for this monitor to be properly repaired. Given the area of MW107 is central to the current and future filling of the landfill, it is not recommended that these monitors be replaced and likely should be decommissioned. Replacement could be considered, but it would be recommended that it is relocated to an area which has reached capacity to limit the potential for damage in the future. Given the active work being completed to grade and cap the remainder of the waste mound, it is recommended that a replacement could be constructed in that area once complete in 2026/2027.

The following provides a summary of the environmental monitoring program for 2025, while a formal monitoring report is not due to the Ministry of Environment,



Conservation & Parks (MECP) until March 31st, 2027, summarizing the 2024 – 2026 monitoring data.

Ground Water:

The ground water quality collected from the seven monitoring wells during 2025 indicated results very similar to previous years with the exception of a very subtle but steady increasing chloride trend at MW103. Leachate influence is apparent immediately north (MW104) of the landfill, which now represents the leachate quality at the Site given the dedicated leachate monitors MW107-S & D have become damaged. Given that MW104-S & D are located immediately downgradient of the toe of waste, they are considered representative locations for tracking leachate changes at the Site over time, as well prior to entering the adjacent wetland feature. Subtle upwards trends are noted at these locations as well, however, are quite muted. This is likely due to the fact that the underlying soils at the Site and wetland are silt and clay with limited permeability.

Overall, the consistency in data and lack of meaningful leachate influence beyond MW104 would confirm attenuation is active within the forested wetland downgradient of the waste mound, where the most distant boundary monitoring wells (MW101 /102) do not indicate any obvious leachate influence. Based on the local geology, including observed bedrock outcrop ridges that surround the landfill, it has been interpreted that ground water flow is north into the forested wetland and then west, bound between large bedrock outcrops north and south of the Site. Ground water flow within this shallow bedrock trough is very slow owing to the clay soils which underlie the wetland.

Compliance for ground water is established through MECP Guideline B-7 (Reasonable Use Policy [RUP]). The criteria are calculated using both background concentrations and Ontario Drinking Water Quality Standards (ODWQS). Based on the previously established RUP values for the Site relating to leachate indicator parameters, RUP is met for all parameters at downgradient monitors with the exception of iron and manganese, which are consistently above ODWQS and aluminum, which exceeds on occasion. However, the use of iron, aluminum and manganese as leachate indicators is open to some interpretation in a peat-rich wetland environment downgradient of the landfill. Wetland conditions are present in all of the downgradient monitoring well locations such that anaerobic / reducing conditions are created which can increase the dissolution potential for abundant earth elements such as iron, manganese or aluminum creating elevated parameter concentrations. Similarly, it is noted that DOC is not utilized as a RUP parameter given that it exceeds ODWQS in the background water quality such that its natural elevation does not allow for RUP values to be calculated.



Surface Water:

Surface water samples were collected from the three established locations during the spring, summer and fall monitoring events, although the summer event usually does not permit sample collection due to dry locations, which was also observed 2025 such that only spring and fall samples were collected. SW-1 is the background location and represents surface water at Booth Road before it flows towards and past the waste mound. SW-2 is located near the waste mound, while SW-3 is located at the downstream end of the Site. Although no defined surface water flows are observed north of the landfill in the wetland, the majority of the area is typically saturated, likely due to the limited overburden depth and poor drainage created by the numerous bedrock ridges that are present on and surrounding the property. Water quality at these locations indicates that leachate impacts are not observed at SW-1 (background), while leachate influence is observed at SW-2 and SW-3, with concentrations being noted to decline with distance from the waste area.

SW-3, which represents the interpreted downgradient / downstream property boundary of the landfill has indicated measurable leachate influence, although concentrations are largely reduced from those observed closer to the waste mound (SW2) indicating that attenuation is occurring within the forested wetland area. Compliance criteria, namely Provincial Water Quality Objectives (PWQO) were exceeded at SW2 for boron, iron, lead, aluminum, cadmium, copper, vanadium, zinc and total phosphorus, while SW3 had exceedances for total phosphorus, aluminum, boron and iron. However, the majority of these are associated with the October results which had an elevated total suspended solids concentration (2,360 mg/L at SW2 and 16 mg/L at SW3). The elevated suspended solids are associated with sediment entrainment during sample collection when water depths are shallow and sediment free samples are not achievable. The sample bottles are provided by the lab with a preservative (usually a concentrated acid) which can leach trace metals and phosphorus that are typically bound to the particulate collected with the water sample. As such, these exceedances are more reflective of these stagnant conditions and not of the dissolved component within the surface water.

The exception to this is boron, which is less influenced by sediment entrainment and more directly related to landfill sources. However, despite the elevated boron concentrations, caution should be exercised when evaluating boron compliance with PWQO. Given the interim nature of the PWQO criteria for boron, MECP Standards Branch indicate that given the limited toxicology dataset that was utilized during development of the criteria that the Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life (CCME, 2003) value is more appropriate to use as it utilized a more robust toxicological dataset and was developed by the MECP. As such, the CWQG value for boron for long term exposure is 1.5 mg/L, which is met at all downstream surface water stations for the period of record at the Site.



Based on the results in 2025, the Site is considered in compliance with respect to surface water criteria, with all exceedances not attributed to the landfill operations. This follows in line with the historical data and interpretation presented in previous landfill monitoring reports.

Beyond compliance, it is understood that there has been concern raised with respect to potential contributions of the landfill to recent blue-green algae blooms observed in Whitestone Lake, which is located approximately 230 m west of the landfill site. Ultimately, Whitestone Lake is the receptor for ground and surface water discharge originating from the landfill site through a wetland area that extends west from the landfill site approximately 1 km to the lake as illustrated in the appended site figure.

As noted previously, the ground water quality data at the Site boundary indicate no obvious leachate influence, which is mainly attributable to the limited size of landfill and limited permeability of the underlying soils which would create significant attenuation, as evidenced by the monitoring data collected to date.

Leachate influence is more observable within the downstream surface water, although the attenuative capacity of the wetland downgradient of the landfill has shown to limit the degree of leachate influence prior to leaving the site. As blue-green algae growth is mainly sourced to elevated nutrient levels, specifically phosphorus, present or entering a surface water feature, a review was completed for phosphorus concentrations, which are analyzed for as part of the seasonal monitoring program at the landfill site. Total phosphorus concentrations can fluctuate over time, with elevated TSS concentrations creating a source for isolated elevations in both upstream (SW1) and downstream locations (SW3). However, when reviewing the results, if sampling events where the TSS concentrations are above 10 mg/L (elevated sediment content), the concentrations indicate no measurable difference in concentrations with average total phosphorus concentrations over the past five years being 0.04 mg/L in both the upstream (SW1) and downstream locations (SW3) very similar concentrations between up and downstream locations suggesting the landfill is not creating nutrient loading to the downstream wetland. Although these concentrations are still above the PWQO value of 0.03 mg/L, it would indicate the slight elevations are the result of natural sources, which likely include decay of organic matter within the wetland area both up and downstream of the waste area. As such, it is determined that the landfill operations are not having a measurable influence on the total phosphorus concentrations within Whitestone Lake.



OPERATIONS

Annual Fill Rate / Site Capacity:

Similar to previous years, a total station survey was completed on the waste mound such that cut and fill calculations could be completed using previous year's surveys. These calculations indicated that there was a reduction in overall volume at the Site of 273 m³ between October 2024 and October 2025, which was the result of excavation of an area of clean sand fill material from the southwestern section of the waste area. This material had been intended to be removed prior to infilling of this area in ~2015, but was left in place and filled around and on top. This material was removed from the active area, but left on Site with the intent of using this material for future interim cover material, thus removing the need for importation of material into the Site.

A more comprehensive survey was completed in 2025 to cover the northern, western and southwestern boundaries of the waste mound where much of the fill removal and regrading has taken place of the past two years. This surveyed surface was compared to the final contours for the Site, which calculated a remaining volumetric capacity (waste and interim cover) of 10,300 m³. Given this remaining volume and an average annual fill rate of ~400 to 1,000 m³, the Site has an estimated remaining lifespan of approximately 10 to 25 years. It is noted that this is a working target volume, which will be re-assessed annually as the Township works to grade and cover the perimeter of the waste mound such that the Site contours will be established to match the proposed final closure grades and the working area can be focused to the centre of the Site where the bulk of the remaining capacity exists. It is noted that this work may require additional interim cover material to be added to achieve proper, footprint & slope placement such that reductions in lifespan are realized over the next two years. However, this shift to a smaller working area and covering of a larger component of the waste mound will help to reduced leachate generation and reduce the volume of interim cover material required over the longer term which could increase or maintain the current lifespan estimates.

To help to support the regrading and capping activities currently being undertaken by the Municipality, some cross-section illustrations for the working area have been appended to assist in targeting areas where grades need to be adjusted and where capacity exists to move waste along the perimeter of the approved footprint area.

Site Inspections:

An inspection of the Site was completed during each Site visit. The monitoring well network appeared to be in good working order, with the exception of MW107, of which the shallow monitor MW107-S has become plugged since the extension was added in 2020, while the MW107-D has a broken riser pipe within the casing which makes it difficult to purge and sample. It is unlikely the shallow monitoring well can be repaired



given the plug or break in monitor is >3 m below ground surface. However, attempts were made to stabilize the pipe for MW107-D in 2024. Sampling in October still could not be completed due to elevated sediment present within the well that likely occurred when the pipe was broken / repaired. Azimuth attempted to clean out the monitoring well during the April 2025 monitoring event and was able to collect a sample, but by October, the sediment issues limited the ability to collect a sample. As such, it is our interpretation that the monitor cannot be rehabilitated. As noted previously, the remaining monitoring network is considered sufficient to evaluate the leachate and ground water quality surrounding the waste mound. However, the MECP may recommend that the leachate monitors be replaced. Regardless, if not in use, these wells should be properly decommissioned, which can be completed once direction is provided from the MECP. If required to be replaced, it would be our recommendation to wait until the current Site grading and capping activities are completed such that a replacement could be installed in an area of the mound that is protected from future infilling, grading and capping work.

As discussed with Municipality over the past several years, it has been recommended that additional cover material be added to the north slope of the landfill to ensure all non active waste areas are covered. The surface water quality adjacent to the landfill indicates that increased leachate runoff may be impacting the downstream water quality in proximity to the waste mound, as such, this action may provide mitigation. Also, as the ECA requires this to be covered and a recent MECP Site inspection had included this as a requirement, the Municipality should continue with this work as was initiated in 2024. As noted in previous reporting, this would include grading of the north slope, as well as all remaining non active area (i.e., east slope) to the design slopes of ~4:1. Once those grades have been achieved, O.Reg. 347 requirements for final capping of a landfill include the addition of a low permeability soil (silt / clay) with a minimum depth of 600 mm to limit infiltration and leachate generation. Atop this final cover, a 150 mm thick layer of topsoil should be applied with seeding such that vegetation is established to reduce potential for erosion.

In addition to the items noted above the MECP had identified a few other items needing to be addressed as outlined in their March 2024 inspection report. These included the following:

North Slope Cover Material Addition: Discussed above.

Registering of Landfill Site on Property Title: It is understood that the Municipality is in the process of satisfying this requirement.

Removal of All Wind Entrained Waste / Litter Surrounding Waste Footprint: The

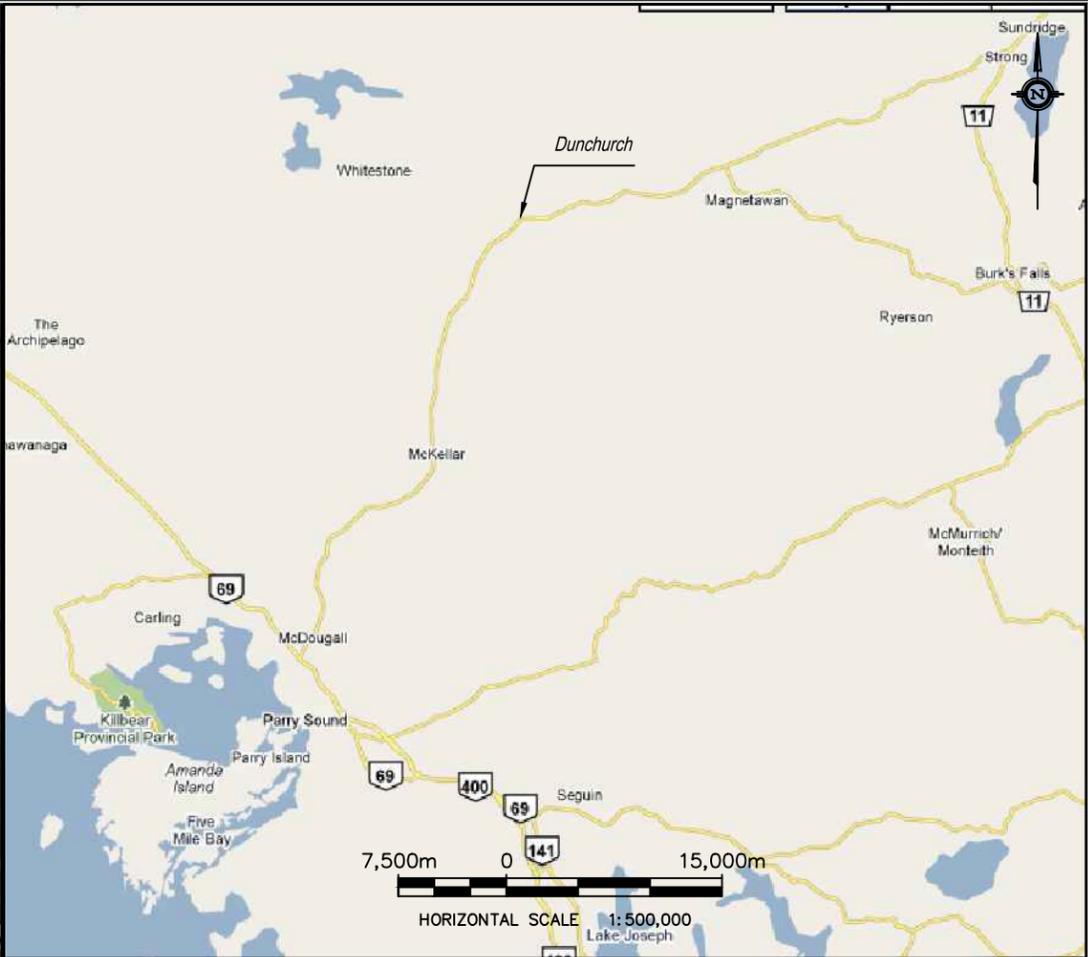
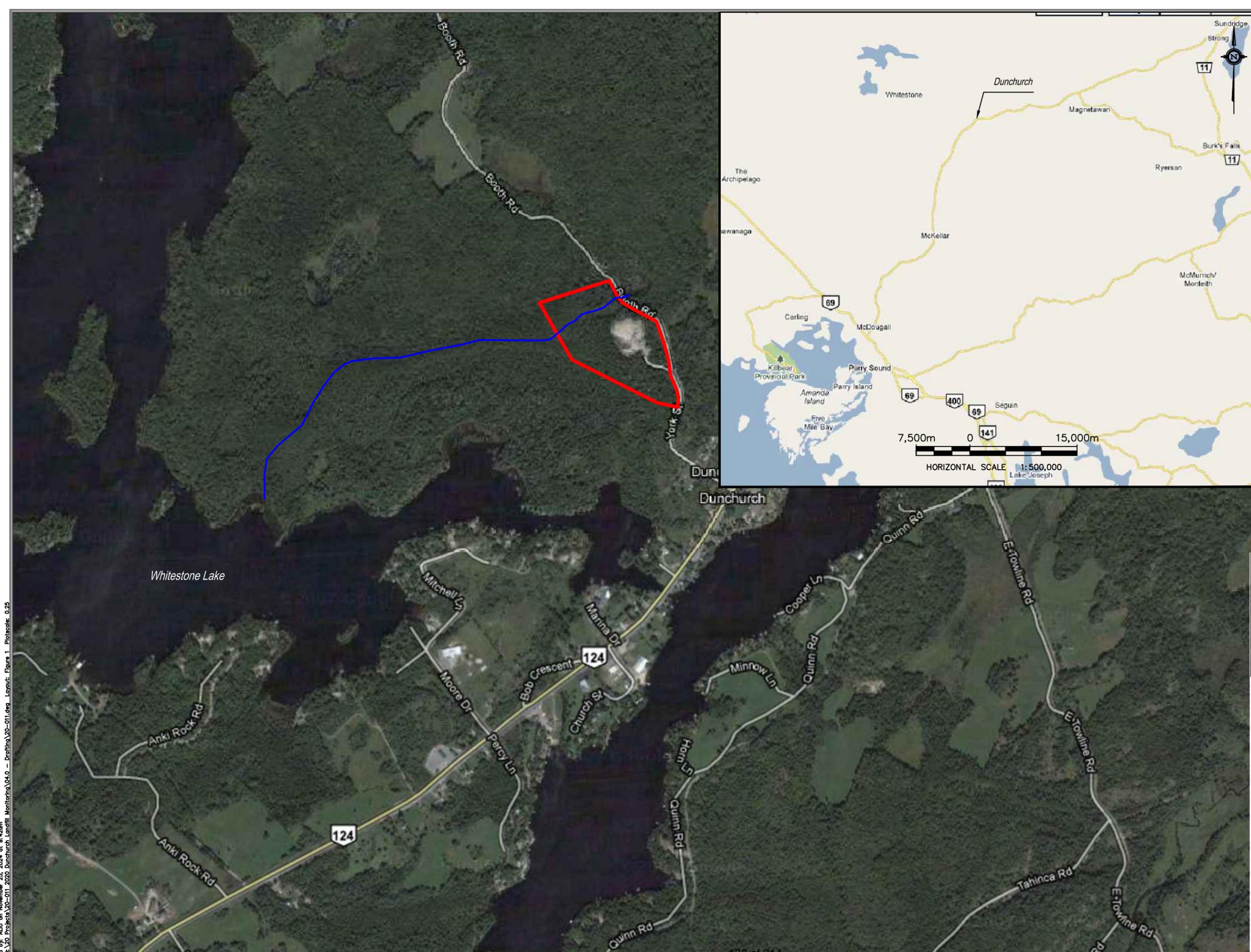


Municipality had begun this work in the fall of 2024 and has continued annually since.

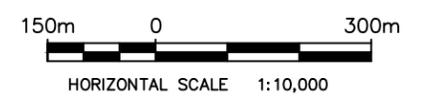
Replacement of Entrance Sign: This has been completed and includes the following as per the ECA requirement.

- a. the name of the Site and Owner;
- b. the number of the Approval;
- c. the normal hours of operation;
- d. the allowable and prohibited waste types;
- e. a warning against unauthorized access and dumping outside the Site;
- f. the telephone number to which complaints may be directed; and
- g. a twenty-four (24) hour emergency telephone number (if different from above).

Ensure Adequate Firefighting & Contingency Spill Equipment is Available at Site: It is understood that the Municipality had completed this task.



LEGEND:
 — Approx. Landfill Property Boundary
 — Watercourse



Dunchurch Landfill Location

Lot 61, Concession A
 Hagerman Township

DATE ISSUED:	November 2024	Figure No.
CREATED BY:	JLM	1
PROJECT NO.:	24-011	
REFERENCE:		

Plotted by: ALU on November 25, 2024 at 8:42am
 File: Q:\20_P\Projects\20-011_2020 Dunchurch Landfill_Monitoring\04.0 - Drafting\20-011.dwg Layout: Figure 1 PlotScale: 0.25

Cut/Fill Report

Generated: 2025-11-21 15:21:14
 By user: aliu
 Drawing: Q:\20 Projects\20-011 2020 Dunchurch Landfill Monitoring\04.0 - Drafting\TOPO\Q:\20 Projects\20-011 2020 Dunchurch Landfill Monitoring\04.0 - Drafting\TOPO\2025_SURFACE.dwg

Volume Summary

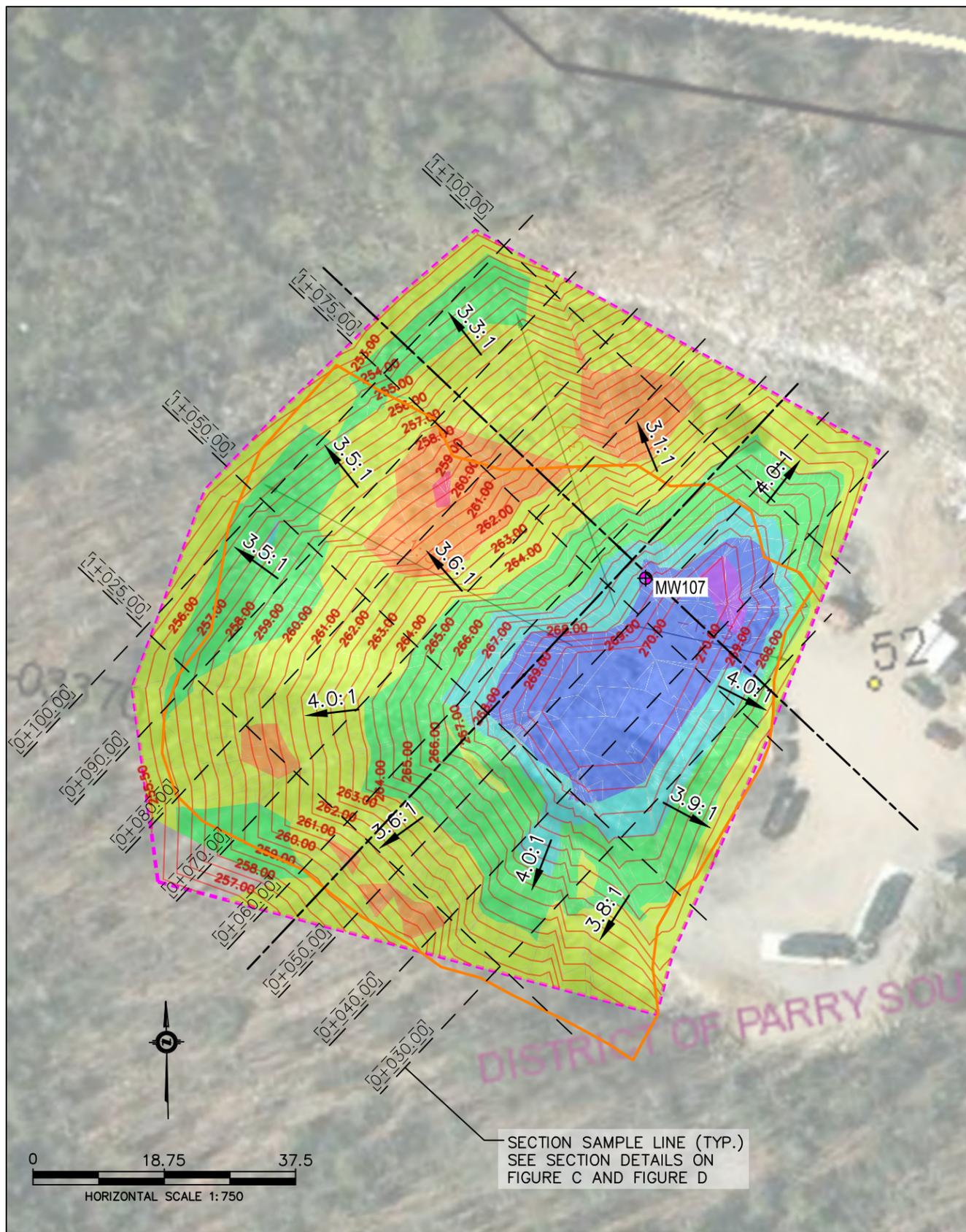
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Current (2025) vs Proposed Final Revised	fill	1.000	1.000	7605.19	1619.98	12003.11	10383.12<Fill>

Totals

	2d Area (sq.m)	Cut (Cu. M.)	Fill (Cu. M.)	Net (Cu. M.)
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Elevations Table

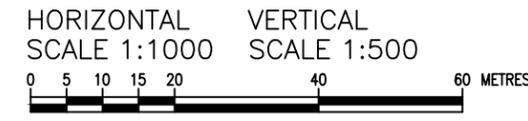
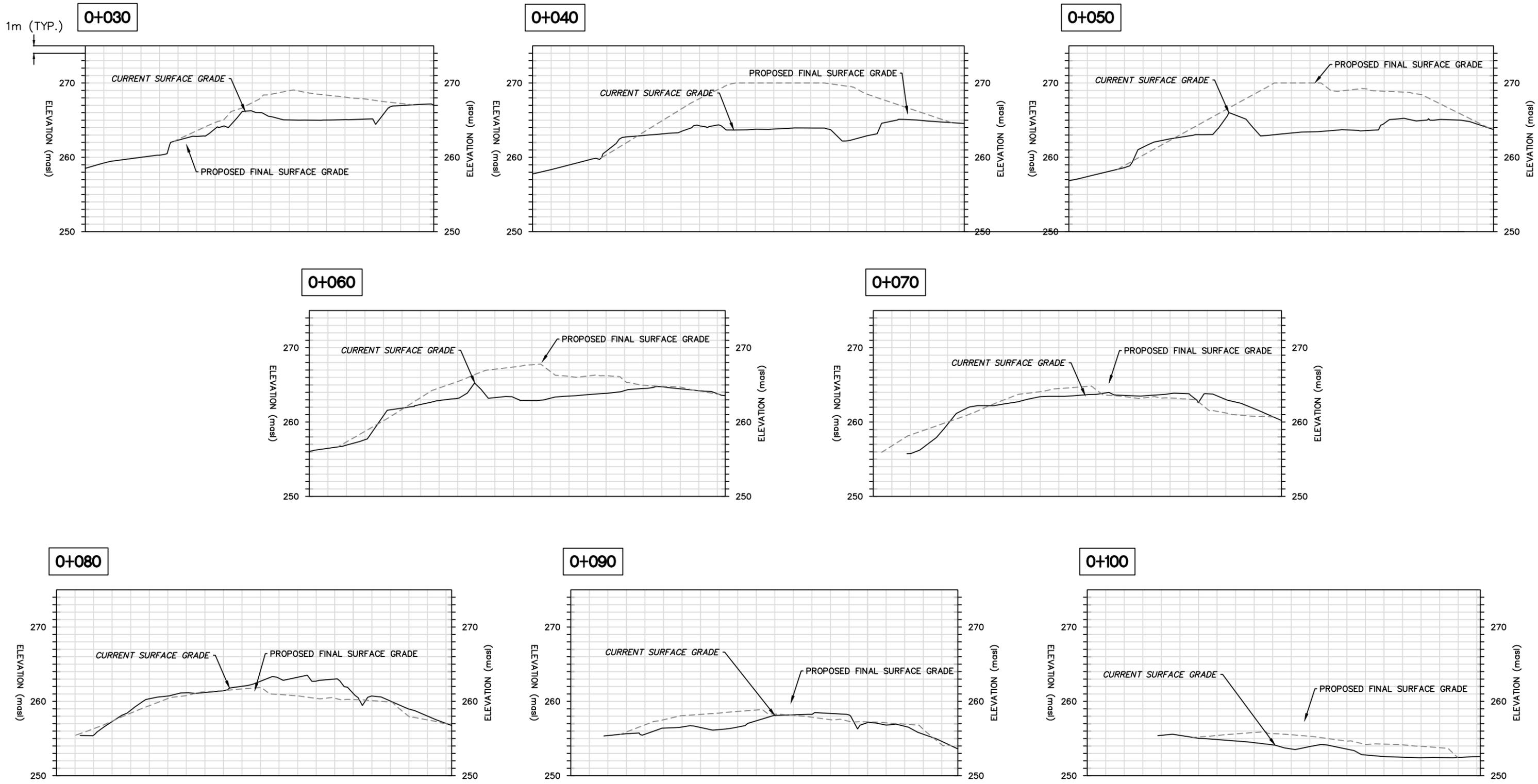
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-5.00	-3.00	10.16	Red
2	-3.00	-1.00	617.11	Orange
3	-1.00	1.00	3498.11	Yellow
4	1.00	3.00	2075.03	Green
5	3.00	5.00	586.68	Cyan
6	5.00	7.00	775.78	Blue
7	7.00	9.00	42.32	Purple



SECTION SAMPLE LINE (TYP.)
 SEE SECTION DETAILS ON
 FIGURE C AND FIGURE D

LEGEND:
 ——— WASTE FOOTPRINT 2025
 - - - SECTION STATION CENTRELINE
 - - - SECTION SAMPLE LINE
 - - - PROPOSED FINAL WASTE FOOTPRINT

Plotted by: ALIU on November 21, 2025 at 3:22pm
 File: Q:\20 Projects\20-011 2020 Dunchurch Landfill Monitoring\04.0 - Drafting\TOPO\2025_SURFACE.dwg - Layout: B_2025 vs FINAL VOLUMES - PlotScale: 1



LEGEND:	
-----	CURRENT SURFACE GRADE (2025)
—————	PROPOSED FINAL SURFACE GRADE

LOT 61, CONCESSION A
HAGERMAN TOWNSHIP, ON

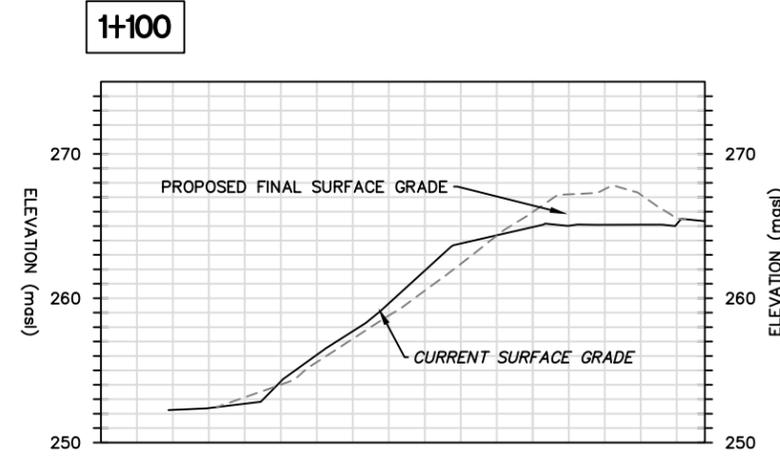
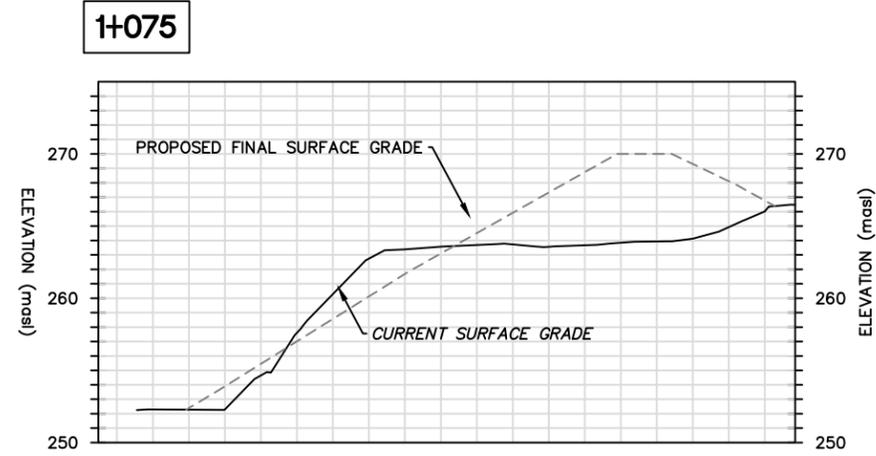
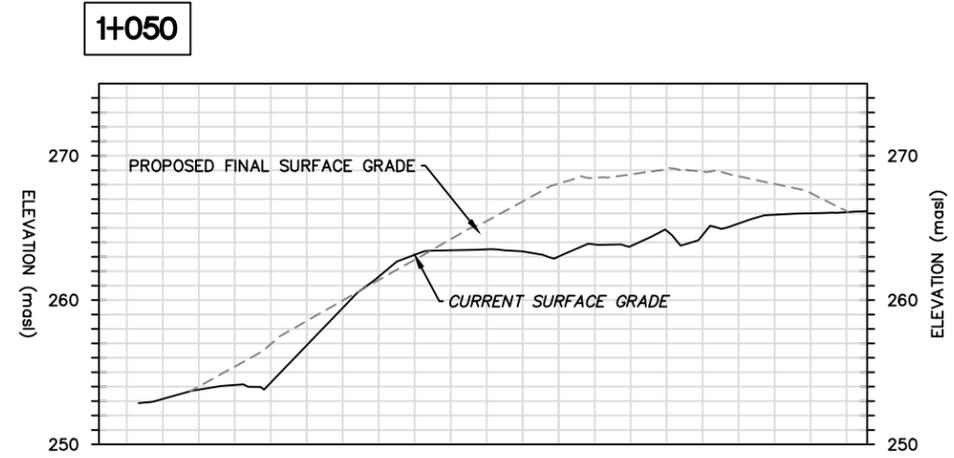
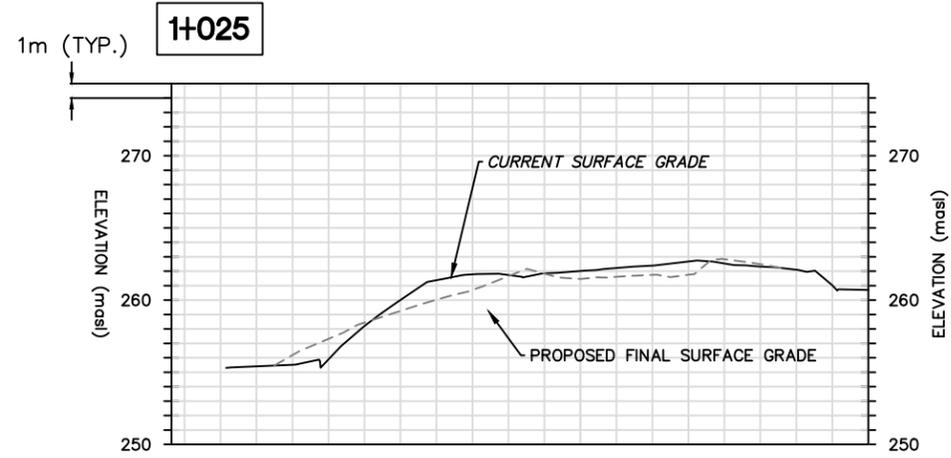
SAMPLED SECTIONS

DATE ISSUED:	NOVEMBER 2025	Figure No. C
CREATED BY:	A.L.	
PROJECT NO.:	24-011	
REFERENCE:	ESRI	

Plotted by: ALU on November 21, 2025 at 3:22pm
 File: G:\20-Projects\20-011_2020_Dunthurch_Landfill_Monitoring\04.0 - Drafting\TOPO\2025_SURFACE.dwg Layout: SAMPLE_SECTIONS_PlotScale: 1



Plotted by: ALU on November 21, 2025 at 3:22pm
 File: G:\20-Projects\20-011_2020_Dunshurch_Landfill_Monitoring\04.0 - Drafting\TOPCO\2025_SURFACE.dwg Layout: SAMPLE_SECTIONS 2 - PlotScale: 1



LEGEND:
 - - - - - CURRENT SURFACE GRADE (2025)
 _____ PROPOSED FINAL SURFACE GRADE

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-101 28-Apr-15	MW-101 20-Oct-15	MW-101 19-Apr-16	MW-101 25-Oct-16	MW-101 2-May-17	MW-101 2-Nov-17	MW-101 17-May-18	MW-101 25-Oct-18	MW-101 30-Apr-19	MW-101 24-Oct-19	MW-101 27-Apr-20	MW-101 22-Oct-20	MW-101 4-May-21	MW-101 26-Oct-21	MW-101 3-May-22	MW-101 26-Oct-22	MW-101 2-May-23
Saturation pH		-	-	7.31	7.26	7.19	7.27	7.2	7.19	7.18	7.32	7.56	7.42	7.53	7.45	7.5	7.42	7.44	7.41	7.44
pH		6.5 - 8.5	-	8.13	7.98	7.69	7.8	7.78	7.26	7.61	7.8	7.03	7.44	7.07	7.26	7.98	7.1	6.88	7.1	7.22
Langlier Index		-	-	0.82	0.72	0.5	0.53	0.58	0.07	0.43	0.48	-0.532	0.0192	-0.461	-0.194	0.483	-0.32	-0.561	-0.314	-0.224
Alkalinity	mg/L	500	270	208	225	241	230	270	262	254	200	210	235	215	215	241	221	226	222	235
Bicarbonate	mg/L	-	-	208	225	241	230	270	262	254	200	210	235	215	215	241	221	226	222	235
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	406	427	454	432	464	440	430	463	423	458	439	445	459	449	449	442	458
Fluoride	mg/L	1.5	0.45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	250	131	2.99	2.36	2.61	2.57	2.36	3.8	2.98	2.62	2.1	2.8	3.1	2.3	3.9	3	3.1	2.9	3.4
Nitrate	mg/L	10	2.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.07	0.06	0.08	<0.05	0.11	<0.05	0.08
Nitrite	mg/L	1	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	500	254	0.52	0.23	0.32	0.24	0.36	0.34	0.49	1.98	<1	<1	<1	<1	<1	<1	<1	<1	<1
Calcium	mg/L	-	-	41.2	40.6	44.7	39.8	39.9	42.3	43.9	42.3	35.4	43.8	37	44.3	35.8	46.5	43.4	47	41.4
Magnesium	mg/L	-	-	13.6	15.1	16.8	13.8	14.1	14.6	15.7	13.9	12	15.4	14	15.7	12.6	16.3	14.3	14.8	13.7
Sodium	mg/L	200	106	25.4	24	25.5	22.7	22.9	23.6	23.6	23.1	19.6	25.9	22.1	23.9	19.7	23	24	25	20.7
Potassium	mg/L	-	-	2.66	3.04	3.2	2.37	2.31	2.51	2.57	2.55	1.6	2.5	2.7	2.3	1.8	2.4	1.9	2.3	2.1
Ammonia	mg/L	-	-	3.87	3.71	3.4	5.62	4.06	4.1	3.16	4.63	6.39	11.1	3.53	3.87	4.07	4	4.26	4.25	4.48
Phosphate as P	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	20	39.9	<0.002	0.065	0.036	0.056	0.408	0.039	0.702
Total Phosphorus	mg/L	-	-	29.5	2.47	17.3	16.4	8.58	8.4	0.26	9.68	31.5	104	38.6	0.8	52.5	41.8	27.4	21.6	2.39
Reactive Silica	mg/L	-	-	36.2	5.5	42.1	50.7	40.5	47.7	49.5	50.6	40.7	51.1	43.4	54.4	43.7	57.6	52.9	59.9	52.6
DOC	mg/L	5	6.0	5.1	4.4	6.1	6.7	5.4	5.6	4.2	5.1	5.3	5.8	4.6	6.1	8.1	6.3	6.1	5.3	5.6
Colour	TCU	5	-	7	7	7	8	7	9	9	<5	5	7	4	7	6	5	5	5	6
Turbidity	NTU	5	-	50000	4510	21900	9420	13100	7740	8070	23600	35200	53900	12400	11800	13400	12700	29600	35900	9920
Aluminum	mg/L	0.1	0.11	<0.004	0.009	0.004	2.43	0.117	0.037	0.006	0.006	0.07	0.02	0.03	0.04	0.03	0.19	0.04	0.16	<0.01
Arsenic	mg/L	0.025	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0009	0.0013	0.0012	0.0015	0.0011	0.0014	0.0008	0.0011	0.001
Barium	mg/L	1	0.27	0.158	0.222	0.173	0.226	0.173	0.136	0.131	0.122	0.124	0.181	0.146	0.168	0.126	0.194	0.142	0.172	0.155
Boron	mg/L	5	1.3	0.051	0.046	0.052	0.063	0.06	0.057	0.047	0.057	0.061	0.067	0.069	0.091	0.066	0.087	0.06	0.069	0.062
Cadmium	mg/L	0.005	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000027	<0.000010
Chromium	mg/L	0.05	-	<0.003	<0.003	<0.003	0.007	<0.003	<0.003	0.003	<0.003	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper	mg/L	1	-	<0.002	<0.002	<0.002	0.012	<0.002	<0.002	<0.002	0.002	0.0009	0.0004	0.0027	0.0009	0.0008	0.0016	0.0007	0.0043	0.0003
Iron	mg/L	0.3	0.2	10.9	12.2	7.74	16	12.3	6.04	7.41	4.16	9.04	11.4	1.88	13	10.6	13.7	10.6	11.6	12.9
Lead	mg/L	0.01	0.003	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.001	<0.001	0.00013	0.00003	0.00033	0.00006	0.00003	0.00094	0.00003	0.00024	<0.00002
Manganese	mg/L	0.05	0.04	1.16	1.36	1.3	1.38	1.42	1.05	1.25	1.17	1.09	1.4	0.975	1.3	1.21	1.4	1.48	1.49	1.33
Mercury	mg/L	0.001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0001	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001
Nickel	mg/L	-	-	<0.003	<0.003	<0.003	0.008	<0.003	<0.003	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	mg/L	0.01	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.305	0.373	0.311	0.327	0.344	0.337	0.305	0.313	0.29	0.367	0.314	0.378	0.303	0.392	0.352	0.363	0.343
Thallium	mg/L	-	-	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	<0.002	<0.002	<0.002	0.088	0.007	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.011	<0.005
Uranium	mg/L	0.02	0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00008	0.0001	0.00026	0.00007	<0.00005	0.00013	0.00013	0.00014	<0.00005
Vanadium	mg/L	-	-	<0.002	<0.002	<0.002	0.009	<0.002	<0.002	0.006	<0.002	0.0004	0.0003	0.0011	0.0004	0.0003	0.0015	0.0002	0.0005	0.0003
Zinc	mg/L	5	2.5	<0.005	0.006	0.007	0.025	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005
Total Dissolved	mg/L	500	285	236	256	240	272	248	236	242	262	206	247	215	219	237	230	240	244	236
Total Hardness	mg/L	500	269	159	164	181	156	158	166	174	163	138	173	150	175	141	183	167	187	160
% Difference		-	-	4.1	0.895	1.5	1.16	9.82	6.56	3.76	6.15	1.29	6.8	0.284	3.28	3.34	5.88	7.55	11.6	0.976
Biochemical Oxygen	mg/L	-	-	16	5	7	8	12	<5	6	14	13	13	14	8	12	15	12	<3	<3
Total Kjeldahl	mg/L	-	-	3.76	3.87	7.9	5.71	4.38	4.39	3.11	4.6	15.9	24.1	18.6	3.6	33.1	29.1	19.5	18	5.4
Chemical Oxygen	mg/L	-	-	7	17	17	23	21	13	<5										

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-101 26-Oct-23	MW-101 23-Apr-24	MW-101 29-Oct-24	MW-101 13-Aug-25	MW-101 28-Oct-25	MW-102 28-Apr-15	MW-102 20-Oct-15	MW-102 19-Apr-16	MW-102 25-Oct-16	MW-102 2-May-17	MW-102 2-Nov-17	MW-102 17-May-18	MW-102 25-Oct-18	MW-102 30-Apr-19	MW-102 24-Oct-19	MW-102 27-Apr-20	MW-102 22-Oct-20
Saturation pH		-	-	7.4	7.47	7.43	7.44	7.38	7.84	8.07	7.77	8.02	7.85	7.69	7.64	7.9	7.86	8.13	8	7.89
pH		6.5 - 8.5	-	6.91	7.09	7.63	7.29	7.18	8.08	7.32	6.99	7.27	7.61	7.06	7.18	7.4	7.01	7	7.01	7.43
Langlier Index		-	-	-0.49	-0.378	0.202	-0.154	-0.196	0.24	-0.75	-0.78	-0.75	-0.24	-0.63	-0.46	-0.5	-0.853	-1.13	-0.991	-0.457
Alkalinity	mg/L	500	270	238	230	234	238	240	108	81	106	82	109	133	146	92	130	90	111	119
Bicarbonate	mg/L	-	-	238	230	234	238	240	108	81	106	82	109	133	146	92	130	90	111	119
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	443	450	436	468	468	224	195	247	198	239	241	248	233	255	219	230	248
Fluoride	mg/L	1.5	0.45	0.8	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	0.28	<0.05	<0.05	0.1	<0.05	0.19	<0.1	0.2	<0.1	<0.1
Chloride	mg/L	250	131	7.2	3.6	3.6	4	3.9	1.03	0.73	0.64	0.47	0.55	0.58	0.82	1.67	<0.5	0.7	1.3	<0.5
Nitrate	mg/L	10	2.8	0.27	<0.05	<0.05	<0.05	0.07	0.16	0.1	<0.05	0.1	<0.05	<0.05	0.05	<0.05	0.05	0.07	0.13	0.2
Nitrite	mg/L	1	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	0.12	<0.05	<0.05
Bromide	mg/L	-	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	500	254	1	<1	<1	2	<1	1.83	16.5	18.3	19.5	9.84	3.39	1.3	11.3	<1	17	2	<1
Calcium	mg/L	-	-	45.3	40.1	43.2	40.9	47.5	19.4	16	24	17.2	20.5	22.9	23	20.7	25.5	19.3	21.2	26.2
Magnesium	mg/L	-	-	15.1	15.2	16.2	14.8	17	9.96	7.44	11.5	8.52	10.3	11.4	11.8	9.69	12.3	9.53	9.9	12.6
Sodium	mg/L	200	106	24.5	22.6	21.8	19.6	22.4	8.11	6.56	8.55	6.07	7.18	8.59	8.4	8.49	7.5	5.9	6.2	9.3
Potassium	mg/L	-	-	2.2	2.4	2.5	2.3	2.3	1.32	1.27	1.71	1.19	1.39	1.64	1.62	1.77	1.1	1	1	1.3
Ammonia	mg/L	-	-	3.88	6.42	4.64	6.71	8.4	1.07	1.32	1.11	1.87	2.28	2.32	0.82	0.65	2.41	2.8	1.49	1.75
Phosphate as P	mg/L	-	-	0.03	0.008	0.192	0.066	0.019	0.47	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	20.1	17.8	0.557	1.26
Total Phosphorus	mg/L	-	-	51.9	29.2	57.1	35.5	45	0.62	7.94	0.06	16.6	20.5	24.6	0.2	0.14	36	42.7	39	24
Reactive Silica	mg/L	-	-	50.7	55.9	55.3	51.6	58.2	35.4	39.9	39	41.9	45.9	43	38.9	45.1	35.3	35.3	31	42.8
DOC	mg/L	5	6.0	6.8	5.5	5.4	8.8	7.3	7.3	7.6	33.1	57.5	49.8	54.3	6.9	10.8	9.1	10.8	7.2	5.6
Colour	TCU	5	-	16	6	4	4	4	18	20	27	42	25	20	40	<5	13	76	37	19
Turbidity	NTU	5	-	37800	30200	39300	30700	17100	12500	9040	18600	133	11500	10800	22800	45200	20600	16400	5150	10600
Aluminum	mg/L	0.1	0.11	0.05	0.01	0.02	0.04	0.05	0.07	0.084	0.069	0.279	0.233	0.023	0.033	0.024	0.03	0.03	0.03	0.03
Arsenic	mg/L	0.025	0.006	0.0007	0.0012	0.0014	0.0012	0.0014	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0006	0.0007	0.0003	0.0007
Barium	mg/L	1	0.27	0.149	0.17	0.163	0.158	0.17	0.048	0.072	0.079	0.056	0.08	0.084	0.067	0.074	0.068	0.075	0.073	0.087
Boron	mg/L	5	1.3	0.057	0.07	0.078	0.069	0.081	0.02	0.017	0.03	0.014	0.035	0.043	0.023	0.072	0.046	0.03	0.029	0.05
Cadmium	mg/L	0.005	-	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00015	<0.00015	<0.00015	<0.00015
Chromium	mg/L	0.05	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001	<0.001	<0.001	0.001
Copper	mg/L	1	-	0.0006	0.0005	0.0009	0.0005	0.0004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0008	0.0005	0.0017	0.0021
Iron	mg/L	0.3	0.2	5.56	11.2	13.8	11.5	13.7	5.57	1.73	3.42	1.55	4.29	4.02	4.64	3.04	8.02	3.18	4.78	1.86
Lead	mg/L	0.01	0.003	0.00004	0.00004	0.00003	0.00019	0.00004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00007	0.00004	0.00008	0.00008
Manganese	mg/L	0.05	0.04	1.34	1.34	1.26	1.26	1.49	0.416	0.388	0.588	0.352	0.568	0.653	0.524	0.641	0.635	0.442	0.536	0.608
Mercury	mg/L	0.001	0.0003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	mg/L	-	-	0.0003	0.0002	<0.0001	0.0002	0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	-	-	0.0008	0.0009	0.0007	0.0009	0.0011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01
Selenium	mg/L	0.01	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.354	0.376	0.371	0.351	0.392	0.13	0.129	0.189	0.116	0.175	0.22	0.158	0.163	0.203	0.162	0.157	0.216
Thallium	mg/L	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	0.002	<0.002	<0.002	0.009	0.006	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005
Uranium	mg/L	0.02	0.05	0.00017	0.00012	<0.00005	0.00012	0.00006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00006	0.00007	<0.00005	0.00019
Vanadium	mg/L	-	-	0.0002	0.0002	0.0003	0.0003	0.0003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.006	<0.002	0.0007	0.0013	0.0011	0.0011
Zinc	mg/L	5	2.5	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005	0.014	0.006	<0.005	0.006	<0.005	0.017	<0.005	<0.005	<0.005	<0.005
Total Dissolved	mg/L	500	285	252	235	250	239	252	290	262	272	284	322	208	196	264	128	115	116	122
Total Hardness	mg/L	500	269	175	163	175	163	189	89.5	70.6	107	78	93.6	104	106	91.6	114	87	94	117
% Difference		-	-	1.96	2.61	7.69	0.619	6.66	0.2	4.58	2	1.97	0.547	1.69	7.04	3.57	4.23	4.82	4.96	7.88
Biochemical Oxygen	mg/L	-	-	<3	6	4	14	14	<5	<5	6	<5	<5	<5	11	<3	7	7	<3	
Total Kjeldahl	mg/L	-	-	30.5	12.2	36.8	19.3	26.2	1.21	2.05	4.4	2.6	3	3.09	1.04	1.02	30.8	46.5	37.7	22.4
Chemical Oxygen	mg/L	-	-	1170	3															

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-103 25-Oct-18	MW-103 30-Apr-19	MW-103 24-Oct-19	MW-103 27-Apr-20	MW-103 22-Oct-20	MW-103 4-May-21	MW-103 26-Oct-21	MW-103 3-May-22	MW-103 26-Oct-22	MW-103 2-May-23	MW-103 26-Oct-23	MW-103 23-Apr-24	MW-103 29-Oct-24	MW-103 13-Aug-25	MW-103 28-Oct-25	MW-104D 28-Apr-15	MW-104D 20-Oct-15
Saturation pH		-	-	7.57	7.78	7.77	7.8	7.79	7.74	7.75	7.73	7.69	7.73	7.68	7.76	7.72	7.71	7.69	6.71	6.31
pH		6.5 - 8.5	-	7.99	7.81	7.93	7.62	7.87	8.15	7.42	7.03	7.73	7.54	7.15	7.51	7.8	7.8	7.58	8.24	8.05
Langlier Index		-	-	0.42	0.0287	0.159	-0.181	0.0841	0.407	-0.333	-0.701	0.0386	-0.185	-0.53	-0.253	0.079	0.0918	-0.112	1.53	1.74
Alkalinity	mg/L	500	270	123	133	140	130	130	136	136	142	144	141	156	143	147	142	144	231	487
Bicarbonate	mg/L	-	-	123	133	140	130	130	136	136	142	144	141	156	143	147	142	144	231	487
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	515	489	492	486	493	496	493	512	522	506	523	529	524	543	530	1350	1710
Fluoride	mg/L	1.5	0.45	0.44	0.3	0.5	<0.1	0.3	0.5	<0.1	<0.1	0.4	<0.1	0.5	0.2	0.1	<0.1	0.2	<0.25	<0.25
Chloride	mg/L	250	131	6.49	7.5	7.3	8.2	9	9.6	10.1	10.1	8.8	10.9	10.8	12.4	13.8	15.2	15.1	121	168
Nitrate	mg/L	10	2.8	<0.05	0.14	0.15	0.17	0.14	0.06	0.11	0.08	0.11	0.14	0.17	0.1	0.15	0.09	0.16	<0.25	<0.25
Nitrite	mg/L	1	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.05	<0.25	<0.25
Bromide	mg/L	-	-	<0.05	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.25	<0.25
Sulphate	mg/L	500	254	93.3	96	95	97	98	102	98	96	91	95	97	102	112	107	104	368	277
Calcium	mg/L	-	-	33.7	34.4	33.5	33.7	34.9	36.7	35.9	36.1	39.2	37	37.2	33.4	35.8	38.3	39.2	197	225
Magnesium	mg/L	-	-	15.5	16.5	16.6	15.9	17	17.4	16.9	17	18.4	16.6	18.2	18.5	17.6	18.8	19.4	43.1	59.4
Sodium	mg/L	200	106	41.2	40.4	43.6	39.4	44.8	43.2	45.4	42.6	47.2	41.7	47.3	44.4	47	45.5	47.8	31.5	40.7
Potassium	mg/L	-	-	1.66	1.4	1.8	1.5	1.7	1.7	1.7	1.4	1.9	1.6	1.7	1.6	1.9	1.7	1.7	7.21	8.74
Ammonia	mg/L	-	-	0.06	0.24	0.5	0.08	0.07	0.05	<0.1	0.11	0.04	0.05	<0.05	<0.05	0.06	0.34	0.21	<0.02	0.07
Phosphate as P	mg/L	-	-	<0.10	5.79	17.9	0.123	0.124	0.064	0.03	0.282	0.067	0.093	0.012	0.012	0.021	0.07	0.066	<0.50	<0.50
Total Phosphorus	mg/L	-	-	0.02	8.4	35.3	7.38	9.12	18.8	6.82	14.6	9.17	1.43	7.03	7.36	14.8	9.92	7.1	<0.02	0.03
Reactive Silica	mg/L	-	-	21.3	18.9	20.9	17.7	21.6	20.4	22.3	20.3	25.7	21.4	23.5	22	22.4	22.7	23.5	17.8	20.8
DOC	mg/L	5	6.0	1.8	2.8	2.5	1.7	1.8	3	2.7	2.5	2.3	1.7	4.2	2.6	3.5	4.2	3.6	10.2	8.9
Colour	TCU	5	-	<5	3	4	<2	5	4	5	<2	4	2	2	4	2	<2	2	12	7
Turbidity	NTU	5	-	3.9	7390	28700	4430	7370	7010	2370	9260	7730	2270	4040	7460	12700	8980	5490	4.4	2.7
Aluminum	mg/L	0.1	0.11	0.004	0.07	0.02	0.02	0.03	0.29	0.03	0.03	0.25	0.09	0.03	0.01	0.05	0.03	0.04	<0.004	0.007
Arsenic	mg/L	0.025	0.006	<0.003	0.0005	0.0011	0.0004	0.0008	0.0007	0.0008	0.0003	0.0008	0.0004	0.0014	0.0006	0.0009	0.0008	0.0008	<0.003	<0.003
Barium	mg/L	1	0.27	0.036	0.032	0.033	0.039	0.039	0.038	0.035	0.031	0.044	0.035	0.032	0.027	0.033	0.031	0.037	0.089	0.153
Boron	mg/L	5	1.3	0.269	0.285	0.337	0.289	0.346	0.325	0.346	0.306	0.362	0.317	0.361	0.336	0.356	0.364	0.371	0.557	0.448
Cadmium	mg/L	0.005	-	<0.0001	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000010	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0001	<0.0001
Chromium	mg/L	0.05	-	<0.003	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.005
Copper	mg/L	1	-	<0.002	0.0006	0.0001	0.0015	0.0014	0.0019	0.0008	0.0006	0.0046	0.0005	0.0005	0.0008	0.0007	0.0007	0.0007	<0.002	<0.002
Iron	mg/L	0.3	0.2	0.14	0.459	1.02	0.072	0.151	1.36	0.881	0.31	0.954	0.765	1.18	0.748	1.17	1.07	0.999	0.18	0.3
Lead	mg/L	0.01	0.003	<0.001	0.00007	<0.00002	0.00004	0.00006	0.00039	0.00003	0.00005	0.00021	0.00007	<0.00002	0.00003	0.00004	0.00006	<0.00002	<0.002	<0.002
Manganese	mg/L	0.05	0.04	0.455	1.06	0.902	0.948	0.732	0.947	0.833	0.982	0.699	1.2	0.966	0.999	0.921	0.958	0.869	0.363	0.66
Mercury	mg/L	0.001	0.0003	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0001	<0.0001
Molybdenum	mg/L	-	-	<0.002	0.0009	0.0014	0.0012	0.0008	0.0011	0.0012	0.0011	0.0012	0.0008	0.0011	0.001	0.0012	0.001	0.0013	<0.002	<0.002
Nickel	mg/L	-	-	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0004	0.0006	0.0004	0.0006	<0.003	0.008
Selenium	mg/L	0.01	0.003	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.004
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.39	0.467	0.488	0.469	0.492	0.554	0.536	0.498	0.526	0.518	0.506	0.565	0.534	0.573	0.601	5.19	6.6
Thallium	mg/L	-	-	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.0003
Tin	mg/L	-	-	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.002
Titanium	mg/L	-	-	<0.002	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	0.022	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.005
Uranium	mg/L	0.02	0.05	<0.002	0.00018	0.00028	0.0003	0.00014	0.00025	0.00031	0.00011	0.00021	0.00008	0.0001	0.00007	0.00021	0.00009	0.00025	0.004	0.005
Vanadium	mg/L	-	-	<0.002	0.0004	0.0005	0.0007	0.0007	0.0023	0.0005	0.0002	0.0015	0.0006	0.0002	0.0001	0.0003	0.0001	0.0003	<0.002	<0.002
Zinc	mg/L	5	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Total Dissolved	mg/L	500	285	300	279	285	275	285	295	291	290	295	289	309	301	319	315	317	1050	1190
Total Hardness	mg/L	500	269	148	154	152	150	157	163	159	160	174	161	168	160	162	173	178	669	806
% Difference		-	-	1.97	0.505	0.907	0.62	2.54	1.45	2.23	0.105	5.68	0.562	0.901	0.903	2.09	0.701	2.47	2.5	5.54
Biochemical Oxygen	mg/L	-	-	<5	10	5	4	<3	3	<3	3	<3	<3	4	<3	4	4	4	<5	<5
Total Kjeldahl	mg/L	-	-	<0.10	2.1	10.1	2.3	3.9	8	35.3	5.5	4.5	0.4	3.3	2.8	5.3	5.7	2.4	0.95	0.44
Chemical Oxygen	mg/L	-	-	9	160	2300	144	530	289	155	245	208	45							

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-104D 19-Apr-16	MW-104D 25-Oct-16	MW-104D 2-May-17	MW-104D 2-Nov-17	MW-104D 17-May-18	MW-104D 25-Oct-18	MW-104D 30-Apr-19	MW-104D 24-Oct-19	MW-104D 27-Apr-20	MW-104D 22-Oct-20	MW-104D 4-May-21	MW-104D 26-Oct-21	MW-104D 3-May-22	MW-104D 26-Oct-22	MW-104D 2-May-23	MW-104D 26-Oct-23	MW-104D 23-Apr-24
Saturation pH		-	-	6.44	6.61	6.65	6.71	6.67	6.76	6.83	6.58	6.83	6.87	6.9	6.81	6.73	6.7	6.68	6.66	6.81
pH		6.5 - 8.5	-	7.91	8.1	7.96	7.8	7.93	8.1	7.71	7.85	7.83	7.76	8.18	7.8	7.59	7.68	7.89	7.88	7.88
Langlier Index		-	-	1.47	1.49	1.31	1.09	1.26	1.34	0.878	1.27	0.995	0.886	1.28	0.991	0.861	0.977	1.21	1.22	1.07
Alkalinity	mg/L	500	270	352	294	274	255	274	233	249	380	257	246	239	256	289	331	314	358	314
Bicarbonate	mg/L	-	-	352	294	274	255	274	233	249	380	257	246	239	256	289	331	314	358	314
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	1520	1420	1440	1280	1210	1340	1370	1510	1410	1360	1270	1270	1310	1410	1320	1400	1280
Fluoride	mg/L	1.5	0.45	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1
Chloride	mg/L	250	131	124	112	83.2	81.8	82.5	79.2	82.1	97.6	85.1	78.3	67.5	72.7	80.5	93.3	96.1	102	101
Nitrate	mg/L	10	2.8	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.07	0.09	0.1	0.08	0.05	<0.05	0.07	<0.05	<0.5	<0.05	<0.05
Nitrite	mg/L	1	0.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
Bromide	mg/L	-	-	0.41	<0.25	<0.25	0.27	<0.25	<0.25	<0.4	0.5	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.5	0.5	0.5
Sulphate	mg/L	500	254	326	332	376	370	366	321	377	289	397	426	365	393	295	281	266	291	218
Calcium	mg/L	-	-	230	198	192	178	179	173	184	220	181	173	164	193	201	186	207	191	151
Magnesium	mg/L	-	-	60.6	42.5	42.5	40.7	42.8	38.9	47.2	54.4	42.1	41.1	38.5	45.1	46.3	43.3	46	45.2	40.8
Sodium	mg/L	200	106	43.7	33.2	36	34.2	36.1	34.3	37.4	46.5	37.1	36.8	36.8	43.9	44.5	40	43.9	44.7	41.1
Potassium	mg/L	-	-	8.52	7.88	7.15	7.47	7.27	7.38	7.9	9.3	7.3	9.3	6.9	9	7.9	8.2	8.4	8.5	8.3
Ammonia	mg/L	-	-	0.08	0.03	<0.02	0.04	0.06	<0.02	0.07	0.05	0.03	0.03	0.05	0.12	0.1	0.05	0.05	0.13	0.14
Phosphate as P	mg/L	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.034	0.018	<0.002	0.007	<0.002	0.006	0.11	0.004	<0.002	<0.002	<0.002
Total Phosphorus	mg/L	-	-	0.04	0.05	0.02	0.02	<0.02	<0.02	0.03	0.07	0.05	0.04	0.05	0.09	0.02	0.03	0.03	0.04	0.04
Reactive Silica	mg/L	-	-	17.4	19.3	19	16.8	15.7	18.4	15.2	19.1	14.7	15.9	14.1	14.6	17.7	19.6	18.6	17.7	18.2
DOC	mg/L	5	6.0	9.7	8.3	10.1	9.3	9.2	8.9	7.2	7.9	7.1	5.8	6.8	8.2	6.7	3.2	7.7	8.4	8.8
Colour	TCU	5	-	7	6	8	6	18	<5	5	5	4	7	7	6	4	5	5	6	6
Turbidity	NTU	5	-	884	3.8	5.1	6.4	0.8	1.6	6.7	9.5	12.2	12.2	2.2	3.9	2.9	3.4	6.8	1.1	2.7
Aluminum	mg/L	0.1	0.11	<0.004	0.006	0.005	0.008	<0.004	0.006	0.1	0.11	0.08	0.09	0.09	0.09	0.1	0.05	0.06	0.11	0.06
Arsenic	mg/L	0.025	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0001	0.0002	0.0002	0.0004	<0.0003	0.0006	0.0002	0.0002	0.0003	0.0004	0.0003
Barium	mg/L	1	0.27	0.161	0.096	0.069	0.081	0.065	0.072	0.066	0.085	0.066	0.074	0.069	0.076	0.075	0.093	0.081	0.088	0.083
Boron	mg/L	5	1.3	0.465	0.488	0.693	0.725	0.694	0.54	0.913	0.834	0.799	0.788	0.959	0.969	1.08	0.738	0.956	0.817	0.63
Cadmium	mg/L	0.005	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00015	<0.00015	<0.00015	<0.00015	<0.00029	<0.00015	<0.00015	<0.00012	<0.00012	<0.00015	<0.00015
Chromium	mg/L	0.05	-	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	1	-	<0.002	<0.002	<0.002	<0.002	0.003	0.002	0.0011	0.0009	0.0018	0.0014	0.0014	0.0008	0.0008	0.0022	0.0005	0.0006	0.0016
Iron	mg/L	0.3	0.2	0.18	0.31	<0.1	0.19	<0.1	<0.1	<0.005	<0.005	0.11	0.402	0.18	<0.005	0.329	0.136	0.485	0.222	0.264
Lead	mg/L	0.01	0.003	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.0002	<0.0004	<0.0004	0.0007	<0.00009	0.00006	<0.00004	0.00005	<0.00004	<0.00002	0.00004
Manganese	mg/L	0.05	0.04	0.46	0.506	0.399	0.364	0.358	0.093	0.347	0.548	0.498	0.339	0.396	0.191	0.491	0.217	0.543	0.464	0.362
Mercury	mg/L	0.001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0002	0.0003	0.0004	0.0003	0.0005	0.0004	0.0003	0.0004	0.0004	0.0004	0.0003
Nickel	mg/L	-	-	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0031	0.003
Selenium	mg/L	0.01	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	0.002	<0.001	0.001
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	4.97	6.47	4.38	4.45	3.81	4.17	4.9	6.04	4.36	4.62	4.36	4.9	4.77	5.31	5.11	4.89	5.5
Thallium	mg/L	-	-	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	0.00013	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	0.005	0.004	0.003	0.006	0.006	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Uranium	mg/L	0.02	0.05	0.004	0.004	0.003	0.003	0.003	0.003	0.00218	0.00275	0.00255	0.00224	0.00211	0.00199	0.00325	0.00275	0.00329	0.00302	0.00281
Vanadium	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	0.0005	0.0006	0.0005	0.0007	0.0008	0.0019	0.0006	0.0013	0.0006	0.0008	0.0005
Zinc	mg/L	5	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved	mg/L	500	285	916	1050	968	846	908	982	885	946	904	913	823	911	850	851	857	898	750
Total Hardness	mg/L	500	269	824	669	654	612	623	592	654	674	626	601	568	668	693	643	706	663	546
% Difference		-	-	3.5	2.96	2.69	4.1	4.07	0.207	0.736	3.99	4.92	7.07	4.13	0.481	6.03	0.936	5.66	1.67	2.28
Biochemical Oxygen	mg/L	-	-	<5	<5	<5	<5	<5	<5	7	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total Kjeldahl	mg/L	-	-	1.1	0.53	0.55	0.58	0.4	0.34	0.6	0.5	0.6	0.6	0.7						

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-104S	MW-105	MW-105	MW-105	MW-105	MW-105
				27-Apr-20	22-Oct-20	4-May-21	26-Oct-21	3-May-22	26-Oct-22	2-May-23	26-Oct-23	23-Apr-24	29-Oct-24	30-Apr-25	28-Oct-25	28-Apr-15	20-Oct-15	19-Apr-16	25-Oct-16	2-May-17
Saturation pH		-	-	6.66	6.88	6.77	6.83	6.86	6.46	6.73	6.6	6.79	6.37	6.71	6.39	6.97	6.79	6.9	6.76	6.91
pH		6.5 - 8.5	-	7.74	7.77	8.14	7.77	7.39	7.48	7.79	7.74	7.8	7.9	7.73	7.53	8.08	7.95	7.56	7.83	7.78
Langlier Index		-	-	1.08	0.893	1.37	0.941	0.533	1.02	1.06	1.14	1.01	1.53	1.02	1.14	1.11	1.16	0.66	1.07	0.87
Alkalinity	mg/L	500	270	357	234	308	281	289	443	330	413	333	562	363	546	279	343	302	344	312
Bicarbonate	mg/L	-	-	357	234	308	281	289	443	330	413	333	562	363	546	279	343	302	344	312
Carbonate	mg/L	-	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hydroxide	mg/L	-	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Electrical Conductivity	µS/cm	-	-	1470	1200	1320	1260	1260	1610	1320	1500	1310	1740	1360	1760	856	1240	1060	1260	1040
Fluoride	mg/L	1.5	0.45	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.7	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Chloride	mg/L	250	131	104	83.1	93.2	85.4	88.8	106	98.9	117	106	154	112	155	69	109	73.9	115	82.4
Nitrate	mg/L	10	2.8	0.09	0.08	< 0.05	< 0.05	< 0.05	< 0.3	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.40	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Nitrite	mg/L	1	0.3	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.3	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.40	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Bromide	mg/L	-	-	0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 2	< 4	0.6	0.5	< 0.4	< 0.4	< 1.0	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Sulphate	mg/L	500	254	290	323	291	338	252	247	232	272	216	249	218	240	80.9	143	133	165	86.4
Calcium	mg/L	-	-	196	176	171	164	146	253	170	194	150	248	166	241	67.7	87.4	73.7	93.7	70.9
Magnesium	mg/L	-	-	52.4	42.4	44.8	45.6	44.3	63	43.7	54.1	44.5	68	46.5	69.6	30.8	36.8	33.8	37.5	31.4
Sodium	mg/L	200	106	42.5	40	41.4	44.2	40.5	53.7	42	53.7	43.3	63.3	45.1	65.9	67.6	105	72.5	97.5	73.4
Potassium	mg/L	-	-	6.1	7.6	6.4	5.3	3.2	8.6	5.4	6.1	6.8	9	6.7	7.6	8.92	20.8	8.99	20.9	12.2
Ammonia	mg/L	-	-	0.03	0.02	0.03	0.03	0.08	0.02	0.05	< 0.05	0.08	0.1	0.09	0.13	1.53	3.04	1.92	3.05	1.7
Phosphate as P	mg/L	-	-	0.021	0.028	0.004	0.01	0.188	0.01	0.025	< 0.002	0.002	< 0.002	0.016	0.013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phosphorus	mg/L	-	-	1.72	0.58	3.21	0.82	0.77	3.1	0.73	0.66	9.71	0.48	0.29	1.26	14.5	8.48	10	7.81	7.94
Reactive Silica	mg/L	-	-	17.6	19	16.7	19.7	16.3	27.9	18.5	22	19	25.8	18	26.5	20.7	19.4	18.2	21.2	18.9
DOC	mg/L	5	6.0	6.9	5	6.6	7.4	8	2.7	5.8	7.8	9.6	7.3	12.1	14.3	11.3	29.1	24.2	17	17.6
Colour	TCU	5	-	3	6	6	5	4	5	5	5	6	5	5	5	20	32	18	34	24
Turbidity	NTU	5	-	1000	204	1730	552	630	1440	1330	425	3000	296	384	1020	12800	7320	2180	6190	5940
Aluminum	mg/L	0.1	0.11	0.09	0.09	0.09	0.08	0.07	0.24	0.05	0.28	0.06	0.08	0.06	0.13	0.058	0.032	0.034	0.106	0.123
Arsenic	mg/L	0.025	0.006	0.0004	0.0004	0.0003	0.0003	0.0003	0.0008	0.0003	0.0006	0.0004	0.0008	0.0005	0.0009	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Barium	mg/L	1	0.27	0.183	0.119	0.151	0.144	0.109	0.225	0.137	0.192	0.128	0.23	0.135	0.265	0.159	0.279	0.108	0.231	0.132
Boron	mg/L	5	1.3	0.673	0.666	0.773	0.682	0.568	0.976	0.646	0.765	0.639	1.18	0.678	1.18	0.585	0.997	0.418	1.17	0.459
Cadmium	mg/L	0.005	-	< 0.00015	< 0.00015	< 0.00029	< 0.00015	< 0.00015	< 0.00012	< 0.00012	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium	mg/L	0.05	-	< 0.001	0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003	0.003	< 0.003	< 0.003	< 0.003
Copper	mg/L	1	-	0.0003	0.0011	0.0003	0.0044	0.001	0.0025	0.0004	0.0015	0.0008	0.001	0.0005	0.0004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Iron	mg/L	0.3	0.2	0.314	0.189	0.215	0.09	0.122	2.23	0.484	0.967	0.564	2.05	0.818	2.17	4.03	4.08	2.92	3.8	0.67
Lead	mg/L	0.01	0.003	< 0.00004	0.00006	< 0.00009	0.00005	0.00005	0.00018	0.00006	0.00031	0.00004	< 0.00004	0.00005	< 0.00004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Manganese	mg/L	0.05	0.04	0.565	0.393	0.459	0.191	0.289	1.14	0.519	0.644	0.512	1.27	0.645	1.23	2.38	2.2	1.91	2.56	2.77
Mercury	mg/L	0.001	0.0003	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum	mg/L	-	-	0.0005	0.0005	0.0005	0.0008	0.0008	0.0003	0.0005	0.0006	0.0004	0.0003	0.0004	0.0007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel	mg/L	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0045	0.0036	0.0048	0.0034	0.0056	< 0.03	0.004	< 0.003	0.022	< 0.003
Selenium	mg/L	0.01	0.003	0.001	< 0.001	< 0.001	< 0.001	0.002	0.003	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	< 0.004	0.007	< 0.004	< 0.004	< 0.004
Silver	mg/L	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	-	-	4.87	5.1	4.85	4.19	3.31	6.04	4.31	4.6	4.88	6.26	5.3	5.8	0.412	0.564	0.352	0.6	0.351
Thallium	mg/L	-	-	< 0.00005	< 0.00005	0.00006	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin	mg/L	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium	mg/L	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.019	< 0.005	0.014	< 0.005	< 0.005	< 0.005	< 0.005	0.006	0.003	0.002	0.007	0.004
Uranium	mg/L	0.02	0.05	0.00275	0.00214	0.0022	0.00277	0.00323	0.00274	0.00288	0.00314	0.0025	0.00256	0.00267	0.00318	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	mg/L	-	-	0.0008	0.0003	0.0008	0.0011	0.0009	0.0008	0.0006	0.0016	0.0007	0.0005	0.0004	0.0007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc	mg/L	5	2.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	0.016	0.006	0.006
Total Dissolved	mg/L	500	285	907	814	833	851	749	1001	791	947	767	1130	813	1110	526	704	622	778	548
Total Hardness	mg/L	500	269	705	614	612	597	547	942	604	707	557	901	607	889	296	370	323	388	306
% Difference		-	-	0.0473	1.67	2.12	3.64	2.8	9.43	0.434	1.24	2.89	1.27	1.66	2.01	0.1	0.82	4.4	3.07	3.08

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-105 2-Nov-17	MW-105 17-May-18	MW-105 25-Oct-18	MW-105 30-Apr-19	MW-105 24-Oct-19	MW-105 27-Apr-20	MW-105 22-Oct-20	MW-105 4-May-21	MW-105 26-Oct-21	MW-105 3-May-22	MW-105 26-Oct-22	MW-105 2-May-23	MW-105 26-Oct-23	MW-105 23-Apr-24	MW-105 29-Oct-24	MW-105 30-Apr-25	MW-105 28-Oct-25
Saturation pH		-	-	6.96	6.86	6.94	7.17	7.19	7.17	7.25	7.36	7.27	7.3	7.24	7.31	7.25	7.3	7.18	7.29	7.12
pH		6.5 - 8.5	-	7.44	7.68	7.88	7.19	7.55	7.4	7.29	8.13	7.25	7.08	7.25	7.44	7.31	7.46	7.7	7.28	7.39
Langlier Index		-	-	0.48	0.82	0.94	0.0204	0.363	0.23	0.0388	0.775	-0.0216	-0.22	0.0137	0.133	0.0616	0.159	0.519	-0.0104	0.268
Alkalinity	mg/L	500	270	305	338	274	282	307	289	267	248	277	263	301	274	303	260	313	308	343
Bicarbonate	mg/L	-	-	305	338	274	282	307	289	267	248	277	263	301	274	303	260	313	308	343
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	789	826	968	844	922	874	742	599	758	666	839	706	751	632	782	817	942
Fluoride	mg/L	1.5	0.45	0.15	<0.25	<0.25	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	0.2	<0.1	0.3	0.1	<0.1	<0.1	<0.1
Chloride	mg/L	250	131	69	70.2	63.6	64.2	80.2	77.7	63.4	25	63.8	42	67.3	48.1	56.8	32.3	67.2	72.4	94.3
Nitrate	mg/L	10	2.8	<0.10	<0.25	<0.25	0.58	0.85	0.09	0.08	<0.05	0.06	0.08	0.08	0.09	0.62	<0.05	0.08	<0.05	0.08
Nitrite	mg/L	1	0.3	<0.10	<0.25	<0.25	<0.05	0.13	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	-	0.22	<0.25	<0.25	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.4
Sulphate	mg/L	500	254	36.3	48	64.6	48	35	27	13	17	11	12	16	14	14	14	15	10	12
Calcium	mg/L	-	-	59	65.9	70.7	69.7	61.4	67.8	59.5	49.3	54.8	54	54.7	50.9	54.1	54.6	61.1	47.2	63.8
Magnesium	mg/L	-	-	27.4	31.3	30.5	30.9	29.4	32.5	27.7	25	25.4	26.4	26	23.9	25.7	28.3	29.2	25.8	31.3
Sodium	mg/L	200	106	61	66.2	66.1	61.7	60.8	73.1	64.2	42.7	56.5	46.9	48.2	41.9	57.9	62.9	65.6	43.6	62.6
Potassium	mg/L	-	-	8.74	9.41	10	9	6.5	10.8	7.5	2.4	6.5	2.6	3.2	2.5	6.4	7.7	6.2	2.3	4.8
Ammonia	mg/L	-	-	0.37	0.94	1.18	1.64	2.46	0.77	0.87	0.42	1.26	0.39	0.52	1.06	1.49	0.43	1.53	2.34	3.06
Phosphate as P	mg/L	-	-	<0.20	<0.50	<0.50	4.34	10.3	0.046	0.176	0.042	0.036	0.312	0.028	0.051	0.006	0.011	0.023	0.085	0.059
Total Phosphorus	mg/L	-	-	0.06	0.13	0.2	6.3	23.9	12.1	12.8	36.2	5.76	17	15.5	12.5	1.29	23.1	23.5	7.28	38.9
Reactive Silica	mg/L	-	-	21.4	21.2	23.7	20.3	22.9	20.2	24	21.8	25	23.3	26.8	24	28.5	23.2	24.8	21.9	26.1
DOC	mg/L	5	6.0	5.9	11.6	11.1	11.9	11.5	6.2	8.8	6.8	10	7.3	4.4	5.7	7.9	12	10.4	9.1	14.3
Colour	TCU	5	-	21	24	<5	17	18	14	17	8	17	9	15	10	13	9	14	12	21
Turbidity	NTU	5	-	10100	13200	23700	6630	18900	3970	1180	11300	5200	11000	6630	6070	136	15200	7580	9920	14700
Aluminum	mg/L	0.1	0.11	0.028	0.01	0.552	0.12	0.19	0.05	0.05	0.04	0.12	0.04	0.02	0.11	1.85	0.04	0.33	0.02	0.04
Arsenic	mg/L	0.025	0.006	<0.003	<0.003	<0.003	0.0004	0.0011	0.0006	0.0006	0.0008	0.0006	0.0006	0.0007	0.0009	0.0008	0.0004	0.0007	0.001	0.0015
Barium	mg/L	1	0.27	0.099	0.149	0.143	0.147	0.126	0.171	0.098	0.084	0.104	0.091	0.094	0.082	0	0.109	0.122	0.084	0.118
Boron	mg/L	5	1.3	0.482	0.48	0.64	0.614	0.675	0.691	0.724	0.308	0.596	0.354	0.405	0.311	0.629	0.63	0.693	0.331	0.636
Cadmium	mg/L	0.005	-	<0.0001	<0.0001	<0.0001	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000010	<0.000010	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Chromium	mg/L	0.05	-	<0.003	0.004	<0.003	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Copper	mg/L	1	-	<0.002	<0.002	0.002	0.0004	0.0004	0.0016	0.001	0.0006	0.0014	0.0007	0.0004	0.0004	0.0008	0.0007	0.0009	0.0005	0.0006
Iron	mg/L	0.3	0.2	2.44	3.01	3.68	3.18	3.22	0.02	3.26	1.14	3.03	1.42	1.47	2.11	1.2	3.19	3.27	1.73	3.9
Lead	mg/L	0.01	0.003	<0.002	<0.001	<0.001	0.00006	0.00008	0.00004	0.00005	0.00002	0.00007	0.00003	0.00003	0.00005	0.00006	0.00002	0.00011	0.00005	<0.00002
Manganese	mg/L	0.05	0.04	1.43	1.93	2.05	1.99	1.66	1.65	1.87	1.62	1.55	1.88	1.2	1.97	1.37	1.64	1.6	1.96	1.81
Mercury	mg/L	0.001	0.0003	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	mg/L	-	-	<0.002	<0.002	<0.002	0.0001	0.0002	0.0004	<0.0001	0.0004	0.0002	0.0005	0.0004	0.0003	0.0006	0.0001	0.0003	0.0004	0.0003
Nickel	mg/L	-	-	<0.003	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.001	0.0019	0.002	0.0011	0.0013
Selenium	mg/L	0.01	0.003	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.315	0.394	0.373	0.425	0.4	0.431	0.38	0.308	0.357	0.331	0.328	0.309	0.352	0.387	0.396	0.322	0.416
Thallium	mg/L	-	-	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	0.002	<0.002	0.031	0.007	0.012	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	0.007	0.103	<0.005	0.019	<0.005	<0.005
Uranium	mg/L	0.02	0.05	<0.002	<0.002	<0.002	0.00018	0.00037	0.00058	0.00016	0.00038	0.00029	0.00037	0.00044	0.00039	0.00062	0.00011	0.00032	0.00044	0.00032
Vanadium	mg/L	-	-	<0.002	0.004	<0.002	0.0008	0.0013	0.0008	0.0005	0.0005	0.0012	0.0004	0.0007	0.0008	0.0011	0.0004	0.0012	0.0004	0.0005
Zinc	mg/L	5	2.5	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Total Dissolved	mg/L	500	285	422	460	494	460	466	465	399	314	390	346	400	352	404	361	440	389	481
Total Hardness	mg/L	500	269	260	293	302	301	274	303	293	226	241	244	243	263	241	253	273	224	288
% Difference		-	-	4.21	3.69	3.53	4.6	2.76	6.03	6.1	4.44	1.32	3.3	6.82	4.23	1.78	12.5	2.01	12	4.77
Biochemical Oxygen	mg/L	-	-	<5	<5	8	<3	6	9	4	4	3	3	4	<3	4	7	<3	5	10
Total Kjeldahl	mg/L	-	-	0.77	1.5	1.5	5.2	15.2	11.4	15.5	31.5	7	6.6	11.2	9.8					

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-106 28-Apr-15	MW-106 20-Oct-15	MW-106 19-Apr-16	MW-106 25-Oct-16	MW-106 2-May-17	MW-106 2-Nov-17	MW-106 17-May-18	MW-106 25-Oct-18	MW-106 30-Apr-19	MW-106 24-Oct-19	MW-106 27-Apr-20	MW-106 22-Oct-20	MW-106 4-May-21	MW-106 26-Oct-21	MW-106 3-May-22	MW-106 26-Oct-22	MW-106 2-May-23
Saturation pH		-	-	9.33	8.52	9.6	8.34	9.37	8.85	9.47	8.98	9.3	9.41	9.72	9	9.47	8.94	9.39	8.37	9.05
pH		6.5 - 8.5	-	7.23	7.26	6.43	7.16	6.69	6.42	6.24	6.71	6.29	6.52	6.29	6.31	7	6.17	6.23	6.45	6.39
Langlier Index		-	-	-2.1	-1.26	-3.17	-1.18	-2.68	-2.43	-3.23	-2.27	-3.01	-2.89	-3.43	6.22	-2.47	-2.77	-3.16	-1.92	-2.66
Alkalinity	mg/L	500	270	18	48	13	58	17	34	13	23	18	18	12	31	20	30	19	54	26
Bicarbonate	mg/L	-	-	18	48	13	58	17	34	13	23	18	18	12	31	20	30	19	54	26
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	85	140	67	176	66	93	72	123	74	78	62	117	78	116	71	216	113
Fluoride	mg/L	1.5	0.45	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	250	131	4.79	6.48	3.29	9.19	5.46	3.92	9.02	12.7	4	4.8	5.5	9.7	5.5	8.9	5	22.1	12.6
Nitrate	mg/L	10	2.8	0.3	0.45	0.6	0.92	0.44	0.32	0.34	0.32	0.25	0.32	0.32	0.48	0.52	0.51	0.23	0.54	0.38
Nitrite	mg/L	1	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	500	254	8.17	10.2	7.22	11.4	6.56	7.84	5.2	7.2	4	6	5	6	6	6	5	7	6
Calcium	mg/L	-	-	4.22	13.3	3.08	13.9	3.63	6.84	3.67	7.14	5.89	4.57	3.39	6.91	3.49	8.22	4.47	18.4	7.49
Magnesium	mg/L	-	-	1.13	2.33	0.9	2.89	1.41	1.82	1.51	2.23	1.68	1.37	1.04	2.05	1.14	2.35	1.33	4.42	2.01
Sodium	mg/L	200	106	6.9	9.19	7.92	15.2	6.69	8.75	7.34	10.3	6.3	7.7	5.9	9.2	6.8	9.6	6.8	17.7	8.2
Potassium	mg/L	-	-	0.38	1.73	0.35	1.17	0.42	0.59	0.33	0.55	0.3	0.4	0.3	0.5	0.4	0.6	0.3	1.2	0.6
Ammonia	mg/L	-	-	0.07	<0.02	0.04	<0.02	<0.02	<0.02	0.03	0.02	0.05	0.26	0.05	0.19	0.08	0.07	0.13	0.12	0.41
Phosphate as P	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.061	0.066	0.027	0.144	0.053	0.054	0.163	0.07	0.178
Total Phosphorus	mg/L	-	-	0.04	0.26	0.23	0.16	0.03	0.09	0.02	<0.02	0.1	0.15	0.24	0.23	0.17	0.19	0.12	0.4	0.34
Reactive Silica	mg/L	-	-	11.7	11.7	10.1	12.1	9.33	12.6	10.6	11.1	6.48	8.43	9.5	10.4	11	10.4	9.29	12.1	8.27
DOC	mg/L	5	6.0	4.8	12.4	7.4	9	6	7.2	4	6.5	6.6	7.3	4.1	7	5.7	7.6	5.9	7.6	6.2
Colour	TCU	5	-	9	8	12	29	12	9	5	<5	8	19	3	10	6	24	5	17	6
Turbidity	NTU	5	-	60.5	1380	451	184	102	51.7	39.6	54.4	102	95.5	141	322	246	191	167	509	337
Aluminum	mg/L	0.1	0.11	0.148	0.073	0.175	0.664	0.23	0.136	0.097	0.143	0.16	0.13	0.12	0.16	0.11	0.13	0.13	0.27	0.1
Arsenic	mg/L	0.025	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0002	0.0002	0.0001	0.0003	0.0001	0.0002	0.0001	0.0002	0.0001
Barium	mg/L	1	0.27	0.011	0.028	0.007	0.032	0.013	0.02	0.015	0.023	0.014	0.013	0.008	0.019	0.013	0.025	0.016	0.053	0.02
Boron	mg/L	5	1.3	0.011	0.019	0.013	0.039	0.04	0.032	0.02	0.051	0.023	0.029	0.012	0.031	0.019	0.034	0.011	0.044	0.021
Cadmium	mg/L	0.005	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000018	0.000019	0.000018	0.000022	0.000017	0.000021	<0.000015	0.000055	0.000021
Chromium	mg/L	0.05	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	<0.001	0.003
Copper	mg/L	1	-	0.003	0.006	0.004	0.01	0.004	0.004	0.004	0.005	0.0038	0.0052	0.0039	0.0055	0.0029	0.0059	0.0052	0.0147	0.0031
Iron	mg/L	0.3	0.2	0.03	<0.1	<0.1	0.26	<0.1	<0.1	<0.1	<0.1	0.023	0.032	0.036	0.169	0.027	0.053	0.049	0.303	0.107
Lead	mg/L	0.01	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00005	0.00008	0.00006	0.00014	<0.00002	0.00014	0.00003	0.00134	0.00003
Manganese	mg/L	0.05	0.04	0.012	0.053	0.005	0.038	0.006	0.013	0.006	0.097	0.017	0.009	0.013	0.052	0.008	0.023	0.005	0.056	0.009
Mercury	mg/L	0.001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	0.0001	0.0002	0.0002	<0.0001
Nickel	mg/L	-	-	<0.003	0.003	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Selenium	mg/L	0.01	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.026	0.076	0.021	0.093	0.025	0.048	0.029	0.043	0.042	0.032	0.022	0.049	0.028	0.058	0.032	0.12	0.052
Thallium	mg/L	-	-	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	0.002	<0.002	0.003	0.009	0.004	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Uranium	mg/L	0.02	0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00006	0.00009	<0.00005	0.00006	<0.00005	0.00011	0.00006	0.00054	0.00005
Vanadium	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.0003	0.0006	0.0004	0.0006	0.0005	0.0005	0.0004	0.0007	0.0004
Zinc	mg/L	5	2.5	<0.005	0.011	0.005	0.01	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005
Total Dissolved	mg/L	500	285	66	184	120	148	78	54	54	92	33	36	28	54	36	54	35	104	53
Total Hardness	mg/L	500	269	15.2	42.8	11.4	46.6	14.9	24.6	15.4	27	22	17	13	26	13	30	17	64	27
% Difference		-	-	5.2	3.25	3.4	2.98	5.02	4.82	0.776	0.61	10.9	4.8	0.582	5.93	11.7	1.11	0.519	5.25	5.45
Biochemical Oxygen	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	6	<3	<3	<3	<3	<3	<3	<3	<3
Total Kjeldahl	mg/L	-	-	0.19	0.3	1.2	0.3	0.32	0.27	0.14	<0.10	0.4	0.4	0.6	0.6	0.5	0.6	0.4	0.7	0.6
Chemical Oxygen	mg/L	-	-	12	15	<5	11	11	<5	<5	10	22	26	23	<5	26	12	46	86	<5
Phenols	mg/L	-	-	<0.001	<0.001	0.001	<0.001													

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-106 26-Oct-23	MW-106 23-Apr-24	MW-106 29-Oct-24	MW-106 30-Apr-25	MW-106 28-Oct-25	MW-107D 28-Apr-15	MW-107D 20-Oct-15	MW-107D 19-Apr-16	MW-107D 25-Oct-16	MW-107D 2-May-17	MW-107D 17-May-18	MW-107D 25-Oct-18	MW-107D 30-Apr-19	MW-107D 24-Oct-19	MW-107D 27-Apr-20	MW-107D 22-Oct-20	MW-107D 4-May-21
Saturation pH		-	-	8.37	8.92	8.4	8.99	8.36	6.61	6.74	6.7	6.76	6.68	6.72	6.89	6.97	6.97	7.01	6.45	6.82
pH		6.5 - 8.5	-	6.39	6.51	6.78	6.43	6.67	8.37	8.14	8	8.21	8.16	8.08	7.83	7.85	8.03	7.96	7.45	8.22
Langlier Index		-	-	-1.98	-2.41	-1.62	-2.56	-1.69	1.76	1.4	1.3	1.45	1.48	1.36	0.94	0.881	1.06	0.947	1	1.4
Alkalinity	mg/L	500	270	67	35	62	29	53	534	412	505	430	478	483	360	411	413	385	678	441
Bicarbonate	mg/L	-	-	67	35	62	29	53	520	412	505	430	478	483	360	411	413	385	678	441
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	178	132	176	113	221	1510	1580	1760	1450	1650	1320	1420	1900	1660	1750	1830	1500
Fluoride	mg/L	1.5	0.45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.1	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	250	131	10.8	12.3	11.8	10.7	26	139	247	230	226	199	172	171	321	253	307	148	197
Nitrate	mg/L	10	2.8	0.39	0.16	0.81	0.14	0.84	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	0.19	0.06	0.06	0.89
Nitrite	mg/L	1	0.3	<0.05	<0.05	0.07	<0.05	<0.05	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	0.15
Bromide	mg/L	-	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.25	<0.25	0.43	<0.25	0.77	<0.25	<0.25	<0.4	0.7	1	<0.4	0.5
Sulphate	mg/L	500	254	6	8	8	9	10	70.2	13	41.3	8.81	37.3	22.8	10.7	61	6	10	15	11
Calcium	mg/L	-	-	14.8	7.54	14.8	7.68	19.4	82.3	76.5	65	76	80	71.3	65.4	84.9	80.3	80.2	171	104
Magnesium	mg/L	-	-	3.35	2.19	3.36	1.92	4.69	35.8	36.3	35.7	29.7	33.6	31.4	27.2	34.5	33	32	32.9	22.1
Sodium	mg/L	200	106	15.2	9.6	16.5	9.1	17.7	131	131	153	134	135	122	119	173	168	201	165	111
Potassium	mg/L	-	-	1.2	0.7	1.4	0.7	1.2	76.7	57.4	73.4	47.8	63.7	57.6	51.2	78.8	66.2	76.7	79.8	53.3
Ammonia	mg/L	-	-	0.4	0.16	0.28	0.05	<0.05	11	9.3	13	8.6	10.9	10.8	10.6	15	11.6	11.3	31	11.4
Phosphate as P	mg/L	-	-	0.324	0.081	0.166	0.177	0.061	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.08	1.04	<0.002	0.021	0.005
Total Phosphorus	mg/L	-	-	0.46	0.2	0.7	0.22	0.55	0.04	0.6	0.03	2.76	0.02	0.02	<0.02	0.08	1.17	1.24	3.1	3.86
Reactive Silica	mg/L	-	-	8.8	7.8	9.7	6.83	10.7	5.54	5.48	5.07	5.16	6.13	5.57	4.99	5.33	5.86	5.95	15.6	10.3
DOC	mg/L	5	6.0	11	5.7	7.2	6.6	7.3	17.7	17.7	16.4	23.7	15.2	13.6	13.7	8.6	9.8	7.2	23.8	10.7
Colour	TCU	5	-	19	8	240	2	2	15	9	11	9	14	10	<5	9	10	8	63	15
Turbidity	NTU	5	-	806	470	3730	296	2920	448	294	235	521	575	965	821	215	137	316	1710	1140
Aluminum	mg/L	0.1	0.11	0.09	0.12	0.09	0.13	0.09	0.04	0.37	0.058	0.026	0.028	0.029	0.072	0.07	0.05	0.06	0.21	1.07
Arsenic	mg/L	0.025	0.006	0.0002	0.0001	0.0002	0.0002	0.0002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0005	0.0004	0.0004	0.0016	0.0006
Barium	mg/L	1	0.27	0.032	0.018	0.03	0.016	0.043	0.17	0.298	0.287	0.315	0.406	0.42	0.453	0.65	0.66	0.667	0.547	0.572
Boron	mg/L	5	1.3	0.032	0.033	0.038	0.037	0.043	1.07	1.02	1.1	0.926	1.15	1.2	1.14	1.18	1.29	1.45	1.61	1.2
Cadmium	mg/L	0.005	-	0.000037	0.000019	0.000033	0.000019	0.000025	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00015	<0.00015	<0.00015	<0.00029	0.00064
Chromium	mg/L	0.05	-	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.008	<0.003	<0.003	<0.003	0.004	<0.003	<0.001	<0.001	<0.001	0.005	0.001
Copper	mg/L	1	-	0.0113	0.0051	0.0072	0.0025	0.0081	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.0003	0.0003	0.0008	0.0017	0.0028
Iron	mg/L	0.3	0.2	0.05	0.041	0.069	0.023	0.049	6.85	8.95	7.34	2.41	6.33	5.12	3.72	3.84	2.87	3.66	5.03	8.97
Lead	mg/L	0.01	0.003	0.00032	0.00006	0.00012	0.00006	0.00015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00007	<0.00004	0.00009	0.00028	0.00477
Manganese	mg/L	0.05	0.04	0.092	0.005	0.052	0.002	0.026	0.224	0.248	0.244	0.164	0.194	0.186	0.15	0.155	0.143	0.186	6.05	1.12
Mercury	mg/L	0.001	0.0003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	0.00005	<0.00002	<0.00002	0.00002
Molybdenum	mg/L	-	-	0.0003	0.0002	0.0004	<0.0001	0.0002	0.002	<0.002	0.003	<0.002	0.003	0.002	0.003	0.0029	0.0024	0.0023	0.0013	0.0012
Nickel	mg/L	-	-	0.0036	0.0014	0.003	0.0007	0.0027	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	0.003	<0.01	<0.01	<0.01	0.02	<0.01
Selenium	mg/L	0.01	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002	0.002	<0.002
Silver	mg/L	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
Strontium	mg/L	-	-	0.093	0.055	0.092	0.04	0.126	0.492	0.709	0.619	0.62	0.662	0.614	0.51	0.68	0.673	0.682	0.969	0.634
Thallium	mg/L	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005
Uranium	mg/L	0.02	0.05	0.00021	<0.00005	0.00018	<0.00005	0.00019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00005	<0.00005	<0.00005	0.00008	0.0001
Vanadium	mg/L	-	-	0.0004	0.0004	0.0004	0.0004	0.0003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.0001	<0.0001	<0.0001	0.0008	<0.0007
Zinc	mg/L	5	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	0.013	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	0.026
Total Dissolved	mg/L	500	285	94	62	97	57	115	776	786	792	736	770	696	676	1023	872	956	1025	788
Total Hardness	mg/L	500	269	50.8	27.8	50.8	27.1	67.8	353	341	309	312	338	307	275	354	336	332	563	351
% Difference		-	-	2.64	9.98	0.635	5.87	2.33	1.8	2.82	5.5	4.34	2.96	4.53	1.98	1.8	3.61	5.12	6.9	0.49
Biochemical Oxygen	mg/L	-	-	<3	<3	<3	<3	<3	<5	<5	8	7	9	27	18	16	8	15	18	15
Total Kjeldahl	mg/L	-	-	0.9	0.7	1.6														

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW-107D 4-May-21	MW-107D 26-Oct-21	MW-107D 3-May-22	MW-107D 30-Apr-25	MW-107S 28-Apr-15	MW-107S 17-May-18	MW-107S 25-Oct-18	MW-107S 30-Apr-19	MW-107S 24-Oct-19
Saturation pH		-	-	6.81	6.66	6.79	6.83	5.9	5.59	5.72	5.82	5.79
pH		6.5 - 8.5	-	8.25	7.4	7	7.23	8.14	7.83	7.97	7.22	7.58
Langlier Index		-	-	1.44	0.743	0.212	0.401	2.24	2.24	2.25	1.4	1.79
Alkalinity	mg/L	500	270	448	535	406	340	1090	2100	1720	1850	1940
Bicarbonate	mg/L	-	-	448	535	406	340	1090	2100	1720	1850	1940
Carbonate	mg/L	-	-	< 5	< 5	< 5	<5	<5	<5	<5	< 5	< 5
Hydroxide	mg/L	-	-	< 5	< 5	< 5	<5	<5	<5	<5	< 5	< 5
Electrical Conductivity	µS/cm	-	-	1450	1400	1010	821	2470	4560	5030	4840	4650
Fluoride	mg/L	1.5	0.45	< 0.1	< 0.1	< 0.1	<0.1	<0.5	<2.5	<2.5	< 1	< 3
Chloride	mg/L	250	131	176	87.1	42.5	5.6	200	447	371	379	333
Nitrate	mg/L	10	2.8	1.96	0.05	0.09	1.65	<0.5	<2.5	<2.5	0.61	5.75
Nitrite	mg/L	1	0.3	0.16	< 0.05	< 0.05	<0.05	<0.5	<2.5	<2.5	< 0.5	< 1
Bromide	mg/L	-	-	0.5	< 0.4	< 0.4	<0.4	1.2	<2.5	<2.5	< 4	< 10
Sulphate	mg/L	500	254	12	46	29	81	2	36.4	11	16	< 30
Calcium	mg/L	-	-	105	125	119	127	324	307	289	271	282
Magnesium	mg/L	-	-	22.6	18.8	13.9	10.2	26.9	51.5	40.6	41.2	46.2
Sodium	mg/L	200	106	114	82.2	42.6	12.5	167	449	388	369	384
Potassium	mg/L	-	-	54.2	47.4	28.2	15.2	64.3	210	181	199	209
Ammonia	mg/L	-	-	11.6	15.2	14.3	2.71	55.2	152	164	212	211
Phosphate as P	mg/L	-	-	0.008	0.007	0.085	0.254	<1.0	<5.0	<5.0	3.24	2.88
Total Phosphorus	mg/L	-	-	3.63	22.7	92.7	77.8	0.1	0.52	1.89	4.13	17.3
Reactive Silica	mg/L	-	-	10.3	13	10.9	8.97	22.6	24.3	26.3	23.5	24.2
DOC	mg/L	5	6.0	11	23.2	15.7	15.4	81	243	228	137	147
Colour	TCU	5	-	13	78	28	14	84	498	362	282	400
Turbidity	NTU	5	-	138	4620	25500	14500	465	1.9	231	172	199
Aluminum	mg/L	0.1	0.11	1.08	0.13	0.1	0.07	0.046	0.096	0.098	0.14	0.11
Arsenic	mg/L	0.025	0.006	0.0006	0.0016	0.0012	0.0007	0.004	0.038	0.017	0.009	0.0093
Barium	mg/L	1	0.27	0.582	0.163	0.121	0.103	0.252	0.362	0.514	0.394	0.448
Boron	mg/L	5	1.3	1.23	1.1	0.645	0.402	3.46	7.47	7.58	8.28	8.48
Cadmium	mg/L	0.005	-	< 0.000059	< 0.000015	< 0.000015	0.000024	<0.0001	<0.0001	<0.0001	< 0.000015	< 0.000059
Chromium	mg/L	0.05	-	0.001	0.003	0.003	0.001	0.012	0.038	0.027	0.023	0.021
Copper	mg/L	1	-	0.0027	0.0014	0.0027	0.0021	<0.002	<0.002	<0.002	0.0009	< 0.0003
Iron	mg/L	0.3	0.2	8.95	9.79	19	2.73	23.1	15.7	18.8	1.47	5
Lead	mg/L	0.01	0.003	0.00493	0.00034	0.00024	0.0004	<0.002	<0.001	<0.001	0.00009	< 0.0002
Manganese	mg/L	0.05	0.04	1.13	3.29	2.96	1.25	3.32	2.49	2.06	1.35	1.7
Mercury	mg/L	0.001	0.0003	0.00002	< 0.00002	< 0.00002	<0.00002	<0.0001	<0.0001	<0.0001	< 0.00002	0.00006
Molybdenum	mg/L	-	-	0.0006	0.0005	0.0002	0.0002	<0.002	<0.002	<0.002	0.0004	0.0005
Nickel	mg/L	-	-	< 0.01	< 0.01	< 0.01	0.0057	0.003	0.01	<0.003	< 0.01	< 0.01
Selenium	mg/L	0.01	0.003	< 0.002	0.001	0.001	<0.001	<0.004	0.009	0.005	0.008	0.006
Silver	mg/L	-	-	< 0.0002	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	< 0.0002
Strontium	mg/L	-	-	0.648	0.634	0.542	0.534	1.38	1.5	1.17	1.23	1.32
Thallium	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	<0.00005	<0.0003	<0.0003	<0.0003	< 0.00005	< 0.00005
Tin	mg/L	-	-	< 0.05	< 0.05	< 0.05	<0.05	<0.002	<0.002	<0.002	< 0.05	< 0.05
Titanium	mg/L	-	-	< 0.005	< 0.005	< 0.005	<0.005	0.004	0.022	0.02	0.014	0.021
Uranium	mg/L	0.02	0.05	0.00007	0.0002	0.00016	0.00031	<0.002	<0.002	<0.002	0.00015	0.00011
Vanadium	mg/L	-	-	< 0.0007	0.001	0.0013	0.0004	0.003	0.02	0.007	0.0076	0.0078
Zinc	mg/L	5	2.5	0.029	0.007	0.016	0.007	0.007	0.009	0.017	0.017	0.015
Total Dissolved	mg/L	500	285	778	760	560	467	1410	2670	2450	2663	2704
Total Hardness	mg/L	500	269	355	390	355	358	920	979	889	847	895
% Difference		-	-	1.61	0.729	8.64	2.76	6.4	0.0414	6.14	4.95	6.1
Biochemical Oxygen	mg/L	-	-	9	12	14	12	23	144	92	8	70
Total Kjeldahl	mg/L	-	-	20	56.6	193	118	59	216	268	247	249
Chemical Oxygen	mg/L	-	-	479	1010	6440	3230	190	470	517	737	620
Phenols	mg/L	-	-	< 0.002	< 0.002	< 0.001	0.004	0.009	0.021	<0.001	0.008	0.004
pH (Field)		-	-	6.81	6.39	6.81	6.9	7.06	6.45	6.95	6.62	6.94
Temperature (Field)	°C	-	-	13.3	12.1	11.6	8.6	12.7	18.5	16.5	18.7	12.6
Conductivity (Field)	µS/cm	-	-	1100	1510	961	782	2500	4700	>4000	3600	3621

* Prior to 2019 was dissolved phosphorus
 † where nitrate and nitrite are present, then total should not exceed 10 mg/l
 Bold and highlighted indicates ODWQS exceedance
 Bold, italics and underlined indicates RUP exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	
			28-Apr-15	04-Aug-15	20-Oct-15	19-Apr-16	23-Aug-16	25-Oct-16	02-May-17	09-Aug-17	02-Nov-17	17-May-18	15-Aug-18	25-Oct-18	30-Apr-19	21-Aug-19	24-Oct-19	27-Apr-20
Saturation pH		-	9.77	Dry	Dry	10	Dry	8.92	9.83	9.61	9.57	9.1	Dry	9.44	10.2	Dry	10	9.9
pH		6.5-8.5	6.98			6.34		6.82	6.48	6.57	6.21	6.5		6.59	6.83		6.55	6.46
Langlier Index		-	-2.79			-3.68		-2.1	-3.35	-3.04	-3.36	-2.6		-2.85	-3.37		-3.47	-3.44
Alkalinity (as CaCO3)	mg/L	262	8			6		26	8	10	11	24		11	8		7	8
Bicarbonate (as CaCO3)	mg/L	-	8			6		26	8	10	11	24		11	8		7	8
Carbonate (as CaCO3)	mg/L	-	<5			<5		<5	<5	<5	<5	<5		<5	< 5		< 5	< 5
Hydroxide		-	<5			<5		<5	<5	<5	<5	<5		<5	< 5		< 5	< 5
Electrical Conductivity	µS/cm	-	28			23		76	28	29	29	43		51	27		31	27
Fluoride	mg/L	-	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	< 0.1		< 0.1	< 0.1
Chloride	mg/L	-	0.82			0.51		2.57	0.4	0.4	0.61	1.04		1.36	1.1		1.4	1.5
Nitrate as N	mg/L	-	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	< 0.05		< 0.05	0.09
Nitrite as N	mg/L	-	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	< 0.05		< 0.05	< 0.05
Bromide	mg/L	-	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	< 0.4		< 0.4	< 0.4
Sulphate	mg/L	-	1.98			2.93		2.41	3	1.17	0.67	0.39		4.36	2		3	2
Calcium	mg/L	-	2.9			2.19		8.41	2.56	3.42	3.21	4.57		5.4	10.5		3.82	3.27
Magnesium	mg/L	-	0.81			0.59		2.58	0.71	0.88	1	1.28		1.44	2.57		1.02	0.84
Sodium	mg/L	-	1.46			1.12		1.92	1.12	1.2	1.3	1.91		1.96	3.2		1.6	1.7
Potassium	mg/L	-	0.25			0.43		3.3	0.33	0.13	0.43	0.54		0.78	0.3		0.4	0.2
Ammonia as N	mg/L	-	<0.02			<0.02		0.12	<0.02	0.07	0.03	0.08		<0.02	0.15		0.03	< 0.01
Un-ionized Ammonia	mg/L	0.02	<0.0002			<0.0002		0.000118	<0.0002	0.000151	0.000336	0.000623		<0.0002	0.003419		0.000121	<0.0002
Phosphate as P	mg/L	-	<0.10			<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	0.016		0.004	< 0.002
Total Phosphorus	mg/L	0.03	0.03			0.02		0.21	0.01	0.04	0.03	0.05		0.04	0.01		0.05	0.02
Reactive Silica	mg/L	-	4.84			6.32		9.48	6.55	8.71	8.34	1.84		11.4	4.88		9.39	4.32
Total Organic Carbon	TCU	-	6.2			5.8		41.2	7.8	16.7	7.7	11.9		16.7	7.4		13.5	8.4
Colour	NTU	-	57			40		686	63	88	59	108		97	46		88	67
Turbidity	mg/L	-	2.4			3.1		18	3.1	2.2	2.9	328		5.4	2.2		4.8	2.4
Aluminum	mg/L	0.075	0.086			0.119		0.509	0.141	0.168	0.116	0.096		0.185	0.17		0.27	0.15
Arsenic	mg/L	0.005	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	0.0001		0.0002	0.0001
Barium	mg/L	-	0.009			0.008		0.031	0.011	0.013	0.01	0.017		0.016	0.03		0.014	0.011
Boron	mg/L	0.2	<0.010			0.014		0.014	0.033	<0.010	<0.010	0.018		0.015	0.038		< 0.005	< 0.005
Cadmium	mg/L	0.0002	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	0.000024		0.000026	< 0.000015
Chromium	mg/L	0.0089	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	0.001		0.001	0.001
Copper	mg/L	0.005	<0.002			<0.002		0.003	<0.002	<0.002	<0.002	<0.002		0.023	0.0018		0.0014	0.001
Iron	mg/L	0.3	0.252			0.327		6.59	0.2	0.645	0.32	1		0.678	0.294		0.589	0.313
Lead	mg/L	0.001	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.001		0.059	0.00032		0.00033	0.00013
Manganese	mg/L	-	0.02			0.011		0.488	0.011	0.057	0.015	0.142		0.075	0.012		0.041	0.018
Mercury	mg/L	0.0002	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	< 0.00002		0.00006	< 0.00002
Molybdenum	mg/L	0.04	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	< 0.0001		< 0.0001	< 0.0001
Nickel	mg/L	0.025	<0.003			<0.003		0.004	<0.003	<0.003	<0.003	<0.003		<0.003	< 0.01		< 0.01	< 0.01
Selenium	mg/L	0.1	<0.004			<0.004		<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	< 0.001		< 0.001	< 0.001
Silver	mg/L	0.0001	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	< 0.0001		< 0.0001	< 0.0001
Strontium	mg/L	-	0.021			0.015		0.071	0.021	0.027	0.028	0.043		0.038	0.078		0.026	0.023
Thallium	mg/L	0.0003	<0.0003			<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		<0.0003	< 0.00005		< 0.00005	< 0.00005
Tin	mg/L	-	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	< 0.05		< 0.05	< 0.05
Titanium	mg/L	-	0.004			0.018		0.023	0.009	0.006	0.007	0.004		0.006	0.008		0.017	0.007
Uranium	mg/L	0.005	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	< 0.00005		< 0.00005	< 0.00005
Vanadium	mg/L	0.006	<0.002			<0.002		0.005	<0.002	<0.002	<0.002	0.004		<0.002	0.0006		0.0009	0.0005
Zinc	mg/L	0.03	0.005			0.009		0.014	0.006	<0.005	0.006	0.008		0.047	0.009		0.008	0.008
Total Dissolved Solids	mg/L	-	34			<20		164	42	44	22	36		78	13		15	15
Total Hardness (as CaCO3)		-	10.6			7.9		31.6	9.3	12.2	12.1	16.7		19.4	37		14	12
% Difference/Ion Balance	mg/L	-	11.3			5.4		11.4	2.02	12.6	10.8	8.54		17.1	10.3		14.7	14.3
Biochemical Oxygen Demand	mg/L	-	<5			<5		<5	<5	<5	<5	<5		<5	7		< 3	< 3
Total Kjeldahl Nitrogen	mg/L	-	0.3			0.6		3.36	0.25	0.7	0.44	0.59		0.54	0.4		0.6	3.9
Chemical Oxygen Demand	mg/L	-	16			7		162	19	38	21	21		38	23		34	32
Phenols	mg/L	0.001	<0.001			<0.001		0.003	<0.001	<0.001	<0.001	0.001		0.004	< 0.002		< 0.002	< 0.002
Total Suspended Solids		-	<10			<10		22	<10	<10	<10	<10		13	< 3		< 3	< 3
Conductivity (field)	µS/cm	-	50			74		71	22	25	39	39		584	20		32	29
Temperature (field)	oC	-	8.1			5.4		5.2	8.1	18	8.1	16.8		2.8	6.2		7.3	6.3
pH (field)		-	6.29			7.81		6.89	7.1	6.8	7.85	7.4		6.98	8.23		7.43	7.57
Dissolved Oxygen	mg/L	-	4.35			8.3		6.52	3.14	2.89	10.05	10.5		4.02	5.66		3.62	5.15

Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	SW1	
			17-Aug-20	22-Oct-20	04-May-21	24-Aug-21	26-Oct-21	03-May-22	22-Aug-22	20-Oct-22	02-May-23	16-Aug-23	26-Oct-23	23-Apr-24	14-Aug-24	29-Oct-24	30-Apr-25
Saturation pH		-	8.96	9.72	9.71	Dry	9.67	9.76	Dry	9.38	10	9.3	9.56	9.71	Dry	Dry	9.79
pH		6.5-8.5	6.37	6.82	6.91		6.41	6.73		6.4	6.52	6.12	6.69	6.51			6.68
Langlier Index		-	-2.59	-2.9	-2.8		-3.26	-3.03		-2.98	-3.48	-3.18	-2.87	-3.2			-3.11
Alkalinity (as CaCO3)	mg/L	262	15	11	11		12	11		11	7	13	11	12			10
Bicarbonate (as CaCO3)	mg/L	-	15	11	11		12	11		11	7	13	11	12			10
Carbonate (as CaCO3)	mg/L	-	< 5	< 5	< 5		< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5
Hydroxide		-	< 5	< 5	< 5		< 5	< 5		< 5	< 5	< 5	< 5	< 5			< 5
Electrical Conductivity	µS/cm	-	56	31	30		30	30		61	23	52	43	27			29
Fluoride	mg/L	-	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1
Chloride	mg/L	-	2.2	0.6	2.2		0.9	0.8		1.8	0.7	0.9	1.8	< 0.5			0.8
Nitrate as N	mg/L	-	0.6	0.06	< 0.05		< 0.05	0.09		0.05	0.09	0.58	< 0.05	< 0.05			< 0.05
Nitrite as N	mg/L	-	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05
Bromide	mg/L	-	< 0.4	< 0.4	< 0.4		< 0.4	< 0.4		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4			< 0.4
Sulphate	mg/L	-	2	< 1	2		< 1	1		8	2	4	4	1			1
Calcium	mg/L	-	15.1	3.95	3.73		3.77	3.31		7.96	2.7	7.82	5.18	3.32			3.39
Magnesium	mg/L	-	3	1.1	0.98		0.94	0.83		2.06	0.71	1.71	1.45	0.88			0.9
Sodium	mg/L	-	2.6	1.7	2		1.8	1.6		2.3	1.5	1.7	1.8	1.9			1.9
Potassium	mg/L	-	0.9	0.3	0.1		0.2	0.1		1.3	0.2	0.6	0.5	0.2			0.1
Ammonia as N	mg/L	-	0.08	0.03	0.04		0.07	0.09		0.05	0.02	0.07	0.06	0.11			0.07
Un-ionized Ammonia	mg/L	0.02	0.0007304	0.000114	1.91E-05		0.000235	0.000338		3.41E-05	9.194E-06	0.00015	4.72E-05	0.000733			0.000156
Phosphate as P	mg/L	-	0.05	0.018	0.004		0.006	0.027		0.03	0.005	0.04	0.02	0.004			0.012
Total Phosphorus	mg/L	0.03	0.18	0.03	0.022		0.05	0.04		0.09	0.02	0.19	0.1	0.04			0.04
Reactive Silica	mg/L	-	8.05	9.65	4.34		10	3.1		11.4	8.13	7.19	10.8	6.48			5.95
Total Organic Carbon	TCU	-	37	10.1	9.1		9.5	9.5		26.8	10.7	43	26.8	6.8			10
Colour	NTU	-	423	85	60		62	54		240	47	261	212	52			65
Turbidity	mg/L	-	1930	2.7	2		1.9	1.5		4.1	4.6	8	4.3	2.6			2.9
Aluminum	mg/L	0.075	0.33	0.24	0.13		0.13	0.12		0.3	0.2	0.29	0.31	0.17			0.23
Arsenic	mg/L	0.005	0.0006	0.0002	0.0002		0.0002	0.0001		0.0003	0.0001	0.0006	0.0002	0.0001			0.0002
Barium	mg/L	-	0.044	0.011	0.009		0.01	0.01		0.027	0.009	0.025	0.022	0.01			0.011
Boron	mg/L	0.2	0.009	< 0.005	< 0.005		< 0.005	< 0.005		0.005	0.007	0.005	< 0.005	< 0.005			< 0.005
Cadmium	mg/L	0.0002	0.000062	0.000018	< 0.000015		0.000015	0.000018		0.000053	< 0.000015	0.000048	0.000037	< 0.000015			0.000025
Chromium	mg/L	0.0089	0.002	0.001	0.001		0.001	< 0.001		0.003	0.003	0.002	< 0.001	< 0.001			< 0.001
Copper	mg/L	0.005	0.0029	0.0007	0.0008		0.0006	0.0009		0.0022	0.0011	0.0019	0.0013	0.0008			0.001
Iron	mg/L	0.3	4.49	0.529	0.481		0.581	0.376		1.35	0.307	6.34	1.26	0.308			0.444
Lead	mg/L	0.001	0.00063	0.00017	0.00013		0.00015	0.00012		0.00046	0.0002	0.00066	0.00038	0.00014			0.00018
Manganese	mg/L	-	0.309	0.034	0.022		0.034	0.031		0.127	0.013	0.571	0.156	0.02			0.042
Mercury	mg/L	0.0002	< 0.00002	< 0.00002	< 0.00002		< 0.00002	< 0.00002		< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002			< 0.00002
Molybdenum	mg/L	0.04	< 0.0001	< 0.0001	< 0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001			< 0.0001
Nickel	mg/L	0.025	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01		< 0.01	< 0.01	0.0029	0.0012	0.0007			0.0007
Selenium	mg/L	0.1	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			< 0.001
Silver	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001		0.0001	< 0.0001		< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001			< 0.0001
Strontium	mg/L	-	0.101	0.028	0.027		0.027	0.025		0.057	0.02	0.058	0.039	0.026			0.025
Thallium	mg/L	0.0003	< 0.00005	< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005			< 0.00005
Tin	mg/L	-	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			< 0.05
Titanium	mg/L	-	0.026	0.009	0.006		0.008	< 0.005		0.019	0.013	0.019	0.016	0.008			0.009
Uranium	mg/L	0.005	0.00019	< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005	0.00005	< 0.00005	< 0.00005			< 0.00005
Vanadium	mg/L	0.006	0.0024	0.0005	0.0004		0.0005	0.0005		0.0014	0.0007	0.0041	0.0011	0.0005			0.0007
Zinc	mg/L	0.03	0.013	< 0.005	0.008		0.014	0.008		0.011	0.011	0.019	0.005	0.007			0.007
Total Dissolved Solids	mg/L	-	40	14	18		15	15		32	13	28	22	16			15
Total Hardness (as CaCO3)		-	30	14	12		12	12		28	9	26.6	18.9	11.9			12.2
% Difference/Ion Balance	mg/L	-	51.1	22.2	9.79		20	11.9		25.2	13.2	21.9	23.2	9.82			18.4
Biochemical Oxygen Demand	mg/L	-	< 3	< 3	< 3		< 3	< 3		< 3	< 3	2.2	1.1	0.4			0.6
Total Kjeldahl Nitrogen	mg/L	-	2.3	0.5	0.4		0.5	0.5		1.5	0.2	< 3	< 3	< 3			< 3
Chemical Oxygen Demand	mg/L	-	123	10	39		20	28		82	19	126	77	18			23
Phenols	mg/L	0.001	< 0.002	< 0.002	< 0.002		< 0.001	< 0.001		< 0.001	< 0.001	0.008	< 0.001	< 0.001			< 0.001
Total Suspended Solids		-	16	< 3	< 3		5	< 3		3	< 3	18	28	< 3			< 3
Conductivity (field)	µS/cm	-	80	40	20		50	31		46	20	60	50	28			34
Temperature (field)	oC	-	17.4	5.7	7.4		6.2	7.3		6.1	5.2	17	10.8	7.6			6.5
pH (field)		-	7.45	7.46	6.5		7.39	7.4		6.7	6.56	6.83	6.6	7.64			7.2
Dissolved Oxygen	mg/L	-	1.25	6.25	6.65		7.44	15.304314		1.74	5.63	0.95	1.95	9.6			

Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW1	SW1	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2
			12-Aug-25	28-Oct-25	28-Apr-15	04-Aug-15	20-Oct-15	19-Apr-16	23-Aug-16	25-Oct-16	02-May-17	09-Aug-17	02-Nov-17	17-May-18	15-Aug-18	25-Oct-18	30-Apr-19
Saturation pH		-	Dry	9.5	7.14	Dry	Dry	9.85	Dry	6.84	9.14	7.72	8.51	7.2	Dry	8.3	8.37
pH		6.5-8.5		6.25	8.1			6.21		8.05	7.03	7.79	6.7	7.77		7.6	7.41
Langlier Index		-		-3.25	0.96			-3.64		1.21	-2.11	0.07	-1.81	0.57		-0.7	-0.958
Alkalinity (as CaCO3)	mg/L	262		9	187			6		354	20	121	45	209		52	47
Bicarbonate (as CaCO3)	mg/L	-		9	187			6		354	20	121	45	209		52	47
Carbonate (as CaCO3)	mg/L	-		<5	<5			<5		<5	<5	<5	<5	<5		<5	< 5
Hydroxide		-		<5	<5			<5		<5	<5	<5	<5	<5		<5	< 5
Electrical Conductivity	µS/cm	-		57	992			38		1270	81	367	131	719		197	201
Fluoride	mg/L	-		<0.1	<0.25			<0.05		<0.25	<0.05	<0.05	<0.05	<0.10		<0.05	< 0.1
Chloride	mg/L	-		2.3	74.8			2.31		161	4.69	33	9.8	68		12.4	14.8
Nitrate as N	mg/L	-		0.19	1.07			<0.05		<0.25	<0.05	0.29	<0.05	0.93		<0.05	0.11
Nitrite as N	mg/L	-		<0.05	<0.25			<0.05		<0.25	<0.05	<0.05	<0.05	<0.10		<0.05	< 0.05
Bromide	mg/L	-		<0.4	<0.25			<0.05		<0.25	<0.05	<0.05	<0.05	<0.10		<0.05	< 0.4
Sulphate	mg/L	-		9	208			4.12		73.6	8.76	11.7	7.27	84.4		8.01	21
Calcium	mg/L	-		7.53	88.8			3.33		88.6	6.02	30	11.6	60.7		16	25.6
Magnesium	mg/L	-		2	18.7			0.86		24	1.48	7.48	2.85	15.9		4.01	5.55
Sodium	mg/L	-		2.4	72			2.47		109	4.56	26.5	8.03	60.1		12.4	14.2
Potassium	mg/L	-		0.9	35.5			0.71		45.9	1.72	11.1	3.26	25.5		5.47	4.7
Ammonia as N	mg/L	-		0.07	0.57			<0.02		0.56	<0.02	0.3	0.1	0.34		0.03	0.38
Un-ionized Ammonia	mg/L	0.02		0.000255	0.002702			<0.0002		0.002702	<0.0002	0.001046	0.001229	0.001136		9.35E-05	0.008756
Phosphate as P	mg/L	-		0.027	<0.50			<0.10		<0.50	<0.10	<0.10	<0.10	<0.20		<0.10	0.013
Total Phosphorus	mg/L	0.03		0.08	0.07			0.02		0.42	0.05	0.14	0.05	0.19		0.28	0.02
Reactive Silica	mg/L	-		11.1	1.25			6.24		17	4.06	10.6	8.11	1.8		11.8	5.39
Total Organic Carbon	TCU	-		15.6	15.3			6		32.2	9.2	22.7	9.5	23		18	11.1
Colour	NTU	-		297	41			40		105	67	78	70	123		64	38
Turbidity	mg/L	-		3.5	3.5			2.7		29.9	13.3	42.4	4.2	3		22.7	4.1
Aluminum	mg/L	0.075		0.39	0.017			0.12		0.017	0.083	0.044	0.152	0.019		0.087	0.06
Arsenic	mg/L	0.005		0.0004	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	0.0002
Barium	mg/L	-		0.03	0.05			0.008		0.11	0.012	0.037	0.015	0.059		0.019	0.046
Boron	mg/L	0.2		0.006	0.923			0.021		0.792	0.064	0.261	0.102	0.898		0.18	0.175
Cadmium	mg/L	0.0002		0.00006	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	0.000028
Chromium	mg/L	0.0089		0.001	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	0.003		<0.003	0.009
Copper	mg/L	0.005		0.003	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	0.0017
Iron	mg/L	0.3		1.54	0.109			0.132		6.61	0.169	1.15	0.337	0.817		0.541	0.431
Lead	mg/L	0.001		0.0006	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.001		<0.001	0.00022
Manganese	mg/L	-		0.066	0.119			0.01		1.36	0.02	0.488	0.038	0.628		0.263	0.108
Mercury	mg/L	0.0002		<0.00002	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	< 0.00002
Molybdenum	mg/L	0.04		<0.0001	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	0.0001
Nickel	mg/L	0.025		0.0022	<0.003			<0.003		0.004	<0.003	<0.003	<0.003	<0.003		<0.003	< 0.01
Selenium	mg/L	0.1		<0.001	<0.004			<0.004		<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	< 0.001
Silver	mg/L	0.0001		<0.0001	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	< 0.0001
Strontium	mg/L	-		0.055	0.337			0.018		0.499	0.034	0.137	0.065	0.34		0.076	0.152
Thallium	mg/L	0.0003		<0.00005	<0.0003			<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		<0.0003	< 0.00005
Tin	mg/L	-		<0.05	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	< 0.05
Titanium	mg/L	-		0.046	0.003			0.006		0.005	0.007	0.007	0.004	0.003		0.004	0.006
Uranium	mg/L	0.005		<0.00005	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	< 0.00005
Vanadium	mg/L	0.006		0.0021	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	0.003		<0.002	0.0004
Zinc	mg/L	0.03		0.01	0.006			<0.005		0.005	0.005	0.009	0.007	<0.005		0.007	0.009
Total Dissolved Solids	mg/L	-		32	518			<20		774	56	208	64	392		136	112
Total Hardness (as CaCO3)		-		27.1	299			11.9		320	21.1	106	40.7	217		56.5	87
% Difference/Ion Balance	mg/L	-		26.5	1			14.5		3.15	3.63	0.619	2.89	1.89		7.53	11.6
Biochemical Oxygen Demand	mg/L	-		1.5	<5			<5		11	<5	5	<5	18		<5	< 3
Total Kjeldahl Nitrogen	mg/L	-		14	1.71			0.6		3.76	0.43	1.52	0.62	1.56		0.77	0.8
Chemical Oxygen Demand	mg/L	-		116	39			6		116	24	54	13	42		36	32
Phenols	mg/L	0.001		<0.001	<0.001			<0.001		0.002	<0.001	<0.001	<0.001	0.002		0.005	< 0.002
Total Suspended Solids		-		29	<10			<10		120	<10	150	12	132		<10	120
Conductivity (field)	µS/cm	-		68	930			74		1042	66	320	250	683		230	230
Temperature (field)	oC	-		2.1	8.8			5.1		7	8.4	18	4.7	16.2		0.8	7.2
pH (field)		-		7.57	7.45			7.82		7.52	7.32	7.01	8.01	7.05		7.55	8.2
Dissolved Oxygen	mg/L	-		3.63	6.65			15.93	3.14	3.56	6	0.65	7.5	4.63		4.35	2.06

Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW2	
			21-Aug-19	24-Oct-19	27-Apr-20	17-Aug-20	22-Oct-20	04-May-21	24-Aug-21	26-Oct-21	03-May-22	22-Aug-22	20-Oct-22	02-May-23	16-Aug-23	26-Oct-23	23-Apr-24	14-Aug-24
Saturation pH		-	Dry	9.16	7.46	Water Dept	9.52	8.52	Dry	9.17	7.65	Dry	8.55	9.63	Dry	7.82	7.34	Dry
pH		6.5-8.5		7.25	7.63		6.94	7.77		6.4	7.82		6.55	6.68		7.91	7.92	
Langlier Index		-		-1.91	0.174		-2.58	-0.753		-2.77	0.168		-2	-2.95		0.0898	0.585	
Alkalinity (as CaCO3)	mg/L	262		27	189		12	52		21	157		25	12		126	250	
Bicarbonate (as CaCO3)	mg/L	-		27	189		12	52		21	157		25	12		126	250	
Carbonate (as CaCO3)	mg/L	-		< 5	< 5		< 5	< 5		< 5	< 5		< 5	< 5		<5	<5	
Hydroxide		-		< 5	< 5		< 5	< 5		< 5	< 5		< 5	< 5		<5	<5	
Electrical Conductivity	µS/cm	-		98	827		54	184		69	530		361	41		430	875	
Fluoride	mg/L	-		< 0.1	< 0.1		< 0.1	< 0.1		< 0.1	< 0.1		< 0.1	< 0.1		<0.1	<0.1	
Chloride	mg/L	-		7.5	107		2.9	18.2		5.2	54.2		40.9	3.1		57.5	75.3	
Nitrate as N	mg/L	-		0.09	0.31		1	< 0.05		0.2	0.35		< 0.05	0.11		0.63	2.53	
Nitrite as N	mg/L	-		< 0.05	0.05		< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05		<0.05	0.1	
Bromide	mg/L	-		< 0.4	0.5		< 0.4	< 0.4		< 0.4	< 0.4		< 0.4	< 0.4		<0.4	<0.4	
Sulphate	mg/L	-		5	47		1	7		2	27		74	3		7	60	
Calcium	mg/L	-		8.26	53.8		5.33	13.3		6.64	24.3		28.3	3.88		32.5	53.7	
Magnesium	mg/L	-		2.02	13.7		1.47	3.16		1.7	5.59		7.41	0.95		7.92	13.4	
Sodium	mg/L	-		6.2	67.4		3.4	13		5	29		26.5	3.2		42.6	62.5	
Potassium	mg/L	-		2.3	25		0.8	3.9		1.3	10.3		7.1	0.6		16.1	25.6	
Ammonia as N	mg/L	-		0.06	0.75		0.03	0.12		0.1	1.44		0.03	0.02		0.19	2.79	
Un-ionized Ammonia	mg/L	0.02		0.000962	0.000689		5.5E-05	0.000513		0.0006	0.013848		2.99E-05	6.72E-05		0.000454	0.0156	
Phosphate as P	mg/L	-		0.009	< 0.002		0.032	0.011		0.02	0.039		0.008	0.002		0.032	0.009	
Total Phosphorus	mg/L	0.03		0.05	0.22		0.04	0.028		0.08	0.08		0.04	0.05		0.13	0.08	
Reactive Silica	mg/L	-		9.16	1.66		9.63	3.17		10.2	2.7		16.8	7.71		12	2.48	
Total Organic Carbon	TCU	-		12	12.1		11.4	11.6		11.7	11.3		32.2	6.1		32.2	17.2	
Colour	NTU	-		96	48		87	60		73	50		137	51		118	48	
Turbidity	mg/L	-		4.2	23.9		9.5	6.8		25.2	1.6		0.7	4		77.8	80.4	
Aluminum	mg/L	0.075		0.2	0.04		0.17	0.07		0.11	0.07		0.21	0.19		0.09	0.03	
Arsenic	mg/L	0.005		0.0002	0.0003		0.0002	0.0002		0.0002	0.0003		0.0005	0.0001		0.0003	0.0003	
Barium	mg/L	-		0.016	0.055		0.011	0.018		0.013	0.032		0.054	0.01		0.054	0.065	
Boron	mg/L	0.2		0.097	0.728		0.026	0.14		0.044	0.336		0.513	0.022		0.501	0.856	
Cadmium	mg/L	0.0002		0.000015	0.000017		< 0.000015	< 0.000015		0.000019	< 0.000015		0.000074	< 0.000015		0.000018	0.000036	
Chromium	mg/L	0.0089		0.001	0.001		0.001	< 0.001		0.002	< 0.001		< 0.001	0.002		<0.001	0.002	
Copper	mg/L	0.005		0.0012	0.0009		0.0009	0.0008		0.0014	0.0009		0.0016	0.0016		0.0019	0.0019	
Iron	mg/L	0.3		0.519	1.02		0.701	0.48		0.66	0.672		0.387	0.284		0.986	0.319	
Lead	mg/L	0.001		0.00026	0.00027		0.00019	0.00019		0.00023	0.00017		0.00063	0.00021		0.00032	0.00023	
Manganese	mg/L	-		0.068	0.348		0.047	0.064		0.088	0.118		0.168	0.016		0.544	0.095	
Mercury	mg/L	0.0002		0.00005	< 0.00002		< 0.00002	< 0.00002		< 0.00002	< 0.00002		< 0.00002	< 0.00002		<0.00002	<0.00002	
Molybdenum	mg/L	0.04		< 0.0001	0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001		<0.0001	0.0002	
Nickel	mg/L	0.025		< 0.01	< 0.01		< 0.01	< 0.01		< 0.01	< 0.01		< 0.01	< 0.01		0.0018	0.0032	
Selenium	mg/L	0.1		< 0.001	0.001		< 0.001	< 0.001		< 0.001	< 0.001		< 0.001	< 0.001		<0.001	<0.001	
Silver	mg/L	0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001		0.0001	< 0.0001		< 0.0001	< 0.0001		<0.0001	0.0001	
Strontium	mg/L	-		0.044	0.269		0.034	0.073		0.04	0.128		0.168	0.024		0.167	0.296	
Thallium	mg/L	0.0003		< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005		<0.00005	<0.00005	
Tin	mg/L	-		< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05		<0.05	<0.05	
Titanium	mg/L	-		0.013	0.008		0.007	< 0.005		0.007	< 0.005		< 0.005	0.011		0.005	0.006	
Uranium	mg/L	0.005		< 0.00005	0.0001		< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005		<0.00005	0.00012	
Vanadium	mg/L	0.006		0.0007	0.0005		0.0005	0.0004		0.0005	0.0005		0.0006	0.0006		0.0005	0.0004	
Zinc	mg/L	0.03		0.008	0.008		< 0.005	0.009		0.02	0.01		0.018	0.01		0.007	0.013	
Total Dissolved Solids	mg/L	-		43	430		23	90		36	297		206	22		244	452	
Total Hardness (as CaCO3)		-		29	211		19	51		22	138		110	13		114	189	
% Difference/Ion Balance	mg/L	-		12.2	1.9		15.2	2.15		8.91	3.2		7.7	4.65		3.27	8.76	
Biochemical Oxygen Demand	mg/L	-		< 3	18		< 3	< 3		< 3	< 3		< 3	< 3		1.7	4.5	
Total Kjeldahl Nitrogen	mg/L	-		0.6	0.6		0.5	0.6		0.9	2.3		1.2	0.5		<3	13	
Chemical Oxygen Demand	mg/L	-		38	67		14	37		23	52		76	23		80	59	
Phenols	mg/L	0.001		< 0.002	< 0.002		< 0.002	< 0.002		< 0.001	< 0.001		< 0.001	< 0.001		0.002	<0.001	
Total Suspended Solids		-		4	520		12	9		8	5		3	< 3		24	77	
Conductivity (field)	µS/cm	-		177	290		40	320		130	565		360	82		516	740	
Temperature (field)	oC	-		6.9	8.1		5.8	7.2		6	8.2		3.7	6.2		11.5	7.7	
pH (field)		-		8.05	6.76		7.14	7.46		7.65	7.78		6.95	7.39		7.06	7.56	
Dissolved Oxygen	mg/L	-		3.62	4.25		1.42	155.04	314	2.85	3.1		2.21	4.5		1.22	5.7	

Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW2	SW2	SW2	SW2	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	
			29-Oct-24	30-Apr-25	12-Aug-25	28-Oct-25	28-Apr-15	04-Aug-15	20-Oct-15	19-Apr-16	23-Aug-16	25-Oct-16	02-May-17	09-Aug-17	02-Nov-17	17-May-18	15-Aug-18	25-Oct-18
Saturation pH		-	Dry	8.85	Dry	7.35	9.99	Dry	Dry	9.12	Dry	9.23	10	8.77	8.95	8.45	Dry	8.87
pH		6.5-8.5		7.21		7.93	6.89			6.52		6.15	6.98	7.01	6.5	6.82		7.19
Langlier Index		-		-1.64		0.578	-3.1			-2.6		-3.08	-3.03	-1.76	-2.45	-1.63		-1.68
Alkalinity (as CaCO3)	mg/L	262		34		236	6			17		9	<5	28	26	51		24
Bicarbonate (as CaCO3)	mg/L	-		34		236	6			17		9	<5	28	26	51		24
Carbonate (as CaCO3)	mg/L	-		<5		<5	<5			<5		<5	<5	<5	<5	<5		<5
Hydroxide		-		<5		<5	<5			<5		<5	<5	<5	<5	<5		<5
Electrical Conductivity	µS/cm	-		115		860	25			75		150	67	145	66	156		134
Fluoride	mg/L	-		<0.1		<0.1	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05
Chloride	mg/L	-		10.1		123	0.91			3.98		10.5	0.66	13.1	2.93	16.2		12.3
Nitrate as N	mg/L	-		<0.05		0.51	<0.05			0.06		<0.05	<0.05	<0.05	<0.05	0.07		<0.05
Nitrite as N	mg/L	-		<0.05		<0.05	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05
Bromide	mg/L	-		<0.4		0.5	<0.05			<0.05		<0.05	<0.05	<0.05	<0.05	<0.05		<0.05
Sulphate	mg/L	-		5		8	2.69			7.54		34.2	15	15.9	1.82	5.28		8.33
Calcium	mg/L	-		9.11		54.7	2.35			6.47		12.4	2.72	10.6	5.83	11.3		8.87
Magnesium	mg/L	-		2.28		16.1	0.66			1.57		3.23	0.71	2.29	1.66	3.2		2.57
Sodium	mg/L	-		9.1		80.7	1.61			4.75		7.88	1.35	10.1	3.93	12.2		10.1
Potassium	mg/L	-		2.4		28	0.5			2.08		1.43	0.53	2.32	1.83	5.06		2.83
Ammonia as N	mg/L	-		0.26		1.61	<0.02			<0.02		0.08	<0.02	0.03	0.04	<0.2		<0.02
Un-ionized Ammonia	mg/L	0.02		0.001459		0.00367	<0.0002			<0.0002		0.000345	<0.0002	9.67E-05	0.00043	<0.0002		<0.0002
Phosphate as P	mg/L	-		0.014		0.017	<0.10			<0.10		<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
Total Phosphorus	mg/L	0.03		0.04		1.14	0.03			0.02		0.5	0.03	0.05	0.04	0.1		0.05
Reactive Silica	mg/L	-		4.96		18.8	2.06			5.55		17.6	4.52	9.49	8.15	1.64		11.7
Total Organic Carbon	TCU	-		11.5		27.1	9.3			6.3		38.2	9.7	38.7	11	16.7		18.3
Colour	NTU	-		59		87	63			46		266	53	288	110	146		80
Turbidity	mg/L	-		2.3		475	1.8			1.3		35.4	23.1	1.6	1.8	82.7		0.9
Aluminum	mg/L	0.075		0.15		0.04	0.105			0.077		0.365	0.173	0.35	0.105	0.089		0.161
Arsenic	mg/L	0.005		0.0002		0.0009	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
Barium	mg/L	-		0.019		0.11	0.31			0.01		0.028	0.009	0.024	0.011	0.03		0.02
Boron	mg/L	0.2		0.09		0.641	0.243			0.066		0.04	0.019	0.073	0.047	0.143		0.068
Cadmium	mg/L	0.0002		<0.000015		0.000366	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Chromium	mg/L	0.0089		<0.001		0.003	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
Copper	mg/L	0.005		0.001		0.0075	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
Iron	mg/L	0.3		0.381		5.1	0.199			0.041		0.903	0.141	0.636	0.342	0.522		0.461
Lead	mg/L	0.001		0.00016		0.00493	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.001		<0.001
Manganese	mg/L	-		0.042		1.31	0.105			0.003		0.22	0.009	0.077	0.032	0.25		0.081
Mercury	mg/L	0.0002		<0.00002		0.00005	<0.0001			<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Molybdenum	mg/L	0.04		<0.0001		0.0001	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
Nickel	mg/L	0.025		0.0008		0.0061	<0.003			<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
Selenium	mg/L	0.1		<0.001		<0.001	<0.004			<0.004		<0.004	<0.004	<0.004	<0.004	<0.004		<0.004
Silver	mg/L	0.0001		<0.0001		<0.0001	<0.0001			<0.0001		<0.0001	0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Strontium	mg/L	-		0.054		0.325	0.11			0.03		0.062	0.017	0.061	0.037	0.078		0.047
Thallium	mg/L	0.0003		<0.00005		<0.00005	<0.0003			<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		<0.0003
Tin	mg/L	-		<0.05		<0.05	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
Titanium	mg/L	-		0.006		0.126	<0.002			0.004		0.007	0.004	0.008	0.003	<0.002		0.002
Uranium	mg/L	0.005		<0.00005		0.00024	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
Vanadium	mg/L	0.006		0.0006		0.0067	<0.002			<0.002		<0.002	<0.002	<0.002	<0.002	0.003		<0.002
Zinc	mg/L	0.03		0.005		0.04	<0.005			0.006		0.013	0.007	0.012	<0.005	0.006		0.007
Total Dissolved Solids	mg/L	-		60		463	24			28		174	36	136	38	102		114
Total Hardness (as CaCO3)		-		32.1		203	8.6			22.6		44.3	9.7	35.9	21.4	41.4		32.7
% Difference/Ion Balance	mg/L	-		1.68		1.94	11.6			7.4		3.32	10.8	1.7	0.587	3.4		7.63
Biochemical Oxygen Demand	mg/L	-		0.8		13.1	<5			<5		8	<5	<5	<5	<5		<5
Total Kjeldahl Nitrogen	mg/L	-		<3		<3	0.42			0.7		3.8	0.34	1.17	0.57	0.64		0.73
Chemical Oxygen Demand	mg/L	-		27		497	22			15		139	27	90	19	29		44
Phenols	mg/L	0.001		<0.001		<0.001	<0.001			<0.001		0.002	<0.001	<0.001	<0.001	0.002		0.004
Total Suspended Solids		-		21		2360	<10			<10		61	<10	<10	<10	<10		<10
Conductivity (field)	µS/cm	-		200		847	42			110		135	28	150	100	185		220
Temperature (field)	oC	-		4.6		0.9	7.4			3.8		5.6	8.1	18.8	5	15.8		1.2
pH (field)		-		7.67		7.41	6.58			7.48		7.52	7.34	6.95	7.94	7.8		7.45
Dissolved Oxygen	mg/L	-				3.6	3.34		156 of 314	6.23		5.65	5.3	4.65	5.51	6.7		5.42

Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3
			30-Apr-19	21-Aug-19	24-Oct-19	27-Apr-20	17-Aug-20	22-Oct-20	04-May-21	24-Aug-21	26-Oct-21	03-May-22	22-Aug-22	20-Oct-22	02-May-23	16-Aug-23	26-Oct-23	23-Apr-24
Saturation pH		-	8.48	Dry	9.48	8.62	8.75	9.9	9.08	Dry	8.94	8.74	Dry	8.13	9.13	8.39	8.45	8.76
pH		6.5-8.5	7.12		6.92	6.93	6.59	6.75	7.28		6.46	7.06		7.1	6.85	6.48	7.19	6.87
Langlier Index		-	-1.36		-2.56	-1.69	-2.16	-3.15	-1.8		-2.48	-1.68		-1.03	-2.28	-1.91	-1.26	-1.89
Alkalinity (as CaCO3)	mg/L	262	44		14	39	23	8	26		28	46		76	24	51	50	43
Bicarbonate (as CaCO3)	mg/L	-	44		14	39	23	8	26		28	46		76	24	51	50	43
Carbonate (as CaCO3)	mg/L	-	< 5		< 5	< 5	< 5	< 5	< 5		< 5	< 5		< 5	< 5	< 5	< 5	< 5
Hydroxide		-	< 5		< 5	< 5	< 5	< 5	< 5		< 5	< 5		< 5	< 5	< 5	< 5	< 5
Electrical Conductivity	µS/cm	-	224		67	213	122	27	105		94	184		297	77	216	286	165
Fluoride	mg/L	-	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chloride	mg/L	-	19		5.4	23.7	18.2	0.5	11.8		7.4	17.4		35	4.7	30.1	56.7	12.8
Nitrate as N	mg/L	-	0.1		0.1	0.12	0.09	0.07	< 0.05		0.14	0.09		0.11	0.17	0.34	< 0.05	0.05
Nitrite as N	mg/L	-	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromide	mg/L	-	< 0.4		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4		< 0.4	< 0.4		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Sulphate	mg/L	-	30		4	20	2	< 1	5		3	15		13	5	4	6	13
Calcium	mg/L	-	23.8		6.51	14.6	17.1	3.28	6.89		8.61	12.5		21.6	6.44	18.8	17.6	9.82
Magnesium	mg/L	-	5.75		1.6	3.82	3.71	0.85	1.89		2.2	3.08		5.23	1.53	4.28	4.35	3.27
Sodium	mg/L	-	15.3		5.1	18	11.3	1.8	9.9		7	14.6		22.8	5.4	21.9	28.6	13
Potassium	mg/L	-	5.3		1.6	5.5	1.2	0.3	2.5		2.3	4.6		7.5	1.8	3.1	5	4.6
Ammonia as N	mg/L	-	0.16		0.03	< 0.01	0.04	0.03	< 0.01		0.03	< 0.01		0.06	0.28	< 0.05	0.1	0.18
Un-ionized Ammonia	mg/L	0.02	0.001663		0.000148	< 0.0002	0.000524	6.87E-05	< 0.0002		7.58E-05	< 0.0002		2.92E-05	0.001031	< 0.0002	8.83E-05	0.002257
Phosphate as P	mg/L	-	0.009		0.004	< 0.002	0.026	0.026	0.002		0.012	0.009		0.012	< 0.002	0.044	0.014	0.004
Total Phosphorus	mg/L	0.03	0.01		0.04	0.04	0.09	0.02	0.015		0.04	0.03		0.06	0.04	0.66	0.06	0.03
Reactive Silica	mg/L	-	4.69		7.96	1.69	10.7	7.58	1.83		10.2	0.64		12.5	6.43	13	13.8	1.44
Total Organic Carbon	TCU	-	9.9		14.1	10.8	34.5	12.4	12.1		13.2	12.3		16.8	11.4	51.7	40.2	9.6
Colour	NTU	-	43		138	53	338	96	70		88	50		164	66	188	177	55
Turbidity	mg/L	-	0.5		1.9	0.6	3850	1.1	0.4		1.5	1.3		4.2	2.8	900	1.4	9.8
Aluminum	mg/L	0.075	0.08		0.2	0.06	0.37	0.17	0.08		0.09	0.05		0.14	0.15	0.19	0.18	0.05
Arsenic	mg/L	0.005	0.0002		0.0003	0.0002	0.0007	0.0002	0.0002		0.0002	0.0002		0.0003	0.0002	0.0008	0.0004	0.0002
Barium	mg/L	-	0.05		0.016	0.028	0.061	0.009	0.023		0.015	0.021		0.029	0.01	0.047	0.043	0.014
Boron	mg/L	0.2	0.213		0.057	0.22	0.116	0.014	0.107		0.075	0.186		0.22	0.075	0.269	0.252	0.182
Cadmium	mg/L	0.0002	0.000029		0.000039	0.000023	0.000106	< 0.000015	0.000015		< 0.000015	< 0.000015		0.000017	< 0.000015	0.000069	0.000041	0.000022
Chromium	mg/L	0.0089	< 0.001		0.001	0.001	0.001	0.001	0.001		0.001	< 0.001		0.001	< 0.001	0.001	< 0.001	< 0.001
Copper	mg/L	0.005	0.0012		0.0014	0.0006	0.0031	0.0007	0.0006		0.0005	0.0005		0.0017	0.001	0.0018	0.001	0.0008
Iron	mg/L	0.3	0.298		0.387	0.15	1.65	0.401	0.166		0.426	0.204		0.702	0.212	1.45	0.39	0.032
Lead	mg/L	0.001	0.00024		0.00039	0.00014	0.00119	0.00017	0.00015		0.00017	0.00018		0.00023	0.00022	0.00111	0.00067	0.00014
Manganese	mg/L	-	0.104		0.027	0.031	0.465	0.021	0.014		0.05	0.067		0.045	0.012	0.445	0.167	< 0.001
Mercury	mg/L	0.0002	< 0.00002		0.00006	< 0.00002	0.00002	< 0.00002	< 0.00002		< 0.00002	< 0.00002		< 0.00002	< 0.00002	0.00003	< 0.00002	< 0.00002
Molybdenum	mg/L	0.04	< 0.0001		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Nickel	mg/L	0.025	< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	< 0.01		< 0.01	< 0.01	0.0036	0.0025	0.0009
Selenium	mg/L	0.1	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	0.0001	< 0.0001		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001		< 0.0001	< 0.0001		< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	-	0.153		0.037	0.084	0.117	0.022	0.045		0.051	0.072		0.115	0.036	0.116	0.099	0.074
Thallium	mg/L	0.0003	< 0.00005		< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	-	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	-	< 0.005		0.007	< 0.005	0.007	< 0.005	0.005		< 0.005	< 0.005		0.008	0.009	0.006	< 0.005	< 0.005
Uranium	mg/L	0.005	< 0.00005		< 0.00005	< 0.00005	0.00017	< 0.00005	< 0.00005		< 0.00005	< 0.00005		< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Vanadium	mg/L	0.006	0.0002		0.0006	0.0003	0.0008	0.0004	0.0002		0.0003	0.0002		0.0008	0.0005	0.0008	0.0004	0.0003
Zinc	mg/L	0.03	0.013		0.007	0.014	0.02	< 0.005	0.01		0.012	0.011		0.008	0.006	0.023	0.007	< 0.005
Total Dissolved Solids	mg/L	-	121		31	109	69	12	54		48	100		162	40	115	148	78
Total Hardness (as CaCO3)		-	83		23	56	40	12	26		30	50		86	24	64.6	61.9	33.7
% Difference/Ion Balance	mg/L	-	3.18		10.3	2.55	28	28.3	2.65		7.68	3.21		6.16	0.139	8.34	1.2	9.02
Biochemical Oxygen Demand	mg/L	-	9		< 3	< 3	< 3	< 3	< 3		< 3	< 3		< 3	13	5.9	1.5	0.5
Total Kjeldahl Nitrogen	mg/L	-	0.6		0.7	0.3	1.8	0.6	0.5		0.6	0.6		1.2	0.5	10	< 3	< 3
Chemical Oxygen Demand	mg/L	-	27		52	34	107	18	37		27	36		79	26	303	81	25
Phenols	mg/L	0.001	< 0.002		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002		< 0.001	< 0.001		< 0.001	< 0.001	0.004	< 0.001	< 0.001
Total Suspended Solids		-	< 3		< 3	3	25	< 3	< 3		< 3	< 3		3	< 3	680	< 3	7
Conductivity (field)	µS/cm	-	200		68	200	240	30	130		160	152		270	86	254	295	70
Temperature (field)	oC	-	6.3		7.3	5.9	18.9	6	7.6		5.8	8.1		4.2	6.2	21.8	11.1	8.1
pH (field)		-	7.88		7.52	6.49	7.56	7.23	7.21		7.28	6.94		6.62	7.43	6.65	6.64	7.9
Dissolved Oxygen	mg/L	-	3.42		3.02	3.66	0.65	3.57	3.48		0.85	3.63		1.65	4.56	1.68	0.65	8.7

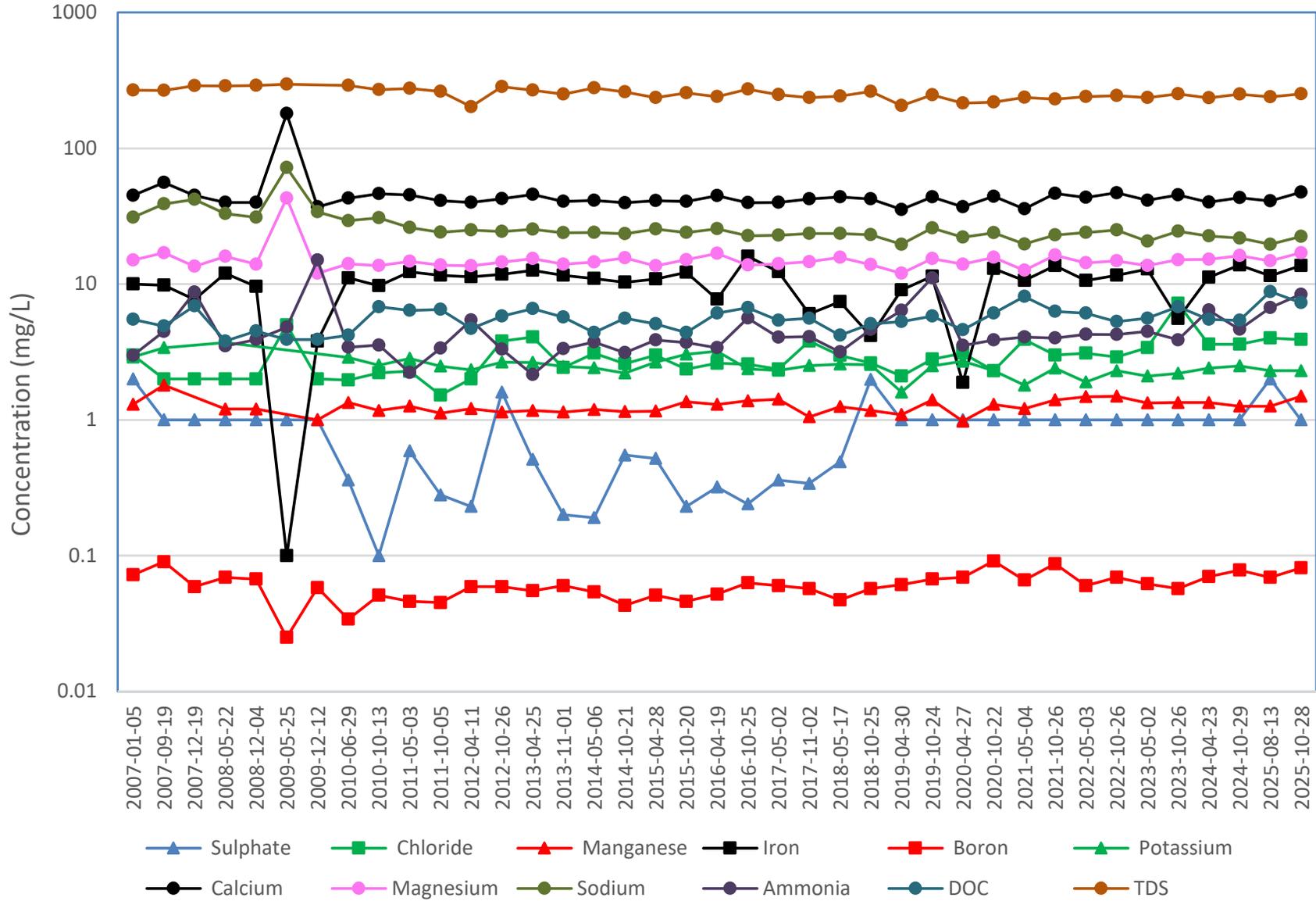
Bold & Highlighted indicates PWQO exceedance

Surface Water Quality Data

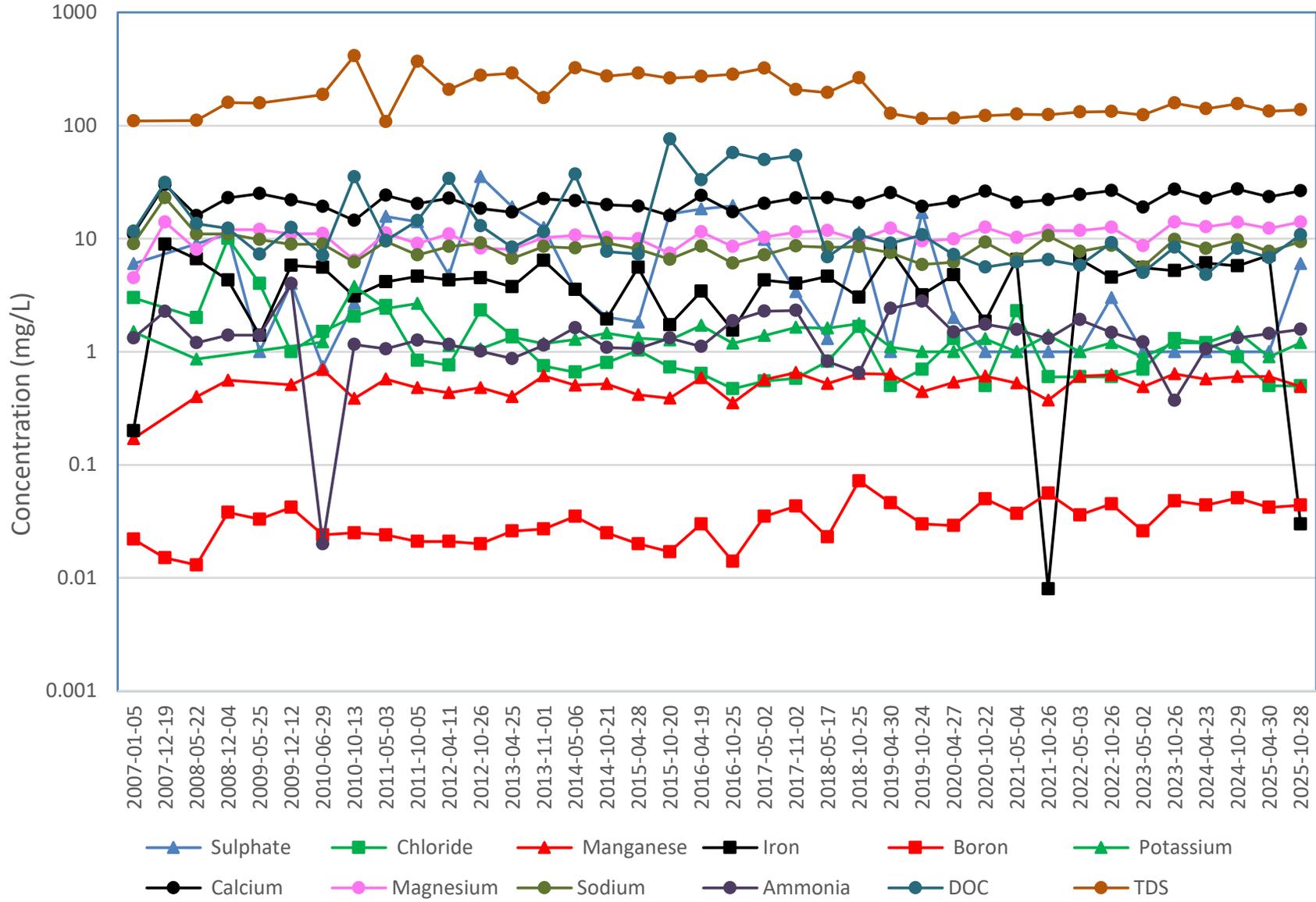
Parameter	Units	PWQO	SW3	SW3	SW3	SW3	SW3
			14-Aug-24	29-Oct-24	30-Apr-25	12-Aug-25	28-Oct-25
Saturation pH		-	Dry	Dry	8.53	Dry	8.52
pH		6.5-8.5			7.26		6.64
Langlier Index		-			-1.27		-1.88
Alkalinity (as CaCO3)	mg/L	262			50		31
Bicarbonate (as CaCO3)	mg/L	-			50		31
Carbonate (as CaCO3)	mg/L	-			<5		<5
Hydroxide		-			<5		<5
Electrical Conductivity	µS/cm	-			188		351
Fluoride	mg/L	-			<0.1		0.3
Chloride	mg/L	-			18		34.2
Nitrate as N	mg/L	-			<0.05		0.07
Nitrite as N	mg/L	-			<0.05		<0.05
Bromide	mg/L	-			<0.4		<0.4
Sulphate	mg/L	-			12		82
Calcium	mg/L	-			13.6		25.9
Magnesium	mg/L	-			3.37		7.24
Sodium	mg/L	-			15.7		23.4
Potassium	mg/L	-			4.6		5.5
Ammonia as N	mg/L	-			<0.05		<0.05
Un-ionized Ammonia	mg/L	0.02			<0.0002		<0.0002
Phosphate as P	mg/L	-			0.005		0.016
Total Phosphorus	mg/L	0.03			0.03		0.05
Reactive Silica	mg/L	-			2.82		17.2
Total Organic Carbon	TCU	-			14.7		17.3
Colour	NTU	-			69		134
Turbidity	mg/L	-			0.7		1.4
Aluminum	mg/L	0.075			0.07		0.24
Arsenic	mg/L	0.005			0.0002		0.0006
Barium	mg/L	-			0.021		0.051
Boron	mg/L	0.2			0.2		0.472
Cadmium	mg/L	0.0002			0.000023		0.00009
Chromium	mg/L	0.0089			<0.001		<0.001
Copper	mg/L	0.005			0.0009		0.0023
Iron	mg/L	0.3			0.154		0.327
Lead	mg/L	0.001			0.00021		0.00087
Manganese	mg/L	-			0.034		0.108
Mercury	mg/L	0.0002			<0.00002		<0.00002
Molybdenum	mg/L	0.04			<0.0001		<0.0001
Nickel	mg/L	0.025			0.0011		0.0026
Selenium	mg/L	0.1			<0.001		<0.001
Silver	mg/L	0.0001			<0.0001		<0.0001
Strontium	mg/L	-			0.076		0.165
Thallium	mg/L	0.0003			<0.00005		<0.00005
Tin	mg/L	-			<0.05		<0.05
Titanium	mg/L	-			<0.005		<0.005
Uranium	mg/L	0.005			<0.00005		<0.00005
Vanadium	mg/L	0.006			0.0003		0.0008
Zinc	mg/L	0.03			0.006		0.016
Total Dissolved Solids	mg/L	-			97		198
Total Hardness (as CaCO3)		-			47.9		94.6
% Difference/Ion Balance	mg/L	-			0.497		3.82
Biochemical Oxygen Demand	mg/L	-			0.7		1.3
Total Kjeldahl Nitrogen	mg/L	-			<3		<3
Chemical Oxygen Demand	mg/L	-			28		87
Phenols	mg/L	0.001			<0.001		<0.001
Total Suspended Solids		-			4		16
Conductivity (field)	µS/cm	-			197		365
Temperature (field)	oC	-			5.6		5.2
pH (field)		-			7.23		7.21
Dissolved Oxygen	mg/L	-					2.45

Bold & Highlighted indicates PWQO exceedance

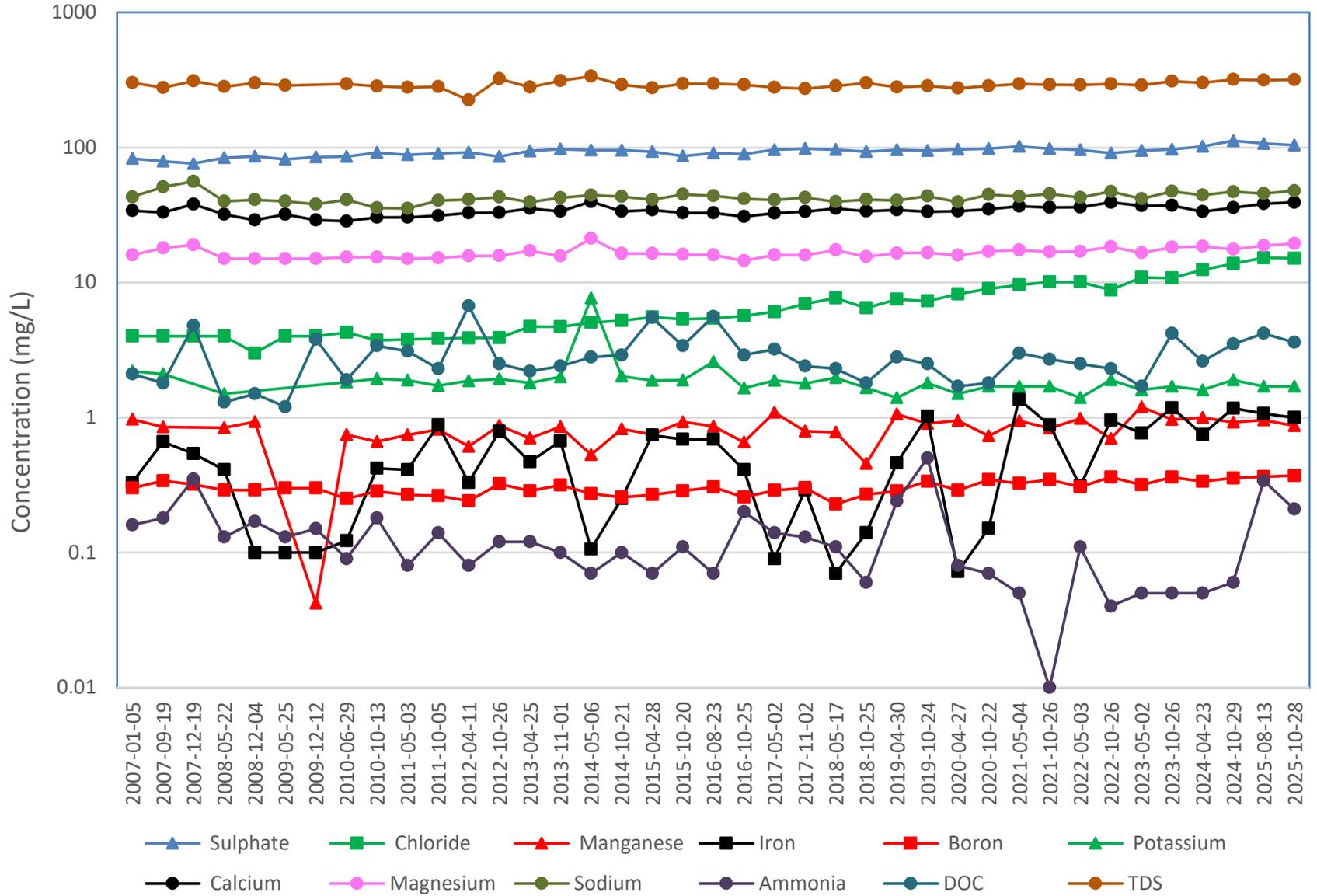
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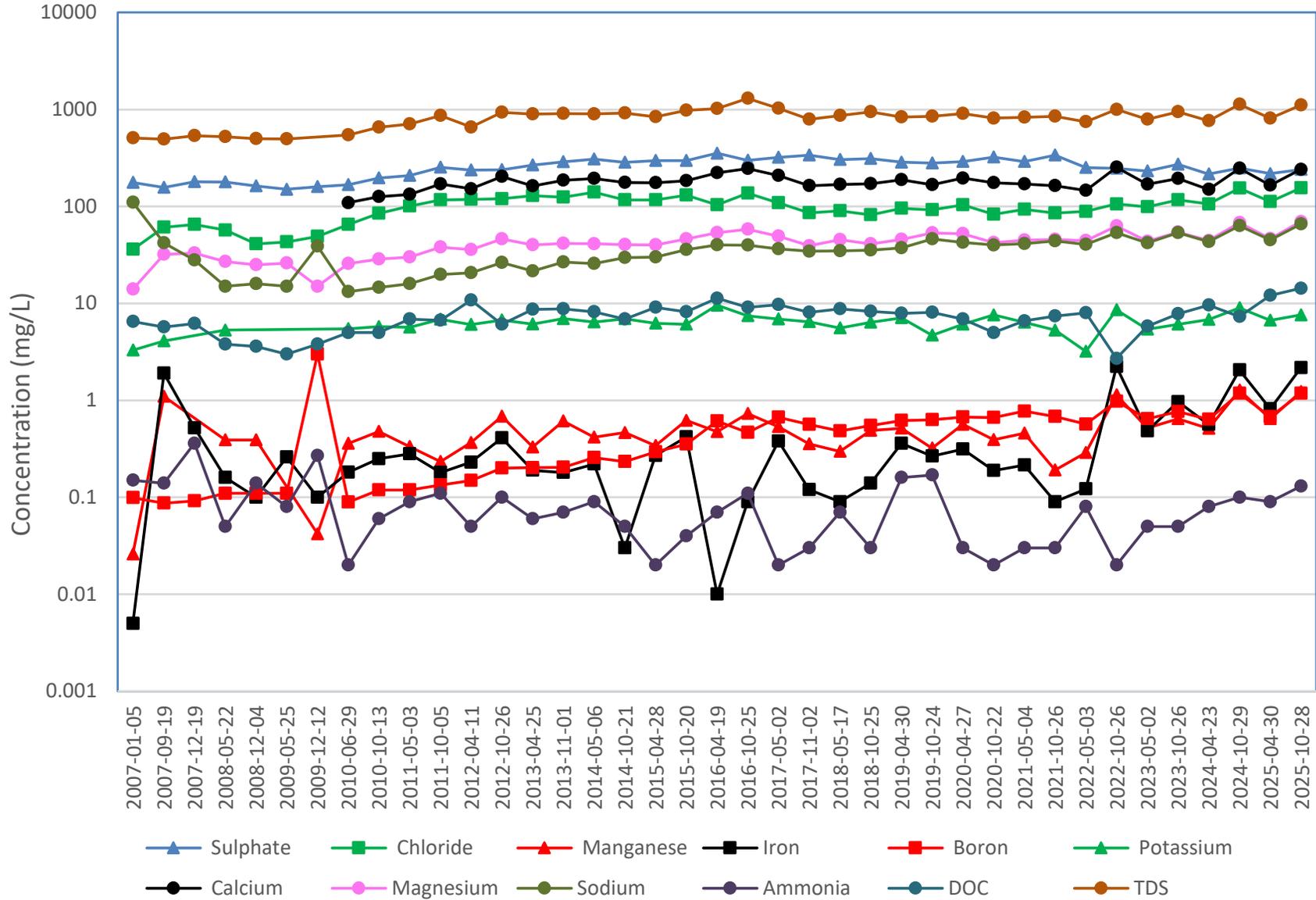
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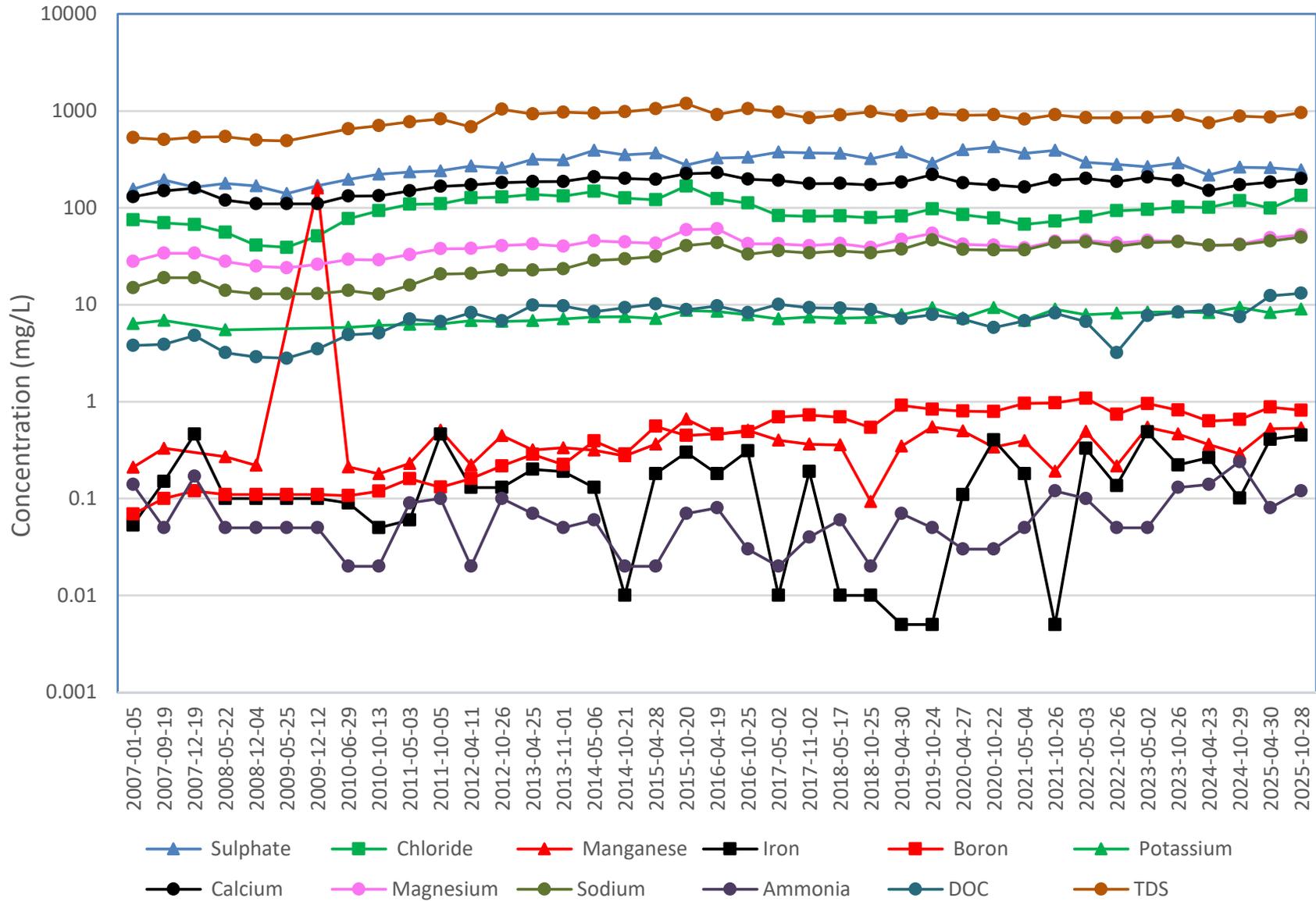
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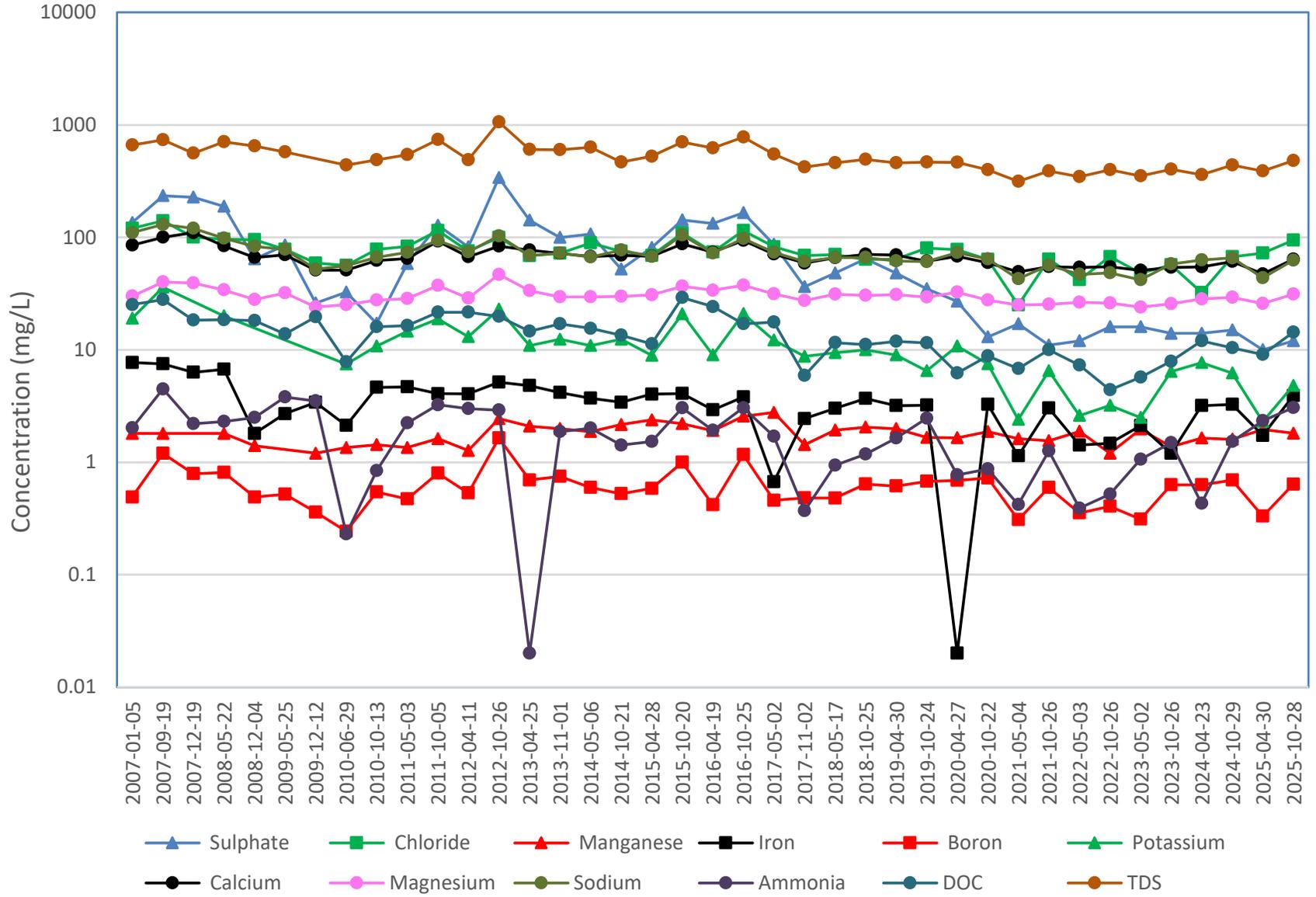
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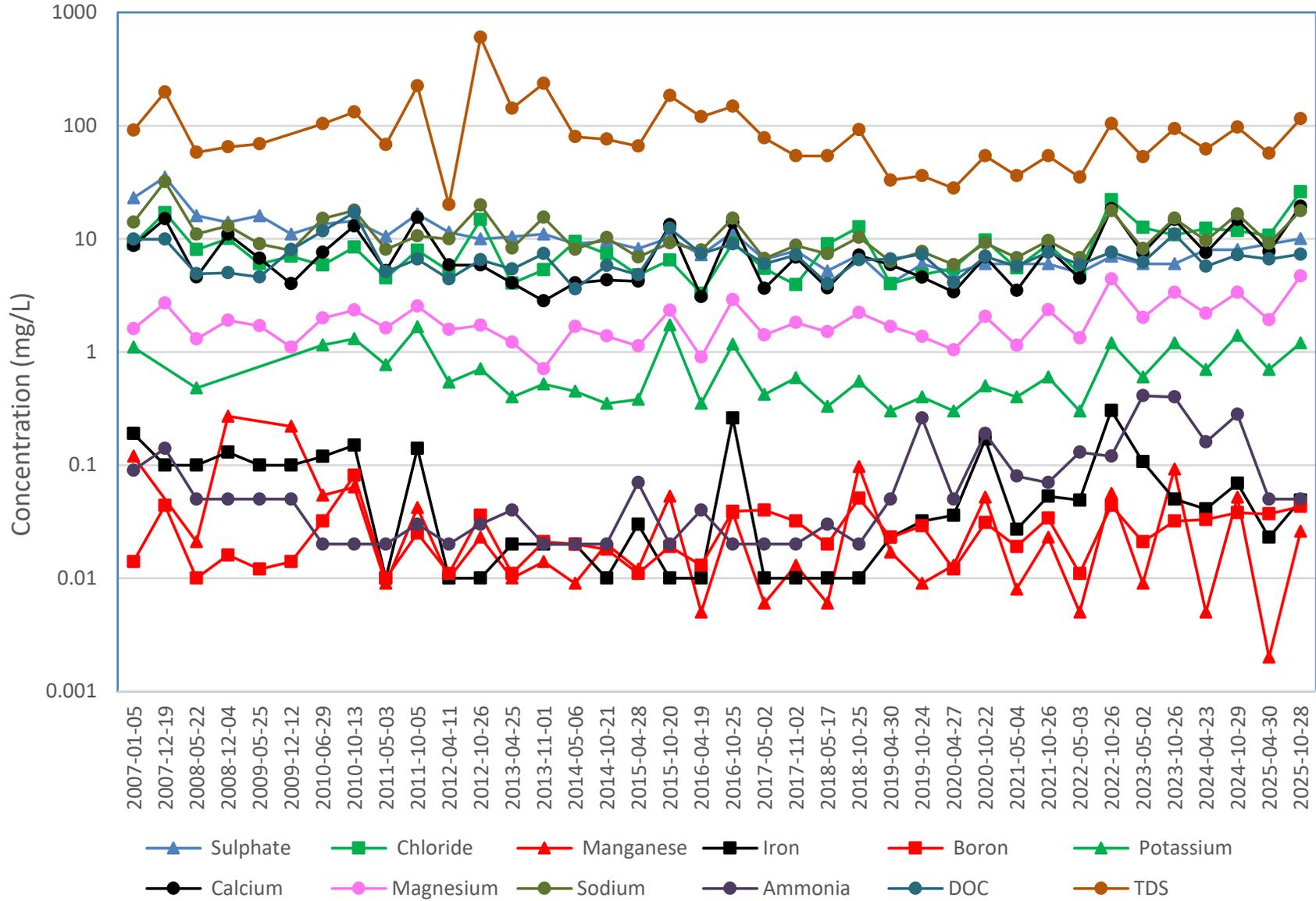
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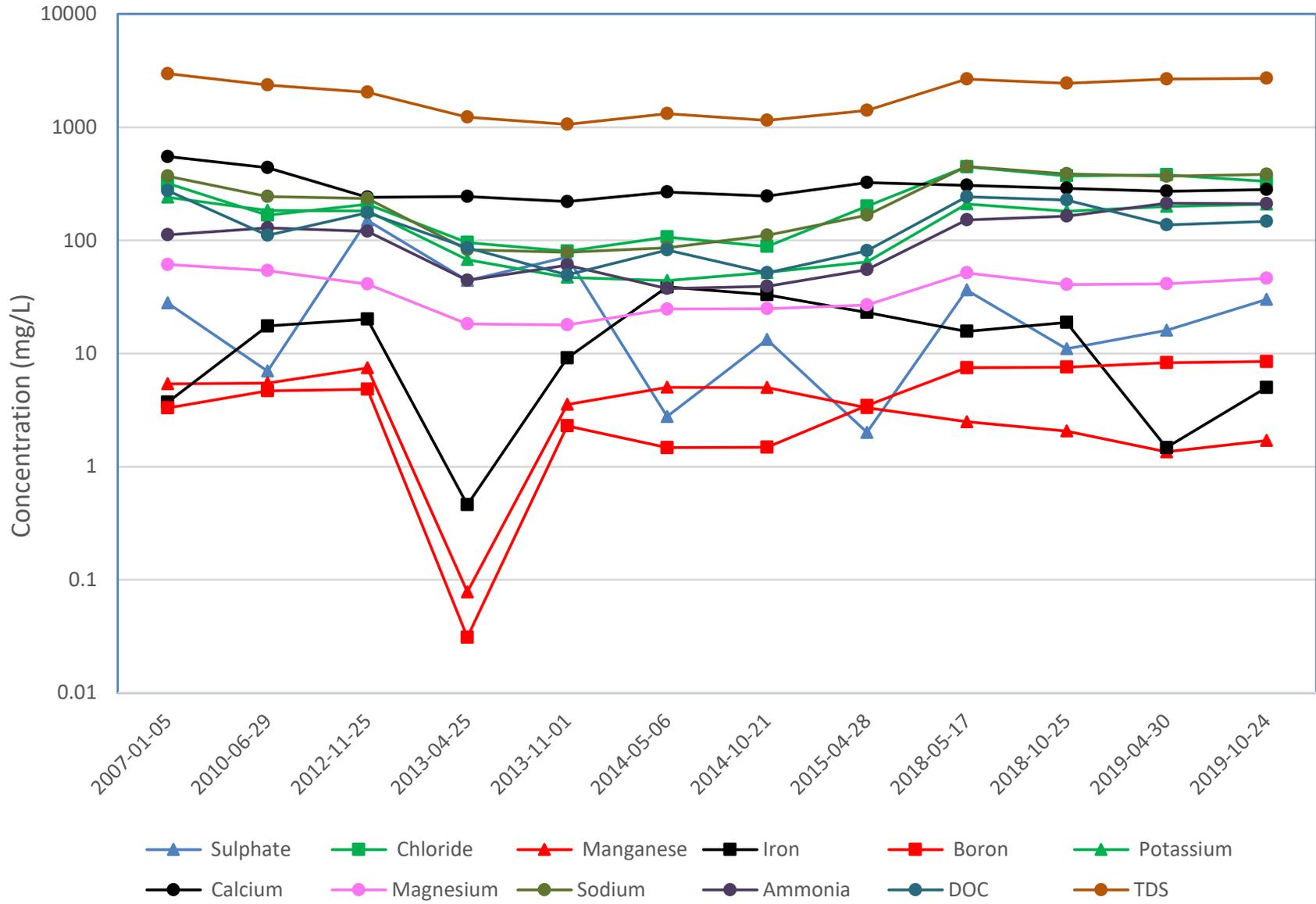
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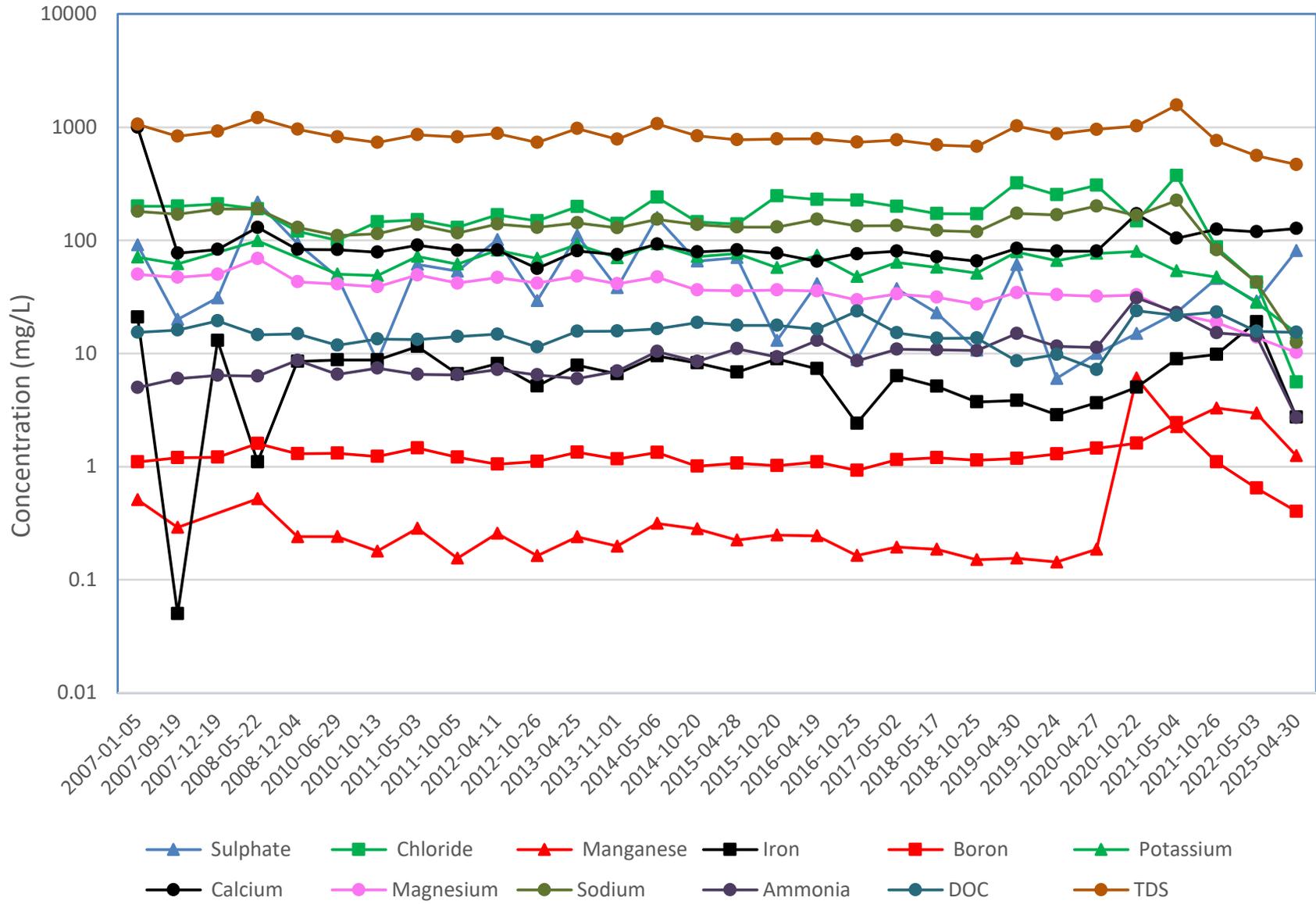
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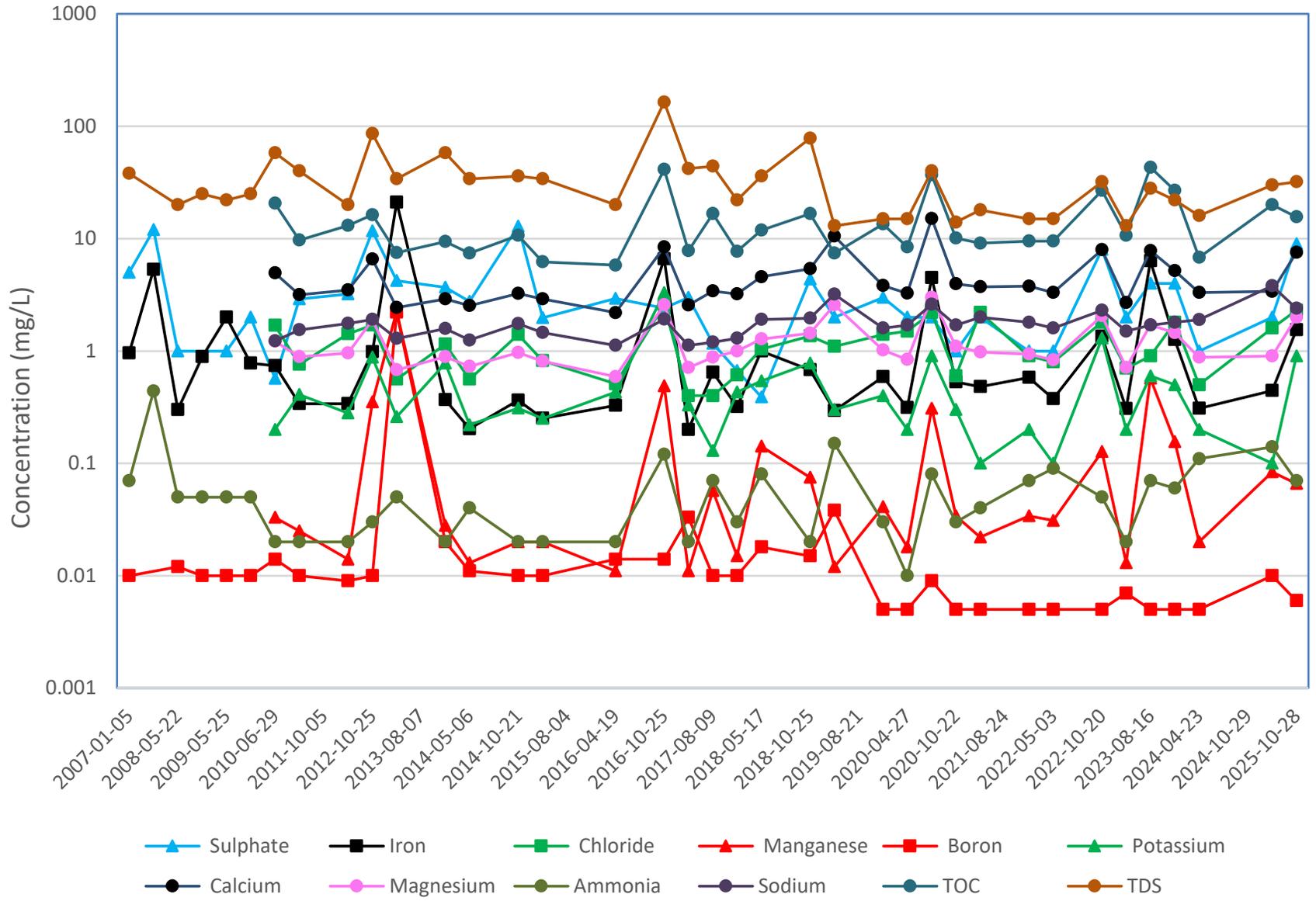
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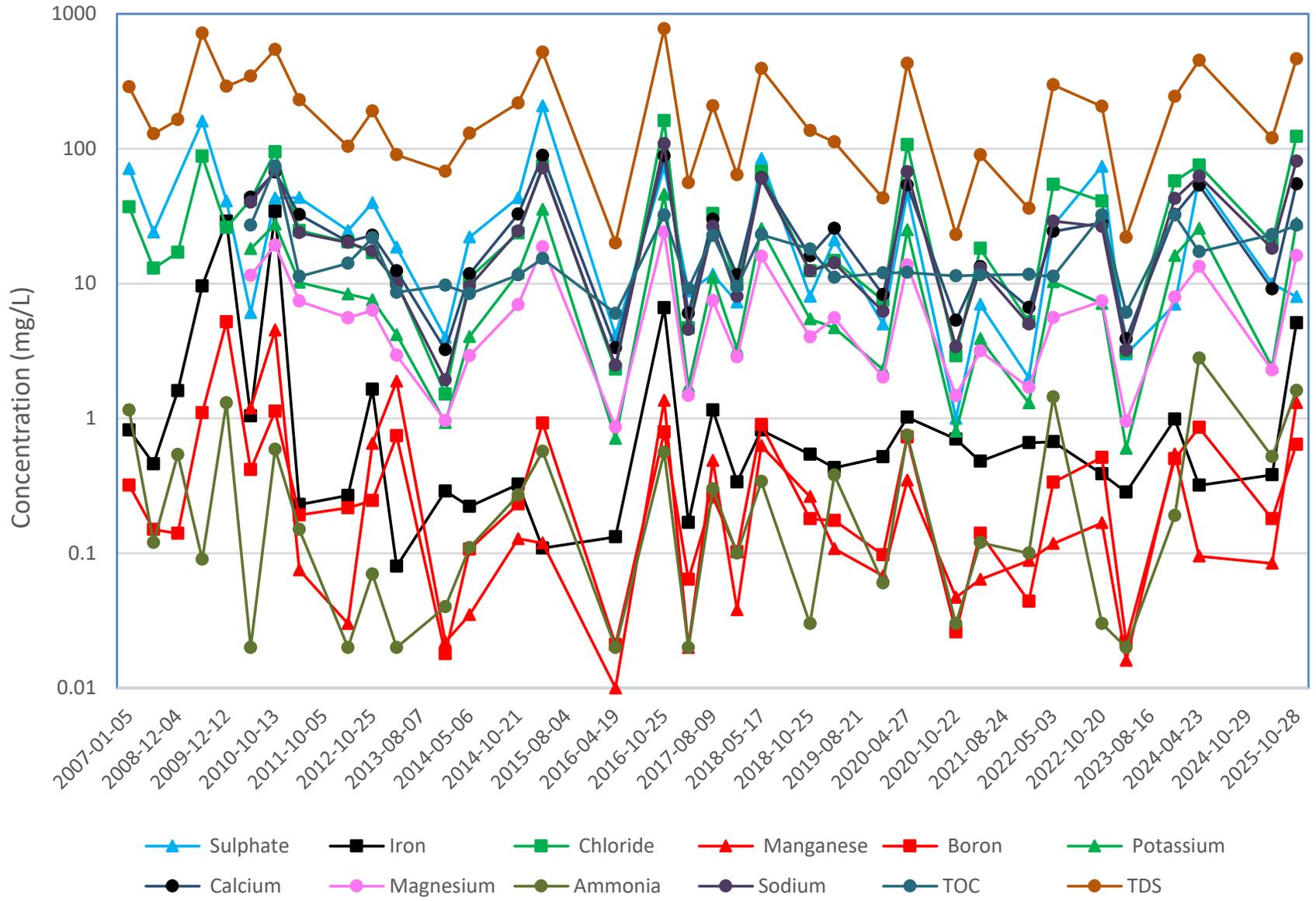
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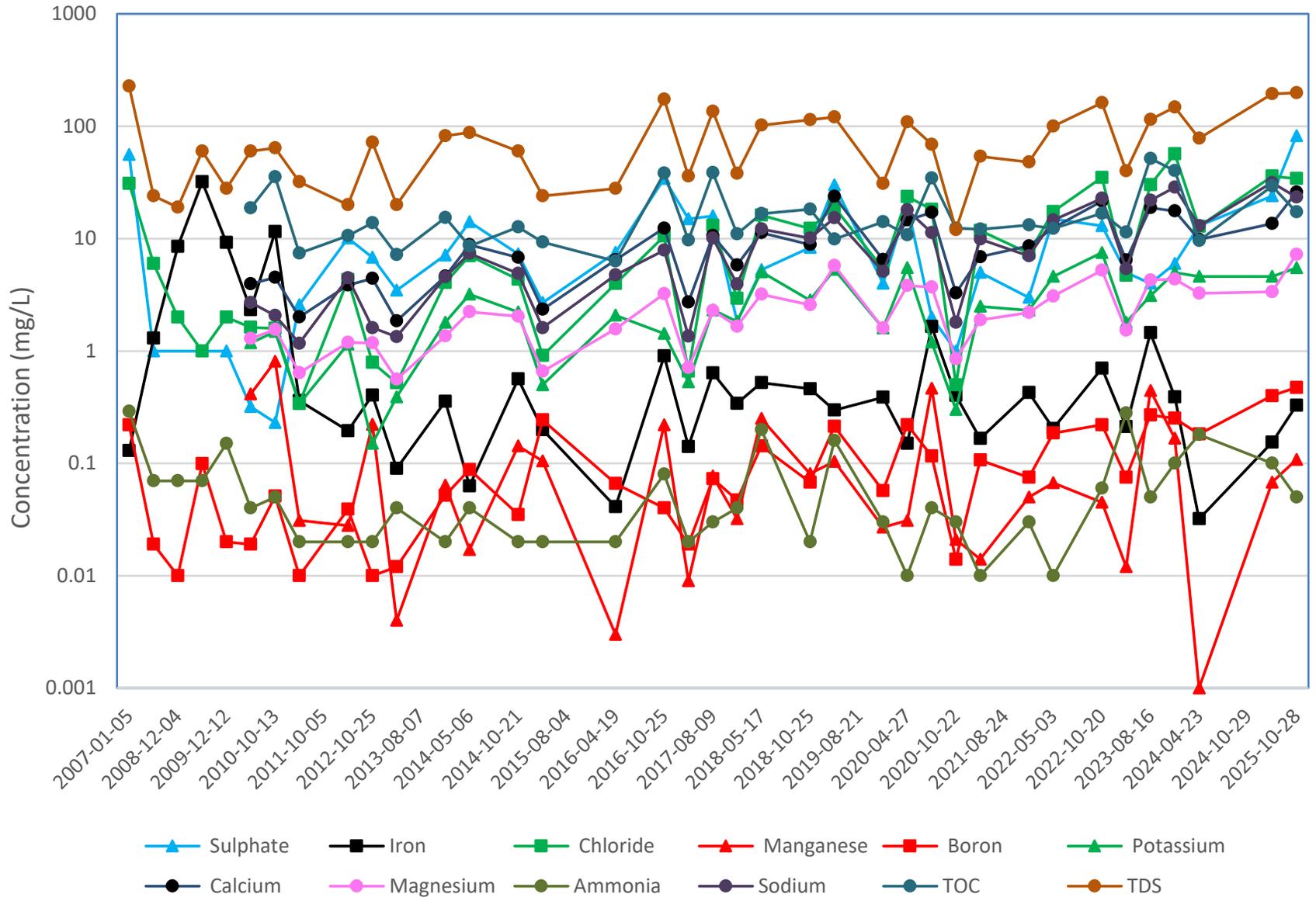
SW1



SW2



SW3





Environmental Approvals

Fisheries & Aquatic Ecology

Terrestrial & Wetland Ecology

Environmental Engineering

Hydrogeology & Contaminant Hydrogeology

Arborist Services

Environmental Site Assessment

Species at Risk

Project Management

Environmental Impact Assessment

Water and Wastewater Engineering

Environmental Site Inspection / Construction Monitoring



2023-2025 Performance Monitoring Report Aulds Road Landfill Site Municipality of Whitestone

Prepared for the Municipality of Whitestone

AEC Project No. 25-012 | February 2026



Environmental Assessments & Approvals

February 26, 2026

AEC 25-012

Municipality of Whitestone
21 Church Street
Dunchurch, ON
POA 1G0

Attention: Mike Huggins - Manager of Public Works

**Re: 2023 – 2025 Compliance Monitoring Report
Aulds Road Landfill Site**

Dear Mr. Huggins:

Azimuth Environmental Consulting, Inc. is pleased to present the 2023 – 2025 Compliance Monitoring Report for the Aulds Road Landfill Site. This investigation indicates that the landfill is not causing unacceptable impacts on the surrounding lands. While the landfill does not pose an environmental concern; its effect on the environment is measurable.

Continued semi-annual (Spring / Fall) monitoring is recommended such that any impacts that may arise from the continued landfill operations can be monitored. Reporting frequency was previously established at every three years, such that the next schedule monitoring report is to be submitted to the Ministry of Environment, Conservation & Parks (MECP) on March 31, 2029.



Should you have any questions or require additional information please do not hesitate to contact the undersigned.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.



Colin Ross, B.Sc., P.Geo.
Senior Hydrogeologist

C.C. North Bay District MECP Office



Table of Contents

	page
Letter of Transmittal.....	i
1.0 INTRODUCTION.....	1
1.1 Location and Site Description.....	1
1.2 Site Operations	2
2.0 SITE EVALUATION.....	3
2.1 Site Conceptual Model	4
2.2 Site Water Quality.....	5
3.0 DATA INTERPRETATION.....	6
3.1 Ground Water and Leachate	6
3.2 Downgradient Ground Water Quality	8
3.3 Surface Water	10
3.4 2023 - 2025 QA/QC Program	11
3.5 Graphical Interpretation	12
3.6 Reasonable Use Policy (Guideline B-7)	12
4.0 TRIGGER LEVEL MECHANISM & CONTINGENCY PLAN	13
4.1 Site-Specific Trigger Mechanism Monitoring	14
4.1.1 Trigger Locations.....	14
4.1.2 Trigger Parameters.....	15
4.1.3 Tier I – Routine Monitoring	15
4.1.4 Tier II – Confirmatory Monitoring	16
4.1.5 Tier III – Compliance Monitoring.....	17
4.1.6 2023 to 2025 Trigger Evaluation	17
5.0 CONCLUSIONS AND RECOMMENDATIONS	17
5.1 Proposed Monitoring Program.....	19
6.0 REFERENCES	21



List of In-Text Tables

	page
Table 1: Annual Waste Volumes.....	2
Table 2: Average Leachate Indicator Parameter Concentrations	8
Table 3: Average Leachate Concentrations of Parameters at Surface Water Locations.....	10
Table 4: Ground Water Trigger Parameters and Concentrations	16
Table 5: Surface Water Trigger Parameters and Concentrations	16
Table 8: Proposed Monitoring Program	20

List of Figures

Figure 1: Site Location	Appendix A
Figure 2: Site Layout / Survey (2025).....	Appendix A
Figure 3: Monitoring Locations	Appendix A
Figure 4: Final Contours	Appendix A

List of Appendices

Appendix A: Figures	
Appendix B: Chemistry Summary Tables	
Appendix C: Borehole Logs	
Appendix D: Chemistry Over Time Graphs	
Appendix E: Certificate of Approval	
Appendix F: Piper Diagrams	
Appendix G: MECP Landfill Report Submission Forms	
Appendix H: Surface Water Photos	



1.0 INTRODUCTION

The Municipality of Whitestone (Whitestone) is responsible for the operation and maintenance of the Aulds Road Landfill Site (Site) in accordance with the original Provisional Certificate of Approval (CoA) (No.: A7101392) (Appendix C) issued by the Ministry of Environment, Conservation & Parks (MECP) in January 1980. Residents self haul waste and recyclables to the Site which has controlled access during operational hours set by the Municipality of Whitestone (Municipality). Figures 1-4 illustrate the location and layout of the Site (Appendix A). Few details are available with respect to the history of the Site; however, it is understood that the Site has been in operation for over 45 years. The Site is owned by the Ministry of Natural Resources & Forestry (MNRF), although it is operated by the Municipality under a Land Use Permit (LUP) issued annually.

It has been reported that the Site is approximately 45 years old, although due to limited population and regular burning in the early years, the growth of the waste volume has been kept quite minimal.

This report provides a summary and analysis of the results obtained from the performance monitoring program completed at the Site over the past three years (2023 – 2025). This report will include a comparison to previous years monitoring programs which have been completed at the Site since 2009. As part of this evaluation, a detailed description of the site hydrology / hydrogeology has been completed. This is crucial in determining current as well as potential future impacts to the surrounding environment.

1.1 Location and Site Description

The landfill is located along the east side of Aulds Road approximately 300 m west of Highway 520 in the Municipality of Whitestone, Parry Sound District (Figure 1). Specifically, the landfill site is situated upon Part of Lot 30, Concession 3, in the Municipality of Whitestone (formerly Township of McKenzie), in the District of Parry Sound. The Site is partially fenced along roadway with access gates, while the remaining perimeter has natural barriers such as bush and rock outcrops, which control access to the site. The nearest residence is located approximately 300 m south of the landfill on the opposing side of a wetland area. The current waste footprint is ~0.5 ha; however, the CoA allows for the use and operation of a 4.0 ha landfilling site.

The active landfill area is situated along the western edge of a bedrock trough that extends approximately 170 m to the northeast. A detailed survey has not been completed at the Site; however, observations made during Site visits completed over the past several years indicate there is approximately a 2 to 5 metre elevation difference between the trough and the



confining bedrock ridges. Although no flow channels are visible within the trough, a small outflow channel has been observed during wetter periods (spring freshet) at the east end of the Site (SW-3, Figure 3), which would suggest that surface water movement would flow from the waste area, which represents the upper reaches of the local watershed towards the east outletting from the Site east of SW-3.

1.2 Site Operations

The Site is currently approved to accept municipal solid wastes (MSW). The municipality operates waste diversion programs including recycling in order to reduce the amount of wastes entering the landfill. The municipality also segregates clean wood and yard waste such that it can be ground and utilized as interim cover material, which will help to extend the Site life as well as reduced to need to import this material from off-site. The diversion materials include diversion of typical “blue box” materials such as newspaper, plastics, metals, etc. Large metal items are also segregated for removal from the Site. Currently the Site is operated as a self-haul facility where the public can access the Site during set operational hours. Municipal staff are present to ensure only appropriate and approved wastes are received, while proper waste segregation and diversion takes place.

Although limited records are available for the historic Site operations, Site topographic surveys have been completed annually since 2014 in order to estimate an annual waste acceptance volume. Based on the elevation data collected during these surveys, it was estimated that the Site receives an annual waste volume within the range of approximately 300 to 1,000 m³ with the historical data summarized in the following table.

Table 1: Annual Waste Volumes

Year	Waste Volume (m ³)
2015	400
2016	400
2017	461
2018	460
2019	540
2020	330
2021	1,100
2022	324
2023	360
2024	300
2025	155

* - includes waste an interim cover material



The volumes are noted to be relatively consistent over the period of record with 2021 and 2025 representing larger deviations. In 2021, the Site began to receive all yard waste from the entire municipality as it was no longer accepted at the Dunchurch Landfill. Much of this material in 2021 had not been ground such that the volume is likely an overestimate of the actual volume consumed once ground and placed as cover material on the waste mound. The grinding and placement of these materials will likely create variability in the cut and fill volumes over time such that it will be important to look at multi-year averages to assess capacity and fill rate. The 2025 volume is lower than the typical range due to the fact that a large amount of clean wood and yard wastes were unable to be surveyed as they were in large piles in preparation of grinding. As a result, the 2026 volume will likely be higher accounting for these wastes.

Given the current waste volume of 15,349 m³, remaining capacity of the Site is 15,981 m³ and an average annual fill rate of 300 m³ to 600 m³, the Site has an estimated remaining lifespan of approximately 25 to 50 years, which represents approximately 53% of the total capacity (30,000 m³). It is noted that the operations of the Site predate record keeping and a topographic surface prior to landfilling, such that the current waste volume is just an estimate based on the surrounding topography and estimated waste depths.

The Site is routinely inspected by the Site operators to assess any illegal dumping around the Site periphery, leachate seepage directly from the waste mound, cover material erosion, or excessive vector or vermin issues. During the 2023 to 2025 monitoring period, no complaints were received by the Municipality.

2.0 SITE EVALUATION

The purpose of this Site evaluation is to determine whether the landfill operations are having any measurable impact on the surrounding environment. This report will review the data collected between 2023 and 2025 in comparison to historic Site data. This data includes surface and ground water chemistry data, ground water elevation data as well as geologic data (borehole logs).

An important aspect of any site evaluation is the understanding of the mechanisms affecting the site. This understanding can be assembled to provide a conceptual framework referred to as a “site conceptual model” (SCM). This model is not a computer model, but merely a figurative representation for evaluation purposes. It is our opinion that it is impossible to undertake any meaningful analyses without a “framework” to determine how the data fit within the context of the site setting.



An SCM for an environmental evaluation is dependent upon the geologic setting. The site geology dictates how ground water will move through or around the media present. For example, ground water can easily flow through sands but flows around granite rock outcrops. The movement of ground water is important in landfill evaluations because waters that percolate through the emplaced wastes (*i.e.*, contaminated waters) mix with the underlying ground water and will move with the ground water in the direction of flow.

2.1 Site Conceptual Model

This section summarizes the site evaluation and presents our best estimate of the site setting. The SCM is presented at the outset of the report to “set the stage” for the reader. Subsequent sections of the report provide the details of the evaluation pertinent to the SCM development.

The area is characterized by thin soils covering Precambrian bedrock outcropping. The surface topography is hummocky, owing to the undulating bedrock surface. According to Chapman and Putnam (1984), the region is classified as the Georgian Bay Fringe physiographic region where soils are generally shallow with bare rock knobs and ridges.

Review of Quaternary and Surficial Geology Mapping (OGS, 2010) indicates that although there is a dominance of bedrock outcropping with limited thickness of overburden materials. Geological materials in the area are noted to be organic deposits (peat, muck & marl) as well as coarse (sand and gravel) and fine (silt and clay) textured glaciolacustrine deposits. The underlying bedrock in the area is made up of an undulating gneissic bedrock surface (OGS, 2010).

More locally, the monitoring well logs (Appendix B) indicate the site is situated atop a thin layer (1.1 to 3.0 m) of silty sand / sandy silt, while the area further northeast between the bedrock ridges is made up of a thick organic layer of peat soils (~1 m), overlying a grey silty clay unit. The depth of overburden over the Site varies; however, was not observed to extend more than 3.0 m below ground surface (Appendix C).

Given the nature and composition of the local overburden sediments in conjunction with the estimated compaction density of the wastes deposited at the site (*i.e.*, 300 to 500 kg/m³), a significant permeability differential would exist between these materials and that of the underlying bedrock. As such, precipitation falling on the landfill would tend to infiltrate through the cover material and flow vertically downward through the profile toward either an overburden ground water table or the bedrock surface. Under this scenario, flow (from precipitation) migrates laterally in response to the undulating slope of the bedrock surface or above ground as surface runoff where the clay soils limit vertical percolation. Both ground



water and surface runoff ultimately discharge into the forested wetland feature northeast of the waste mound. The forested wetland area is seasonally saturated due to the limited drainage owing to the thin and fine-grained soils as well as the bedrock ridges which confine the downgradient area.

2.2 Site Water Quality

Annual water quality monitoring has been ongoing since 2009 and possibly previously; however, the records for the Site were noted to potentially be incomplete as monitoring wells were originally installed in 2001. Given the shallow overburden depth and limited potential for leachate migration within the bedrock, surface water monitoring was added to the program in 2014 to assess this potential leachate migration pathway.

Monitoring wells MW-1 and MW-3 were installed in 2001 and are located immediately west and east of the landfill area respectively. Given the local topography and environmental site setting, additional monitoring wells were installed in 2016 to assess ground water quality further downgradient of the landfill area. MW-4, MW-5, MW-6 & MW-7 were installed by both a mini excavator and hand auger due to the limited overburden depth and inability to get drilling equipment into the forested wetland due to wet and unstable soils (peat). All wells were installed to depths at or immediately above the bedrock contact. Given the redundancy in locations MW-4, MW-5 and MW-6, MW-4 and MW-5 were removed from the program as MW-6 had the most sufficient depth to allow for proper purging and sample collection. MW-4 and MW-5 remain at the Site and could be utilized in the future if needed. It is noted that MW-6 became damaged, with the pipe broken at surface in 2025, likely by an animal. It was unable to be repaired as the area was flooded during both 2025 monitoring events such that the joint could not be properly sealed. It will be attempted to be repaired in 2026, and if not, then MW-5 could be utilized as it is in the same general area and would represent similar water quality.

The current surface water monitoring program includes a background location south of the Site (SW-1) and two downstream locations approximately 100 m (SW-7) and 200 m (SW-3) from the active waste area within the forested wetland area. These locations are based on the downgradient bedrock trough area such that the attenuative capacity of the trough can be evaluated with distance from the waste area. There were historic surface water locations located outside of this bedrock trough (SW-2, SW-4 & SW-5); however, initial monitoring data confirmed their hydraulic separation from the bedrock trough such that they were discontinued.

The current surface water monitoring network includes SW-1, which is situated south of Aulds Road within a wetland feature hydraulically separated from the landfill Site. As such, this



location provides an appropriate background reference location. SW3 and SW-7 provide an indication of water quality within the downstream bedrock trough that is interpreted to receive all surface runoff and potential ground water discharge from the landfill area. As well, comparison between these locations provides the ability to assess the attenuation capacity of the forested wetland area prior to discharge off-site.

These monitoring locations are illustrated on Figure 3.

Azimuth used contemporary environmental sampling protocols to collect the water quality samples. During all Site visits conducted between 2023 and 2025, water levels were measured prior to sampling at all available ground water monitors. Ground water samples were then collected following purging of at least three borehole volumes of water from each monitor using dedicated check valve pumps and tubing or until the monitor was dry and sufficient recovery was realized. Ground water samples for metals and dissolved organic carbon (DOC) analysis were also field filtered for using disposable in-line 0.45 µm filters.

All surface water samples were collected from below the water's surface and were not filtered, as per industry standard. Although attempts were made to eliminate floating vegetation or sediment from entering the sample bottles, the limited water depths and stagnant nature of all surface water locations made it difficult to collect a completely sediment-free sample on most occasions.

During sampling of both ground and surface water, field chemistry data was also obtained using probes for pH, conductivity, dissolved oxygen and temperature. Caduceon Laboratories of Barrie (CALA-accredited) completed the analytical work for the current monitoring period, in addition to providing all of the sample bottles. These new bottles are pre-filled with the appropriate preservatives. Following field collection, all samples were maintained in coolers with freezer packs or ice and were delivered to the laboratory within 48 hours of collection. The location of each monitoring station is detailed on Figure 2.

3.0 DATA INTERPRETATION

3.1 Ground Water and Leachate

As stated previously, the slope of the bedrock surface underlying the Site controls ground water flow in the vicinity of the site. As the bedrock ridges are present on both the north and south sides of the landfill area and downgradient forested wetland, ground water is directed towards and through this bedrock trough feature. Given these conditions, it is likely that any leachate



created through infiltration would be ultimately directed towards the bedrock trough feature either through surface runoff or ground water flow.

A water budget was prepared using the Thornthwaite (1957) method based on long-term average climatic data from Environment Canada. The station utilized for this evaluation is located at the Parry Sound Harbour (No. 6116262) with average data from 1970 to 2024. The average water surplus is 565 mm/a, which represents the amount of water available annually to infiltrate into the ground water or run off as surface water. As a conservative estimate, approximately 70% of the available water surplus infiltrates into the waste, resulting in the generation of approximately 3,600 m³ of leachate each year, which is based on the proposed waste footprint of the final landfill footprint (0.9 ha) as described in the Site Design & Operations Plan (Azimuth, 2018b). In comparison the entire contributing watershed upgradient of the downgradient CAZ boundary is approximately 4.5 ha, which provides an available dilution of 25,600 m³/year. Compared to the leachate volume, a dilution factor has been established of at least 7:1.

Classic parameters indicative of a leachate signature are noticeable at the monitoring location closest to the landfill (MW-3), while concentrations of these parameters experience a substantial decline with distance from the landfill to the northeast along the bedrock trough, both within the ground and surface water. Although the perimeter well MW-3 is not screened within the waste, it is located close enough to provide an appropriate representation of leachate quality. Given the downgradient location and increase in certain leachate indicator parameters (*i.e.*, chloride, TDS), MW-3 has been established as the formal leachate well for the purposes of this evaluation. As summarized in Appendix B, several parameters are observed to be elevated at MW-3 compared to all other surface and ground water locations. These parameters included chloride, boron, ammonia, sulphate, magnesium, potassium, sodium, total dissolved solids (TDS) as well as a few other standard leachate indicator parameters. The increased sulphate is typically associated with construction debris, specifically gypsum wallboard (sulphate-rich). Similarly, the elevated magnesium, calcium as well as boron concentrations may also be a result of the construction debris. The elevated TDS is also indicative of a more mineralized water, which is attributed to the leachate signature. Ammonia is sourced to the putrescible household wastes accepted at the Site, while the salts (K, Na and Cl) are typically associated with landfill waste of various types.

In order to assess any potential trending in chemistry over time, several general water quality parameters have used to create graphs to illustrate water quality over time at the majority of monitoring locations. The data indicates increasing trends, although subtle for many leachate indicator parameters at MW-3. Over the past two years, many have become more stable with



some declining trends observed as well. As this location is closest to the waste area, and is becoming closer to the waste as it extends to the northwest over time, these concentration increases are expected.

3.2 Downgradient Ground Water Quality

Currently the ground water quality down gradient of the Site is monitored at two monitoring wells installed within the bedrock trough approximately 50 m (MW-6) & 200 m (MW-7) northeast of the waste area (Figure 3).

The potential horizontal migration of the leachate plume beneath the Site was evaluated by looking at average concentrations for numerous typical leachate indicator parameters. Averages are used since the geochemical signature is relatively consistent over time, beyond some minor trend noted below. These average values allow for comparison between locations and assessment of attenuation in the downgradient lands. These values are provided in Table 2.

Table 2: Average Leachate Indicator Parameter Concentrations

Parameters	ODWQS	Sampling Stations			
		Background	Leachate	Downgradient	
		SW-1*	MW-3	MW-6	MW-7
Calcium		3	274	39	5
Boron	5	0.01	7	1	0.1
Chloride	250	5	298	46	19
Ammonia		0.03	41	2	2
Sodium	200	2	316	29	7
Magnesium		1	54	8	1
Potassium		1	148	14	3
Alkalinity	500	5	765	45	5
Sulphate	500	4	632	95	8
Iron	0.3	1	27	6	1
Manganese	0.05	0.1	3	1	0.1
DOC	5	15	88	34	28

- Notes:
- Data from 2023-2025 (whatever available)
 - Data in mg/L
 - Values are rounded off for presentation purposes
 - Bold indicates ODWQS Exceedance

As can be observed, the majority of leachate indicator parameters show concentrations slightly elevated above background in the down gradient monitors. Given the age of the facility, the presence of the downgradient leachate influence is expected. The leachate influence is also



noted to decrease with distance from the waste mound indicating that attenuative processes are active within the area downgradient of the landfill. The exception to this is the ammonia concentrations which are consistent between the two downgradient locations.

Additional consideration should be given to the effect of the wetland on the water quality. Natural chemical processes within the peat soils of the wetland area can readily affect the concentrations of certain parameters which typically are considered leachate indicator parameters. For instance, the ammonia concentrations at the downgradient wells (MW6 & MW-7 are relatively consistent (2 mg/L), while many of the other leachate indicator parameter concentrations indicate a declining trend with distance from the waste mound. The source of this ammonia would typically be attributed to leachate influence, and may be at least partially in this case; however, it is surmised that it is natural in source. Similar natural sourced ammonia is also observed at the other Whitestone landfill in Dunchurch, where elevated ammonia concentrations are present in the furthest downgradient wells within a wetland, while the more proximal locations indicate much lower concentrations. It is assumed that the ammonia is being generated through anaerobic processes within the peat soils with the nitrogen source likely being natural decay of organic materials within the wetland.

Other parameters such as dissolved organic carbon (DOC) and total phosphorus can also be elevated in an anaerobic setting with decaying organic materials. As such, these parameters are not ideal for assessment of potential leachate impacts within the wetland feature.

A comparison of the ground water data to the Ontario Drinking Water Quality Objectives (ODWQS) indicates that several parameters are exceeded, including colour, turbidity, aluminum, iron, manganese, DOC and pH. Colour and turbidity are related more to the unfiltered nature of the samples, while aluminum, DOC, pH, iron and manganese are observed to exceed in the background surface water location with similar concentrations as those observed in the downgradient ground water indicating they are at least partially natural in source.

With respect to trending in the downgradient monitors, MW-6, which is ~50 m downgradient of the waste mound shows some variability over time but the parameter concentrations generally fall within a predictable range.

The furthest downgradient monitor MW-7 is located approximately 200 m downgradient of the waste mound shows much more stable concentrations, although the boron and sulphate concentration do show more variance over time.



Overall, the water quality data indicates there is a measurable influence on the downgradient water quality; however, the limited leachate strength and attenuative capacity of the downgradient bedrock trough would confirm the operation of the Site in its current configuration is not causing unacceptable environmental impacts.

3.3 Surface Water

As can be observed from the available surface water data, as well as the summary of the average concentrations below (Table 3), there does appear to be a measurable, although minimal, difference in several parameter concentrations between SW-1 and many of the downstream locations. Some caution should be exercised when reviewing the metals concentrations (iron & manganese) as these concentrations can be skewed high due to sediment entrainment during sample collection. Overall, the water quality indicates that although there is a measurable leachate influence within the surface water, there is a downward trend in concentrations with distance away from the waste area. This would indicate that there is adequate attenuation within the bedrock trough to mitigated leachate impacts prior to surface water leaving the Site. It is also noted that there is no defined flow channel and that the surface water feature that is monitored represents a seasonally flooded, stagnant feature such that there is limited ability to transport leachate impacts relative to a defined surface water channel.

Table 3: Average Leachate Concentrations of Parameters at Surface Water Locations

Parameters	PWQO/ CWQG*	Sampling Stations			
		Upstream	Leachate	Downstream	
		SW-1	MW-3	SW-7	SW-3
Calcium		3	274	41	22
Boron	1.5	0.01	7	0.4	0.3
Chloride		5	298	35	22
Ammonia		0.03	41	0.2	0.1
Unionized Ammonia	0.02	0.0003	NA	0.0004	0.0001
Sodium		2	316	20	15
Magnesium		1	54	6	3
Potassium		1	148	10	8
Alkalinity	25% ³	5	765	96	44
Sulphate		4	632	42	28
Iron	0.3	1	27	1	1
Manganese		0.1	3	0.3	0.1
TOC		15	88	26	33

units - mg/L

ODWQS - Ontario Drinking Water Quality Standards

* - SW-1 used as there is no representative background overburden location available

** - in order of distance from the waste

average concentrations from 2023-2025 (where available)



In addition to the average concentration data presented above, the data (Appendix B) has also been compared to the Provincial Water Quality Objectives (PWQO). The PWQO has been exceeded for several parameters including pH, iron, silver, aluminum, lead, copper, boron and total phosphorus. However, with the exception of boron, lead and copper, all these parameters have been noted to be exceeded in the upstream location at similar or more elevated concentrations such that they are considered naturally sourced. The boron exceedances with the most consistently elevation concentrations are noted at the monitoring location closest to the landfill (SW-7); however, the concentrations have shown to be reduced closer to the outlet of the property (SW-3) with concentrations typically near or below the objective during the Spring, with more elevated concentrations during the Fall.

It should be noted that the PWQO criteria for boron is interim. As such, MECP Standards Branch has indicated that given the limited toxicology dataset that was utilized during development of the PWQO criteria that the Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life (CCME, 2003) value would be more appropriate to use as it utilized a more robust toxicological dataset and was developed by the MECP than what was used to support PWQO in 1994. As such, the CWQG value for boron for long term exposure is 1.5 mg/L, which is met at all surface water locations at the site for the period of record as the maximum boron concentrations during 2023 and 2025 were 1.35 mg/L at SW-7 and 0.72 mg/L at SW-3.

The lead and copper exceedances are more likely derived from sediment entrainment during sample collection given those concentrations have not exceeded historically and the turbidity concentration for those sampling events was elevated at >30 NTU supporting an elevated sediment load in the sample.

Overall, despite the exceedances and leachate influence in the seasonally flooded forest area of the Site, the surface water quality at the boundary is compliant with PWQO and CWQG for parameters related to the landfill operations.

3.4 2023 - 2025 QA/QC Program

As part of the routine sampling program for the Aulds Road Landfill, duplicate samples were collected and analyzed for quality assurance purposes. Over the three-year monitoring period, a single duplicate sample is collected during each monitoring event. The laboratory was not advised of the sample duplication prior to analysis of these samples. Results are provided in Appendix B and indicated results between samples to correlate very closely with a few minor exceptions, including ammonia during the April 2025 monitoring event (46.1/27.2 mg/L) and nitrate during the April 2024 monitoring event (0.87/<0.4 mg/L). However, these concentrations still fell within the historical ranges, while the remaining parameters did not



show similar variance such that the inconsistencies were considered to be acceptable and the laboratory quality considered sufficient.

3.5 Graphical Interpretation

An alternate evaluation technique (to identify unique waters) is to compare the major ion chemistry of different waters or waters that have been mixed with two or more sources. A comparative analysis was done of the ratios of major ion constituents for the monitoring period as well as between locations. The assessment of ratios and plotting on a Piper diagram will show the consistency of the geochemical signatures and trends that demonstrate mixing or chemical reactions over time.

The results of this evaluation (Appendix F) indicated that there is some complexity in the chemistry at this Site, likely owing to the leachate influence, the natural anaerobic wetland environment which would create similar geochemically reducing conditions, as well as the meteoric water quality associated with the surface water derived from a smaller watershed. As a result, there is poor definition between sources (*i.e.*, leachate, surface water & ground water). Trending is observed with shifts in the sulphate and carbonate / bicarbonate influence. This is seen somewhat more seasonally at MW-6, relative to the other locations which could indicate mixing of leachate and natural wetland ground water quality, while these shifts at other locations are less defined. More variance is noted within the surface water, which is not surprising given the water quality shows a mix of leachate and meteoric water downgradient of the landfill over time.

3.6 Reasonable Use Policy (Guideline B-7)

This guideline establishes the basis for determining the "reasonable use" of ground water on property adjacent to sources of contaminants and for determining the levels of contaminant discharges considered acceptable by the MECP. Reasonable use values are typically derived from the Ontario Drinking Water Quality Standards (MECP, 2003), in which situation the guideline limits the concentrations of ground water leaving the property to be 50% of the difference between background concentrations and the ODWQS for non-health related parameters, while health related parameters cannot exceed 25% of the difference.

For the purposes of this project, RUP analysis will focus on the leachate indicator parameters listed in Table 1 for which drinking water standards exist (ODWQS, 2006). It is noted that iron, DOC and manganese were not included as these concentrations are elevated above the ODWQS in the background location (SW-1). As such, RUP is not appropriate for these parameters to assess compliance.



The compliance point has been established at MW-7, which is located closest to the downgradient property boundary. Given all parameters used are stated to be non-health related parameters, RUP values were calculated using the following equation:

$$C_m = C_b + 0.5(C_r - C_b)$$

Where,

C_m – Maximum allowable concentration or parameter at boundary

C_b – Background concentration

C_r – ODWQS for parameter in question

SW-1 was chosen as a background monitoring location as it is located upgradient of the landfill and has shown no indication of leachate impacts. Although it is a surface water location, the shallow meteoric ground water (where not influenced by landfill) at the Site is considered similar in quality to the surface water. The background concentrations used are the average concentrations for the most common leachate indicator parameters. RUP concentrations were calculated and are provided along with associated exceedances in the chemistry summary tables in Appendix B.

As illustrated in the water quality data for MW-7 (Appendix B), no leachate indicator parameters have exceeded RUP criteria and all concentrations are observed to be well below the established criteria.

4.0 TRIGGER LEVEL MECHANISM & CONTINGENCY PLAN

The surface and ground water trigger mechanism consists of a predictive and compliance trigger level monitoring program that will ensure the continued operation of the Site can occur without unacceptable impacts to the surrounding environment. A trigger mechanism was developed as part of the Hydrogeological Assessment submitted along with the Design & Operations Plan to the MECP in March 2018 (Azimuth, 2018b). However, the limited data set available at the time of the development of the original trigger program led to a review of trigger criteria in the 2017 – 2019 Compliance Monitoring Report, (Azimuth, 2020) suggesting that the criteria for boron in surface water may not be appropriate. This included changing the reference from the interim PWQO value for boron of 0.2 mg/L, to the CWQG value of 1.5 mg/L



as it was considered a more appropriate reference. The details of the trigger program are outlined below.

For this Site, a three-tier trigger level monitoring program, as shown below:

Tier I – Routine Monitoring

- considers levels of trigger parameters based on the routine monitoring program
- achieved through the annual monitoring program (frequency of 2 samplings/yr)
- key indicator PWQO / CWQG and ODWQS parameters are used

Tier I 'alert' triggers Tier II monitoring or direct initiation of the contingency plan and Tier III monitoring.

Tier II – Confirmation Monitoring

- monitoring for confirmation of the degree and nature of impact
- sampling frequency is increased and impact assessment parameters are expanded

Tier II 'confirmation' of impact triggers implementation of contingency plan and Tier III monitoring.

Tier III – Compliance Monitoring

- monitoring to check for compliance using target compliance parameters following implementation of contingency plan measure(s)
- sampling frequency is adjusted as required
- target parameters selected to monitor compliance and performance of contingency measure(s)

If Tier III monitoring shows compliance, then return to Tier I monitoring.

4.1 Site-Specific Trigger Mechanism Monitoring

4.1.1 Trigger Locations

For the purposes of this trigger level assessment, downgradient surface water station SW-3 and Monitoring Well (MW) 7 are established as the compliance trigger level monitoring locations. These locations fall in the most likely path of any possible migrating leachate plume, and are also located 65 and 100 m upgradient (respectively) of the downgradient property boundary so



that there is a sufficient buffer present to prevent off-site impacts during any potential mitigation processes which may be implemented.

4.1.2 Trigger Parameters

Trigger parameters are chosen by comparing surface and ground water quality data with that of the leachate quality data. The following concepts were considered when selecting the suite of trigger parameters:

- Trigger parameters are those typically found at low concentrations in background (unimpacted) surface and ground water and in elevated concentrations in leachate;
- Ideally, the difference in the PWQO / CWQG / ODWQS value for the selected trigger parameter and the background concentrations in the media should be sufficient enough to enable the determination of non-compliance with confidence by identifying a sustained increase in concentrations which is not simply due to the inherent and / or seasonal fluctuation in the data;
- The suitability of the parameter to serve as an indicator parameter is also considered (i.e., its mobility, persistence, and presence or absence of PWQO's, CWQG's, or ODWQS's). The reader is referred to the MECP's February 1994 document that describes attenuation mechanisms (MOEE, 1994). Adequacy of available data and the degree of fluctuation in analytical results were considered in selecting the trigger parameters.

Based on these criteria the ground water parameters selected were boron, chloride and sulphate, while the surface water parameters include boron and un-ionized ammonia.

4.1.3 Tier I – Routine Monitoring

As mentioned previously, SW-3 and MW-7 are suggested to represent the key receptor trigger locations. Historical data at the upgradient surface water station (SW-1) have been presented at this time to provide a background concentration for all trigger parameters proposed below. The Reasonable Use Policy (RUP) was used to calculate the ground water trigger concentrations, with the methodology discussed in Section 3.4. The parameters and associated trigger concentrations are shown in Table 4 below.



Table 4: Ground Water Trigger Parameters and Concentrations

Trigger Parameters	Background Concentration (mg/L)	Trigger Concentration (mg/L)
Boron	0.01	1.3
Chloride	10	130
Sulphate	4	252

The proposed surface water trigger limits near the downgradient boundary of the CAZ (SW-3) are based on PWQO (un-ionized ammonia) and CWQG (boron) values with a 0.75 factor added to add some conservancy. As such the following trigger concentrations are established.

Table 5: Surface Water Trigger Parameters and Concentrations

Trigger Parameters	Background Concentration (mg/L)	Trigger Concentration (mg/L)
Boron	0.01	1.1
Un-ionized Ammonia	<0.0005	0.015

These values may need to be altered in the future if notable fluctuations are observed in the background concentrations; however, the background concentrations would be expected to remain relatively consistent.

4.1.4 Tier II – Confirmatory Monitoring

The trigger mechanism is designed such that two consecutive exceedances of a given trigger parameter, at a given location, represents an action level.

Surface and ground water monitoring data from each monitoring event will be reviewed upon receipt for the laboratory to determine if any triggers are exceeded. If the concentrations of the trigger parameter exceed the trigger levels during two consecutive sampling events, a confirmatory monitoring program will be implemented.

The confirmatory monitoring program will comprise of collecting samples from the monitoring location in question on two separate occasions over the following two-month period. It is recommended that the samples being analyzed for the trigger parameters be collected in duplicate to determine if the results are representative, accurate, and precise.

The nature of the exceedance(s) and impact in general will be assessed to determine the associated level of concern and the degree of urgency for corrective actions. This review would include an evaluation of the feasibility and effectiveness of the various contingency options. Should the review determine that remedial action is triggered due to parameter exceedances



are derived from the on-site operations, a Contingency Plan would be developed and include possible solutions such as the following:

- increased monitoring frequency
- redesign of site operations
- capping and closure of site

Prior to implementation, the appropriate contingency measure(s) shall be discussed with and approved by the MECP within an appropriate amount of time based on potential ECA application and review times. Since the landfill is located in an area that is hydrogeologically restricted, and there are no sensitive, health-related receptors downgradient of the site, this approach will provide mitigation efforts that reflect the significance of the potential impacts.

Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the District Manager for approval.

4.1.5 Tier III – Compliance Monitoring

Tier III compliance monitoring is intended to assess the effectiveness of the implemented contingency measures. The Tier III compliance-monitoring program would be developed along with the Contingency Plan to specifically target locations, parameters, concentrations, and monitoring frequencies that reflect the issue. After compliance is confirmed the surface or ground water quality monitoring would revert to the Tier I monitoring program described in Section 4.1.3.

4.1.6 2023 to 2025 Trigger Evaluation

During the current monitoring period 2023 to 2025, no single ground water or surface water parameter concentration exceedance has occurred such that the Site is considered in compliance with the Trigger Mechanism Program and no further actions beyond continued routine monitoring are required.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on our review of the available Site data and previous investigations, the following conclusions have been made:



- The landfill in its current state is not causing a significant adverse environmental impact. The small size of the site and relatively small amount of wastes received annually are conducive to this outcome.
- The movement of ground water at the Site is controlled primarily by the topography of the underlying bedrock and physical properties of the soils within the wetland feature. This forested wetland area is a topographic low area that slopes to the northeast towards an outlet between the bedrock ridges present along the eastern property boundary. The limited drainage and bedrock ridges associated within this feature provides natural barriers to leachate migration such that impacts from the Site are easily tracked.
- The water quality within the downgradient wetland feature is complex and natural processes affecting the ground water within the peat soils is resulting in the natural generation of some typical leachate indicator parameters such as total phosphorus, ammonia and TOC / DOC.
- Distinct increases above background concentrations are noted at downgradient ground water and surface water monitoring locations for typical leachate indicator parameters such as calcium, chloride, ammonia, conductivity, potassium, boron, sulphate and alkalinity. However, concentrations for all these parameters become greatly reduced through dilution (surface water) and attenuation processes (ground water) which is evidenced with decreased concentrations for all parameters with distance from the waste. This is likely attributable to the high porosity and limited transmissivity of the media to which the leachate is introduced (*i.e.*, rapid rate of dilution [surface water] and limited transport [ground water]).
- The chemistry at the leachate monitoring location adjacent to the waste mound (MW-3) has indicated a slow increasing trend for most leachate indicator parameter values over time, although it is likely that this is reflective of the waste mound growing and extending towards this monitoring location over time.
- Similar increasing trends are not present at the downgradient monitors MW-6 and MW-7, although leachate influence is observable. Some variance is present at these locations although interpreted to be reflective of the wetland conditions in which they are located. Overall, the downgradient water quality indicates attenuative capacity is present in the downgradient area of the landfill.



- As MW-6 has become damaged, repairs will be attempted in 2026 when the area is dry enough to properly repair the broken riser pipe. In the event this is not able to be repaired, MW-5 will be used in substitution given it is located in a similar area and distance downgradient of the waste mound.
- The Site is in compliance with the Trigger Mechanism Plan, RUP and the PWQO (when background elevations considered), with the exception of boron, although still meets the CWQG, which is a more appropriate reference criteria based on the interim nature of the PWQO.
- The continued use of the Site as a natural attenuation facility in its current configuration and limited waste acceptance rate would indicate that the current environmental conditions would not be altered significantly with the proposed expansion. The current CAZ (property limits) provides a separation of approximately 250 m with the proposed footprint (along bedrock trough). However, the attenuation capacity of the Site may not be able to accommodate a more significant increase in waste acceptance rates. As such, consideration for these potential limitations should be considered as part of the waste management strategy for the Municipality in the future. For example, a shift or diversion of wastes from the Dunchurch Landfill Site may not be able to be accommodated given the attenuation capacity of the Site.
- As operations continue and the waste area expands, application of fill material at the base of any new waste cell should be completed to ensure no wastes are present within the saturated ground conditions that surround the current waste area.

5.1 Proposed Monitoring Program

The monitoring program for 2026 to 2028 is based on what was established in the 2018 Design & Operations Plan (Azimuth, 2018b) with the exception of MW-1 not being included as the monitor was destroyed. Given this location yielded similar results along the periphery of the waste to what is observed at MW-3 and the fact that leachate migration in that direction is limited by bedrock outcropping, MW-1 is not proposed to be replaced. As such, it has been removed from the proposed monitoring program. This program is itemized in the following table.



Table 8: Proposed Monitoring Program

Monitoring Station	Frequency	Analysis Required
Ground Water MW-3, MW-6 & MW-7	Spring (April / May) and Fall (October / November)	major and minor inorganics including trace metals. Field Parameters: water levels, pH and conductivity
Surface Water SW-1, SW-3 & SW-7	Spring (April / May) and Fall (October / November)	major and minor inorganics including trace metals. Field Parameters: pH, temperature, conductivity & dissolved oxygen

In addition to the annual surface and ground water monitoring program there is also included the collection of hydraulic (water level) measurements in all the ground water monitoring wells and flows within the surface water locations (where measurable) semi-annually (spring and fall).



The major and minor inorganics should include:

pH	Alkalinity
Bicarbonate	Carbonate
Hardness (as Calcium Carbonate)	Phosphorus
Electrical Conductivity	Chloride
Nitrate	Nitrite
Calcium	Magnesium
Sodium	Potassium
Ammonia Nitrogen	Dissolved Organic Carbon
Total Dissolved Solids	Orthophosphate
Turbidity	Sulfate
Aluminum	Arsenic
Barium	Boron
Chromium	Copper
Iron	Lead
Manganese	Nickel
Strontium	Zinc

Based on the reporting frequency established in the 2018 Design & Operations Plan of every three years, the next scheduled report submission to the MECP is March 31, 2029, which will summarize the 2026 – 2028 monitoring data.

6.0 REFERENCES

Azimuth Environmental Consulting Inc., 2023. 2020-2022 Compliance Monitoring Report – Aulds Road Landfill Site.

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Azimuth Environmental Consulting Inc., 2018a. Hydrogeological Assessment – Aulds Road Landfill Site.

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Georgian Engineering., 1995. The Township of Hagerman – Solid Waste Landfill Operation Report



APPENDICES

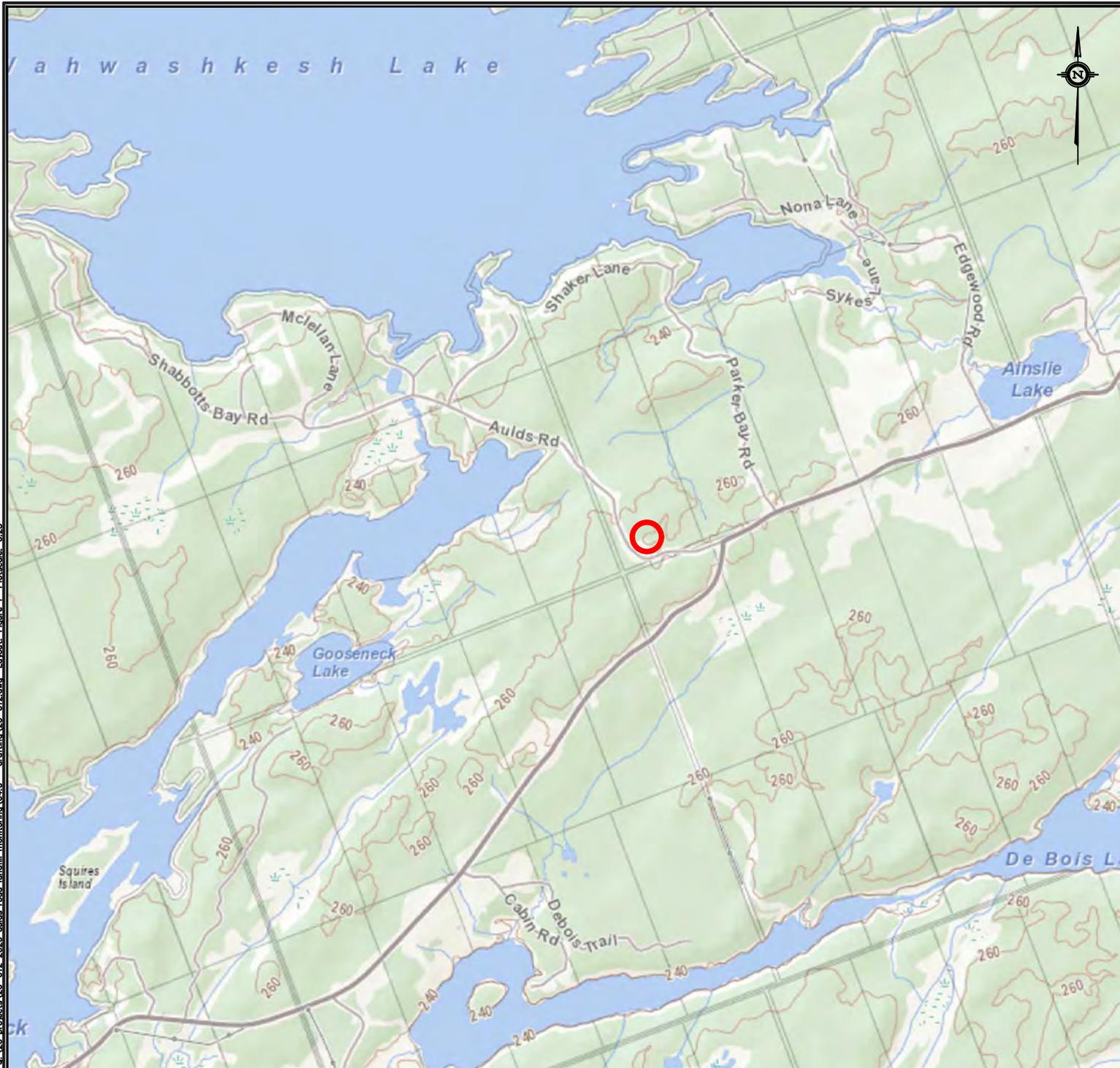
- Appendix A: Figures**
 - Appendix B: Chemistry Summary Tables**
 - Appendix C: Borehole Logs**
 - Appendix D: Chemistry Over Time Graphs**
 - Appendix E: Certificate of Approval**
 - Appendix F: Piper Diagrams**
 - Appendix G: MECP Landfill Report Submission Forms**
 - Appendix H: Surface Water Photos**
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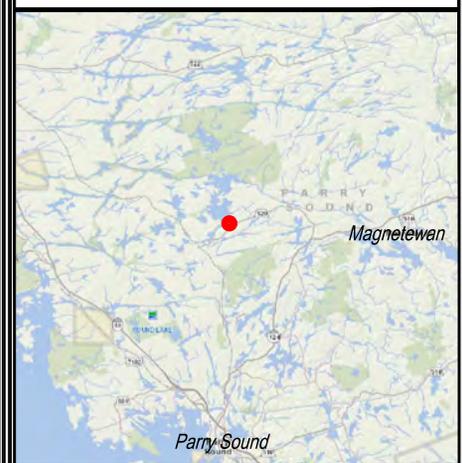
APPENDIX A

Figures

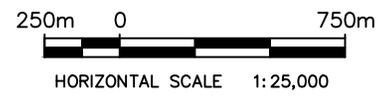
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LEGEND:
— *Approx. Study Area*



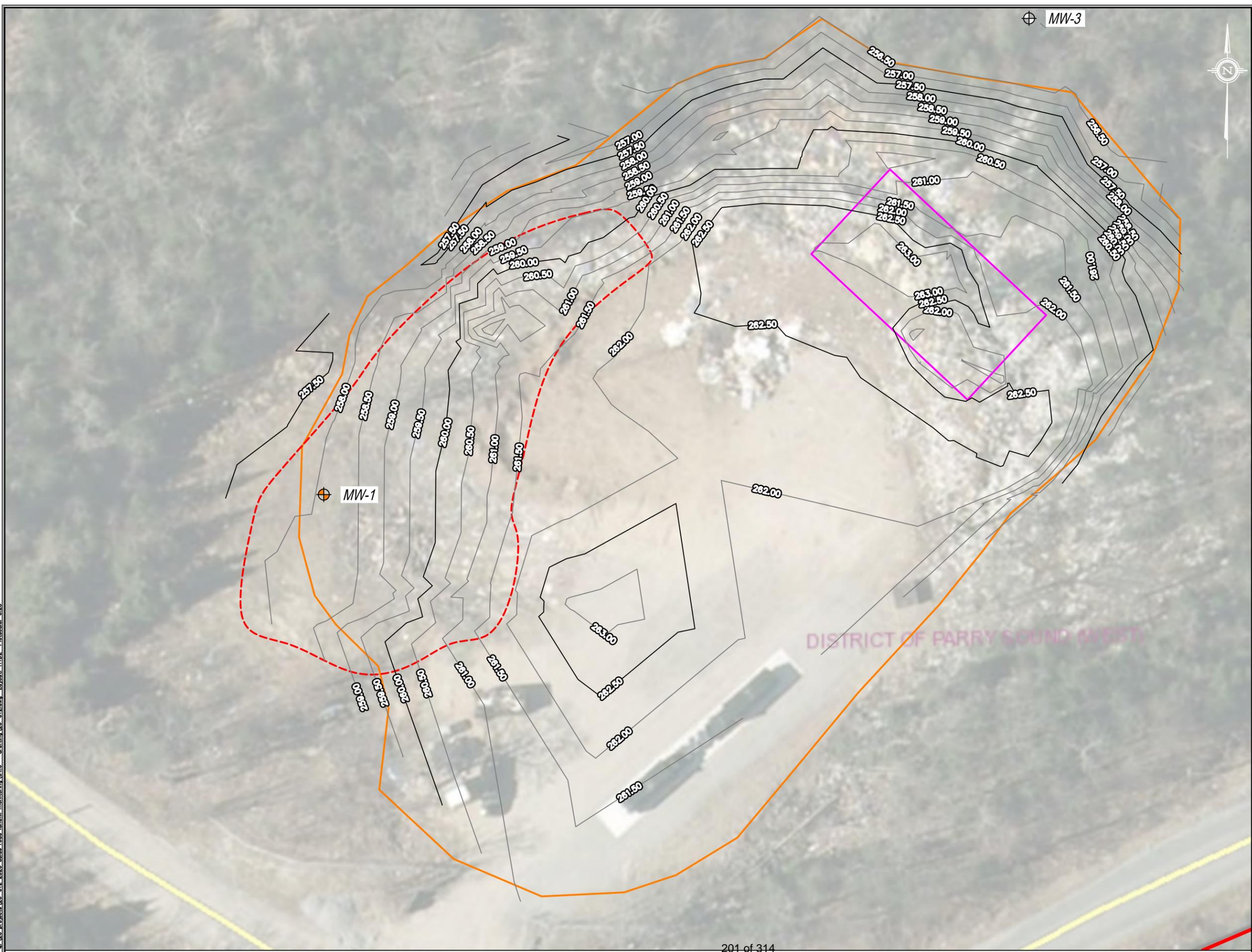
Regional Map



Study Area Location

Auld's Rd. Landfill,
Whitestone, ON

DATE ISSUED: <i>January 2026</i>	Figure No.
CREATED BY: <i>JLM</i>	
PROJECT NO.: <i>25-012</i>	
REFERENCE: <i>Google Maps</i>	
	1



- LEGEND:**
- Approx. Property Boundary
 - Waste Footprint
 - Active Waste Area
 - - - Clean Wood / Yard Waste Waste Area
 - 0.5m Contours
 - 2.5m Contours
 - Well Locations
 - Historic Monitoring Location



Site Survey

Auld's Rd. Landfill,
Whitestone, ON

DATE ISSUED:	January 2026	Figure No.
CREATED BY:	JLM	2
PROJECT NO.:	25-012	
REFERENCE:	West Parry Sound Imagery	

Plotted by: ALU on January 15, 2026 at 9:11am
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LEGEND:

- Approx. Property Boundary
- Waste Footprint
- - - Final Waste Footprint
- Bedrock Outcrop
- ⊕ Well Locations
- ⊕ Surface Water Locations
- ⊕ Historic Monitoring Location



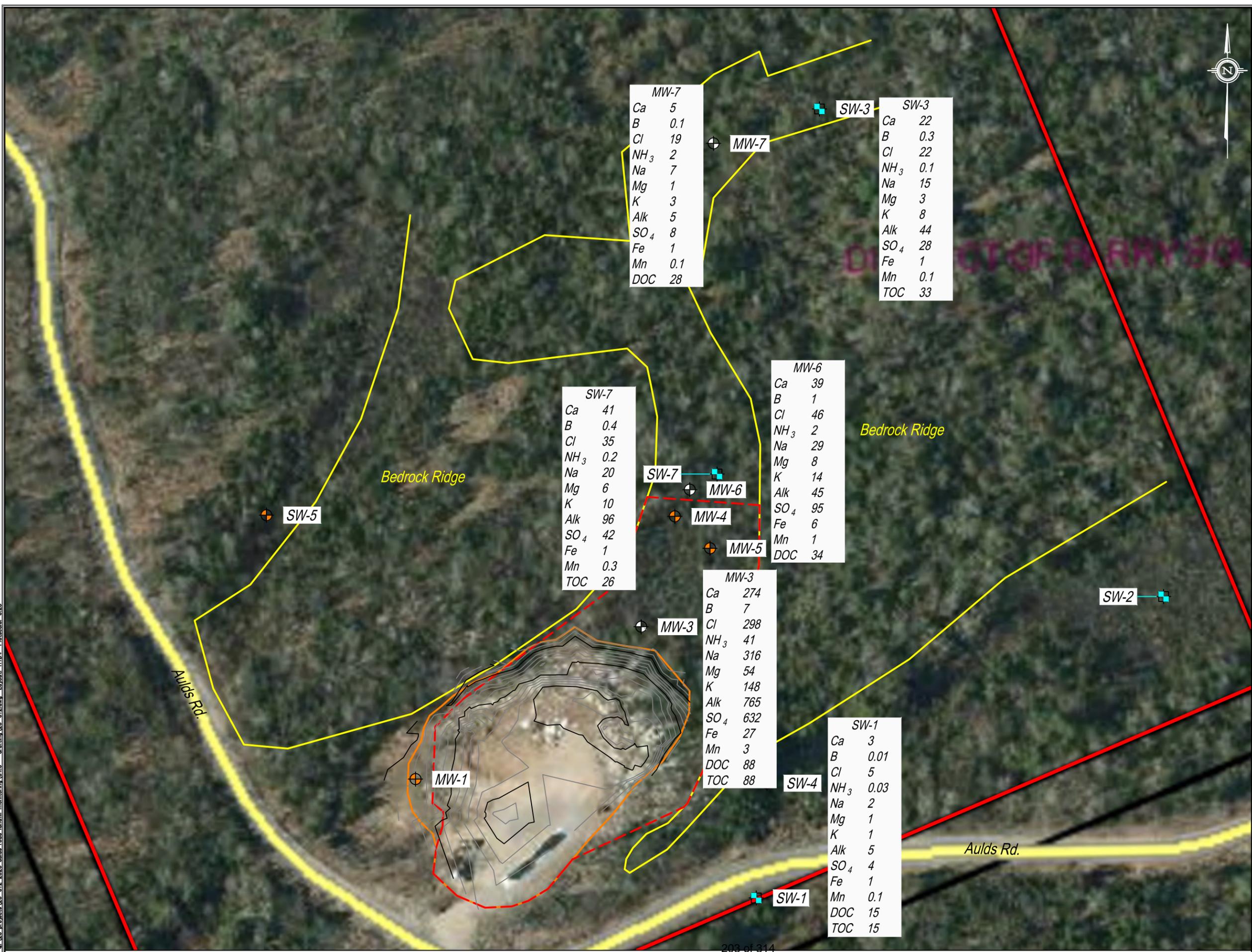
Site Monitoring Locations

Auld's Rd. Landfill,
Whitestone, ON

DATE ISSUED:	January 2026	Figure No. 3
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REFERENCE:	West Parry Sound Imagery	

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LEGEND:

- Approx. Property Boundary
- Waste Footprint
- - - Final Waste Footprint
- Bedrock Outcrop
- Well Locations
- Surface Water Locations
- Historic Monitoring Location

Note
 Average concentrations are in mg/L from 2017-2021 (where available).

HORIZONTAL SCALE 1:1,250

Average Leachate Parameter
Concentration Distribution

Auld's Rd. Landfill,
Whitestone, ON

DATE ISSUED: January 2026	Figure No.
CREATED BY: JLM	4
PROJECT NO.: 25-012	
REFERENCE: West Parry Sound Imagery	

MW-7

Ca	5
B	0.1
Cl	19
NH ₃	2
Na	7
Mg	1
K	3
Alk	5
SO ₄	8
Fe	1
Mn	0.1
DOC	28

SW-3

Ca	22
B	0.3
Cl	22
NH ₃	0.1
Na	15
Mg	3
K	8
Alk	44
SO ₄	28
Fe	1
Mn	0.1
TOC	33

SW-7

Ca	41
B	0.4
Cl	35
NH ₃	0.2
Na	20
Mg	6
K	10
Alk	96
SO ₄	42
Fe	1
Mn	0.3
TOC	26

MW-6

Ca	39
B	1
Cl	46
NH ₃	2
Na	29
Mg	8
K	14
Alk	45
SO ₄	95
Fe	6
Mn	1
DOC	34

MW-3

Ca	274
B	7
Cl	298
NH ₃	41
Na	316
Mg	54
K	148
Alk	765
SO ₄	632
Fe	27
Mn	3
DOC	88
TOC	88

SW-1

Ca	3
B	0.01
Cl	5
NH ₃	0.03
Na	2
Mg	1
K	1
Alk	5
SO ₄	4
Fe	1
Mn	0.1
DOC	15
TOC	15



APPENDIX B

Chemistry Summary Tables

Ground Water Quality Data

Parameter	Units	ODWQS	RUP	MW3 28-Apr-15	MW3 20-Oct-15	MW3 19-Apr-16	MW3 25-Oct-16	MW3 2-May-17	MW3 2-Nov-17	MW3 1-May-18	MW3 25-Oct-18	MW3 30-Apr-19	MW3 24-Oct-19	MW3 27-Apr-20	MW3 22-Oct-20	MW3 22-Oct-20	MW3 4-May-21	MW3 21-Oct-21	MW3 3-May-22	MW3 20-Oct-22
Saturation pH		-	-	6.93	6.89	6.72	6.85	6.6	6.57	6.63	6.49	6.65	6.59	6.57	6.58	6.57	6.48	6.38	6.32	6.28
pH		6.5 - 8.5	-	7.35	7.93	7.39	7.77	7.75	7.45	7.98	7.67	7.32	7.08	6.88	6.95	6.82	7.42	7.45	7.06	7.05
Alkalinity	mg/L	500	253	305	252	331	299	433	478	451	361	390	415	434	446	447	507	576	537	609
Bicarbonate	mg/L	-	-	305	252	331	299	433	478	451	361	390	415	434	446	447	507	576	537	609
Carbonate	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	-	1100	1580	1780	1170	1580	1400	1310	2350	2220	2500	2590	2180	2190	2620	2690	3270	3150
Fluoride	mg/L	1.5	0.075	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.1	<0.1	<0.1	<1	<1	<1	<1	<3	<1
Chloride	mg/L	250	127	107	129	186	140	154	135	139	245	234	236	239	191	191	254	243	267	281
Nitrate as N	mg/L	10	2.5	<0.25	<0.25	1.76	<0.25	<0.25	<0.25	<0.25	<0.5	<0.1	0.4	0.4	<1	<1	<1	<1	<3	<1
Nitrite as N	mg/L	1	0.29	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	3.5	<0.1	<0.1	<1	<1	<1	<1	<3	<1
Bromide	mg/L	-	-	<0.25	<0.25	0.52	<0.25	0.83	0.87	<0.25	<0.5	<0.4	<0.4	0.9	<4	<4	<4	<4	<10	<4
Sulphate	mg/L	500	252	82.9	239	285	112	196	127	124	619	467	526	534	379	387	578	522	765	670
Calcium	mg/L	-	-	85.7	120	134	98.8	134	135	125	212	185	201	203	190	194	211	238	297	289
Magnesium	mg/L	-	-	21.3	24.8	28.8	29.2	29.6	26.9	23.4	43.6	47.9	52.7	56.5	47.5	50.4	49	47	57	55.3
Sodium	mg/L	200	101	94	125	138	86.4	106	97.5	90.2	196	220	235	258	203	211	258	260	326	307
Potassium	mg/L	-	-	32.3	70.1	48.7	28	39.5	40.7	35.5	65.8	63.6	79.4	76.7	68.4	66.9	92.9	113	130	124
Ammonia as N	mg/L	-	-	3.58	4.83	4.96	4.94	5.9	8.3	7.94	6.55	13.4	16.6	19.9	12.8	12.9	25.2	22.7	27	27.1
Phosphate as P	mg/L	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	4.31	1.69	1.25	0.084	0.221	0.178	0.12	0.184	0.007
Total Phosphorus	mg/L	-	-	0.04	<0.01	0.02	0.04	0.03	0.03	0.02	0.03	5.65	2.78	2.81	2.01	1.39	1.44	0.27	1.55	1.01
Reactive Silica	mg/L	-	-	7.35	4.45	12.1	12.5	8.26	7.82	7.73	13.2	13.8	13.5	13.3	14.5	17.2	12.1	12.8	11.8	16.4
DOC	mg/L	5	-	38.9	43.8	23.8	42.8	46.9	50	40.8	51.9	23.4	73.3	26.6	20.3	2.1	21	76.8	62.8	44.9
Colour	TCU	5	-	61	100	190	412	66	83	58	40	53	60	99	73	69	123	95	315	83
Turbidity	NTU	5	-	1540	1	1.1	20.8	2100	341	2240	5550	1430	1210	1020	995	1110	1170	599	942	840
Aluminum	mg/L	0.1	0.20	0.151	0.139	0.156	0.232	0.279	0.18	0.112	0.122	0.29	0.27	0.34	0.16	0.31	0.25	0.22	0.26	0.3
Arsenic	mg/L	0.025	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0011	0.0011	0.001	0.0011	0.0011	<0.001	0.0012	0.0011	0.0014
Barium	mg/L	1	0.26	0.234	0.366	0.3	0.239	0.246	0.244	0.19	0.365	0.326	0.383	0.374	0.357	0.391	0.426	0.422	0.467	0.323
Boron	mg/L	5	1.25	0.73	1.35	0.998	1.02	1.3	1.33	1.41	1.64	2.47	2.86	2.98	3.17	3.1	4	4.6	4.64	5.52
Cadmium	mg/L	0.005	0.0013	<0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000033	<0.000029	<0.000029	<0.000029	<0.000029	<0.00012	<0.000029	<0.000029	<0.000029
Chromium	mg/L	0.05	0.014	<0.003	0.007	<0.003	0.005	<0.003	0.004	0.004	0.003	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.005	0.005
Copper	mg/L	1	0.50	<0.003	0.01	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	<0.002	0.003
Iron	mg/L	0.3	0.49	14.3	1.37	13.1	18.5	11.5	11.7	15.8	17.9	20.5	15.9	18.1	1.01	27.2	16.4	18.9	22.7	26.3
Lead	mg/L	0.01	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00008	<0.00009	0.00009	<0.00009	<0.00009	<0.0004	0.0001	<0.00009	0.00013
Manganese	mg/L	0.05	0.06	0.734	0.615	1.14	0.951	1.27	1.31	1.32	2.13	2.63	2.72	3.32	2.4	2.56	3.14	2.76	3.56	3.56
Molybdenum	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	mg/L	-	-	0.011	0.014	0.008	0.007	0.006	0.006	0.003	0.004	0.01	0.01	0.01	<0.01	<0.01	0.01	0.01	0.01	0.01
Selenium	mg/L	0.01	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.003	0.002	0.003	0.002	0.002	<0.004	0.003	0.005	0.007
Silver	mg/L	-	-	0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	-	0.644	0.523	0.59	0.436	0.587	0.557	0.504	0.705	0.787	0.926	0.901	0.733	0.763	0.822	0.801	0.978	0.867
Thallium	mg/L	-	-	<0.0003	<0.0003	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.00005	0.00006	0.00012	<0.00005	<0.00005	<0.00008	0.00006	<0.00005	<0.00005
Tin	mg/L	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	-	0.006	0.007	0.005	0.009	0.009	0.006	0.004	0.006	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.007
Uranium	mg/L	0.02	0.005	0.002	0.006	0.005	0.004	0.006	0.004	0.003	0.004	0.00551	0.00813	0.00692	0.00795	0.00823	0.0129	0.0128	0.0257	0.0214
Vanadium	mg/L	-	-	0.003	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	0.0031	0.003	0.0031	0.0033	0.0033	0.0033	0.0036	0.0033	0.0046
Zinc	mg/L	5	3	0.005	0.02	0.027	0.016	0.007	0.005	0.007	0.01	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Dissolved Solids	mg/L	500	258	656	1010	938	786	902	816	846	1470	1503	1621	1676	1366	1415	1800	1820	2225	2156
Total Hardness	mg/L	500	255	302	402	453	367	456	448	408	709	659	719	740	670	692	729	788	977	950
% Difference	-	-	-	1.6	3.99	0.5	0.414	5.94	3.84	6.73	4.18	4.24	5.14	26.5	5.96	9.74	2.64	5.52	8.17	6.74
pH (Field)	-	-	-	6.81	7.32	7.27	6.78	6.45	6.89	6.82	6.2	6.91	6.9	6.6	6.28	6.28	6.23	6.83	6.34	6.34
Temperature (Field)	°C	-	-	9	11.1	10.5	9.7	7.6	9.2	5.7	7.8	9.5	10.6	9.5	10.5	10.5	9.1	7.7	9.6	10.2
Conductivity (Field)	µS/cm	-	-	1100	1400	1464	940	1160	1210	1336	1900	1620	2217	2500	1440	1440	1990	1830		

Ground Water Quality Data

Parameter	Units	ODWQS	DUP		DUP		DUP		DUP		DUP		DUP		DUP		DUP		DUP	
			MW3 2-May-23	MW3 2-May-23	MW3 26-Oct-23	MW3 26-Oct-23	MW3 23-Apr-24	MW3 23-Apr-24	MW3 29-Oct-24	MW3 29-Oct-24	MW3 30-Apr-25	MW3 30-Apr-25	MW3 28-Oct-25	MW3 28-Oct-25	MW6 2-Dec-16	MW6 2-May-17	MW6 2-Nov-17	MW6 1-May-18	MW6 25-Oct-18	MW6 30-Apr-19
Saturation pH		-	6.33	6.32	6.12	6.13	6.33	6.33	5.98	5.98	6.15	6.19	5.94	5.94	9.14	9.35	9.05	8.7	8.36	8.13
pH		6.5 - 8.5	6.96	7.11	7.63	7.73	7.19	7.21	7.61	7.64	7.45	7.5	7.84	7.71	6.26	6.37	5.81	6.46	6.55	6.85
Alkalinity	mg/L	500	614	625	846	839	687	686	1090	1110	886	794	1100	1080	10	13	21	45	13	54
Bicarbonate	mg/L	-	614	625	846	839	687	686	1090	1110	886	794	1100	1080	10	13	21	45	13	54
Carbonate	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hydroxide	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Electrical Conductivity	µS/cm	-	3160	3250	3360	3390	3180	3240	3910	3920	3360	3320	3960	3950	364	118	114	141	836	417
Fluoride	mg/L	1.5	< 1	< 1	< 0.1	< 0.1	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.1
Chloride	mg/L	250	262	250	291	278	237	269	422	409	291	278	415	424	64.7	18.8	17.9	21.7	42.5	32.8
Nitrate as N	mg/L	10	< 1	< 1	< 0.05	< 0.05	0.87	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.05	< 0.05	< 0.05	0.06	< 0.25	< 0.1
Nitrite as N	mg/L	1	< 1	< 1	< 0.05	< 0.05	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.1
Bromide	mg/L	-	< 4	< 4	< 0.4	< 0.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5	< 1.0	0.22	0.05	0.06	< 0.05	< 0.25	< 0.4
Sulphate	mg/L	500	699	695	724	707	626	716	466	451	509	478	715	753	45.7	1.04	1.58	0.95	317	86
Calcium	mg/L	-	253	257	296	294	225	227	316	315	269	272	352	354	13.6	6.07	6.73	7.99	80.9	37
Magnesium	mg/L	-	56.7	56.9	52.3	51.8	57.9	57.8	51.2	51.6	52.4	52.4	58.3	58.8	4.39	1.94	1.98	2.45	13.9	7.28
Sodium	mg/L	200	300	302	311	308	308	307	377	380	296	298	389	393	36.9	7.86	6.66	8.94	38.4	24.9
Potassium	mg/L	-	121	122	149	148	140	141	216	218	135	136	218	218	13.5	3.37	2.99	4.64	19	13.2
Ammonia as N	mg/L	-	26.3	26.3	41.5	52.8	27.3	27.7	88.7	83.4	46.1	27.2	48.2	47.6	0.95	1.24	1.83	2.19	0.7	1.51
Phosphate as P	mg/L	-	0.012	0.016	0.026	0.017	0.04	0.046	0.008	0.021	0.035	0.008	0.013	0.013	< 0.10	0.22	< 0.10	< 0.10	< 0.50	0.132
Total Phosphorus	mg/L	-	1.92	2.84	1.64	1	1.85	1.74	2.04	1.2	3.24	2.05	0.74	0.55	5.82	0.29	0.15	0.4	0.07	0.24
Reactive Silica	mg/L	-	14.7	14.8	12.5	12.4	14.2	14.1	11.9	11.9	12.3	12.3	13	13.1	13.7	43.1	43.3	35.5	16.2	13.8
DOC	mg/L	5	65.7	65.8	83.4	66.6	99.8	98.5	136	123	125	126	164	161	2270*	35.3	36	32.9	29.8	18.1
Colour	TCU	5	102	88	135	156	128	120	168	175	119	125	224	218	118	312	331	176	66	82
Turbidity	NTU	5	972	1270	957	687	1160	1460	948	1140	1760	995	505	452	6510	480	1050	1870	2	133
Aluminum	mg/L	0.1	0.33	0.33	0.29	0.29	0.4	0.4	0.34	0.35	0.3	0.3	0.39	0.38	0.742	1.04	0.652	0.499	0.201	0.17
Arsenic	mg/L	0.025	0.0012	0.0012	0.0017	0.0018	0.0017	0.0016	0.003	0.0031	0.0021	0.0021	0.0005	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0003
Barium	mg/L	1	0.377	0.392	0.331	0.334	0.257	0.257	0.318	0.315	0.247	0.246	0.286	0.286	0.05	0.032	0.033	0.042	0.163	0.061
Boron	mg/L	5	5.4	5.44	7.84	7.8	6.81	6.75	8.92	8.96	6.87	6.87	10.8	10.9	0.452	0.15	0.113	0.131	1.45	0.58
Cadmium	mg/L	0.005	< 0.000029	< 0.000029	< 0.000030	< 0.000030	< 0.000030	< 0.000030	< 0.000015	0.000028	< 0.000015	< 0.000015	< 0.000015	< 0.000015	< 0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.000015
Chromium	mg/L	0.05	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.004	0.005	0.001	0.001	< 0.003	0.005	0.004	0.003	< 0.003	0.002
Copper	mg/L	1	< 0.002	< 0.002	0.0011	0.0008	0.0028	0.0028	0.0009	0.0009	0.0005	0.0005	0.0002	0.0001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.002
Iron	mg/L	0.3	34.9	35.2	29.1	29.7	33.9	34	24	23.8	25.6	25.3	24.3	24.5	1.34	2.15	1.58	4.2	3.44	2.64
Lead	mg/L	0.01	0.0001	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00004	0.00006	0.00004	0.00005	< 0.00002	< 0.00002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	0.00007
Manganese	mg/L	0.05	3.3	3.35	3.24	3.19	2.85	2.88	2.52	2.51	2.14	2.16	2.28	2.29	0.18	0.106	0.138	0.263	1.17	0.311
Molybdenum	mg/L	-	< 0.01	< 0.01	0.001	0.0009	0.0004	0.0004	0.001	0.001	0.0006	0.0006	0.0001	0.0002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.01
Nickel	mg/L	-	0.01	0.01	0.0125	0.0128	0.0129	0.0135	0.0124	0.0112	0.0086	0.0087	0.0023	0.0022	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.01
Selenium	mg/L	0.01	0.004	0.004	0.004	0.005	< 0.001	< 0.001	< 0.001	0.001	0.004	0.004	< 0.001	< 0.001	< 0.004	< 0.004	< 0.004	0.009	< 0.004	< 0.001
Silver	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.002	< 0.002	< 0.002	< 0.0001	
Strontium	mg/L	-	0.775	0.777	0.835	0.826	0.747	0.745	0.908	0.914	0.862	0.863	0.976	0.982	0.053	0.029	0.033	0.047	0.329	0.148
Thallium	mg/L	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0003	< 0.006	< 0.006	< 0.006	< 0.00005
Tin	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.05
Titanium	mg/L	-	0.005	0.005	< 0.005	< 0.005	0.005	0.006	0.006	< 0.005	< 0.005	0.006	0.007	0.019	0.037	0.015	0.008	0.006	< 0.005	
Uranium	mg/L	0.02	0.0182	0.0174	0.0187	0.0186	0.0117	0.0121	0.0136	0.0134	0.00882	0.00874	0.00262	0.0026	< 0.002	< 0.002	< 0.002	< 0.002	< 0.00005	
Vanadium	mg/L	-	0.0047	0.0047	0.0048	0.0052	0.0051	0.0051	0.006	0.0061	0.0045	0.0045	0.0011	0.0011	< 0.002	0.004	0.003	< 0.002	< 0.002	0.0007
Zinc	mg/L	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005	0.01	0.009	0.007	0.008	0.035	< 0.005
Total Dissolved Solids	mg/L	500	2098	2097	2420	2390	2070	2190	2650	2640	2110	2020	2890	2940	310	200	146	166	526	238
Total Hardness	mg/L	500	866	877	955	948	800	806	1000	1000	887	897	1120	1130	52	23.1	25	30	259	122
% Difference	-	-	34.2	34	1.06	2.72	4.11	0.375	6.6	7.65	1.36	3.09	1.13	0.645	1.28	9.33	1.93	9.72	4.31	4.26
pH (Field)	-	-	6.55	6.5																

Ground Water Quality Data

Parameter	Units	ODWQS	MW6 24-Oct-19	MW6 27-Apr-20	MW6 22-Oct-20	MW6 4-May-21	MW6 21-Oct-21	MW6 3-May-22	MW6 20-Oct-22	MW6 2-May-23	MW6 26-Oct-23	MW6 23-Apr-24	MW6 29-Oct-24	MW7 21-Dec-16	MW7 2-May-17	MW7 2-Nov-17	MW7 1-May-18	MW7 25-Oct-18	MW7 30-Apr-19	MW7 24-Oct-19
Saturation pH		-	7.89	8	8.41	8.14	8.29	8.39	8.28	8.82	7.87	8.86	8	9.65	10	10.1	9.76	10.3	10.8	
pH		6.5 - 8.5	6.81	6.67	6.14	6.68	6.36	6.3	5.96	5.78	6.89	6.05	6.51	5.18	6.51	4.83	5.13	5.16	5.39	5.07
Alkalinity	mg/L	500	65	75	33	67	45	51	22	13	87	24	50	6	7	<5	<5	<5	<5	<5
Bicarbonate	mg/L	-	65	75	33	67	45	51	22	13	87	24	50	6	7	<5	<5	<5	<5	<5
Carbonate	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	666	486	404	341	404	299	812	432	434	255	620	153	76	86	80	138	107	90
Fluoride	mg/L	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Chloride	mg/L	250	56.2	45.2	37.1	39.8	53.6	34.3	61.7	32.6	65.8	29.8	48.4	28.6	9.51	16.4	15.9	17.1	16	18.9
Nitrate as N	mg/L	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	0.06	<0.05	0.13	0.17	<0.05	0.06	<0.05	<0.1	<0.1
Nitrite as N	mg/L	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1
Bromide	mg/L	-	<0.4	<0.4	<0.4	<0.4	<10	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.4	<0.4
Sulphate	mg/L	500	159	89	84	36	71	22	266	118	34	41	170	8.48	2.59	0.66	0.51	19.5	12	1
Calcium	mg/L	-	55.9	36.9	31.9	28.8	31	19.6	87.6	30.5	41.6	13.7	56.4	6.25	3.44	3.11	2.64	5.28	4.24	3.01
Magnesium	mg/L	-	11.3	6.87	7.32	5.49	6.66	4.43	15.3	7.98	6.9	4.3	9.89	1.59	0.91	0.99	0.92	1.82	1.53	1.13
Sodium	mg/L	200	45.6	29	29.1	24.3	27.7	20.1	51.5	21.9	37.9	14.8	33.7	13.6	3.89	4.31	4.02	6.96	5.3	5
Potassium	mg/L	-	21.8	13.7	12.9	11.6	13.5	9.3	25.2	10.1	17.1	7	19.9	5.95	2.17	2.39	2.23	3.3	2.2	2.3
Ammonia as N	mg/L	-	3.43	1.88	3.17	3.05	3.27	2.78	2.56	2.74	2.42	1.9	0.69	1.64	1.26	2.99	2.04	2.14	2.12	2.38
Phosphate as P	mg/L	-	2.27	1.14	0.134	0.48	0.23	0.361	0.121	0.062	0.214	0.03	0.23	<0.10	<0.10	0.14	0.18	0.17	0.217	0.249
Total Phosphorus	mg/L	-	3.92	1.88	0.59	1.88	1.25	0.91	0.81	0.46	1.52	0.45	10.73	0.52	0.4	0.6	0.31	0.09	0.35	0.63
Reactive Silica	mg/L	-	14.4	9.87	30.9	19.3	30.8	29.5	15.3	29	16.3	29.4	22.9	9.2	11.9	19.2	21.7	20.2	14.2	18.2
DOC	mg/L	5	30.4	23.6	27.8	23.5	42.6	40.3	35.5	26.9	51	22.2	29.2	3540*	369*	1310*	29.6	25.8	20.1	30.7
Colour	TCU	5	277	148	262	234	202	224	124	119	257	156	166	107	204	126	137	31	103	141
Turbidity	NTU	5	2480	1170	125	276	284	323	157	141	376	171	2690	3450	703	8610	3350	296	215	690
Aluminum	mg/L	0.1	0.25	0.17	0.38	0.33	0.41	0.26	0.24	0.3	0.28	0.31	0.26	0.312	0.399	0.315	0.339	0.281	0.28	0.34
Arsenic	mg/L	0.025	0.0006	0.0005	0.0004	0.0006	0.0004	0.0004	0.0005	0.0002	0.0006	0.0002	0.0005	<0.003	<0.003	<0.003	<0.003	<0.003	0.001	0.0002
Barium	mg/L	1	0.099	0.044	0.077	0.08	0.08	0.05	0.136	0.102	0.114	0.052	0.104	0.023	0.021	0.019	0.02	0.038	0.022	0.02
Boron	mg/L	5	1.21	0.659	0.932	0.527	0.807	0.454	1.89	0.819	1.12	0.495	1.45	0.114	0.053	0.029	0.025	0.163	0.081	0.067
Cadmium	mg/L	0.005	<0.000015	<0.000015	<0.000015	<0.000029	<0.000015	<0.000015	<0.000010	<0.000010	<0.000015	<0.000015	<0.000015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000015	<0.000015
Chromium	mg/L	0.05	<0.001	<0.001	0.002	0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.002	<0.003	<0.003	<0.003	<0.003	<0.003	0.001	<0.001
Copper	mg/L	1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0005	0.0004	0.0009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002
Iron	mg/L	0.3	3.95	2.45	5.18	6.71	5.4	2.28	9.02	7.1	4.8	3.29	5.66	0.035	0.817	0.563	1.01	1.11	1.25	0.756
Lead	mg/L	0.01	0.00004	0.00005	0.00005	<0.00009	0.00003	0.00005	0.00012	0.00004	0.00004	0.00011	0.00005	<0.002	<0.002	<0.002	<0.001	<0.001	0.0002	0.00023
Manganese	mg/L	0.05	1.66	0.976	1.01	2.19	1.18	0.63	1.67	0.62	0.84	0.277	1.68	0.065	0.06	0.056	0.05	0.108	0.074	0.051
Molybdenum	mg/L	-	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0001	<0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01
Nickel	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	0.0015	0.0023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.01	<0.01
Selenium	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001
Silver	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001
Strontium	mg/L	-	0.236	0.136	0.134	0.122	0.136	0.082	0.353	0.137	0.172	0.071	0.234	0.025	0.018	0.017	0.015	0.036	0.023	0.02
Thallium	mg/L	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.006	<0.006	<0.006	<0.006	<0.006	<0.00005	<0.00005
Tin	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05
Titanium	mg/L	-	<0.005	<0.005	0.007	0.005	0.008	0.007	<0.005	<0.005	0.005	0.006	<0.005	0.003	0.002	0.002	<0.002	<0.002	<0.005	<0.005
Uranium	mg/L	0.02	0.00005	<0.00005	0.00006	0.00018	0.00008	0.00009	<0.00005	0.00007	0.00006	0.00007	0.00007	<0.00005	<0.002	<0.002	<0.002	<0.002	<0.00005	<0.00005
Vanadium	mg/L	-	0.0006	0.0008	0.0022	0.0014	0.0028	0.002	0.0008	0.0018	0.001	0.0028	0.0007	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003	0.0003
Zinc	mg/L	5	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	0.021	0.011	0.015	0.015	<0.005	0.006
Total Dissolved Solids	mg/L	500	399	271	232	199	241	147	534	236	265	132	376	140		136	102	136	47	36
Total Hardness	mg/L	500	186	120	110	95	105	67	309	109	132	51.8	182	22.2	12.3	11.8	10.4	20.7	17	12
% Difference	-	-	4.54	4.62	11.4	10	4.16	6.63	9.16	3.63	8.92	0.404	1.04	7.9	8.39	18.9	11.6	3.52	5.33	10.7
pH (Field)	-	-	7.27	7.07	6.24	6.01	6.9	6.13	5.65	5.85	6.19	6.25	7.35	6.2	5.57	7.43	5.47	6.97	8.3	8.01
Temperature (Field)	°C	-	8.4	7.6	9	7	7.1	6.3	9.6	5.7	11.9	7.1	10.3	7.8	6.6	8.8	6.2	5.9	6.9	9.1
Conductivity (Field)	µS/cm	-	711	491	410	350	590	290	626	415	470	250	631	145	97	110	98	140	190	100

Bold and highlighted indicates ODWQS exceedance
 Bold and Italics indicates RUP exceedance

Ground Water Quality Data

Parameter	Units	ODWQS	MW7 27-Apr-20	MW7 22-Oct-20	MW7 4-May-21	MW7 3-May-22	MW7 20-Oct-22	MW7 2-May-23	MW7 26-Oct-23	MW7 23-Apr-24	MW7 29-Oct-24	MW7 30-Apr-25	MW7 28-Oct-25
Saturation pH		-	-	-	-	9.68	-	-	10.4	10.2	10.5	10.6	10.3
pH		6.5 - 8.5	4.87	4.73	5.11	5.79	5.18	5.2	5.41	5.25	5.22	4.77	5.38
Alkalinity	mg/L	500	< 5	< 5	< 5	7	< 5	< 5	<5	<5	<5	<5	<5
Bicarbonate	mg/L	-	< 5	< 5	< 5	7	< 5	< 5	<5	<5	<5	<5	<5
Carbonate	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	96	92	101	132	127	103	91	96	82	155	109
Fluoride	mg/L	1.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	0.7
Chloride	mg/L	250	18.7	17.6	21	17.3	16	17.8	18.7	17	15.2	23.6	23.4
Nitrate as N	mg/L	10	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	<0.05	0.1	0.08	<0.05	<0.05
Nitrite as N	mg/L	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	500	2	1	2	17	18	3	8	<1	<1	20	4
Calcium	mg/L	-	3.54	3.31	3.7	6.87	7.06	4.84	3.8	4.3	3.29	5.43	3.49
Magnesium	mg/L	-	1.34	1.27	1.33	1.44	1.85	1.31	1.16	1.28	1.15	2.17	1.24
Sodium	mg/L	200	5.4	5.2	6.2	13.2	8.5	5.5	6.2	5.3	4.5	8.9	6.1
Potassium	mg/L	-	2.2	2.4	2.4	6.9	4.3	2.6	3.1	2.5	2.6	3.5	2.9
Ammonia as N	mg/L	-	2.37	2.36	2.4	0.03	2.97	2.46	3.02	2.46	3.03	0.08	3.16
Phosphate as P	mg/L	-	0.236	0.101	0.172	0.053	0.354	0.253	0.38	0.158	0.154	0.151	0.173
Total Phosphorus	mg/L	-	0.35	0.28	0.46	7.36	0.83	0.64	1	0.53	0.46	0.54	1.57
Reactive Silica	mg/L	-	20	21.6	17.9	8.2	20.8	23.4	21.8	21.2	23.2	20.9	21.3
DOC	mg/L	5	26.8	28	24.8	22.5	29.3	43.9	41.2	20.8	26.3	15	28.3
Colour	TCU	5	111	246	139	136	117	201	113	146	101	66	357
Turbidity	NTU	5	122	52.8	113	22200	1390	312	3010	1760	1010	1.8	1370
Aluminium	mg/L	0.1	0.33	0.35	0.34	0.24	0.4	0.48	0.42	0.38	0.38	0.39	0.34
Arsenic	mg/L	0.025	0.0002	0.0002	< 0.0003	0.0004	0.0003	0.0002	0.0002	0.0007	0.0003	0.0002	0.0002
Barium	mg/L	1	0.024	0.028	0.025	0.024	0.035	0.025	0.023	0.019	0.022	0.034	0.023
Boron	mg/L	5	0.053	0.056	0.075	0.308	0.175	0.076	0.091	0.073	0.044	0.142	0.07
Cadmium	mg/L	0.005	< 0.000015	< 0.000015	0.000144	< 0.000015	< 0.000010	0.000016	< 0.000015	0.000015	0.000016	< 0.000015	< 0.000015
Chromium	mg/L	0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Copper	mg/L	1	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0009	0.001	0.0016	0.0004	0.0007
Iron	mg/L	0.3	1.13	0.716	1.24	0.365	1.32	1.5	0.972	0.231	0.997	1.65	0.963
Lead	mg/L	0.01	0.00022	0.00019	0.00034	0.00022	0.00019	0.00025	0.00018	0.00031	0.00016	0.00027	0.00013
Manganese	mg/L	0.05	0.061	0.058	0.062	0.096	0.105	0.077	0.065	0.068	0.061	0.091	0.061
Molybdenum	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0024	0.0018	0.0018	0.0022	0.002
Selenium	mg/L	0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	-	0.021	0.022	0.024	0.03	0.032	0.025	0.021	0.024	0.022	0.034	0.021
Thallium	mg/L	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.02	< 0.00005	< 0.00005	0.00007	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Vanadium	mg/L	-	0.0003	0.0004	< 0.0004	0.0003	0.0004	0.0005	0.0005	0.0017	0.0004	0.0003	0.0003
Zinc	mg/L	5	0.005	< 0.005	0.007	0.006	0.007	< 0.005	0.007	0.012	0.005	0.006	0.006
Total Dissolved Solids	mg/L	500	37	35	41	67	62	36	48	37	34	65	49
Total Hardness	mg/L	500	14	13	15	23	25	17	14.3	16	13	22.5	13.8
% Difference	-	-	0.568	19	14.9	12.4	20.2	0.555	6.78	16.3	21.9	2.86	2.97
pH (Field)	-	-	7.46	6.05	5.47	6.29	4.83	6.15	6.58	5.96	7.01	5.75	6.05
Temperature (Field)	°C	-	9.3	9	6.5	7.8	8.9	6.4	10.2	7.2	10	5.6	9.9
Conductivity (Field)	µS/cm	-	220	120	120	155	103	118	490	143	86	160	100

Bold and highlighted indicates ODWQS exceedance

Bold and Italics indicates RUP exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW1	SW1	SW1	SW1	SW1	SW1								
			28-Apr-15	19-Apr-16	25-Oct-16	02-May-17	02-Nov-17	01-May-18	25-Oct-18	30-Apr-19	24-Oct-19	27-Apr-20	22-Oct-20	04-May-21	21-Oct-21	03-May-22
Saturation pH		-	10.4	10.2	10	10.3	10.3	10.4	9.89	-	10.9	-	-	-	-	-
pH		6.5-8.5	4.81	5.5	4.9	5.74	5.02	5.2	5.03	4.61	5.29	5.75	5.68	5.9	5.74	5.8
Alkalinity	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bicarbonate	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbonate	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	27	31	73	20	20	15	55	33	28	29	22	24	22	29
Fluoride	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	-	127	3.56	3.52	1.84	2.08	1.12	1.16	2.9	2.9	4.6	1.8	5.1	3.1	4.7
Nitrate as N	mg/L	-	0.41	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.07	<0.05	0.07	0.09
Nitrite as N	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	-	1.42	3.85	10.8	1.71	0.72	1.9	15.7	6	3	2	<1	1	<1	<1
Calcium	mg/L	-	1.17	1.84	3.17	1.39	1.48	1.06	4.2	8.99	3	2.97	2.21	2.13	2.34	2.48
Magnesium	mg/L	-	0.25	0.28	0.63	0.3	0.32	0.26	1.13	2.25	0.62	0.45	0.39	0.31	0.49	0.38
Sodium	mg/L	-	1.06	2.03	1.36	1.08	1	0.71	0.99	3.1	1.4	2.1	1.5	1.6	1.4	1.9
Potassium	mg/L	-	0.33	0.31	1.12	0.28	0.45	0.4	0.47	0.4	0.5	0.2	0.3	0.3	0.6	0.4
Ammonia as N	mg/L	-	<0.02	<0.02	<0.02	<0.02	0.17	<0.02	<0.02	0.09	0.04	<0.01	0.01	0.02	0.02	<0.01
Phosphate as P	mg/L	-	<0.10	0.11	<0.10	0.12	<0.10	<0.10	<0.10	0.028	0.012	0.004	0.009	<0.002	0.004	0.003
Total Phosphorus	mg/L	0.03	0.04	0.02	0.16	0.02	0.01	<0.02	0.05	0.03	0.02	0.01	0.02	0.02	0.01	0.02
Reactive Silica	mg/L	-	2.02	3.29	4.52	3.72	6.6	4.64	7.7	3.53	5.41	0.53	6.83	1.56	6.91	1.01
Total Organic Carbon	mg/L	-	7.8	6.3	28.4	8.5	12.8	6.4	7.8	6.8	15.1	7.7	14.4	9.8	21.6	16.7
Colour	TCU	-	47	41	146	71	95	45	14	39	244	105	135	61	130	90
Turbidity	NTU	-	2.2	2.1	47.6	1.7	1.4	1.3	2.5	0.8	0.8	0.9	0.6	0.6	0.8	2.9
Aluminum	mg/L	0.075	0.148	0.161	0.346	0.215	0.28	0.171	0.367	0.46	0.37	0.2	0.35	0.2	0.36	0.26
Arsenic	mg/L	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0002	0.0002	0.0001	0.0002	0.0002	0.0003	0.0003
Barium	mg/L	-	0.009	0.011	0.019	0.012	0.012	0.009	0.035	0.036	0.022	0.016	0.013	0.011	0.014	0.013
Boron	mg/L	0.2	<0.010	<0.010	0.011	<0.010	<0.010	<0.010	0.025	0.037	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.00006	0.000072	0.000041	<0.000015	0.000027	0.000027	0.000032
Chromium	mg/L	0.0089	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.001	0.001	0.001	0.003	0.001	<0.001
Copper	mg/L	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0016	0.0012	0.0008	0.0008	0.0007	0.0005	0.0011
Iron	mg/L	0.3	0.327	0.242	2.48	0.191	0.516	0.234	0.918	0.754	0.584	0.254	0.624	0.326	1.17	0.512
Lead	mg/L	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00022	0.00033	0.00014	0.00018	0.00017	0.00019	0.00023
Manganese	mg/L	-	0.031	0.025	0.091	0.027	0.045	0.035	0.212	0.042	0.081	0.037	0.042	0.032	0.083	0.049
Molybdenum	mg/L	0.04	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	0.025	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	mg/L	0.1	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001
Strontium	mg/L	-	0.007	0.016	0.02	0.01	0.012	0.008	0.03	0.066	0.018	0.019	0.015	0.016	0.016	0.022
Thallium	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	<0.00005
Tin	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	0.007	0.006	0.01	0.004	0.003	<0.002	0.014	0.037	<0.005	<0.005	0.006	<0.005	<0.005	<0.005
Uranium	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	<0.00005
Vanadium	mg/L	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0014	0.0009	0.0005	0.0007	0.0004	0.0005	0.0008
Zinc	mg/L	0.02	0.008	0.007	0.012	0.01	0.011	0.007	0.048	0.016	0.02	0.012	0.008	0.013	0.018	0.007
Total Dissolved Solids	mg/L	-	<20	32	62	50	20	32	64	24	13	12	7	11	9	10
Total Hardness	mg/L	-	4	5.7	10.5	<10	5	3.7	15.1	32	10	9	7	7	8	8
% Difference	mg/L	-	8.8	7.8	4.2	4.7	38.9	23.7	0.248	61	29.6	26.4	63.3	14.9	52.9	32.8
Un-ionized Ammonia	mg/L	0.02	<0.0005	<0.0005	<0.0005	<0.0005	0.000389	<0.0005	<0.0005	0.000457	0.000224	<0.0005	5.84E-05	5.94E-05	0.000207	<0.0005
pH (Field)	µS/cm	-	7.41	7.76	8.07	6.26	7.17	7.98	7.05	7.47	7.54	6.7	7.6	7.26	7.9	5.75
Temperature (Field)	°C	-	12	13.2	6.7	9.1	7.7	0.9	4.2	9.1	8.3	9.6	7.1	8.4	5.7	9.7
Dissolved Oxygen	-	-	4.65	5.57	3.65	7.81	4.15	10.45		6.96	5.75	6.89	5.65	5.65	6.13	1.75
Conductivity (Field)	-	-	20	28	61	17	20	36	64.9	50	40	35	30	30	50	32

Bold and highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW1	SW1	SW1	SW1	SW1	SW3								
			20-Oct-22	02-May-23	26-Oct-23	23-Apr-24	30-Apr-25	28-Apr-15	21-Dec-16	02-May-17	02-Nov-17	01-May-18	25-Oct-18	30-Apr-19	24-Oct-19	27-Apr-20
Saturation pH		-	-	-	10.4	10.2	11	8.25	9.3	8.68	8.25	8.69	8.57	8.34	8.52	8.85
pH		6.5-8.5	5.99	6.1	5.9	5.81	5.7	7.27	5.13	7.35	6.79	6.73	6.93	7.12	7.02	6.72
Alkalinity	mg/L	-	< 5	< 5	<5	<5	<5	59	<5	31	58	37	12	43	35	21
Bicarbonate	mg/L	-	< 5	< 5	<5	<5	<5	59	<5	31	58	37	12	43	35	21
Carbonate	mg/L	-	< 5	< 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	< 5	< 5	< 5
Hydroxide	mg/L	-	< 5	< 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	< 5	< 5	< 5
Electrical Conductivity	µS/cm	-	60	17	28	66	24	190	255	144	183	111	520	177	236	167
Fluoride	mg/L	-	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.1	< 0.1	< 0.1
Chloride	mg/L	-	1.9	1.9	2.6	13.8	3.3	14.7	35.6	12.8	16	7.52	28.6	13.4	19.6	15.6
Nitrate as N	mg/L	-	< 0.05	0.08	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	< 0.05	0.06	0.11
Nitrite as N	mg/L	-	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05
Bromide	mg/L	-	< 0.4	< 0.4	<0.4	<0.4	<0.4	<0.05	0.09	<0.05	0.12	<0.05	<0.05	< 0.4	< 0.4	< 0.4
Sulphate	mg/L	-	17	2	3	2	2	7.83	45.5	11.7	6.64	6.2	168	22	35	25
Calcium	mg/L	-	6.37	1.64	2.59	6.05	2.04	17.6	17.5	12.5	17.5	10.1	50.7	24.8	20.7	15.8
Magnesium	mg/L	-	1.54	0.33	0.67	0.73	0.47	3.08	3.74	2.05	3.13	1.71	8.41	4.23	3.47	2.53
Sodium	mg/L	-	2	1.2	1.4	4.8	1.4	10.9	20.1	8.95	11.7	5.87	22.9	11.6	15.5	12.9
Potassium	mg/L	-	1.5	0.2	1.1	0.6	0.2	6.6	8.6	5.14	6.67	3.86	10.8	5.6	8.5	6.1
Ammonia as N	mg/L	-	0.02	< 0.01	<0.05	<0.05	0.12	0.34	0.03	<0.02	<0.02	0.2	<0.02	0.21	0.06	< 0.01
Phosphate as P	mg/L	-	0.014	< 0.002	0.01	0.004	0.004	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.023	0.027	0.009
Total Phosphorus	mg/L	0.03	0.03	0.01	0.14	0.01	0.04	0.1	0.36	0.04	0.05	0.05	0.06	0.03	0.04	0.03
Reactive Silica	mg/L	-	7.45	3.86				3.71	9.22	2.39	6.16	3.64	9.17	3.42	5.59	3.36
Total Organic Carbon	mg/L	-	14.3	14.6	22	7.3	10.9	17.8	46.6	20.3	26.5	12.2	23.5	15.4	37.3	19
Colour	TCU	-	81	61	166	59	51	160	218	220	258	116	125	115	369	124
Turbidity	NTU	-	1.4	0.6	5.8	2	1	4	20.2	1.4	2	1.3	1.9	0.6	1.1	3.2
Aluminum	mg/L	0.075	0.36	0.24	0.45	0.26	0.32	0.077	0.187	0.138	0.166	0.102	0.198	0.16	0.24	0.19
Arsenic	mg/L	0.005	0.0002	0.0001	0.0003	0.0002	0.0002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0003	0.0005	0.0003
Barium	mg/L	-	0.041	0.011	0.022	0.024	0.015	0.033	0.03	0.018	0.025	0.018	0.067	0.042	0.023	0.023
Boron	mg/L	0.2	0.008	< 0.005	0.006	<0.005	<0.005	0.136	0.122	0.129	0.158	0.131	0.633	0.2	0.313	0.212
Cadmium	mg/L	0.0002	0.000149	0.00004	0.000058	0.000028	0.000061	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00002	0.000055	0.000021
Chromium	mg/L	0.0089	0.002	0.003	<0.001	<0.001	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.001	< 0.001	0.001
Copper	mg/L	0.005	0.0014	0.0009	0.0009	0.001	0.0011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0009	0.0011	0.0007
Iron	mg/L	0.3	0.62	0.252	1.54	0.464	0.532	1.29	0.669	0.365	0.602	0.403	0.599	0.324	0.466	0.432
Lead	mg/L	0.001	0.00021	0.00016	0.00041	0.00014	0.0002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00024	0.00066	0.00044
Manganese	mg/L	-	0.225	0.034	0.095	0.055	0.051	0.493	0.068	0.052	0.057	0.22	0.199	0.067	0.002	0.051
Molybdenum	mg/L	0.04	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	< 0.0001	0.0001	< 0.0001
Nickel	mg/L	0.025	< 0.01	< 0.01	0.002	0.0015	0.0014	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	< 0.01	< 0.01	< 0.01
Selenium	mg/L	0.1	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	< 0.001	< 0.001	< 0.001
Silver	mg/L	0.0001	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	-	0.04	0.01	0.018	0.056	0.013	0.071	0.065	0.047	0.072	0.047	0.198	0.121	0.079	0.056
Thallium	mg/L	0.0003	< 0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	< 0.00005	< 0.00005	< 0.00005
Tin	mg/L	-	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	< 0.05	< 0.05	< 0.05
Titanium	mg/L	-	< 0.005	< 0.005	0.005	<0.005	0.013	<0.002	0.003	0.002	0.003	<0.002	0.003	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.005	< 0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	< 0.00005	< 0.00005	< 0.00005
Vanadium	mg/L	0.006	0.0007	0.0005	0.0009	0.0006	0.0009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003	0.0004	0.0003
Zinc	mg/L	0.02	0.038	0.025	0.016	0.015	0.013	0.005	0.007	0.007	0.008	0.005	0.036	0.012	0.007	0.008
Total Dissolved Solids	mg/L	-	31	7	15	30	10	120	98	96	122	84	374	108	124	91
Total Hardness	mg/L	-	22	5	9.2	18.1	7.02	56.6	59.1	<10	56.6	32.3	161	79	78	50
% Difference	mg/L	-	20.9	32.8	29.8	13.4	24.9	1.2	7.48	39.7	1.72	3.24	0.519	14.4	6.17	11.2
Un-ionized Ammonia	mg/L	0.02	2.01E-05	<0.0005	<0.0005	<0.0005	5.87E-05	0.000154	1.36E-05	<0.0005	<0.0005	0.001141	<0.00005	0.004862	0.000714	<0.00005
pH (Field)	µS/cm	-	6.89	6.38	5.26	7.43	6.51	6.45	6.65	6.94	7.31	7.81	7.27	8.23	7.87	7.92
Temperature (Field)	°C	-	5.5	7.4	10.9	8	7.4	8.2	2.5	8	5.6	0.9	4.3	6.4	8.3	6.1
Dissolved Oxygen	-	-	3.31	6.26	1.92	9.1	6.86	3.69		8.65	3.24	9.56		2.76	2.23	5.27
Conductivity (Field)	-	-	46	18	33	43	27	190		275	181	260	158	551	180	302

Bold and highlighted indicates PWQO exceedance

Surface Water Quality Data

Parameter	Units	PWQO	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW3	SW7	SW7	SW7	SW7
			22-Oct-20	04-May-21	21-Oct-21	03-May-22	20-Oct-22	02-May-23	26-Oct-23	23-Apr-24	30-Apr-25	28-Oct-25	19-Apr-16	25-Oct-16	02-May-17	02-Nov-17
Saturation pH		-	8.34	8.67	8.17	8.48	8.29	8.65	8.4	8.6	8.55	8.79	8.13	7.51	8.25	7.92
pH		6.5-8.5	7.16	7.31	7.09	7.1	6.59	7.01	7.03	6.78	7.02	6.36	7.15	7.71	7.58	7.1
Alkalinity	mg/L	-	51	44	70	45	33	35	49	32	37	12	60	140	54	94
Bicarbonate	mg/L	-	51	44	70	45	33	35	49	32	37	12	60	140	54	94
Carbonate	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hydroxide	mg/L	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Electrical Conductivity	µS/cm	-	187	223	228	186	379	141	239	176	178	435	271	514	324	324
Fluoride	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L	-	17.5	24.4	18.7	16.1	28.2	9.9	38.8	15.5	18.5	52.1	21.7	71.1	27.3	30.5
Nitrate as N	mg/L	-	0.06	< 0.05	0.06	0.1	< 0.05	0.15	< 0.05	< 0.05	< 0.05	0.06	0.19	< 0.05	0.51	0.13
Nitrite as N	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromide	mg/L	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	0.08	< 0.05	< 0.05	0.16
Sulphate	mg/L	-	6	22	16	19	97	14	7	23	17	112	27.1	4.32	41.8	22.7
Calcium	mg/L	-	20.8	17.3	23	17.1	41.8	14.4	19.5	17.9	17.7	37.1	23.6	49.5	22	27
Magnesium	mg/L	-	3.33	2.98	3.67	2.64	6.81	1.88	3.13	2.63	2.68	6.52	3.51	8.68	3.69	4.75
Sodium	mg/L	-	14.3	15.7	13.3	12.4	25.1	7.8	20.6	10.6	11.7	21	15.8	33.9	26	25.7
Potassium	mg/L	-	7.8	8	7.6	7	11.3	4.4	9.2	5.5	6.1	8.2	8.69	17.1	15.1	14.2
Ammonia as N	mg/L	-	< 0.01	0.04	0.05	0.06	0.01	0.01	0.13	< 0.05	0.3	0.08	0.18	0.4	0.04	< 0.02
Phosphate as P	mg/L	-	0.023	0.009	0.032	0.022	0.011	0.004	0.029	0.005	0.009	0.008	< 0.10	< 0.10	< 0.10	0.11
Total Phosphorus	mg/L	0.03	0.05	0.04	0.07	0.04	0.03	0.02	0.1	0.02	0.04	0.07	0.04	0.68	0.09	0.17
Reactive Silica	mg/L	-	6.93	1.67	7.4	2	8.5	2.96				8.77	3.04	11.2	2.43	5.87
Total Organic Carbon	mg/L	-	34.1	18.8	38.8	27.5	47	18	64	14.8	65.7	32.7	13.4	59.7	28.4	37.1
Colour	TCU	-	286	152	355	211	226	134	348	152	166	136	89		301	369
Turbidity	NTU	-	0.9	0.6	2.3	2.6	1.3	1.5	32.6	0.5	1.1	1.3	2.9	39.4	1.7	3.4
Aluminum	mg/L	0.075	0.28	0.14	0.28	0.17	0.32	0.18	0.38	0.16	0.22	0.29	0.069	0.077	0.109	0.163
Arsenic	mg/L	0.005	0.0003	0.0003	0.0006	0.0004	0.0006	0.0003	0.0008	0.0003	0.0005	0.0006	< 0.003	< 0.003	< 0.003	< 0.003
Barium	mg/L	-	0.026	0.025	0.031	0.023	0.052	0.018	0.038	0.021	0.022	0.052	0.026	0.134	0.026	0.031
Boron	mg/L	0.2	0.194	0.254	0.203	0.217	0.671	0.196	0.345	0.252	0.26	0.72	0.251	0.22	0.342	0.286
Cadmium	mg/L	0.0002	0.000019	< 0.000015	< 0.000015	0.000018	0.000095	0.000026	0.000045	0.000015	0.000033	0.000167	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium	mg/L	0.0089	0.001	0.003	0.001	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003
Copper	mg/L	0.005	0.0006	0.0005	0.0007	0.0005	0.0013	0.0012	0.0008	0.0007	0.0011	0.002	< 0.003	< 0.003	< 0.003	< 0.003
Iron	mg/L	0.3	0.911	0.437	1.91	0.598	0.716	0.462	1.53	0.285	0.441	0.324	0.215	15.9	0.405	0.681
Lead	mg/L	0.001	0.00041	0.00053	0.0011	0.0005	0.00068	0.00048	0.00127	0.00029	0.00057	0.00094	< 0.002	< 0.002	< 0.002	< 0.002
Manganese	mg/L	-	0.085	0.031	0.355	0.13	0.17	0.04	0.207	0.026	0.139	0.143	0.033	2.27	0.072	0.1
Molybdenum	mg/L	0.04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.002	< 0.002	< 0.002	< 0.002
Nickel	mg/L	0.025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.004	0.0016	0.0019	0.0033	< 0.003	0.005	< 0.003	< 0.003
Selenium	mg/L	0.1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.004	< 0.004	< 0.004
Silver	mg/L	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	-	0.075	0.07	0.087	0.067	0.154	0.052	0.071	0.067	0.064	0.152	0.088	0.183	0.08	0.095
Thallium	mg/L	0.0003	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.002	< 0.002	< 0.002	< 0.002
Titanium	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002	0.005	0.004	0.004
Uranium	mg/L	0.005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	mg/L	0.006	0.0003	0.0003	0.0005	0.0003	0.0005	0.0003	0.0006	0.0002	0.0004	0.0005	< 0.002	< 0.002	< 0.002	< 0.002
Zinc	mg/L	0.02	0.187	0.005	0.011	0.01	0.024	0.029	0.007	0.008	0.01	0.023	0.014	0.008	0.007	0.006
Total Dissolved Solids	mg/L	-	101	118	126	102	231	74	130	95	96	245	148	346	190	194
Total Hardness	mg/L	-	66	56	73	54	132	44	61.6	55.5	55.3	120	73.4	159	16	87
% Difference	mg/L	-	14.1	0.413	1.82	2.18	8.03	2.45	5.05	5.23	5.67	6.77	4.3	2.3	70.1	0.0337
Un-ionized Ammonia	mg/L	0.02	< 0.00005	8.26E-05	0.000248	0.000174	4.1E-06	3.83E-05	7.02E-05	< 0.00005	0.000984	0.000902	0.003948	0.002223	5.11E-05	< 0.0005
pH (Field)	µS/cm	-	6.61	7.15	7.55	7.32	6.51	7.44	6.43	7.24	7.45	7.93	8.22	7.62	6.9	7.66
Temperature (Field)	°C	-	7.1	7	6.5	6.4	5.2	6.4	11	6.7	4.2	5.9	6	5.9	8.2	6.5
Dissolved Oxygen	-	-	4.08	7.64	4.13	2.65	3.42	4.43	1.61	8.6	5.07	5.7	4.85	4.2	8.25	3.89
Conductivity (Field)	-	-	20	240	380	188	301	140	253	163	191	437	264	423	259	260

Bold and highlighted indicates PWQO exceedance

Surface Water Quality Data

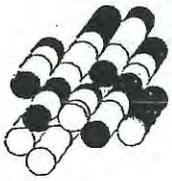
Parameter	Units	PWQO	SW7												
			01-May-18	25-Oct-18	30-Apr-19	24-Oct-19	27-Apr-20	22-Oct-20	04-May-21	21-Oct-21	03-May-22	20-Oct-22	02-May-23	26-Oct-23	23-Apr-24
Saturation pH		-	7.88	8.17	7.51	7.8	7.7	7.71	8.33	7.4	8.1	7.74	8.04	7.73	7.88
pH		6.5-8.5	7.4	7.14	7.68	7.54	7.39	7.66	7.38	7.65	7.29	6.82	7.53	7.58	7.12
Alkalinity	mg/L	-	101	22	123	86	98	135	56	172	78	74	79	123	91
Bicarbonate	mg/L	-	101	22	123	86	98	135	56	172	78	74	79	123	91
Carbonate	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Hydroxide	mg/L	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Electrical Conductivity	µS/cm	-	281	723	530	429	506	430	219	544	268	618	270	448	339
Fluoride	mg/L	-	<0.05	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloride	mg/L	-	20.8	40.2	40	33.1	42.9	35.1	20.9	42.9	21.9	49.4	19.7	63.1	29.9
Nitrate as N	mg/L	-	<0.05	<0.10	<0.05	<0.05	0.27	0.06	1.04	0.2	0.9	<0.05	0.19	<0.05	<0.05
Nitrite as N	mg/L	-	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromide	mg/L	-	<0.05	<0.10	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Sulphate	mg/L	-	17	254	72	54	76	18	13	46	18	154	23	9	34
Calcium	mg/L	-	28.6	78.1	70.5	49.9	56	39	19.7	64.3	24.8	69.4	28.9	41.2	38.2
Magnesium	mg/L	-	3.92	11.2	9.75	6.79	7.66	5.17	3.16	8.45	3.33	9.97	3.24	5.98	4.99
Sodium	mg/L	-	13.8	29.3	30.3	22.7	31.4	14.5	11.7	27.3	13.6	30	11.1	26.3	17
Potassium	mg/L	-	8.22	14.3	15.4	12.6	15.4	7.8	5.4	15.1	6.8	14.2	5.9	12.1	9.6
Ammonia as N	mg/L	-	0.82	0.11	1.07	0.05	0.04	<0.01	0.14	0.47	0.2	0.04	0.16	0.27	<0.05
Phosphate as P	mg/L	-	<0.10	<0.20	0.015	0.022	0.011	0.012	0.004	0.023	0.013	0.006	<0.002	0.01	0.005
Total Phosphorus	mg/L	0.03	0.18	0.05	0.03	0.03	0.05	0.06	0.09	0.1	0.09	0.03	0.02	0.08	0.06
Reactive Silica	mg/L	-	3.87	9.91	5.74	6.23	3.3	6.61	2.44	8.05	3.62	9.15	4.31		
Total Organic Carbon	mg/L	-	12.9	25.4	17.5	17.6	19.2	20	21.4	29.1	25.5	23.3	24.4	43.2	15.9
Colour	TCU	-	69	43	72	110	75	86	101	109	95	19	74	126	69
Turbidity	NTU	-	5.1	3.4	2.1	3.2	2.1	1.6	3.8	2.6	5.7	3.2	4.9	6.4	3
Aluminum	mg/L	0.075	0.026	0.164	0.09	0.04	0.05	0.15	0.09	0.08	0.14	0.15	0.1	0.17	0.14
Arsenic	mg/L	0.005	<0.003	<0.003	0.0004	0.0003	0.0003	0.0003	0.0002	0.0005	0.0004	0.0005	0.0003	0.0007	0.0004
Barium	mg/L	-	0.043	0.088	0.084	0.043	0.057	0.045	0.049	0.068	0.037	0.078	0.028	0.07	0.045
Boron	mg/L	0.2	0.295	0.861	0.585	0.475	0.663	0.243	0.236	0.481	0.262	0.855	0.273	0.392	0.456
Cadmium	mg/L	0.0002	<0.0001	<0.0001	<0.000015	0.000026	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000037	0.00002	0.00002	0.000093
Chromium	mg/L	0.0089	<0.003	<0.003	0.001	<0.001	<0.001	0.001	0.002	0.001	<0.001	0.002	<0.001	<0.001	<0.001
Copper	mg/L	0.005	<0.003	<0.003	0.0007	0.0007	0.0005	0.0004	0.0004	0.0005	0.0006	0.0009	0.0013	0.0007	0.0016
Iron	mg/L	0.3	1.59	0.682	0.56	0.195	0.574	0.921	0.378	1.5	1.51	1.06	0.544	2.38	0.668
Lead	mg/L	0.001	<0.001	<0.001	0.00009	0.00014	0.00014	0.00011	0.0001	0.00011	0.00021	0.00022	0.0002	0.00042	0.00031
Manganese	mg/L	-	0.812	0.525	0.197	<0.001	0.086	0.311	0.062	0.434	0.623	0.341	0.044	0.479	0.114
Molybdenum	mg/L	0.04	<0.002	<0.002	0.0002	0.0002	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	0.0002	<0.0001
Nickel	mg/L	0.025	<0.003	<0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0042	0.0022
Selenium	mg/L	0.1	<0.004	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Silver	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium	mg/L	-	0.12	0.277	0.299	0.192	0.199	0.144	0.082	0.24	0.097	0.258	0.111	0.152	0.148
Thallium	mg/L	0.0003	<0.0003	<0.0003	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Tin	mg/L	-	<0.002	<0.002	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Titanium	mg/L	-	<0.002	0.003	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Uranium	mg/L	0.005	<0.002	<0.002	0.00007	0.00006	<0.00005	<0.00005	<0.00005	0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Vanadium	mg/L	0.006	<0.002	<0.002	0.0001	0.0002	0.0002	0.0002	0.0001	0.0002	0.0003	0.0003	0.0002	0.0005	0.0002
Zinc	mg/L	0.02	<0.005	0.078	0.015	<0.005	0.006	<0.005	0.007	0.009	0.007	0.021	0.015	0.013	0.011
Total Dissolved Solids	mg/L	-	170	514	314	232	289	201	108	310	138	373	140	235	189
Total Hardness	mg/L	-	87.6	241	216	182	171	119	62	195	76	215	86	128	116
% Difference	mg/L	-	6.1	2.92	9.45	7.02	4.52	10.9	2.84	0.0459	4.64	0.406	4.72	2.96	0.5
Un-ionized Ammonia	mg/L	0.02	0.001464	0.000144	0.014776	0.000301	9.91E-05	<0.0001	3.86E-05	0.001199	0.000626	5.38E-06	1E-04	0.000194	<0.0005
pH (Field)	µS/cm	-	7.3	7.04	7.84	7.54	7.15	6.57	6.22	7.27	7.3	5.97	6.62	6.52	6.84
Temperature (Field)	°C	-	1	4.5	11.1	9.2	9.3	8.5	8.6	6.2	7.9	6.8	7.3	12	7.4
Dissolved Oxygen	-	-	9.98		4.42	2.96	5.95	6.9	6.85	2.6	1.55	2.15	4.79	0.4	6.5
Conductivity (Field)	-	-	300	735	470	449	466	100	120	730	234	394	233	448	284

Bold and highlighted indicates PWQO exceedance



APPENDIX C

Borehole Logs



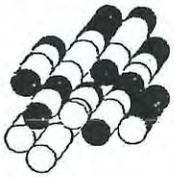
Terraprobe

PROJECT NAME: Whitestone Landfill
 CLIENT: Municipality of Whitestone
 LOCATION: Whitestone, Ontario

LOG OF BOREHOLE ..1..

PROJECT No.: 01646
 BORING DATE: October 24, 2001
 ELEVATION DATUM:

BORING METHOD	DEPTH SCALE IN METRES	SOIL PROFILE			SAMPLES			PENETRATION RESISTANCE PLOT				WATER CONTENT (%)			INSTALLATION INFORMATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	"N" VALUE	SHEAR STRENGTH kPa							
								20	40	60	80				
D50 Crawler-mounted Drill Rig / 108mm Diameter Solid Stem Augers	0	GROUND SURFACE													
	0.0	Brown Compact Moist to Wet SANDY SILT, trace wood, fill		0.0	1	SS 11	x								
	1				2	SS 21	x								
	1.4	Brown Loose Wet SANDY SILT, trace to some gravel		1.4	3	SS 5	x								
	1.75				4	SS 57		175mm							
	3	Grinding auger refusal on probable bedrock		3.0										<ol style="list-style-type: none"> Borehole remained open upon completion of drilling. Water level noted at 0.8m during drilling. Schedule 40, 50mm diameter monitoring well with slotted screen installed as shown above. 	



Terraprobe

PROJECT NAME: Whitestone Landfill
 CLIENT: Municipality of Whitestone
 LOCATION: Whitestone, Ontario

LOG OF BOREHOLE ..3..

PROJECT No.: 01646
 BORING DATE: October 24, 2001
 ELEVATION DATUM:

BORING METHOD	DEPTH SCALE IN METRES	SOIL PROFILE			SAMPLES			PENETRATION RESISTANCE PLOT				WATER CONTENT (%)			INSTALLATION INFORMATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	"N" VALUE	SHEAR STRENGTH kPa							
								20	40	60	80				
D50 Crawler-mounted Drill Rig / 108mm Diameter Solid Stem Augers	0	GROUND SURFACE												<p>1. Borehole remained open upon completion of drilling. 2. Water level noted at surface during drilling. 3. Schedule 40, 50mm diameter monitoring well with slotted screen installed as shown above</p>	
		200mm - Peaty Topsoil Brown to Grey	Wet	0.0	1	SS	5	x							
		Loose to Compact													
	1	SANDY SILT, to SILTY SAND			2	SS	21		x						
	2	Grinding auger refusal on probable bedrock		1.6	3	SS	50	50mm							
	3														
	4														
	5														
	6														
	7														
	8														
	9														



TEST PIT / BOREHOLE LOGS

TEST PIT LOGS

Date: December 2, 2016

Weather: Sunny, 0°C.

Location: Aulds Road Landfill, Municipality of Whitestone

Attendance: Colin Ross - Azimuth Environmental Consulting, Inc.
Public Works Staff – Municipality of Whitestone

Method of Examination: Mini-Excavator / Hand Augered.

LEGEND:

SOIL TEXTURE

Boulders		>200 mm
Cobbles		60 – 200 mm
Gravel	Coarse	20 – 60 mm
	Medium	6 – 20 mm
	Fine	2 – 6 mm
Sand	Coarse	0.6 – 2 mm
	Medium	0.2 – 0.6 mm
	Fine	0.06 – 0.02 mm
Silt		0.02 – 0.006 mm
Clay		<0.002 mm

Fine sand: smallest particle visible to the naked eye
Silt: particles not visible to the eye / slightly plastic
Clay sticks to skin / plastic

SOIL COMPOSITION

“trace”	<10%
“some”	10 – 20%
adjective (e.g. sandy)	20 – 35%
“and”	35 – 50%
noun (e.g. sand)	>50%



MOISTURE CONDITION – COHESIONLESS SOILS

“dry”	absence of moisture, dusty
“moist”	damp but no visible water
“wet”	damp and contains noticeable water
“saturated”	soil is completely wetted to excess and may be dripping

COMPACTNESS CONDITION – COARSE SOILS

	‘N’ Value	
“very loose”	<4	can be excavated by hand
“loose”	4 - 10	can be excavated with a spade
“compact”	10 - 30	requires a sharp spade
“dense”	30 - 50	requires a pick for excavation
“very dense”	>50	difficult to excavate with pick

CONSISTANCY CONDITION – COHESIVE SOILS

	‘N’ value	
“very soft”	< 2	Exudes between fingers when squeezed
“soft”	2-4	Moulded by light finger pressure
“firm”	4-8	Moulded by strong finger pressure
“stiff”	8-15	Can be indented by thumb
“hard”	>30	



Test Hole # 1 (MW-4)

Northing: 576559 m (NAD 83 Zone 17)

Easting: 5058255 m

Test Hole Purpose: To install a monitoring well and investigate soils downgradient of the waste area.

Test Pit Description

- 0.0 - 0.3 m Top Soil / Peat
Black to dark brown organic (peat) soils, trace silt, rootlets, saturated at surface.
- 0.3 – 1.5 m Silty Clay
Brown (mottled) silty clay, soft, saturated. Becomes grey at 1.3 m.
- 1.5 – 2.0 m Silty Sand
Grey, silty fine sand, poorly sorted, loose, saturated.

Excavation halted at 2.0 m due to assumed bedrock surface.

Monitoring Well Details:

Total Depth: 3.0 mbtoc
Stickup: 0.94 mbtoc
Water Level: 0.94 mbtoc

Test Pit #2 (MW-5)

Northing: 576574 m (NAD 83 Zone 17)

Easting: 5058245 m

Test Pit Purpose: To install a monitoring well and investigate soils downgradient of the waste area.

Test Pit Description

- 0.0 - 0.3 m Top Soil / Peat
Black top soil / peat (fibrous), trace silt, rootlets, saturated at surface.
- 0.3 – 0.6 m Peat
Brown peat, fibrous, soft, saturated.
- 0.6 – 1.8 m Silty Clay
Brown (mottled) silty clay, soft, saturated. Becomes grey at 1.6 m.

Excavation halted at 1.8 m due to assumed bedrock surface.



Monitoring Well Details:

Total Depth: 2.9 mbtoc
Stickup: 1.1 mbtoc
Water Level: 1.25 mbtoc (still recovering)

Test Pit #3 (MW-6)

Northing: 576585 m (NAD 83 Zone 17)

Easting: 5058264 m

Test Pit Purpose: To install a monitoring well and investigate soils downgradient of the waste area.

Test Pit Description

0.0 - 0.3 m Top Soil / Peat
Black top soil / peat (fibrous), trace silt, rootlets, saturated at surface.
0.3 – 1.4 m Silty Clay
Brown (mottled) silty clay, soft, saturated. Becomes grey at 1.0 m.

Excavation halted at 1.4 m due to assumed bedrock surface.

Monitoring Well Details:

Total Depth: 2.34 mbtoc
Stickup: 1.13 mbtoc
Water Level: 1.13 mbtoc

Test Pit #4 (MW-7)

Northing: 576591 m (NAD 83 Zone 17)

Easting: 5058362 m

Test Pit Purpose: To install a monitoring well and investigate soils downgradient of the waste area.

Test Pit Description

0.0 - 0.3 m Top Soil / Peat
Black top soil / peat (fibrous), trace silt, rootlets, saturated at surface.
0.3 – 2.3 m Silty Clay
Brown (mottled) silty clay, soft, saturated. Becomes grey at 1.4 m.

Excavation halted at 2.3 m due to assumed bedrock surface.



Monitoring Well Details:

Total Depth: 3.13 mbtoc

Stickup: 0.78 mbtoc

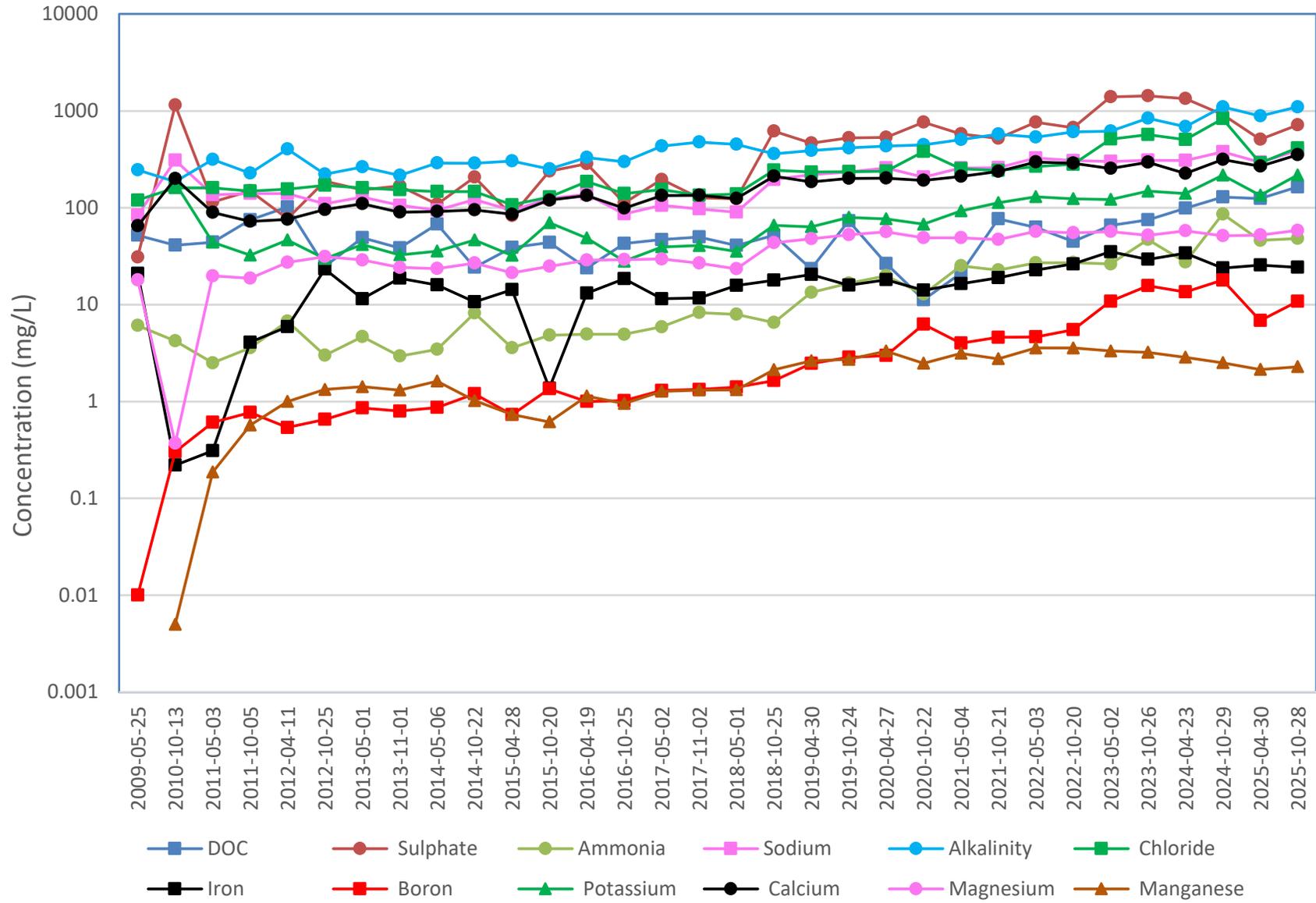
Water Level: 0.78 mbtoc



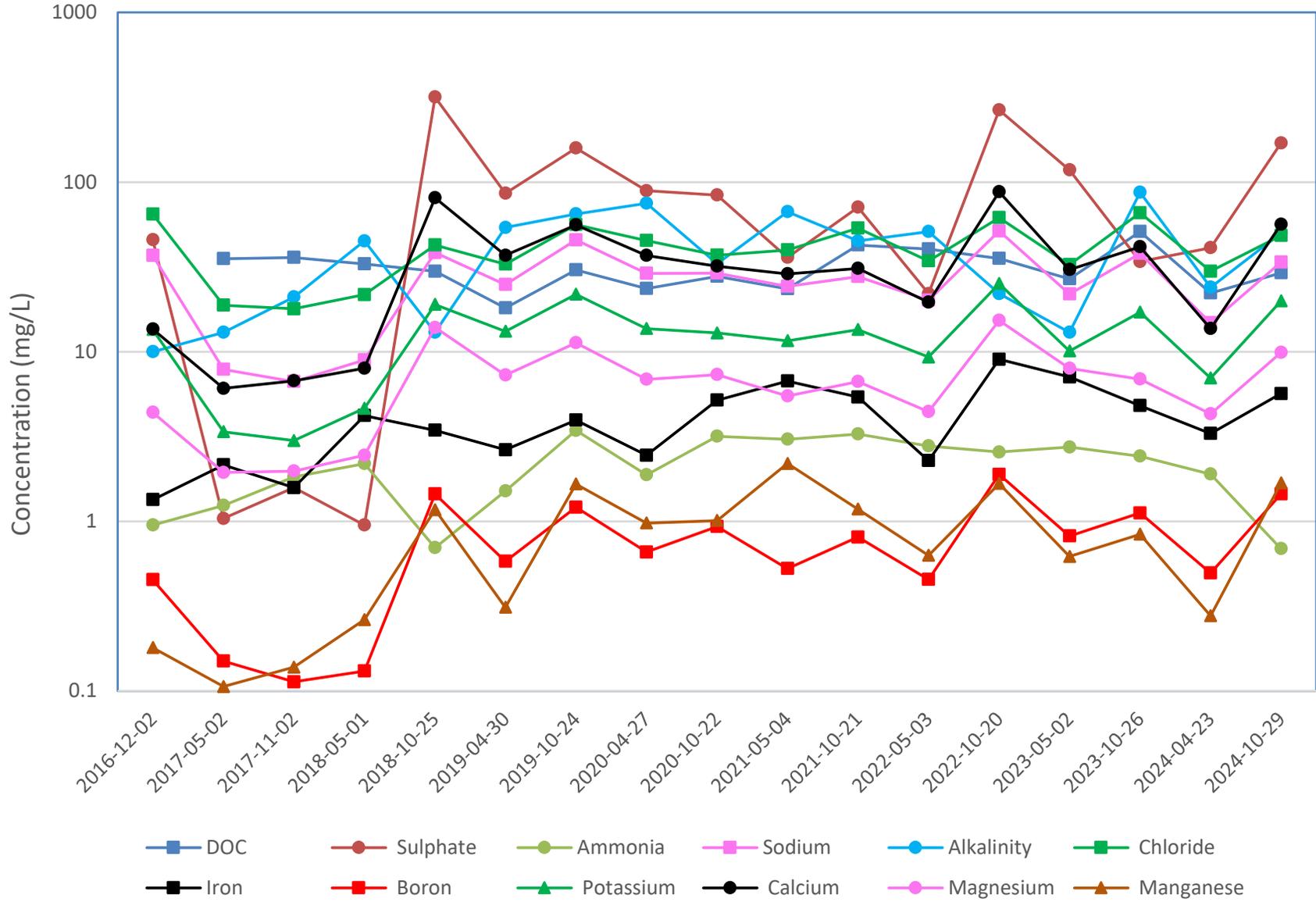
APPENDIX D

Chemistry Over Time Graphs

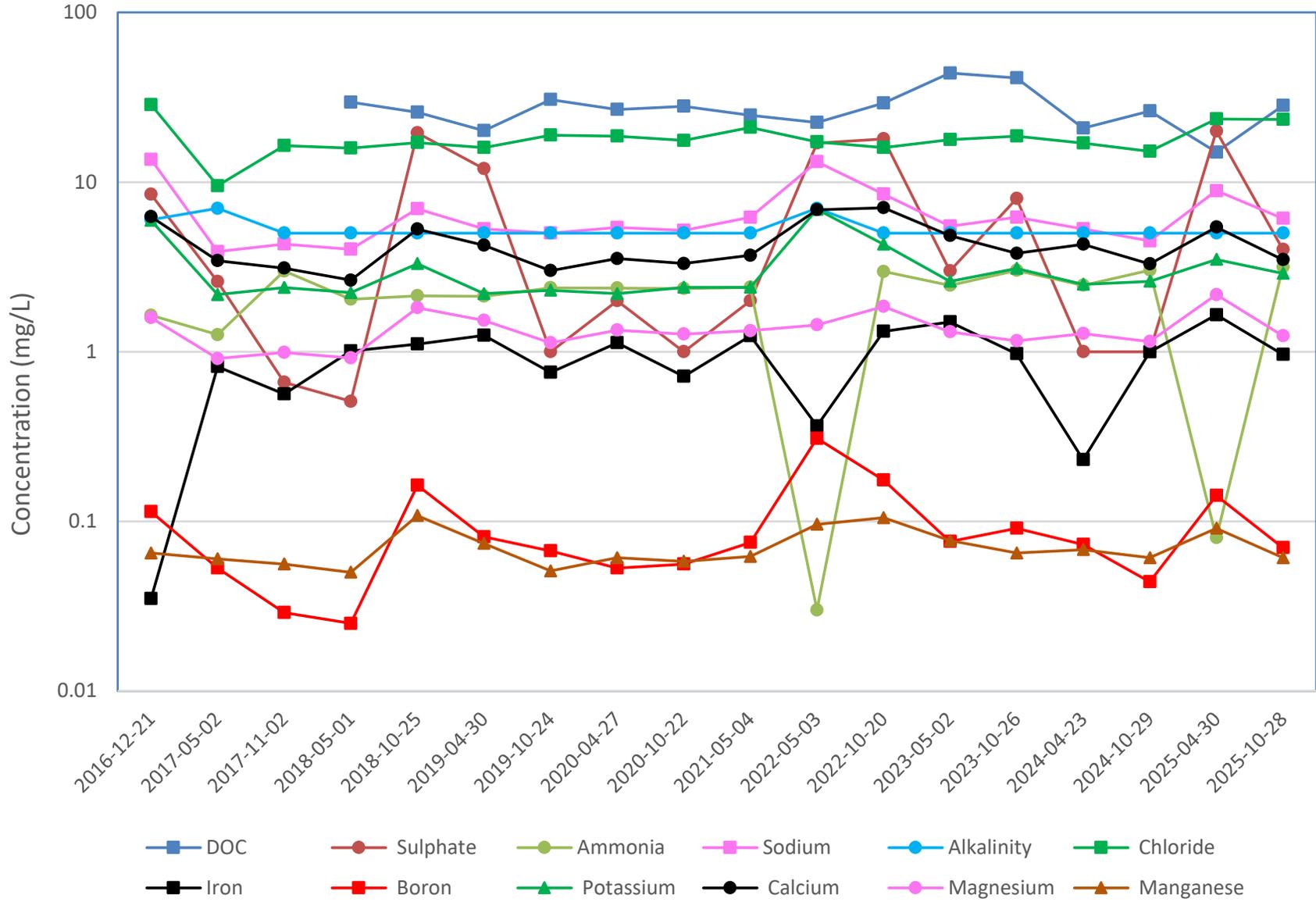
MW3



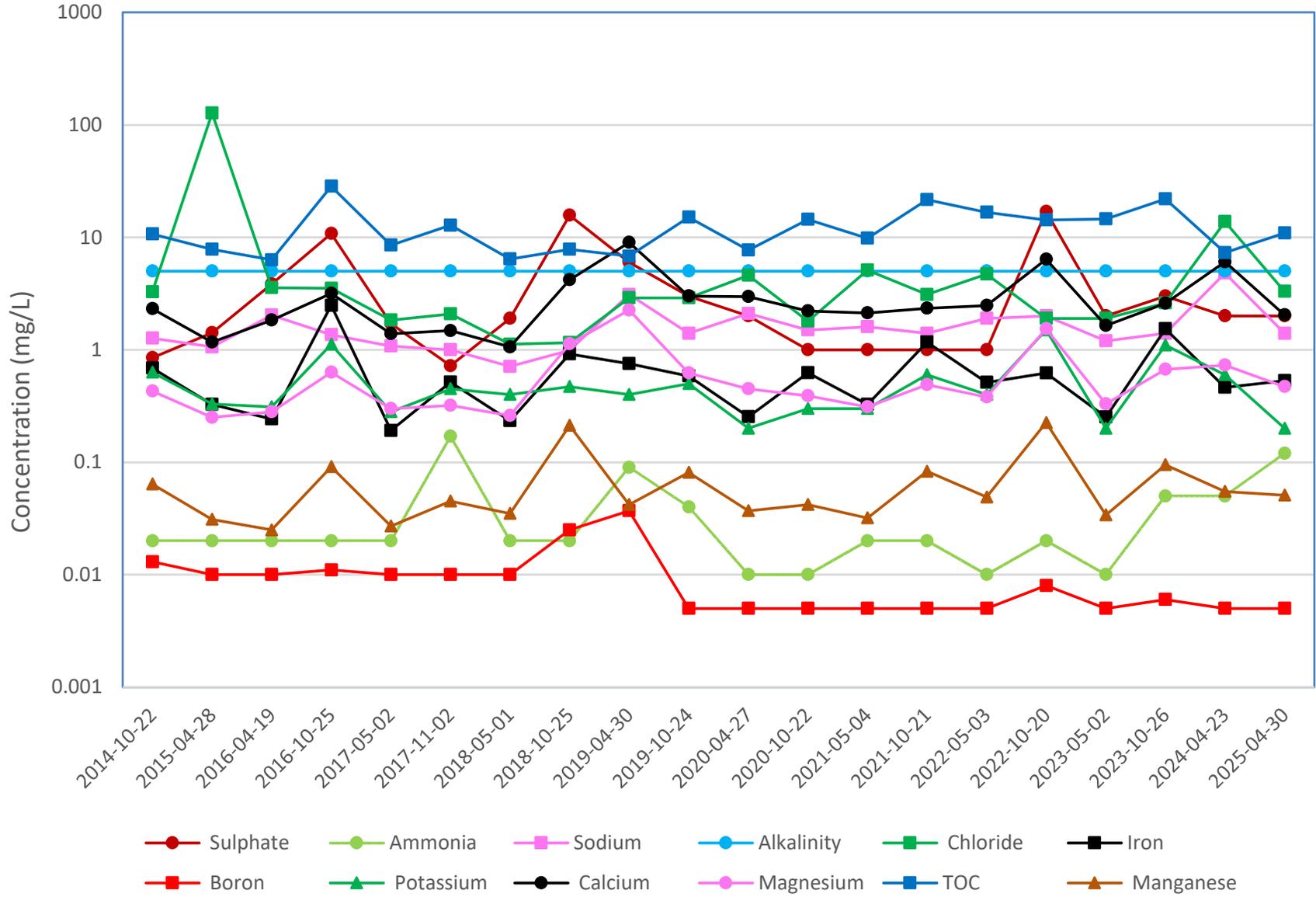
MW6



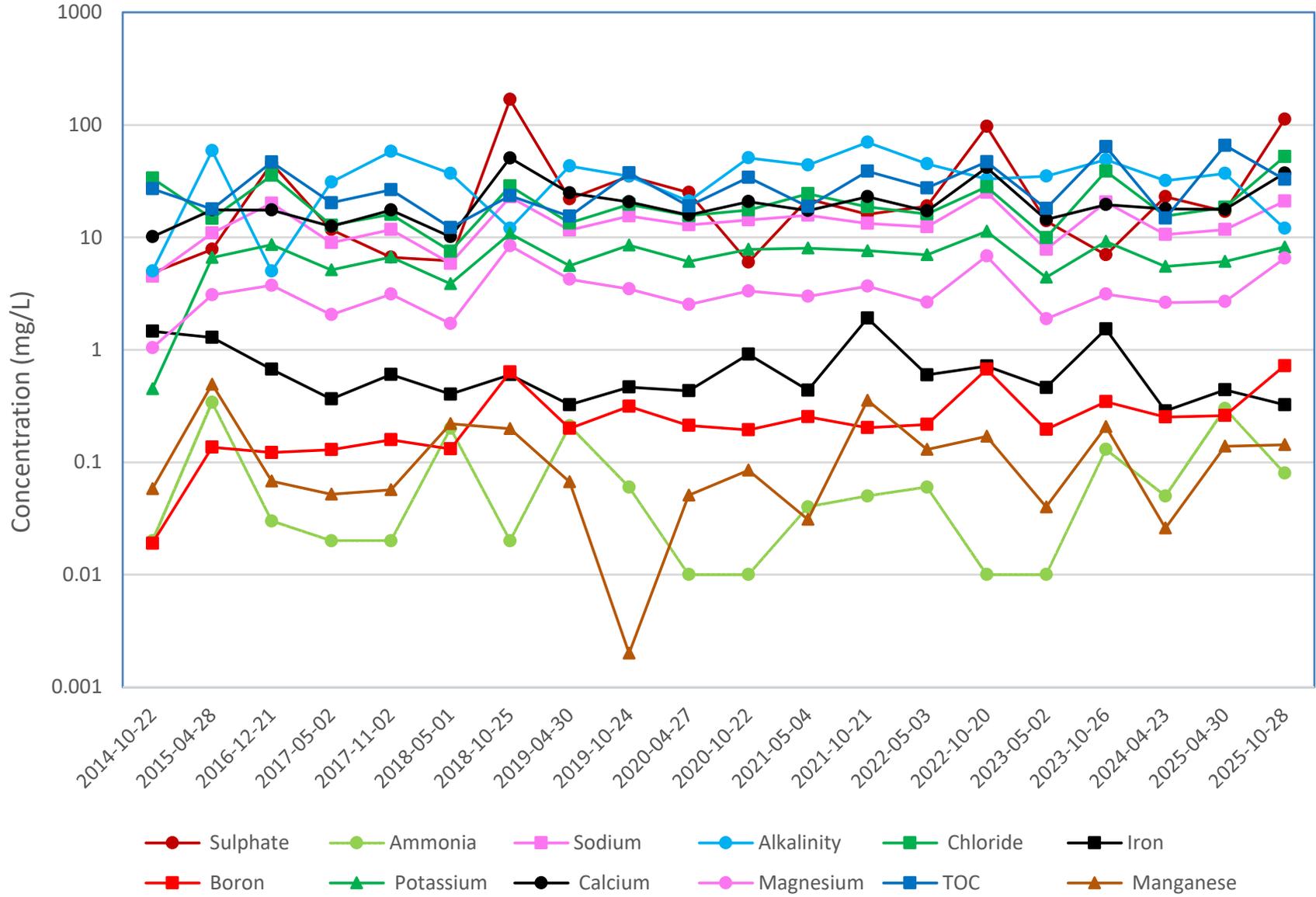
MW7



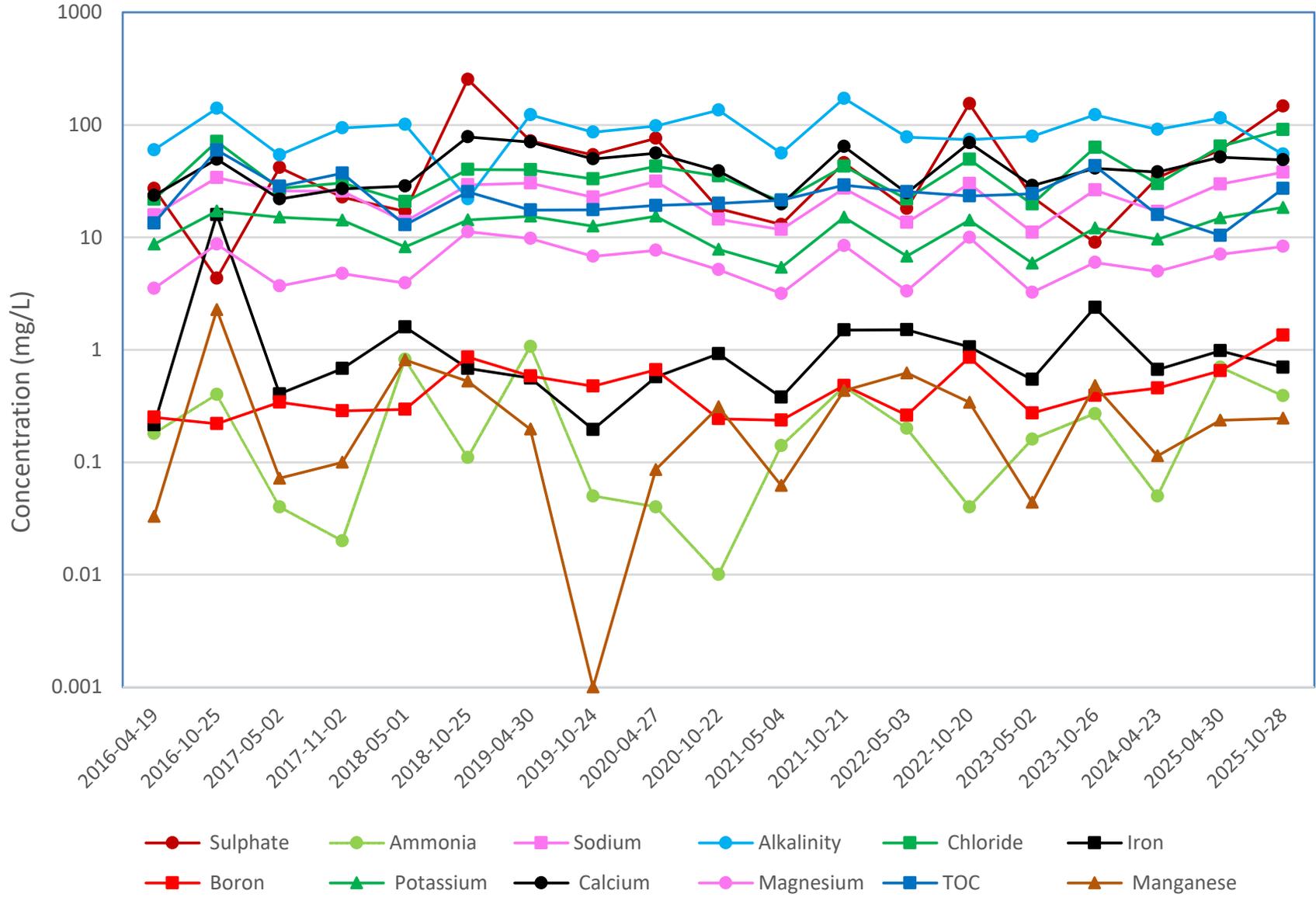
SW1



SW3



SW7





APPENDIX E

Certificate of Approval



Ontario

Ministry of the Environment

Provisional Certificate No
A 7101302

PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE

Under The Environmental Protection Act, 1971 and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

Her Majesty the Queen in Right of Ontario as
represented by the Minister of Natural Resources
4 Miller Street
Parry Sound, Ontario
P2A 1S8

For the use and operation
of a 4.0 hectare landfilling site

Located: Lot 30, Concession 3
Township of McKenzie
District of Parry Sound

which includes the use of the site only for the disposal of domestic and commercial waste.
NOTE: Use of the site for additional categories of waste requires a new
application and amendments to the Provisional Certificate of Approval.

This Provisional Certificate expires on the _____ day of _____, 19 _____

Dated this 2nd day of January, 19 80

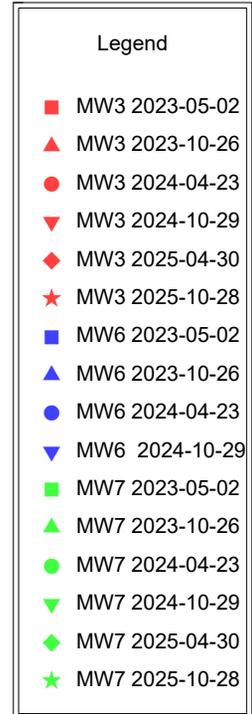
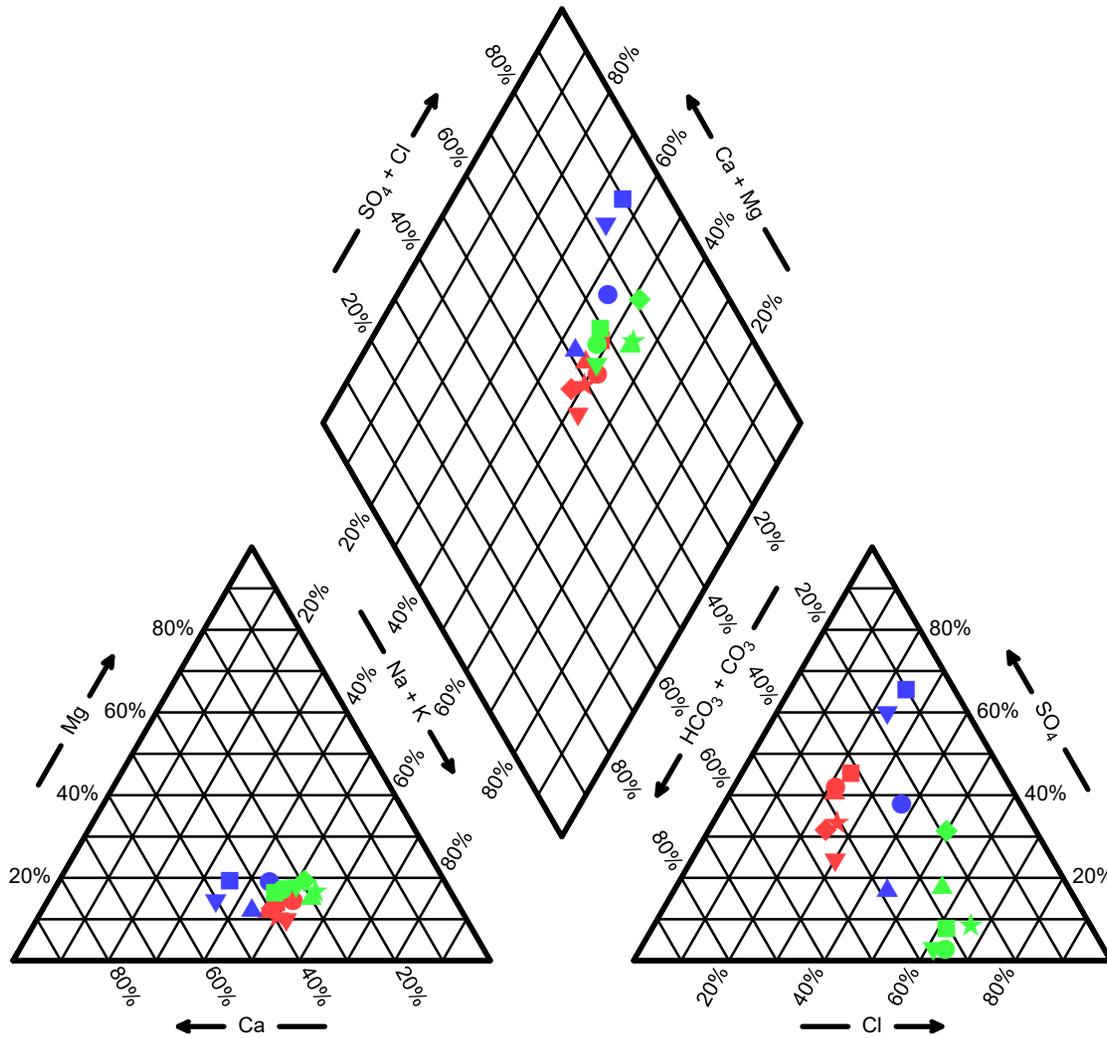

DIRECTOR, SECTION 3 (A) E.P.A.



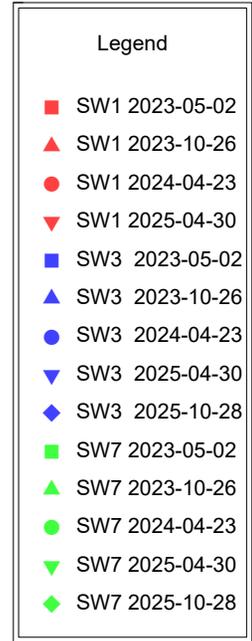
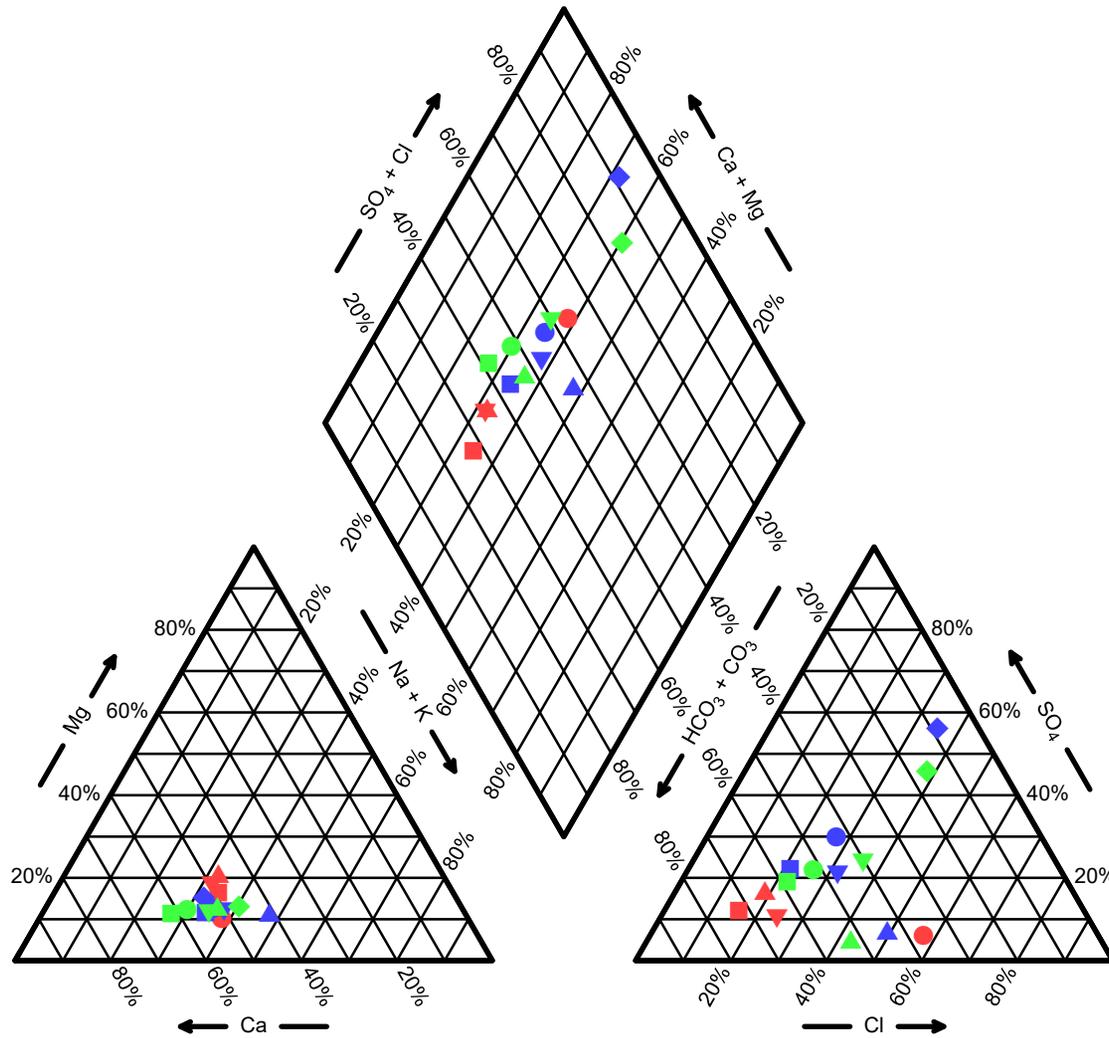
APPENDIX F

Piper Diagrams

Ground Water



Surface Water





APPENDIX G

MECP Landfill Report Submission Form

Appendix D-Monitoring and Screening Checklist General Information and Instructions

General Information: The checklist is to be completed, and submitted with the Monitoring Report.

Instructions: A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

Definition of Groundwater CEP:

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the *Professional Engineers Act*; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary, member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

Definition of Surface water CEP:

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

Monitoring Report and Site Information	
Waste Disposal Site Name	Aulds Road Landfill Site
Location (e.g. street address, lot, concession)	Lot 30, Concession 3, Municipality of Whitestone (Formerly McKenzie Twp.).
GPS Location (taken within the property boundary at front gate/ front entry)	17T 576456 , 5058101
Municipality	Municipality of Whitestone
Client and/or Site Owner	Municipality of Whitestone
Monitoring Period (Year)	2023-2025
This Monitoring Report is being submitted under the following:	
Certificate of Approval No.:	A7101392
Director's Order No.:	Type Here
Provincial Officer's Order No.:	Type Here
Other:	Type Here

Report Submission Frequency	<input type="radio"/> Annual <input checked="" type="radio"/> Other	Specify (Type Here): every three years
The site is:	<input checked="" type="radio"/> Active <input type="radio"/> Inactive <input type="radio"/> Closed	
If closed, specify C of A, control or authorizing document closure date:		Select Date
Has the nature of the operations at the site changed during this monitoring period?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
If yes, provide details:	Type Here	
Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i. e. exceeded the LEL for methane)	<input type="radio"/> Yes <input checked="" type="radio"/> No	

Groundwater WDS Verification:

Based on all available information about the site and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

<p>1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>	<p>If no, list exceptions (Type Here): MW1 was destroyed. MW7 was not sampled in 2025 as it was likely broken at surface by an animal. It was unable to be fixed or sampled given the flooded conditions during both sampling events in 2025, but will be attempted to be repaired in 2026. if unable to be repaired / sampled, MW5 will be implemented as it is in close proximity.</p>
<p>2) All groundwater, leachate and WDS gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by Certificate(s) of Approval or other relevant authorizing/control document(s):</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>If no, list exceptions below or attach information.</p>

Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
MW-1	MW-1 has been destroyed since monitoring program was established in D & O Plan. As noted in this years report, this location is not proposed to be replaced as it is viewed as a redundant perimeter location and migration in the area of the well is limited due to natural bedrock outcropping	October 2017
MW7	W7 was not sampled in 2025 as it was likely broken at surface by an animal. It was unable to be fixed or sampled given the flooded conditions during both sampling events in 2025, but will be attempted to be repaired in 2026. if unable to be repaired / sampled, MW5 will be implemented as it is in close proximity.	1-Jan-2025
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date

3) a) Some or all groundwater, leachate and WDS gas sampling and monitoring requirements have been established or defined outside of a ministry C of A, authorizing, or control document.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable	
b) If yes, the sampling and monitoring identified under 3(a) for the monitoring period being reported on was successfully completed in accordance with established protocols, frequencies, locations, and parameters developed as per the Technical Guidance Document:	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable	If no, list exceptions below or attach additional information.
Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
4) All field work for groundwater investigations was done in accordance with standard operating procedures as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	<input checked="" type="radio"/> Yes <input type="radio"/> No	If no, specify (Type Here):

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

<p>5) The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>If no, the potential design and operational concerns/ exceptions are as follows (Type Here):</p>	
<p>6) The site meets compliance and assessment criteria.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>If no, list and explain exceptions (Type Here):</p>	
<p>7) The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>If no, list exceptions and explain reason for increase/change (Type Here):</p>	
<p>1) Is one or more of the following risk reduction practices in place at the site: (a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/treatment; or (b) There is a predictive monitoring program in-place (modeled indicator concentrations projected over time for key locations); or (c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation): <i>i.</i> The site has developed stable leachate mound(s) and stable leachate plume geometry/concentrations; and <i>ii.</i> Seasonal and annual water levels and water quality fluctuations are well understood.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>Note which practice(s):</p>	<p><input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b) <input checked="" type="checkbox"/> (c)</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not Applicable</p>		

Groundwater CEP Declaration:

I am a licensed professional Engineer or a registered professional geoscientist in Ontario with expertise in hydrogeology, as defined in Appendix D under Instructions. Where additional expertise was needed to evaluate the site monitoring data, I have relied on individuals who I believe to be experts in the relevant discipline, who have co-signed the compliance monitoring report or monitoring program status report, and who have provided evidence to me of their credentials.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended), and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to *ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories*, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature and will be rectified for the next monitoring/reporting period. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

16-dec-25

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

No changes to the monitoring program are recommended

The following change(s) to the monitoring program is/are recommended:

MW-1 is proposed to be removed from program as it was destroyed and as noted above, is considered a redundant perimeter monitoring location.

No Changes to site design and operation are recommended

The following change(s) to the site design and operation is/are recommended:

Type Here

Name:	Colin Ross		
Seal:	Add Image		
Signature:	<input type="text"/>	Date:	16-Dec-2025
CEP Contact Information:	Colin Ross		
Company:	Azimuth Environmental Consulting Inc.		
Address:	642 Welham Road, Barrie, ON L4N 9A1		
Telephone No.:	705-721-8451	Fax No. :	705-721-8926
E-mail Address:	colin@azimuthenvironmental.com		
Co-signers for additional expertise provided:			
Signature:	<input type="text"/>	Date:	Select Date
Signature:	<input type="text"/>	Date:	Select Date

Surface Water WDS Verification:

Provide the name of surface water body/bodies potentially receiving the WDS effluent and the approximate distance to the waterbody (including the nearest surface water body/bodies to the site):

Name (s)	Wahwashkesh Lake tributary for Wahwashkesh Lake	
Distance(s)	Wahwashkesh Lake tributary for Wahwashkesh Lake	1.2km 270m

Based on all available information and site knowledge, it is my opinion that:

Sampling and Monitoring Program Status:

1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:	<input checked="" type="radio"/> Yes <input type="radio"/> No	If no, identify issues (Type Here):
2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the Certificate(s) of Approval or relevant authorizing/control document(s) (if applicable):	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not applicable (No C of A, authorizing / control document applies)	If no, specify below or provide details in an attachment.

Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date
all locations	locations are sometimes dry during fall monitoring event.	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date
Type Here	Type Here	Select Date

<p>3) a) Some or all surface water sampling and monitoring program requirements for the monitoring period have been established outside of a ministry C of A or authorizing/control document.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not Applicable</p>		
<p>b) If yes, all surface water sampling and monitoring identified under 3 (a) was successfully completed in accordance with the established program from the site, including sampling protocols, frequencies, locations and parameters) as developed per the Technical Guidance Document:</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable</p>	<p>If no, specify below or provide details in an attachment.</p>	
Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)		Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
<p>4) All field work for surface water investigations was done in accordance with standard operating procedures, including internal/external QA/QC requirements, as established/ outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>If no, specify (Type Here):</p>	

Sampling and Monitoring Program Results/WDS Conditions and Assessment:

5) The receiving water body meets surface water-related compliance criteria and assessment criteria: i.e., there are no exceedances of criteria, based on MOE legislation, regulations, Water Management Policies, Guidelines and Provincial Water Quality Objectives and other assessment criteria (e.g., CWQGs, APVs), as noted in Table A or Table B in the Technical Guidance Document (Section 4.6):

- Yes
 No

If no, list parameters that exceed criteria outlined above and the amount/percentage of the exceedance as per the table below or provide details in an attachment:

Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance or Assessment Criteria or Background Exceeded
e.g. Nickel	e.g. C of A limit, PWQO, background	e.g. X% above PWQO
Boron	0.2 mg/L	>100% PWQO, but within CWQG
Iron	0.3 mg/L	>100%
Aluminum Silver copper Lead	0.075 mg/L 0.0001 mg/L 0.005 mg/L 0.001 mg/L	>100% 100% 70 % 20%
Total Phosphorus Zinc	0.02 mg/L 0.02 mg/L	>100% >100%

6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?

- Yes
 No

Boron is likely landfill derived, but others are likely more related to natural sources as concentrations more elevated at background location or when turbidity concentrations elevated indicating sediment entrainment during sampling collection is influencing results. However, boron concentration is noted to be within CWQG.

<p>7) All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>	<p>variation exists, however, within a predictable range with no increasing trends.</p>
<p>8) For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g., PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Known</p> <p><input type="radio"/> Not Applicable</p>	<p>No Remedial measures are proposed as dilution potential of the surface water feature is sufficient. This is observed by the reduction in major ion chemistry between GW and SW locations</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>If yes, list value(s) that are/have been exceeded and follow-up action taken (Type Here)</p>

Surface Water CEP Declaration:

I, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to *ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories*, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

16-dec-25

Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

No Changes to the monitoring program are recommended

Type Here

The following change(s) to the monitoring program is/are recommended:

No changes to the site design and operation are recommended

Type Here

The following change(s) to the site design and operation is/are recommended:

CEP Signature	
Relevant Discipline	Water Quality Assessor / Hydrogeologist
Date:	16-Dec-2025
CEP Contact Information:	Colin Ross
Company:	Azimuth Environmental Consulting Inc.
Address:	642 Welham Road, Barrie, ON. L4N 9A1
Telephone No.:	705-721-8451
Fax No. :	705-721-8926
E-mail Address:	colin@azimuthenvironmental.com
Save As	Print Form



APPENDIX H

Surface Water Photos



SW-1: April 30, 2025



SW-1: October 28, 2025



SW-3: April 30, 2025



SW-3: October 28, 2025



SW-7: April 30, 2025



SW-7: October 28, 2025



Municipality of Whitestone

Report to Council

Prepared for: Council

Department: Finance

Agenda Date: March 17, 2026

Report No: FIN-2026-05

Subject:

2025 Council Remuneration and Expenses

Recommendation:

THAT the Council of the Municipality of Whitestone receives report FIN-2026-05 2025 Council Remuneration and Expenses for information purposes.

Background:

Section 284(1) of the Municipal Act and By-Law 46-2018, being a By-Law to establish the rate of remuneration for the member of Council, the following is submitted in respect of 2025 Council remuneration.

The Municipal Act, 2001, S.O. 2001, c. 25 Section 284, states the following:

(1) The treasurer of a municipality shall in each year on or before March 31 provide to the council of the municipality an itemized statement on remuneration and expenses paid in the previous year to,

- (a) each member of council in respect of his or her services as a member of the council or any other body, including a local board, to which the member has been appointed by council or on which the member holds office by virtue of being a member of council;*
- (b) each member of council in respect of his or her services as an officer or employee of the municipality or other body described in clause (a); and*
- (c) each person, other than a member of council, appointed by the municipality to serve as a member of any body, including a local board, in respect of his or her services as a member of the body. 2001, c. 25, s. 284 (1).*

(2) The statement shall identify the by-law under which the remuneration or expenses were authorized to be paid. 2001, c. 25, s. 284 (2).

(3) If, in any year, any body, including a local board, pays remuneration or expenses to one of its members who was appointed by a municipality, the body shall on or before January 31 in the following year provide to the municipality an itemized statement re a of the remuneration and expenses paid for the year. 2001, c. 25, s. 284 (3).

(4) Despite the Municipal Freedom of Information and Protection of Privacy Act, statements provided under subsections (1) and (3) are public records. 2001, c. 25, s. 284 (4).

Analysis:

ATTACHMENT A provides information in respect of 2025 Council remuneration and expenses paid by the Municipality of Whitestone or paid by a Board or other body to which a Member of Council has been appointed.

Link to Strategic Plan:

2. Fiscal Responsibility and Accountability

Respectfully submitted by:

Reviewed by:



Jessica Sinkowski
Treasurer/Tax Collector



Nigel Black
CAO/Clerk

ATTACHMENT A – 2025 Council of the Municipality of Whitestone remuneration and expenses

2025 Council Remuneration and Expenses
Municipality of Whitestone

Council							
Name	Remuneration	Benefits	Electronic Device Allowance	Cell Phone	Expenses	Total	Expense Notes
Mayor Comrie	\$31,830.72	\$ 4,363.79	\$600.00	\$479.28	\$2,055.40	\$39,329.19	DPSMA Spring, DPSMA Fall, ROMA, Recreation Committee
Councillor Lamb	\$21,262.08	\$ 5,910.18	\$600.00		\$1,302.29	\$29,074.55	DPSMA Spring, DPSMA Fall, FONOM
Councillor Woods	\$21,262.08	\$ 5,472.11	\$600.00		\$100.00	\$27,434.19	DPSMA Spring, DPSMA Fall
Councillor Nash	\$21,262.08	\$ 8,930.25	\$600.00		\$4,844.66	\$35,636.99	DPSMA Fall, Environmental Stewardship Committee, Council Related Reimbursement
Councillor Bray	\$21,262.08	\$ 5,338.76	\$600.00		\$781.80	\$27,982.64	DPSMA Spring, DPSMA Fall, ROMA
Parry Sound Area Planning Board							
Name	Remuneration				Expenses	Total	Expense Notes
Councillor Nash	\$910.00					\$910.00	
Councillor Lamb	\$1,440.00				\$284.40	\$1,724.40	Mileage
The Parry Sound Area Planning Board issues payment to the Municipality of Whitestone, which in turn pays the Councillors. This remuneration is included in the Municipality of Whitestone T4.							
District of Parry Sound Social Service Administration Board							
Name	Remuneration				Expenses	Total	Expense Notes
Councillor Bray	\$1,500.00					\$1,500.00	
The DSSAB pays representative directly and issues a T4 at year end.							



Municipality of Whitestone

Report to Council

Prepared for: Council

Department: Finance

Agenda Date: March 17, 2026

Report No: FIN-2026-06

Subject:

2026 Draft Consolidated Operating and Capital Budget – Additional Revisions

Recommendation:

THAT the Council of the Corporation of the Municipality of Whitestone receive Report FIN-2026-04 2026 Draft Consolidated Operating and Capital Budget – Additional Revisions for information purposes.

AND THAT Council direct staff to incorporate the recommended changes and any other changes arising from the March 17, 2026 regular Council meeting into a final budget for consideration and adoption at the April 21, 2026 regular Council meeting.

Background:

Council has previously received and reviewed the 2026 Draft Consolidated Operating and Capital Budget through a series of reports and budget meetings held throughout the budget process.

The most recent draft budget was presented on March 4, 2026 in report FIN-2026-04, which summarized revisions made following Council's review and outlined next steps toward final adoption.

During that meeting, Council directed staff to bring forward options to reduce the overall tax levy increase to approximately 3%.

Analysis:

Following Council's direction, staff reviewed available options to reduce the levy increase while maintaining the integrity of the proposed operating and capital plans.

The option staff identified is to utilize additional funding in the amount of \$22,500 from the **Funding Stabilization Reserve** to offset capital projects that were originally proposed to be funded from the tax levy. This approach is consistent with the intended purpose of the reserve, which was established using the 2024 surplus to help stabilize tax impacts during the budget process.

By allocating additional reserve funding toward capital projects, the levy requirement for capital can be reduced, helping to bring the overall levy increase closer to Council's target.

Capital Updates:

Council requested the ice resurfer and storage facility be separated into separate projects, and the scope and budget for the storage facility be reduced. Council also requested the addition of a dock at one of the municipality's lake access points. These changes have been incorporated into the revised capital project listing and reflected in the updated capital funding plan.

Council also requested gravel work to be done at the Snakeskin boat launch for maintenance purposes and staff have advised that this work can be completed within the base operating budget for Boat Launches at a cost of approximately \$1,000.

User Fees Analysis:

Minor adjustments were made to several user fees following the March 4 Council discussion. These changes will be reflected in the final user fee schedule to be brought forward at the April 21 regular Council meeting.

Financial Impact:

The attached tax impact analysis (**Attachment B**) reflects the cumulative effect of all revisions made to date and shows the current estimated tax levy increase resulting from the proposed 2026 budget.

Next Steps:

Following Council direction at the March 17, 2026 meeting, staff will finalize the 2026 Budget, user fee schedule, and required by-laws for consideration at the April 21, 2026 regular Council meeting.

Link to Strategic Plan:

Fiscal Responsibility and Accountability



Jessica Sinkowski
Treasurer / Tax Collector



Nigel Black
CAO/Clerk

Attachments:

- ATTACHMENT A** Budget Change Tracking Sheet
- ATTACHMENT B** Tax Impact Analysis
- ATTACHMENT C** Capital Project Listing
- ATTACHMENT D** Capital Project Sheets (New Projects Only)
- ATTACHMENT E** Reserve and Reserve Fund Schedule

2026 DRAFT CONSOLIDATED OPERATING AND CAPITAL BUDGET Change Tracker

LEVY IMPACTED CHANGES

Initial Increase - Report FIN-2026-03	<u>\$115,710.00</u>
Assessment Growth Adjustment	(\$7,384.00)
PIL Adjustment	(\$307.00)
Updated Increase - February	<u>\$108,019.00</u>
Meeting Changes:	
Increase in Council Donations for School Donation	\$10,000.00
Septic Initiatives	\$5,000.00
Increase Police Services Board Levy	\$1,400.00
Maple Island Park - Increase Maintenance Expenses	\$1,450.00
Helipad Insurance Renewal Adjustment	\$700.00
Belvedere Levy Adjustment	(\$1,400.00)
Adjust Contribution to Asset Management Reserve	\$5,000.00
Add Lakeb Quality Water Testing	\$10,000.00
Thrift Shop Adjustment	(\$2,000.00)
Revised Increase as of March 4, 2026	<u>\$138,169.00</u>
Increase Contribution from Funding Stabilization Reserve	(\$22,500.00)
Revised Increase as of March 17, 2026	<u>\$115,669.00</u>

CAPITAL CHANGES

February 9 & 11

Remove project for Maple Island and redirect funds to gravel resurfacing
 Identify gravel resurfacing projects and move from operating to capital
 Leave gravel resurfacing amount in operating for smaller patching/maintenance
 Investigate ice resurfacer for capital funded from Parkland
~~Add placeholder from Parkland Dedication for Access Points (Dubois, Snakeskin, Beach Road)~~

March 4

Separate ice resurfacer and storage facility into separate projects
 Reduce scope/budget for storage facility
 Add project for dock at Beach Road funded from Funding Stabilization Reserve
 Complete gravel work at Snakeskin (can be accommodated within base Boat Launch budget)
 NOTE: Staff to investigate access point at Dubois throughout 2026, budget inclusion in 2027

OTHER CHANGES

Road Grant - Move from Council to Roads
 Road Grant - Increase x and y factors by 2%, budget remains at \$113,000
 Update name for account 16-484 to "ICECAP MEMBERSHIP"
 Change Pavilion to Dun Dome

2026 TAX IMPACT ANALYSIS

	ORIGINAL	STAFF UPDATES	MEETING CHANGES	PROPOSED
2026 Assessment Growth	\$37,050.00	\$44,434.00	\$44,434.00	\$44,434.00
2025 Levy	\$3,822,000.00	\$3,822,000.00	\$3,822,000.00	\$3,822,000.00
Total Taxation	\$3,859,050.00	\$3,866,434.00	\$3,866,434.00	\$3,866,434.00
1% Increase	\$38,590.50	\$38,664.34	\$38,664.34	\$38,664.34
Proposed Increase	\$228,560.00	\$220,869.00	\$220,869.00	\$220,869.00
Proposed Increase %	5.92%	5.71%	5.71%	5.71%
Tsf from Funding Stabilization	(\$100,000.00)	(\$100,000.00)	(\$100,000.00)	(\$100,000.00)
Tsf from Building Reserve	(\$12,850.00)	(\$12,850.00)	(\$12,850.00)	(\$12,850.00)
Changes			\$30,150.00	\$7,650.00
Adjusted Increase	\$115,710.00	\$108,019.00	\$138,169.00	\$115,669.00
Adjusted Increase %	3.00%	2.79%	3.57%	2.99%
2025 Tax Rate	0.00587374	0.00587374	0.00587374	0.00587374
2026 Tax Rate	0.00604986	0.00603784	0.00608364	0.00604946
Education Tax Rate	0.00153000	0.00153000	0.00153000	0.00153000
Increase After Education Rate	2.38%	2.22%	2.84%	2.37%
<hr/>				
Assessed Value	\$168,000.00	\$168,000.00	\$168,000.00	\$168,000.00
2025 Municipal Levy	\$986.79	\$986.79	\$986.79	\$986.79
2026 Municipal Levy	\$1,016.38	\$1,014.36	\$1,022.05	\$1,016.31
Change	\$29.59	\$27.57	\$35.26	\$29.52

2026 Proposed Capital Budget Project Listing

PROJECT	PROJECT MANAGER	2026 DRAFT				FUNDING SOURCE
		REQUEST	2026 DRAFT #2	2026 DRAFT #3	2026 PROPOSED	
DEFERRED FROM 2025						
19-110-1 AMP Consultant Phase 2 & 3	Treasurer	15,000	10,000	10,000	10,000	OCIF Grant
19-115 Official Plan/Zoning Consultant	CAO	24,000	50,000	50,000	50,000	Tax Levy
19-210 Replace Radio	Fire Chief	2,200	2,200	2,200	2,200	Fire Equipment Reserve
19-352 Ladd Rd Bridge Rehab Analysis	Public Works Manager	25,000	25,000	25,000	25,000	OCIF Grant
19-714-2 AODA Door Openers - Community Centre	Public Works Manager	20,000	6,500	6,500	6,500	Parkland Dedication Reserve
19-814 Recreation Playground Project	Recreation Committee	10,000	10,000	10,000	10,000	Parkland Dedication Reserve
	SUB TOTAL	96,200	103,700	103,700	103,700	
ANNUAL PROJECTS						
19-100 IT Upgrades	CAO	10,000	10,000	10,000	10,000	Funding Stabilization Reserve
19-300 Surface Treatment - Shakell Road	Public Works Manager	175,000	0	0	0	OCIF Grant
Slurry Seal Treatment - Balsam Road	Public Works Manager	30,000	40,000	40,000	40,000	CCBF Grant
Slurry Seal Treatment - Canning Road	Public Works Manager	65,000	90,000	90,000	90,000	CCBF Grant
Slurry Seal Treatment - Whitestone Road	Public Works Manager	32,000	35,000	35,000	35,000	OCIF Grant
Gravel to Hardtop - Maple Island	Public Works Manager	0	105,000	0	0	OCIF Grant
Gravel to Hardtop - Aulds	Public Works Manager	0	35,000	35,000	35,000	OCIF Grant
Annual Gravel Resurfacing	Public Works Manager	0	0	170,000	170,000	OCIF Grant / Tax Levy
Road Maintenance and 1/4" Chip Seal - Farleys Road	Public Works Manager	20,000	52,500	52,500	52,500	OCIF Grant
	SUB TOTAL	332,000	367,500	432,500	432,500	
NEW PROJECTS						
PW Garage Backup Power	CAO	70,000	65,000	65,000	65,000	Funding Stabilization Reserve
Twist Property Upgrades	CAO	10,000	10,000	10,000	10,000	Funding Stabilization Reserve
Replacement of Half Ton Pickup Truck	Public Works Manager	70,000	70,000	70,000	70,000	Asset Management Reserve
Replacement of Tandem Dump/Plow Truck	Public Works Manager	470,000	470,000	470,000	470,000	Asset Management Reserve
AODA Door Openers - Dun Dome	Public Works Manager	0	0	0	0	Parkland Dedication Reserve
AODA Door Openers - Library	Public Works Manager	0	6,000	6,000	6,000	Funding Stabilization Reserve
Door Replacements - Community Centre	Public Works Manager	0	20,000	20,000	20,000	Parkland Dedication Reserve
Ice Resurfacer and Shed	Public Works Manager	0	0	65,000	65,000	Parkland Dedication Reserve
Ice Resurfacer Storage	Public Works Manager	0	0	80,000	40,000	\$35k Parkland Dedication Reserve/\$5k Funding Stabilization Reserve
Boat Dock - Beach Road	Public Works Manager	0	0	0	12,500	Funding Stabilization Reserve
Purchase of New Utility Vehicle	PW Manager / Fire Chief	30,000	30,000	30,000	30,000	Funding Stabilization Reserve
Traffic Calming - Radar Signs (3)	Public Works Manager	9,000	14,000	14,000	14,000	Tax Levy
Paving of Heli Pad and McDonald Drive	Public Works Manager	150,500	0	0	0	Tax Levy
Bridge and Culvert Inspections	Public Works Manager	12,000	12,000	12,000	12,000	Asset Management Reserve
Replacement of Pickup Truck	Fire Chief	82,000	82,000	82,000	82,000	Asset Management Reserve
Gooseneck Lake Standpipe	Fire Chief	1,500	1,500	1,500	1,500	Funding Stabilization Reserve
Tanker Repairs	Fire Chief	4,000	0	0	0	Fire Equipment Reserve
Volunteer Management Software	Deputy Clerk	4,000	4,000	4,000	4,000	Tax Levy
	SUB TOTAL	913,000	784,500	929,500	902,000	
	TOTAL CAPITAL EXPENSES	1,341,200	1,255,700	1,465,700	1,438,200	

2026 Proposed Capital Budget Project Listing

PROJECT	PROJECT MANAGER	2026 DRAFT			2026 PROPOSED	FUNDING SOURCE
		REQUEST	2026 DRAFT #2	2026 DRAFT #3		
FUNDING BY SOURCE						
Tax Levy		314,000	90,500	90,500	68,000	
Tax Levy (Moved from Operating for Gravel)				65,000	65,000	
Asset Management Reserve		659,000	634,000	634,000	634,000	
Parkland Dedication Reserve		40,000	36,500	136,500	136,500	
Fire Equipment Reserve		6,200	2,200	2,200	2,200	
Funding Stabilization Reserve			100,000	145,000	140,000	
OCIF Grant		195,000	262,500	262,500	262,500	
CCBF Grant		127,000	130,000	130,000	130,000	
TOTAL CAPITAL FUNDING		1,341,200	1,255,700	1,465,700	1,438,200	



2026 Capital Budget Worksheet

Requesting Department: Facilities
Project Name: Ice Resurfacer

Project Start Date: 03-Aug-26
Estimated End Date: 06-Aug-26

Project Description: Purchasing a gently used ice resurfacing unit.

Business Case: Purchasing an ice resurfacer will help keep the ice in the Dundome in tip top shape during the winter months that allow us to make ice. The resurfacer will keep the surface smooth and make it easier to level high and low spots caused by flooding of the ice and the continues use of the ice by the public.

How does this tie into the Strategic Plan? Building Community

Expenditure Forecast

Planning & Design	
Construction / Purchase	
Furniture/Equipment	65,000
Materials	
Contingency	
Other	
TOTAL EXPENDITURES	65,000

Funding Sources

Levy Funding	
Reserves	65,000
OCIF	
CCBF	
External Contributions	
Other	
TOTAL FUNDING SOURCES	65,000



2026 Capital Budget Worksheet

Requesting Department: Facilities
Project Name: Ice Resurfacer Storage Building

Project Start Date: 10-Jul-26
Estimated End Date: 17-Jul-26

Project Description: Putting up a garage/building to house the Ice resurfacer and tools/Water at the East end of the Dundome. With insulation and heat for water usage.

Business Case: Putting up a pre-fab storage garage at the Dundome would take away the need to move the ice resurfacer everyday when it is used to maintain the ice surface during the winter months

How does this tie into the Strategic Plan? Building Community

Expenditure Forecast

Planning & Design	
Construction / Purchase	
Furniture/Equipment	40,000
Materials	
Contingency	
Other	
TOTAL EXPENDITURES	40,000

Funding Sources

Levy Funding	
Reserves	40,000
OCIF	
CCBF	
External Contributions	
Other	
TOTAL FUNDING SOURCES	40,000



2026 Capital Budget Worksheet

Requesting Department: Public Works
Project Name: Municipal Dock at Beach Road

Project Start Date: 15-Jun-26
Estimated End Date: 23-Jun-26

Project Description: Putting a public dock at Beach Road for people to use to launch their boat, tie a boat to while they load and unload supplies to get to their water access cottages and for sportsmen. The dock would be approx. 40 ft long x 8 ft wide.

Business Case: Adding a dock to Beach Road boat access would benefit a lot of people from cottagers to sportsmen. There is no dock there now and the beach area goes out quite far into the launch area leaving no where to properly tie up a boat for very short durations, making putting a boat into the lake or removing one difficult.

How does this tie into the Strategic Plan? Building Community

Expenditure Forecast

Planning & Design	
Construction / Purchase	
Furniture/Equipment	12,500
Materials	
Contingency	
Other	
TOTAL EXPENDITURES	12,500

Funding Sources

Levy Funding	
Reserves	12,500
OCIF	
CCBF	
External Contributions	
Other	
TOTAL FUNDING SOURCES	12,500

Reserves & Deferred Grants - 2025/2026 Estimated Closing Balances

Reserve	2024 Audited Balance	2025 Transfers In	2025 Estimated Transfers Out	2025 Estimated Closing Balance	2026 Recommended Contribution	2026 Recommended Transfers Out	2026 Estimated Closing Balance
13-311-1 Asset Management Reserve	964,652	485,000	(16,428)	1,433,224	555,000	(634,000)	1,354,224
13-312 Parkland Reserve	181,858	18,550	(41,015)	159,392	20,000	(156,500)	22,892
13-314 Fire Pumper	(2)	65,000	0	64,998	65,000		129,998
13-314-1 Fire Vehicle/Equipment	66,500	10,000	(36,576)	39,924	10,000	(2,200)	47,724
13-316 Forest Fire Reserve	50,533	0		50,533			50,533
13-321 Roads Equipment Reserve	75,435			75,435			75,435
13-326 Thrift Shop Reserve	25,255		(5,000)	20,255			20,255
13-328 Landfill Reserve	48,718	45,000		93,718	45,000		138,718
13-331 Cemetery Reserve	2,478			2,478			2,478
13-332 Cemetery Capital	13,721			13,721			13,721
13-342 Kashe Dam	12,000			12,000			12,000
13-343 Building Vehicle Reserve	43,000			43,000			43,000
13-344 Facilities Vehicle Reserve	39,854			39,854			39,854
13-348 Building Reserve	37,208	19,483		56,691		(12,850)	43,841
Funding Stabilization Reserve	0	285,446		285,446		(140,000)	145,446
Total Reserve	1,561,210	643,033	(99,019)	2,105,224	695,000	(805,550)	1,994,674
Deferred Grants	2024 Audited Balance	2025 Transfers In	2025 Estimated Transfers Out	2025 Estimated Closing Balance	2026 Contributions	2026 Recommended Transfers Out	2026 Estimated Closing Balance
12-321 Deferred CCBF Grant (Gas Tax)	680	70,413		71,093	70,413	(130,000)	11,506
12-322 Deferred OCIF Grant	48,179	152,088	(14,438)	185,829	136,879	(262,500)	60,208
Total Deferred Grants	48,859	222,501	- 14,438	256,922	207,292	- 392,500	71,714



Municipality of Whitestone

Report to Council

Prepared for: Council

Department: Finance

Agenda Date: March 17, 2026

Report No: FIN-2026-07

Subject:

2026 Donation Requests

Recommendation:

THAT the Council of the Municipality of Whitestone receive report FIN-2026-07 (Annual Donations 2026) for information; and

THAT Council approves the following donations for requests received in 2026:

West Parry Sound District Museum	\$2,000.00
Ardbeg Community Club	\$3,000.00
Rotary Club of Parry Sound	\$500.00
Parry Sound Chamber of Commerce	\$1,040.00
Sail Parry Sound	\$1,000.00
Cramadog Snowriders Corp	\$2,460.00
TOTAL	\$10,000.00

Background:

The Municipality of Whitestone Donation Policy (Approved by Council resolution 2013-527 and attached for reference) allows for organizations to apply for a grant/donation to support projects and activities that 'enhance the life and social well-being' of the Municipality.

As per the Municipality's Donation Policy A06-F19-01:

1. A Municipal Grant Application must be filled out and submitted to receive consideration for funding. Applicants are welcome to submit additional documentation that will assist in describing the project or activity...
2. The Municipality will accept and review applications once per year for the financial period of January to December which is the Municipality's fiscal year. The application deadline shall be February 10th.

In accordance with our policy, only organizations that have followed the required procedure have been considered for a municipal grant. Note that the Rotary Club of Parry Sound did not submit an application but presented to Council at the regular Council meeting on January 21, 2026.

Analysis:

In reviewing the applications, staff considered the evaluation criteria set out in the Donation Policy, including the number of residents reached, the level of community benefit to the Municipality of Whitestone, the organization's ability to generate its own funding, and the overall budget available for municipal donations.

As requests exceeded the available funding, staff recommended partial contributions in order to distribute support among several organizations while remaining within the available budget. Grant requests were received from the following organizations:

Requestor	Request	Recommendation	Rationale
West Parry Sound District Museum	\$2,000.00	\$2,000.00	Regional benefit
Ardbeg Community Club	\$3,000.00	\$3,000.00	Local group
Rotary Club of Parry Sound	Unspecified	\$500.00	Historical
Parry Sound Chamber of Commerce	\$1,040.00	\$1,040.00	Program cost
Sail Parry Sound*	\$1,000.00	\$1,000.00	New applicant
Cramadog Snowriders Corp*	\$3,226.20	\$2,460.00	New applicant
TOTAL	\$10,226.20+	\$10,000.00	
*New requestor for 2026			

Grant allocations from previous years are as follows:

RECIPIENT	2025 Donation	2024 Donation	2023 Donation
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Section 1

Previous Annual Donations (no application received)			
West Parry Sound Health Centre Foundation	\$0.00	\$500.00	\$500.00
Dunchurch Agricultural Society	\$500.00	\$500.00	\$500.00
Parry Sound High School Bursary L Woods	\$500.00	\$500.00	\$500.00
Parry Sound High School Graduation Gifts	\$250.00	\$250.00	\$250.00
Parry Sound Community Support Services	\$0.00	\$0.00	\$500.00
Whitestone Lake School Citizenship Award	\$500.00	\$500.00	\$100.00
Sub Total	\$1,750.00	\$2,250.00	\$2,350.00

Section 2

Annual Donations (application received)			
West Parry Sound District Museum	\$1,000.00	\$1,000.00	\$1,000.00
Parry Sound Chamber of Commerce	\$500.00	\$500.00	\$500.00
Whitestone Rod And Gun Club	\$500.00	\$500.00	\$500.00
Parry Sound Area Community Business & Dev Ctr	0.00	\$500.00	\$1,100.00
Rotary Club of Parry Sound	\$500.00	\$500.00	\$500.00
Ardbeg Community Club	\$3,000.00	\$1,000.00	\$3,000.00
Sub Total	\$5,500.00	\$4,000.00	\$6,600.00

Section 3

Additional or new donation requests			
Lake Wahwashkesh Conservation Association		\$1,500.00	
Parry Sound Downtown Business Association		\$1,000.00	
Georgian Nordic Outdoor Activity Centre		\$1,000.00	
Nursing Station – no request received	\$1,000.00		
Whitestone Lake Central School Nutrition Programs	\$500.00		
Almaguin Baseball League	\$500.00		
Sub Total	\$2,000.00	\$3,500.00	\$0.00

TOTAL	\$9,250.00	\$9,750.00	\$8,950.00
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Financial Considerations:

The draft 2026 operating budget allows for a total donation expenditure of \$10,000.00, which does not include \$10,000 for the Whitestone Lake Public School.

Donations 2020 to 2025

YEAR	BUDGET	EXPENSE
2025	\$10,000.00	\$ 9,250.00
2024	\$10,000.00	\$9,750.00
2023	\$10,000.00	\$ 8,950.00
2022	\$ 7,500.00	\$11,100.00
2021	\$ 6,840.00	\$10,490.00
2020	\$ 7,400.00	\$ 7,516.00

Link to Strategic Plan:

2. Fiscal Responsibility and Accountability

Respectfully submitted by:

Reviewed by:



Jessica Sinkowski
Treasurer / Tax Collector



Nigel Black
CAO/Clerk

Attachments:

Attachment A A06-F19-01 Donation Policy

Attachment B Memorandum from Councillor Woods - Whitestone Lake Public School Donation



THE CORPORATION OF THE MUNICIPALITY
OF WHITESTONE

CORPORATE POLICY MANUAL

POLICY MANUAL SECTION:	POLICY NUMBER:
Finance and Accounting	A06 – F19 - 01
POLICY NAME:	
Donation Policy	
DATE APPROVED:	AUTHORITY:
November 19, 2013	Resolution No. 2013-527
REVISION DATES:	DEPARTMENT RESPONSIBLE:
	Administration

PURPOSE:

The Municipality of Whitestone's primary mandate is to provide municipal services to ratepayers; it should not be viewed as a philanthropic organization. However, in order to enhance the life and social well-being of the Municipality of Whitestone community, approximately \$3,300.00 / year (may be adjusted annually by Council) will be included in the Municipality's annual budget to be allocated to support projects and activities of that nature.

SCOPE:

This policy applies to requests for all donations and requests for funding from organizations from within the Municipality as well as outside the municipality.

The policy applies to Council, Staff and Public (excluding the Maple Island Thrift Shop)

PROCEDURES:

1. A Municipal Grant Application must be filled out and submitted to receive consideration for funding. Applicants are welcome to submit additional documentation that will assist in describing the project or activity.
2. Applicants wishing to address Council must apply through the established “Request for Delegation” procedure, keeping in mind the application review schedule below.
3. The Municipality will accept and review applications once per year for the financial period of January to December which is the Municipality’s fiscal year. The application deadline shall be February 10th.
4. All applications received by the application deadline will be evaluated by the CAO-Clerk and/or Treasurer with the Municipality’s policy, donation criteria and budget. A recommendation, including approval or rejection and the suggested amount of the donation, will be forwarded to Council in February of each year for their review and decision.
5. Applicants will be notified of their application status immediately following Council’s decision.
6. During the evaluation process, the following criteria will be utilized:
 - Consideration will be given to the number of people reached by the requested donation. A higher weighting will be given to those donations that serve a large number of the Municipality’s citizens.
 - Higher weighting will be given to organizations/activities with high ratio of fund raising or self-finance.
 - The Municipality will not fund projects or services that duplicate services or activities already provided by the Municipality or other government agencies.
 - The Municipality will not fund groups or activities of a religious or political nature.
 - The Municipality will not fund school activities which are already supported through school tax levy.
 - The Municipality will not fund entertainment or social functions with no direct tangible benefit to the Municipality at large.

- 9 -

**THE CORPORATION OF THE MUNICIPALITY OF
WHITESTONE
GRANT APPLICATION**

1. Date: _

2. Name of Organization: _

3. Address: _

4. Please state the goals and objectives of your organization: _

5. Purpose of grant: _

6. What are the primary reasons for undertaking the project/service? _

7. Will this be a one-time project/service or is it ongoing? _

8. Dates/Duration of project/service: _

9. Who will be responsible for the execution and successful completion of the project/service?

Name: _

Telephone: _____

Fax: _

Email: _

10. Describe the project funding:

Total Budget: _

Requested contribution from Whitestone:

Amount from self-funded or fundraising:

Other grants: _

Admission fees: _

Other sources: _

11. Membership Fees: _

Current Year: _____

Previous Year: _

12. Other sources of funding: _

13. What is the basis for determining the requested Whitestone donation amount?

14. Is there any other funding contingent upon receiving a grant from the Municipality? If yes, please explain:

15. Has your organization requested assistance from Whitestone in the past? ____Yes
____No

What year(s)?_

Amount requested: _

Purpose of previous grant: _

16. Who will benefit from the project and how will they benefit? _

17. What are the benefits to the Municipality of Whitestone community?_

18. Is your group willing to provide a summary report to Whitestone following the event?

_____ Yes _____ No

19. Any other information you wish to provide in support of this application?_

20. Number of citizens that participate/benefit: _

21. Number of Whitestone citizens that participate/benefit: _

22. This grant application was authorized by a motion of the organization on the _____ day of _____, 20_____. (Please attach a copy of the resolution to this application)

23. Name and position of authorized Signing Officers:

Name: _____ Signature: _____

Name: _____ Signature: _____

24. Please attach a copy of your organization's most recent financial statement and a separate statement of current financial assets.



MEMORANDUM

To: Mayor and Council

From: Councillor Brian Woods

Council Meeting Date: March 17,

Re: **Donation to the Whitestone Lake Public School**

Background

During our 2026 budget discussions, I proposed allocating \$10,000 to Whitestone Lake Public School to support programs and activities not covered by the school tax levy. Council requested that I follow up with the school to determine how such a donation would be used.

Principal Burrows has since provided a detailed “wish list” of items the school hopes to purchase for student use. From the looks of the list, all of the items directly support school programming and would meaningfully enhance students’ day-to-day experience, particularly for those who may not otherwise have access to additional activities.

The public school is a vital institution in our municipality, and I believe we should support efforts that enrich the educational environment and broaden opportunities for the children who attend.

Recommendation

It is my recommendation that Council approve a donation of **\$10,000** to Whitestone Lake Public School, with the funds directed toward the purchase of items identified on the school’s submitted wish list, to be spent within the amount provided.

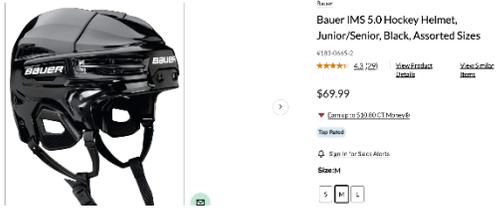
Attachments:

Attachment 1 – Whitestone Lake Public School “Wish List”

Municipality of Whitestone Requested List of Items for Students

Upon request from the Municipality, I have outlined some purchases we would look at to enhance the learning experience of the students at Whitestone Lake Central School, if a donation was given to the school. We are grateful that there has been discussion about the potential donation of funds for these 'Wishlist' type of purchases for our students. The items below are items we would typically try to purchase over a period of several years to provide for the students.

Item	Description and Use
	<ul style="list-style-type: none"> - We are currently borrowing snowshoes from another school - Students have made several paths throughout our yard during PE, Outdoor Learning Time, and even recess - These ones work well because they slide on boots easily and are sturdy enough for young and older students. - Quoted at approx. \$100/pair taxes included. We have some, but we have borrowed about 15-20 pairs from the other school to allow full classes to snowshoe.
<p>Technology Upgrades</p> <p>Chromebook 3120 Laptop or 2-in-1</p> <p>Model: 3120</p> <p>★★★★★ 4.6 (90)</p> 	<ul style="list-style-type: none"> - We have several devices that are aging out and not supporting the software and capabilities required for academic needs of students. - We have been updating each year; however, we have a batch of devices that were purchased in 2012 that are quickly 'dying' out - We can get these devices discounted through the board for approx \$450/device.
<p>Transportation Costs</p>	<ul style="list-style-type: none"> - This is a significant expense each year that has increased, especially over the past 3-4 years. - We have approximately 7 sporting events in Parry Sound between now and the end of the school year. Our average cost per trip to Parry Sound is \$500. - In addition, we also have year-end trips that we like to try to reduce the total cost to families by covering some of the

	<p>transportation fees. We do some fundraising for this purpose throughout the year, such as Little Caesar's Frozen Pizza Kits.</p>
<p>Hockey Helmets</p> 	<ul style="list-style-type: none"> - Each year we take students skating at the DunDome. We have skates and some helmets that we can typically supply for students who don't have any; however, we are often short on hockey helmets which are a requirement for participation. - We would love to purchase 5-6 helmets for students to borrow for next year (\$70.00+/helmet).
<p>Balls for Outdoor Use</p> 	<ul style="list-style-type: none"> - Students regularly use outdoor balls for soccer and basketball, as well as indoor balls (soccer, foam, basketball, volleyballs). - The outdoor equipment tends to breakdown quicker being used on the pavement. - We replace these at a cost anywhere from \$10-20/ball. We would be due to replace about 6 of each type of ball to keep them in good shape.
<p>Peteca Game Keep up shuttlecocks</p> 	<ul style="list-style-type: none"> - As a Spring sport/activity for PE classes and/or recess time, we would like to purchase 4-5 of these. - Students recently participated in a Leadership Program through Tim Horton's Camp and were very engaged in this activity (\$31+/Peteca Shuttlecock)
<p>Graduation Award</p>	<ul style="list-style-type: none"> - In the past, the Municipality has graciously sponsored Graduation Awards (also something other community members appreciate the opportunity to do). Typically, \$50-100 per award.



Municipality of Whitestone

Report to Council

Prepared for: Council

Department: Administration

Agenda Date: March 17, 2026

Report No: ADMIN-2026-02

Subject:

To update Council on the status of Open Building Permits older than three years and how they were handled in 2025. Further, to provide recommended changes in process, fees and reporting moving forward in 2026 and future years.

Recommendation:

THAT the Council of the Municipality of Whitestone receives for information Report ADMIN-2026-02 Building Department Inactive Permits; and

THAT Council directs the Fees and Charges Bylaw to be modified to include the following language:

Inactive Permit Fee

Commercial Permit	\$250
Dwellings & Additions	\$200
Accessory Structures	\$150
Decks and Docks	\$100

Mandatory fee upon occurrence

Definition – A permit is inactive if no inspections have occurred or been requested for a 1 year period

Maintenance/Extension Fee

Commercial Permit	\$500
Dwellings & Additions	\$400
Accessory Structures	\$300
Decks and Docks	\$200

Mandatory fee upon occurrence

Definition - A permit that requires longer than five (5) years to complete is subject to a yearly fee

THAT Council of the Municipality of Whitestone endorses the requirement for the Building Department to notify all permit holders that are more than 3 years old with written notice annually:

These letters will be based on the status of permits as of Dec 31st of each year and will be mailed out prior to the end of the first quarter of the year (March 31st).

THAT Council of Municipality of Whitestone requires ongoing reporting of Open Building Permit statistics each quarter, and the fees charged with respect to Inactive Permits and Maintenance/Extension Fees be reported yearly on the 4th Quarter Reports moving forward;

THAT Council of the Municipality of Whitestone agrees to refund the Inactive Permits fees that were charged in 2025 and endorse this new procedure moving forward.

Background:

In 2025 Council had discussions regarding the closing of outstanding permits several times, in conjunction with Building Department's quarterly reports.

At the April 15, 2025 Regular Council meeting, Council passes the following resolution:

Resolution No. 2025-119 as amended

Moved by: Councillor Nash

Seconded by: Councillor Woods

9.1 Report BLDG-2025-01 Building Services 2025, Q1

THAT the Council of the Municipality of Whitestone receives for information Report BLDG-2025-02 (Building Services update and Building Permit activity – January 1 to March 31, 2025); and

THAT the Council of the Municipality of Whitestone directs the Chief Building Officer (CBO) through the Chief Administration Officer (CAO) to issue formal letters to all Building Permit Holders that have an open Building Permit issued more than 36 months ago (April 14, 2022); and

THAT the letter states that open Building Permit(s) are to be closed by December 31, 2025, and reminding the Permit Holder(s) that:

- 1) the Building Permit can be revoked as per the Ontario Building Code (OBC); and
- 2) a \$200 inspection fee for Inactive Permits will be charged per Inspection as per the Fees and Charges By-Law Schedule D; and
- 3) no person shall occupy or permit to be occupied a building unless the Chief Building Official has issued a permit authorizing occupation of the building, as per the Ontario Building Code and the Building Code Act.

Recorded vote requested by Councillor Lamb

		YEAS	NAYS	ABSTAIN
<u>4</u>	Councillor Bray	X		
<u>1</u>	Councillor Lamb	X		
<u>2</u>	Councillor Nash	X		
<u>3</u>	Councillor Woods	X		
<u>5</u>	Mayor Comrie	X		

Carried

Although not specified in the resolution, administration understood that this correspondence was to go out to all affected permit holders by the end of 2025.

Following this, Council discussed and passed the Fees and Charges Bylaw, which included a modification to the Fees and Charges for the Building Department fees and charges.

Resolution No. 2025-134 as amended

Moved by: Councillor Lamb

Seconded by: Councillor Bray

11.1 Fees and Charges By-law Review 2025

THAT the Council of the Municipality of Whitestone receives for information Treasurer / Tax Collector Sinkowski's memorandum, Fees and Charges By-law Review 2025, and approve it as amended; and

THAT the Council of the Municipality of Whitestone remove the row entitled "Styrofoam and other Plastic Foams" and the associated Note 6 from Schedule B; and

THAT the words "at the Chief Building Official's discretion" be removed from Line 16 of Schedule D.

Carried

At the June 17, 2025 Regular Council Meeting the Fees and Charges Bylaw was amended based on the following Resolution:

Resolution No. 2025-207

Moved by: Councillor Lamb

Seconded by: Councillor Bray

10.2 **THAT** By-law No. 25-2025, being a By-law to amend By-law 08-2024, establishing fees and charges for services provided by the Municipality of Whitestone, is hereby passed this 17th day of June, 2025.

Carried

Members of Council have requested updates on the status of the correspondence that was directed, and also the imposition of the \$200 Inactive Permit Fee as a result of this process. In my discussion with various Council Members regarding these updates, my position was that it made most sense to have the discussion once the Q4/Year End Building Department Stats were available.

As the February 17, 2026 meeting neared, Councillor Nash did supply a list of questions and/or requests for information which summarized the requested information. Administration is now treating these questions as the basis for the information that Council is requesting based on the discussion at the February 17, 2026 Regular Council Meeting. Further to that, these questions form the basis for a portion of this report. An excerpt of Councillor Nash's request for information is included as follows:

Based on past communication I would expect these 5 items will all have answers and numbers but just wanted to get a list for you in point form to assist.

1. *How many Inspections were done in 2025 for Permits over 36 months and still open.*
2. *How many \$200 Invoices were issued related to Inspections for Permits over 36 months per Resolution 2025-119*
3. *How many Building Permits were closed for Permits issues up to 2021 that were still open at the time of Resolution 2025-119*
4. *How many letters were issued in regards to Resolution 2025-119 related to Permits over 36 Months old that are still open*
5. *How many noticed have been posted on properties or Permits revoked for not closed Permits By December 31 2025 as per Resolution 2025-119, since January 1, 2026*

Analysis:

With respect to the Inactive Permit Fee, it has been a part of the Fees and Charges By-law back to at least 2005. The description and definition has varied over the years. In 2005 it stated the following: "Permits outstanding for five years or more and for which there are no records of an inspection being done or requested within the previous year shall be a flat rate of \$200". Since 2015 however, there has been no detailed definition like this, simply a timeline of 3 years which is in the current language of our fees and charges bylaw.

The current CBO has indicated that he sees no evidence of it ever being charged in the past by prior CBO's and further, that until 2025, he had not charged this fee. That being said, administration is of the opinion that if the fee is in place, it should be charged; alternatively, if there is no need for the fee, it should be removed.

The CBO has expressed that the two main challenges in implementing this fee are as follows:

- Due to lack of documentation on many outstanding permits, the Municipality can not in fact determine if the permits are open or in fact where closed but not properly documented. Many permit holders have indicated that the permits were closed by previous CBO's. Some have notes to support this and some do not, in either case our records are inconclusive. In these cases, the CBO has accepted the facts from the permit holder.
- Many of the open permit holders have been working on their permit/project for longer than 3 years but have been in regular contact with regard to scheduling inspection when required and in contact at least once per year to verify. The CBO has not interpreted these situations as "Inactive".

In the case of the first situation, I do find this to be an acceptable/reasonable reason to not charge the Inactive Permit Fee. The reality in this case is that our poor record management in the past should not cost the permit holder. Further to that, pressing to charge the fee could result in challenge by the property owner which we would undoubtedly lose.

With respect to the second reason, the interpretation is consistent with the approach of the generally accepted definition with respect to “Inactive Permits” in the province of Ontario (although the term is not defined in the Ontario Building Code). Regardless of what the common interpretation of the “Inactive Permit” definition is, it is not consistent with the content of the Municipality of Whitestone Fees and Charges Bylaw, Bylaw 25-2025.

For the purposes of this report, I have asked the CBO to answer these questions and provide some of the statistics based on the full calendar year (despite the Council resolutions being after the first quarterly report). Reporting these statistics on a full year basis is more appropriate rather splitting years (for three-year-old permits) based on partial years. I have asked the CBO to account for and answer the outstanding questions from Council, below.

How many Inspections were done in 2025 for Permits over 36 months and still open?

- The total number of Inspections/Site Visits conducted between January 1st, 2025 and December 31st, 2025 for Permits issued within and prior to the year 2021 was **97**.
- Please note that a single Site Visit may have included multiple inspections.

How many \$200 Invoices were issued related to Inspections for Permits over 36 months per Resolution 2025-119?

- Of the **97 Inspections/Site Visits** conducted in 2025 for Permits issued within and prior to 2021, the total number of \$200.00 Inactive Permit Fee charges that were issued was **6**.
- It is important to note that the \$200.00 Inactive Permit Fee was **not charged** in cases where,
 - a) The Building Permit was still active with regular inspection being requested and conducted. – **33 Permit Files**
 - b) Inspections conducted for older Permits while already on site for Inspection for separate Permit. – **15 Permit Files**
 - c) Permits where the lack of information and record keeping by the Municipality resulted in uncertainty with regards to the Permit status, therefore an Inspection/Re-Inspection was required. – **35 Permit Files**
 - d) Extenuating circumstances such as health issues, financial issues, etc. that delayed the construction of the project. – **8 Permit Files**
 - e) Situations where it was determined after extensive investigation that a Final Inspection had been conducted however the Permit File was never formally

closed and MPAC was not updated. In these cases a Site Visit/Inspection was not conducted however the Permit File was formally closed and MPAC was provided with complete and up-to-date information.

- Of the 264 Permit Files from within and prior to the year 2021 that were closed in 2025, 211 Permit Files fall into this category.

How many Building Permits were closed for Permits issued up to 2021 that were still open at the time of Resolution 2025-119?

- Of the 341 Building Permit Files closed in 2025,
 - 87 pre-date 2010
 - 177 are from between 2010-2021
 - 77 are from between 2022-2025

- In addition to the 2025 statistics listed above, an additional 102 Permit Files from the years 2011-2014, 2016, 2017, & 2020 have been closed in **2026**, which is reflected below.
 - **2011:** 4 Permit Files
 - **2012:** 37 Permit Files
 - **2013:** 40 Permit Files
 - **2014:** 18 Permit Files
 - **2016, 2017, & 2020:** 3 Permit Files

How many letters were issued in regards to Resolution 2025-119 related to Permits over 36 Months old that are still open?

- As of March 31st, 2025, 178 Permits were determined to be open that were issued between the years of 2010-2021 with the exclusion of the years 2012, 2013, & 2014. **115 Open Permit Letters** were drafted and sent to Applicants/Property Owners in the year 2025.

- Open Permit Letters were **not sent** to Applicants/Property Owners in situations where,
 - An Inspection was recently conducted and both the Applicant and Municipality were aware of the open status of the Permit.
 - Applicants/Property Owners whom had reached out to the Municipality with regards to their open Permit prior to the drafting of an Open Permit Letter.

How many notices have been posted on properties or Permits revoked for not closed Permits By December 31 2025 as per Resolution 2025-119, since January 1, 2026?

- While the Council Resolution does state that a permit “can” be revoked, this is one possible outcome when circumstances warrant according the BCA. To clarify, the number of Orders issued or Permits Revoked related to Resolution #2025-119 is zero (0). The focus has been to try to close permits.

I believe that the information above does summarize what was done with respect to Council's position on the matter and the resolutions of Council.

Council and Administration would recognize that the action was not entirely consistent with direction in 2025. There are some circumstances where that difference is reasonable and justified, but I also believe some errors were made in the handling of the file(s). Council have requested a plan with respect to how best to handle this issue moving forward and as such I have a recommended course of action which I think will better formalize how open permits are handled in the future, how they are charged consistent with our By-law and how they are reported back to Council for information purposes.

Notification to permit holders with Open Permits:

Based on the Q4/Year End Building Permit Statistics, the CBO/Admin will insure that all property owners with open permits will be issued correspondence/notice prior to the end of the first quarter. This process will be done each year and will cover all permits beyond the 3-year timeline. The correspondence will include the requirement to address the permit before the end of the year and the potential consequences of not closing the permit and also the approved fees associated. Issuing this correspondence near the start of the year should be much more effective in terms of working with the permit holder through the building season to close the permit.

In order to clear up the issue of interpretation of the rates with respect to the "Inactive Permit" and also to implement an incentive to closing permits, I suggest that changes be made in the language of the Fees and Charges Bylaw "Schedule X" be amended to include better language with reference to the timing of inactive permits and the introduction of a maintenance fee to be charged yearly for any permit that is not closed within a 5-year timeline. The fees for both inactive permits and for the yearly maintenance fee will vary depending on the type of permit, with the inactive fee to be charged in situation that meet the definition of inactive within the 5-year timeline and then after the 5-year timeline a yearly fee (double the inactive fee) would be charged. The suggested language is as follows:

Inactive Permit Fee

Commercial Permit	\$250
Dwellings & Additions	\$200
Accessory Structures	\$150
Decks and Docks	\$100

Mandatory fee upon occurrence

Definition – A permit is inactive if no inspections have occurred or been requested for a 1-year period

Maintenance/Extension Fee

Commercial Permit	\$500
Dwellings & Additions	\$400
Accessory Structures	\$300
Decks and Docks	\$200

Mandatory fee upon occurrence

Definition - A permit that requires longer than five (5) years to complete is subject to a yearly fee

I believe this language change accomplishes the direction of Council, leaves nothing to interpretation and also established the fact that this is a mandatory fee when the permit holder exceeds the defined timelines.

Further to this, in the interest of transparency, moving forward a basic accounting of these fees being charged will be provided in the 4th Quarter/Year End report supplied by the Chief Building Official each year and will be reconciled to the number of permits closed.

Respectfully submitted by:



Nigel Black
CAO/Clerk

Attachment A – General Comments Regarding Open Building Permits - CBO

CBO - General Comments regarding Open Permits:

Since the introduction of the first Building Code Act, all Ontario municipalities have faced the dilemma of open permits. The Building Code Act (BCA) or the Ontario Building Code (OBC) does not have a mechanism in place to force individuals to complete a project in a given time period. In 2012, the OBC implemented the requirement for an Occupancy Permit for habitable buildings (dwellings/cottages) prior to occupying them and clarified that it is the owner's responsibility to schedule a Final Inspection when the project is complete. The requirement for an Occupancy Permit does not apply to incidental/accessory structures such as docks, garages, sheds etc.

Many of these permits remain open due to the fact that the OBC only specifies the requirement for an Occupancy Inspection (and as of 2012 an Occupancy Permit) whereas the BCA does not specify *when* someone must give notice that the building/project has been completed (Final Inspection). The BCA only states that upon request for a Final Inspection the Building Department must conduct the inspection within 10 business days.

Some common reasons for the lack of Final Inspection Requests include:

1. New Owners not obtaining a Municipal Records Search when purchasing a property.
2. Owners not knowing the benefit of completing a Permit. (insurance purposes)
3. Owners not knowing a Final Inspection hasn't been completed. (contractor states that the project is complete and leaves the site once having been paid in full)
4. Intentionally not getting a Final Inspection to avoid assessment to save money on property taxes. (common misconception as MPAC checks construction status of projects regularly and updates assessments upon finding buildings occupied)

The Building Department monitors/tracks the number of Permits issued and compares that to the number of Permits closed. The department works to ensure that, at a minimum, these figures balance so that the number of open Permits does not increase.

While reviewing new Permit Applications and property roll files, if it is discovered that an open Permit exists, the Building Department will notify the owners of the situation and remind them to close the Permit, which can usually be done while inspections are conducted for the new project. This is not a requirement under the BCA but is done as a customer service initiative. This provides the owners with an opportunity to have their projects inspected in order to close their Permits and essentially clear their land title.

Since 2022, the number of Permits closed annually has usually surpassed the number of Permits issued due mostly to the additional efforts made by the Building Department.

2022: 123 Permits Issued / 103 Permits Closed

2023: 98 Permits Issued / 190 Permits Closed

2024: 107 Permits Issued / 263 Permits Closed

2025: 111 Permits Issued / 341 Permits Closed

With the available resources, due diligence is being shown by the Chief Building Official in their proactive efforts to keep open Permit levels manageable using the regulatory provisions that are afforded by the BCA and the OBC.

This will happen more quickly than before with the introduction of an Open Permit Annual Maintenance Fee and the ever-increasing proactive approach the CBO has taken.

BY-LAWS

THE CORPORATION OF THE MUNICIPALITY OF WHITESTONE
By-law No. 13-2026

Being a By-law to amend By-law No. 07-2018 (the Zoning By-law) for the property located on Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake (Rootham-Roberts)

WHEREAS the Council of the Municipality of Whitestone has the authority to enact Zoning By-laws under Section 34 of the *Planning Act*, R.S.O. 1990;

AND WHEREAS the Council of the Municipality of Whitestone deem it appropriate and necessary to rezone the subject lands;

AND WHEREAS the Council of the Municipality of Whitestone has determined that no further notice is required in accordance with Section 34(17) of the *Planning Act*, R.S.O. 1990;

NOW THEREFORE the Council of the Municipality of Whitestone hereby enacts as follows:

1. That Schedule 'A', Sheet No. 3 of 22, of By-law No. 07-2018 as amended is hereby further amended by rezoning Part of Lot 24, Concession 7, geographic Township of Burton, and municipally known as 9087 Bolger Lake, from the Waterfront Residential 1 – Limited Services (WF1-LS) Zone to the Tourist Commercial Exception 5 (C2-5) Zone, as shown on Schedule A attached to this By-law.
2. That Section 9.04.5 Tourist Commercial Exception 5 Holding (C2-5(H)), be added in accordance with the following:
 - a) Notwithstanding the requirements of this By-law, only the following uses are permitted on the property located at **9087 Bolger Lake**.

Principle Uses

- Marina
- Vehicle and trailer parking
- Boat storage

Ancillary Uses

- Dwelling
- Accessory uses

- b) The Holding 'H' suffix and the provisions relating to the restrictions attributed to the symbol will be removed upon: (i) the completion of a Fish Habitat Assessment to the satisfaction of the Municipality prior to the construction of any in-water structures on the shoreline.
3. This By-law shall take effect and come into force in accordance with Section 34 of the *Planning Act*.
4. **THAT** By-law No. 13-2026 being a By-law to amend By-law No. 07-2018 (the Zoning By-law) is hereby passed this 17th day of March, 2026.

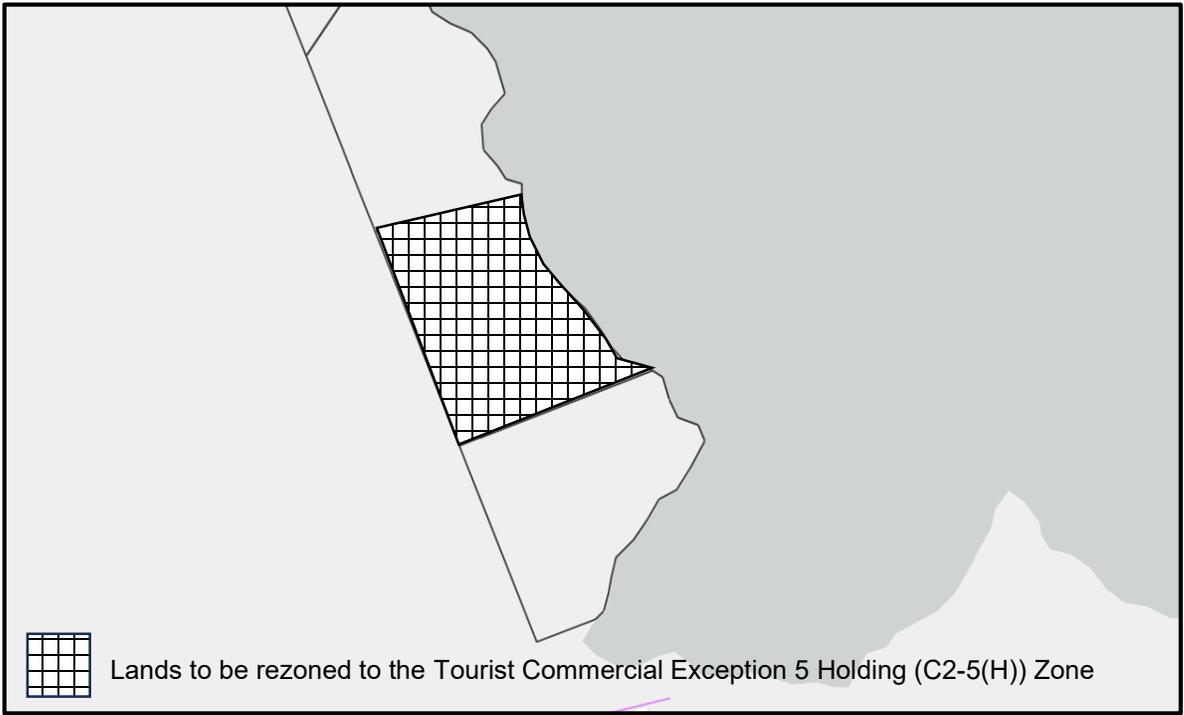
 Mayor

 George Comrie

 CAO/Clerk

 Nigel Black

Schedule A to By-law 13-2026



BUSINESS MATTERS

ROMA Conference – January 18 – 20, 2026

The Roma Conference ran from Sunday, January 18 to Tuesday January 20th. There were a variety of workshops and plenary sessions and a tradeshow available.

Concurrent Sessions and Workshops:

A. Exercise Cold Front – Strengthening Provincial-Municipal Coordination During an Ice Storm Ministry of Emergency Preparedness and Response

This workshop focused on:

- enhancing awareness of the potential impacts of an ice storm on the power supply and system
- Promoting information on current planning and coordination efforts at the Ministry level
- Exploring ways to identify and advance opportunities to strengthen preparedness and interagency collaboration.

We were at tables of 8 and at our table was the mayor and deputy mayor of Orillia who had just gone through a devastating ice storm in April 2025.

Takeaways:

- The importance of tabletop exercises
- Having a good communication strategy, everyone staying to the same script
- Everyone knowing their role in an emergency
- Identifying hazards ahead of time, identifying vulnerable populations
- know your community resources and partners – keep lists and information updated

B. Leveraging New Opportunities to develop Housing in Rural Ontario

Panel Discussion – Takeaways:

- Make sure our OP and by-laws allow for flexibility in types of housing – tiny homes, secondary suites, co-habitation etc.
- Look for opportunities to collaborate with community partners, existing programs, builders and developers, economies of scale, innovative approaches

C. Best Practices from Rural Community Safety and Wellbeing Plans

Panel Discussion – Takeaways:

- Community Safety and Wellbeing Plans need to be reviewed every 4 years
- This year is the first review since they had to be into the Ministry of the Solicitor General
- There are Ontario and Federal resources that can be utilized to help with the review and updating of the plans

D. Jobs, Families, and Care Close to Home: The Case for Rural Long-term Care

The Ontario Long-term Care Association (OLTCA) represents nearly 70% of the province's long-term care homes and the full mix of ownership - small, medium and large, private, not-for-profit, municipal, hospital, culturally specific, and First Nations homes.

Seniors requiring long-term care have highly complex needs that cannot be met at home:

- 87% need extensive support with activities of daily living, like getting dressed and eating meals.
- 75% have moderate to severe cognitive impairment requiring specialized supports
- On average, they have nearly 6 comorbidities and enter long-term care with 11 medications

Ontario LTC Profile:

- 609 Homes
- 77,013 spaces
- Median wait time for a bed 165 days
- Number on the waitlist – 50,379 (Sept 25)
- Nearly 200 LTC homes in Ontario need redevelopment to stay open
- 1 in 5 seniors over 80 have complex needs that require long-term care
- 73% are admitted directly from hospital

Learning lunches:

E. Overview of how Hydro One Restores Power After Outages

- Emergency Preparedness
- Provides workshops on coordinated response with CEMC's
- How they stay prepared:
 - Monitor weather systems and use outage prediction tool to predict outages within our service territory
 - Proactively mobilize & coordinate crews to safely respond to weather events
 - Decide if resources need to be moved, alert mutual assistance and contractors
 - Ensure our response structure is ready

What the restoration priorities are:

1. transmission lines
2. transformer stations
3. distribution stations
4. distribution lines
5. pole mounted transformers
6. homes

Transportation Corridors

1. Ontario Highways
 2. County roads
 3. Municipal roads
 4. Private roads and driveways
- Step by step restoration process
 - Call is reported
 - Customer Care Inputs Call
 - Control Center Triages
 - Local Area Dispatches Call
 - Understanding Estimated Time for Restoration (ETR)
 - Customer calls in
 - Location based ETR provided which is the average time in that area that they think it will be restored
 - Crew updated ETR based on the actual assessment of the crew on scene

F. Other Sessions:

We heard from Premier Doug Ford, NDP Leader Marit Stiles, Green Party Leader Mike Schreiner, and Liberal MPP Ted Hsu during the plenary sessions. The Minister of Municipal Affairs & Housing Rob Flack and Minister of Rural Affairs Lisa Thompson also spoke.

There were 2 Ministers Forums: the first one was focused on finance, infrastructure and economic growth; the second one was on health, social housing and social services.

The conference concluded with a previously unannounced presentation by the Federal Minister of Housing, Gregor Robertson, who spoke enthusiastically about innovations in housing delivery, including modular housing.

G. Our Delegation With MECP:

On Tuesday afternoon, we met with Parliamentary Assistant to the Minister of Environment, Conservation and Parks, MPP Andrew Dowie, who was accompanied by several Ministry staffers. We indicated that we were seeking their advice on whether a proposal to establish a wilderness provincial park direction within the bounds of our Municipality would be considered, and if so, how best to proceed to develop it.

We didn't get a clear answer as to the criteria they would use to evaluate such a proposal, but were encouraged to come back with something more substantive, including details of the area to be included and what amenities would be included. The Director of Parks Ontario, Jason Travers (who was in the meeting), was agreed to be our contact for further consultations.

We did learn that the Bigwinds Lake Provincial Park had been designated previously as an (inactive) park prior to the recent announcements, which simply had the effect of (re)activating it for further development as a wilderness park. That said, the clear intention of Mr. Dowie's Bill 26 was to facilitate the development of more provincial parks, and of more diversity in types and locations of parks.

So the ball remains in Whitestone's court. Should Council wish to pursue this initiative, we recommend that a small working group be appointed to further develop the proposal.

Councillor Janice Bray
Mayor George Comrie

March 17th, 2025



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SNOED



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MEMORANDUM

To: Mayor and Council
From: Wendy Schroeder, Deputy Clerk
Date: March 17 2026
Re: **Resolution of Support – South River – Firefighter Certification**

Background

At the February 17, 2026 Council meeting, a resolution of support from South River was to be brought back to the March 17 Council meeting with a recommendation to support South River's opposition to the implementation of Ontario Regulation 343/22. This regulation establishes mandatory firefighter certification requirements.

Fire departments that rely on volunteers face specific and significant challenges. Training in localized fire-related calls maximizes the effectiveness of our training while minimizing the burden on volunteer members. A provincially standardized certification model threatens the fire department's ability to sustain service levels.

Attachments:

Attachment A – South River letter and resolution regarding standardized firefighter certification

Jon Pegg
Fire Marshal of Ontario
Office of the Fire Marshal
25 Morton Shulman Avenue
Toronto, ON M3M 0B1

Dear Fire Marshal Pegg:

Subject: Request for Revocation or Exemption from Mandatory Firefighter Certification Requirements (O. Reg. 343/22)

On behalf of the Council of the Village of South River, I am writing to convey our serious concerns regarding the mandatory firefighter certification requirements established under Ontario Regulation 343/22.

Council has passed the attached resolution formally opposing the implementation of this regulation. While we fully support the importance of firefighter training and safety, O. Reg. 343/22, as currently written, does not reflect the realities or capacities of small, rural, and northern fire departments that rely heavily on volunteer members.

Our community, like many others in rural Ontario, depends on volunteer and composite fire departments that already face significant challenges related to recruitment, retention, training accessibility, and financial limitations. Specifically, we continue to experience:

- Geographic barriers and long travel distances to accredited training facilities;
- Limited access to qualified instructors and scheduling opportunities;
- Restricted municipal budgets and competing infrastructure and operational priorities;
- Ongoing difficulty retaining and replacing volunteer firefighters amid growing regulatory demands.

The South River–Machar Fire Department already trains diligently to meet the specific needs identified in our Community Risk Assessment. Our programs are targeted, efficient, and focused on the hazards most relevant to our residents. This localized approach maximizes the effectiveness of our training while minimizing the burden on our volunteer members, who balance full-time employment with their commitment to public service.

Our firefighters are already well-trained, competent, and safety-focused. The loss of flexibility that comes with a provincially standardized certification model would threaten our ability to sustain service levels. Imposing rigid certification requirements risks reducing the availability of services in our area, which could increase public risk rather than reduce it.

For these reasons, the Council of the Village of South River respectfully requests that the Province revoke O. Reg. 343/22 in its entirety. Should revocation not be considered, we strongly

urge the Ministry to implement broad exemptions for small, rural, and northern municipalities that do not have the financial or logistical capacity to meet the regulation as written.

In addition, we request that the Office of the Fire Marshal and the Ministry of the Solicitor General:

- Revoke O. Reg. 343/22, or alternatively, provide immediate and ongoing exemptions for rural and northern municipalities;
- Develop a more flexible, risk-based framework that recognizes locally determined levels of service aligned with each municipality's Community Risk Assessment; and
- Increase funding and training supports for volunteer and composite fire services outside major urban centres.

We believe a one-size-fits-all regulatory approach is neither fair nor practical and will have unintended negative consequences for smaller communities. We urge the Province to consult directly with rural and northern municipalities to establish a more balanced and sustainable solution.

Thank you for your attention to this important matter. The Village of South River welcomes the opportunity to participate in future discussions or working groups aimed at ensuring firefighter safety while maintaining viable local fire protection services.

Sincerely,

CC:

The Honourable Michael Kerzner, Solicitor General – michael.kerzner@ontario.ca

The Honourable Doug Ford, Premier of Ontario – premier@ontario.ca

The Honourable Greydon Smith, MPP, Parry Sound-Muskoka – graydon.smith@pc.ola.org

Association of Municipalities of Ontario (AMO) – amo@amo.on.ca

Federation of Northern Ontario Municipalities (FONOM) – admin@fonom.org

All Ontario Municipalities

Subject: Opposition to Mandatory Firefighter Certification – O. Reg. 343/22

WHEREAS Ontario Regulation 343/22 mandates that firefighters performing specific fire protection services be certified to a prescribed standard by July 1, 2026, with certain technical rescue disciplines requiring certification by July 1, 2028;

AND WHEREAS many fire departments in Ontario are staffed predominantly by volunteer firefighters who balance full-time employment with their emergency service commitments;

AND WHEREAS the certification programs are still under development, and current availability does not adequately reflect the operational realities of volunteer fire departments—particularly in rural communities—where training opportunities are limited and certification demands place undue pressure on personnel and municipal resources;

AND WHEREAS existing training programs and established level of service are designed to meet the needs identified in the current Community Risk Assessment and ensure the continued safety of the community;

AND WHEREAS it is unreasonable to expect volunteer firefighters—who already balance full-time employment and community service—to independently develop curriculums and in-house training programs that meet provincial standards and adequately prepare them for certification exams;

AND WHEREAS these mandatory certification requirements pose significant challenges for small, rural, and northern municipalities due to limited financial and training resources, geographic barriers, and reliance on volunteer fire departments;

AND WHEREAS the implementation of these requirements, without additional flexibility or provincial support, may negatively impact the Village’s ability to recruit and retain volunteer firefighters and to provide adequate fire protection services to its residents;

NOW THEREFORE BE IT RESOLVED THAT Council for the Corporation of the Village of South River formally opposes the mandatory firefighter certification requirements as currently outlined in Ontario Regulation 343/22;

AND BE IT FURTHER RESOLVED THAT a copy of this resolution be forwarded to the Honourable Premier of Ontario, the Minister of the Solicitor General, the Ontario Fire Marshal, the Association of Municipalities of Ontario (AMO), and all neighbouring municipalities for their support.



MEMORANDUM

To: Mayor and Council
From: Nigel Black CAO/Clerk
Date: March 17, 2026
Re: **Belvedere Heights – Request for Funds**

Background

In 2024, Belvedere Heights requested the return of funds that had been distributed back to all municipal partners in May 2021. At that time, Whitestone received \$42,850, as the Long-Term Care Act permitted Belvedere Heights to retain only 15 percent of its total revenue.

When the request was received, a report was made to Council on the subject and included several other matters. Council then voted to not pay this amount and not to include it in the 2025 budget.

Recently Belvedere Heights reached out again, recognizing that this payment was not included in our 2025 budget and requesting consideration for the amount in the 2026 Budget, and further to that, offering options to pay by instalment if desired. The current request is included as Attachment A. The Council Resolution from 2025 is attached as Attachment B.

Attachments:

Attachment A - Belvedere Heights Correspondence
Attachment B – Resolution No. 2025-044 as amended



March 02, 2026

Mayor George Comrie and Council
The Municipality of Whitestone

The Board of Management of Belvedere Heights respectfully requests that Whitestone Council consider a 2026 budget allocation to support the 22 new rooms at Belvedere.

The previously requested amount of \$42,850 was not included in the final 2025 budget. We would ask that you consider at least part of this amount to be included in your upcoming 2026 budget. The total amount could be paid in installments over several budget cycles if that works for you.

We look forward to discussing this matter with Whitestone at your convenience.

Best regards,

A handwritten signature in cursive script that reads 'Pamela Wing'.

Pamela Wing
Board Chair, Belvedere Heights
pwing@carling.ca

cc. Nigel Black, CAO

Belvedere Heights Resolution – return of funds

Resolution No. 2025-044

Moved by: Councillor Nash

Seconded by: Councillor Bray

5.1 (ii) Belvedere Heights Matters

THAT Council agree to return \$42,850 to Belvedere Heights as requested in correspondence dated October 7, 2024 from the Belvedere Height Board of Directors, and that said amount be included in the 2025 Budget.

Amendment proposed by Councillor Nash:

Resolution No. 2025-045

Moved by: Councillor Nash

Seconded by: Councillor Lamb

THAT the word “return” be changed to “pay”.

Recorded vote requested by Councillor Nash

		YEAS	NAYS	ABSTAIN
<u>4</u>	Councillor Bray	X		
<u>1</u>	Councillor Lamb	X		
<u>2</u>	Councillor Nash	X		
<u>3</u>	Councillor Woods	X		
<u>5</u>	Mayor Comrie	X		

Carried

Resolution No. 2025-044 as amended

Moved by: Councillor Nash

Seconded by: Councillor Bray

5.1 (ii) Belvedere Heights Matters

THAT Council agree to pay \$42,850 to Belvedere Heights as requested in correspondence dated October 7, 2024 from the Belvedere Height Board of Directors, and that said amount be included in the 2025 Budget.

Recorded vote requested by Councillor Nash

		YEAS	NAYS	ABSTAIN
<u>3</u>	Councillor Bray	X		
<u>4</u>	Councillor Lamb		X	
<u>1</u>	Councillor Nash		X	
<u>2</u>	Councillor Woods		X	
<u>5</u>	Mayor Comrie	X		

Defeated

Parry Sound Area Planning Board Budget

Revenue		Notes
Whitestone Levy	\$ 10,000.00	\$15,000 total levy; \$5,000 to reserve
McKellar Levy	\$ 10,000.00	\$13,000 total levy; \$3,000 to reserve
Application Fees	\$ 60,000.00	\$49,000 is 2025 actuals; 14 applications with fee increase is \$70,000
HST Recovered	\$ 7,800.00	
Transfer from Reserve	\$ 89.00	
TOTAL	\$ 87,889.00	
Expenses		
Board Fees	\$ 1,880.00	\$117.50/mtg x 2 members x 8 mtgs
Consulting Fees	\$ 70,000.00	
Office Supplies	\$ 1,214.84	
Rent	\$ 3,974.16	
Memberships	\$ 1,000.00	WPSGN decrease
Audit, Legal, Accouting	\$ 4,200.00	
Insurance	\$ 4,300.00	
Phone	\$ 1,100.00	
Bank Charges	\$ 220.00	to keep KCU account in 2026
TOTAL	\$ 87,889.00	
Reserves		
Current Bank Balance	\$ 14,900.00	
Whitestone Levy Portion	\$ 5,000.00	
McKellar Levy Portion	\$ 3,000.00	
Transferred to Operating	-\$ 89.00	
TOTAL	\$ 22,811.00	

CORRESPONDENCE

A - Southgate - Protect our Food Act Bill 21

B - OPP Detachment Board-James Bay East - Establishment of a provincial bail notification program

C - Papineau-Cameron - Expanding enrollment capacity at the Ontario Veterinary College

D - Opposition to the demolition of the Jones Island Rear Lighthouse

**Township of Southgate
Administration Office**
185667 Grey County Road 9, RR 1
Dundalk, ON N0C 1B0



Phone: 519-923-2110
Toll Free: 1-888-560-6607
Fax: 519-923-9262
Web: www.southgate.ca

February 20, 2026

Re: Township of Southgate – Support for Bill 21, Protect Our Food Act, 2025

Please be advised that at the February 18, 2026, regular Council meeting, the Council of the Corporation of the Township of Southgate, approved the following:

No. 2026-073

Moved By Councillor Shipston

Seconded By Councillor Ferguson

WHEREAS arable land is a critical finite resource; and

WHEREAS Ontario loses as much as 319 acres of farmland a day; and

WHEREAS Ontario’s farmland provides food, fiber and fuel to all of Ontario and beyond;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Township of Southgate support Bill 21, Protect Our Food Act, 2025 and strongly urges the provincial government to support this and every measure to protect our farmland, to aggressively prevent further losses and to ensure the future of agriculture in Ontario for future generations; and

That a copy of this resolution be sent to the Premier of Ontario, the Minister of Agriculture, Food and Agribusiness, the Minister of the Environment, Conservation and Parks, the Minister of Municipal Affairs and Housing, the Minister of Economic Development, Job Creation and Trade, MPP Paul Vickers, Senator Rob Black, the Ontario Federation of Agriculture, the Association of Municipalities of Ontario, and all Municipalities in Ontario.

If you have any questions, please contact our office at (519) 923-2110.

Sincerely,

Lindsey Green, Clerk
Township of Southgate

CC: Honourable Doug Ford, Premier of Ontario
Honourable Trevor Jones, Minister of Agriculture Food and Agribusiness
Honourable Todd McCarthy, Minister of the Environment, Conservation and Parks
Honourable Rob Flack, Minister of Housing and Municipal Affairs
Honourable Victor Fedeli, Minister of Economic Development, Job Creation and Trade
MPP Paul Vickers – Bruce – Grey – Owen Sound
Senator Rob Black
Ontario Federation of Agriculture
Association of Municipalities of Ontario
Municipalities in Ontario

OPP DETACHMENT BOARD-JAMES BAY EAST

Cassandra Child, AOMC, Dipl.M.A. – Secretary-Treasurer

171 Fourth Avenue

Cochrane, Ontario, Canada, P0L 1C0

T: 705-272-4361 | F: 705-272-6068

E: cassandra.child@cochraneontario.com**OFFICE OF THE SECRETARY/TREASURER OPP DETACHMENT BOARD-JAMES BAY EAST**

February 20, 2026

VIA EMAIL

The Honourable Michael Kerzner
Solicitor General
Ministry of the Solicitor General
25 Grosvenor Street, 18th Floor
Toronto, ON M7A 1Y6

The Honourable Zee Hamid
Associate Solicitor General for Auto Theft and Bail Reform
Ministry of the Solicitor General
25 Grosvenor Street, 18th Floor
Toronto, ON M7A 1Y6

MPP John Vanthof
Pinewood Centre, Unit 5
247 Whitewood Avenue
New Liskeard, ON P0J 1P0

Dear Leaders,

On behalf of the OPP Detachment Board – James Bay East I am pleased to offer this letter in strong support of Victim Crisis Assistance Ontario (VCAO) agencies across the province and the development of a coordinated Provincial Bail Notification Program.

VCAO organizations are essential partners in community safety and well-being. They provide immediate, trauma-informed support to individuals and families affected by crime and tragic circumstances, often at the most vulnerable moments in their lives. Their staff and volunteers work closely with police services to ensure survivors receive timely safety planning, crisis intervention, and connections to critical supports. This partnership enhances our ability to respond effectively, reduces risk, and strengthens trust with those we serve.

Timely and reliable bail notification is a vital component of victim safety. The current system is inconsistent across jurisdictions and leaves survivors at risk when they are not informed of release conditions or bail decisions that may impact their safety planning. A province-wide bail notification program, led in partnership with VCAO agencies, will ensure victims receive clear, coordinated, and rapid notification, regardless of where the offence occurred or where the accused is released. This is not only a matter of safety but also an essential part of ensuring victims' rights, dignity, and confidence in the justice system.

The OPP Detachment Board- James Bay East fully supports:

1. Strengthened investment in VCAO agencies, recognizing them as critical frontline partners in community safety and in supporting survivors of crime.

2. A standardized, province-wide bail notification system, designed in partnership with police services, VCAOs, and justice partners to promote timely communication, reduce risk, and improve outcomes for victims.
3. Ongoing collaboration between police and VCAO, including shared training, coordinated response models, and information pathways that improve both public safety and victim care.

VCAO agencies deliver high-quality services that directly complement police response. A provincial bail notification program will further enhance our collective ability to keep communities safe and uphold the rights of survivors. We urge the Government of Ontario to move forward with the development, implementation, and sustainable funding of this program.

Thank you for your consideration. The OPP Detachment Board-James Bay East is committed to working collaboratively and constructively with our VCAO partners and with provincial ministries to support this important and urgently needed initiative.

Yours truly,

OPP DETACHMENT BOARD-JAMES BAY EAST



Cassandra Child, AOMC, Dipl.M.A.
Secretary/Treasurer

/crc

c.c.

All Ontario municipalities
All Ontario OPP Detachment Boards



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C

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E-mail: admin@papineaucameron.ca Website: www.papineaucameron.ca

February 26, 2026

The Ontario Veterinary College
50 Stone Road East
Guelph, ON N1G 2W1

RE: Ontario Veterinary College expansion of enrollment capacity

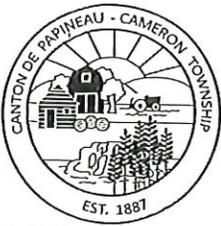
The Council of The Corporation of The Township of Papineau-Cameron met at their Regular Council Meeting on February 24, 2026 and passed the attached resolution 2026-50 that relates to the Ontario Veterinary College's enrollment capacity.

Yours truly,

Venessa Wilson
Administrative Assistant

Encl: Resolution 2026-50, Township of Papineau-Cameron

Cc: The Ontario Ministry of Agriculture, Food and Agribusiness
The Canadian Veterinary Medical Association
The Honorable Victor Fedeli, MPP, Minister of Economic Development, Job Creation and Trade
The Honorable Trevor Jones, MPP, Minister of Agriculture, Food and Agribusiness
The Honorable Nolan Quinn, MPP, Minister of Colleges, Universities, Research Excellence and Security
Association of Municipalities of Ontario
All Ontario Municipalities



THE CORPORATION OF THE TOWNSHIP OF PAPINEAU-CAMERON

4861 Highway 17, P.O. Box 630, Mattawa ON P0H 1V0
Office: (705) 744-5610 • Fax: (705) 744-0434 • Garage: (705) 744-5072
Website: www.papineaucameron.ca

DATE: February 24, 2026

RESOLUTION NUMBER: 2026-50

MOVED BY:

Shelley Belanger

SECONDED BY:

M Chenier

WHEREAS large animal livestock owners in Northern Ontario have extremely limited access to large animal veterinary services;

AND WHEREAS the cost of large animal veterinary services in Northern Ontario is significantly higher due to long travel distances and the limited number of large animal veterinarians available to service the region;

AND WHEREAS it has come to the attention of the Council of Papineau-Cameron Township that three qualified individuals within our community have applied to the Ontario Veterinary College for large animal veterinary, but were denied admission due to limited enrollment capacity;

THAT the Council of Papineau-Cameron Township formally requests that the Ontario Veterinary College, the Ontario Ministry of Agriculture, Food and Agribusiness, and the Canadian Veterinary Medical Association consider expanding enrollment capacity at the Ontario Veterinary College to allow more qualified applicants to pursue certification as large animal veterinarians.

AND FURTHER THAT a copy of this resolution be forwarded to the Ontario Veterinary College, the Ontario Ministry of Agriculture, Food and Agribusiness, the Canadian Veterinary Medical Association, the Hon. Victor Fedeli MPP Minister of Economic Development, Job Creation and Trade, the Hon. Trevor Jones MPP Minister of Agriculture, Food and Agribusiness, the Hon. Nolan Quinn MPP Minister of Colleges, Universities, Research Excellence and Security, Association of Municipalities of Ontario, and Ontario Municipalities for their consideration and support.

CARRIED:

Robert Corriveau
(Mayor)

NOT CARRIED:

(Mayor)

Recorded Vote (Upon Request of Councillor _____) Section 246 (1) Municipal Act

RECORDED DIVISION VOTE	YES Signature	NO Signature	ABSTAIN Signature
Mayor Robert Corriveau			
Deputy Mayor Shelley Belanger			
Councillor Keith Dillabough			
Councillor Jason Bélanger			
Councillor Mélanie Chenier			



CORPORATION OF THE TOWNSHIP OF MCKELLAR

DATE: March 3, 2026

RESOLUTION No. 26-090
AGENDA ITEM No. 19.2.

Moved by: Debbie Zulak

Seconded by: M. Moore

WHEREAS the Jones Island Rear Lighthouse is a Recognized Federal Heritage Building and a longstanding navigational landmark within the Georgian Bay region has served as an important symbol of the area's maritime history for over 130 years and is widely recognized by residents, visitors, and local tourism operators throughout West Parry Sound;

AND WHEREAS the Canadian Coast Guard (CCG) has announced plans to demolish the existing structure and replace it with a modular 80-foot metal tower;

AND WHEREAS concerns have been raised that the proposed demolition would result in an irreversible loss to the region and may not align with the spirit and intent of the Heritage Lighthouse Protection Act;

AND WHEREAS community members are requesting that the Federal Government and the Canadian Coast Guard pause demolition plans to allow for meaningful public engagement and a full review of restoration alternatives;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Township of McKellar does hereby support the preservation of the Jones Island Rear Lighthouse;

AND FURTHER THAT Council directs staff to prepare and forward a formal Letter of Support to the appropriate Federal Ministers, the Canadian Coast Guard, and the local Member of Parliament, requesting that demolition plans be paused pending public consultation and the exploration of restoration options, and to circulate copies of this resolution to neighbouring municipalities within the West Parry Sound area for their consideration and support.

Carried

Defeated

Deferred

David Moore
David Moore, Mayor

DIVISION VOTE

	YEA	NAY	ABSTAIN	ABSENT
Councillor Morley Haskim	___	___	___	___
Councillor Mike Kekkonen	___	___	___	___
Councillor Nick Ryeland	___	___	___	___
Councillor Debbie Zulak	___	___	___	___
Mayor David Moore	___	___	___	___

11

2026-January-06



To: Township of McKellar: Mayor Moore and Council

Re: Request for Letter of Support – Preservation of the Jones Island Rear Lighthouse

On behalf of the concerned public advocating for our region’s maritime history, I am writing to formally request a letter of support from the Township of McKellar to prevent the demolition of the Jones Island Rear Lighthouse.

We understand that the Canadian Coast Guard (CCG) has recently announced plans to demolish this structure and replace it with a modular 80-foot metal tower. We believe this action is an irreversible loss to our shared heritage and a violation of the spirit of the Heritage Lighthouse Protection Act.

We have contacted our MP the Honorable Scott Aitchison to gain his support as well as the Ministry of the Environment, Ministry of National Defense, and Ministry of Ocean & Fisheries and will continue to work through these channels to save this iconic landmark.

Many families and friends of West Parry Sound are familiar with this “Recognized Federal Heritage Building”. It is advertised by local municipalities and tourism businesses as a site to visit when out on the Bay.

We ask that the Township of McKellar join us in calling on the Federal Government and the CCG to **pause the demolition plans** to allow for meaningful public engagement and a full review of restoration alternatives. By providing a letter of support, you will help us ensure that this “anchor” of our history remains standing for the next 130 years.

Attached is a **Fact Sheet** for your review. Thank you for your time and for your commitment to protecting our regional identity.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lis McWalter', with a stylized flourish at the end.

Lis McWalter, on behalf of members of the concerned public
mcwalter.lis@gmail.com
416 402-4190

Attachment: Fact Sheet

Attachment

Fact Sheet: The Case for Saving Jones Island Rear Lighthouse, January 2026

◇ **A National Treasure at Risk,**

- Built and put in operation with a light keeper from 1894 to 1991 and is a tangible piece of Canadian history.
- *Unique Heritage:* One of only two remaining combined dwelling-light stations in all of Canada. The only one on an island.
- *Irreplaceable Character:* It's architecture is unique with its wooden tapered tower that rises from the center of a simple roof of the 1.5 story keeper's house.
- It has provided aid to navigation and survived the rugged Georgian Bay weather for over 130 years.
- It facilitated the trade routes that built Northern Ontario's economy.

Destroying this lighthouse erases the physical evidence of our maritime heritage.

◇ **The Threat: "Hollowing Out" Our History,**

- Replacing a 130-year architectural rarity with a modular metal structure is symbolic of a broader failure to protect Canadian culture. At a time when Canadian identity is under significant scrutiny, we cannot afford to bulldoze our few remaining touchstones. This lighthouse is an **anchor** for the local community, First Nations territories, UNESCO territory, and the thousands of tourists who visit Georgian Bay annually.

◇ **Procedural Failures & Legal Concerns,**

- **Violation of Process:** The CCG moved toward demolition without the public notice or town hall meetings mandated by the Heritage Lighthouse Protection Act.
- **Lack of Transparency:** Taxpayer money is already being spent designing replacement towers before the public has had the legal right to propose preservation alternatives.
- **Treaty Obligations:** Located in Robinson-Huron Treaty territory, any changes to this land require meaningful consultation with First Nation partners.
- **Sustainable Development:** Located in the UNESCO-designated Georgia Bay Mnídoo Gamii Biosphere Reserve which mandates sustainable development. The CCG plan is "waste-heavy/carbon release" and disturbs a sensitive island ecosystem, whereas restoration utilizes the embodied carbon of the existing timber structure.

◇ **Economic/Financial Prudence,**

- **False Economy:** Cost of demolition and rebuild requires public transparency.
- **Precedent for Investment:** The Federal Government has successfully restored similar assets, including the Point Clark Lighthouse (\$3.7M), the Burlington Canal Lift Bridge (\$32M), and the Parliament Hill West Block (\$863M). Restoring the Jones Island Rear Lighthouse for roughly \$1 million is a highly cost-effective preservation of national history.
- **Available Funding:** The claim of 'prohibitive costs' for preservation is inconsistent with current Federal spending priorities. The Federal Budget 2025 allocates billions for community infrastructure and green construction. Specifically, the Green Construction

through Wood (GC Wood) Program (\$6 billion) provides a clear funding path for the innovative restoration of historic timber structures.

◇ **Summary,**

- The Federal Government has shown it is willing to spend the money to save Canada's cultural and historic landmarks.
- CCG has an obligation, as the steward of lighthouses to fund the restoration of the Jones Island Rear Lighthouse rather than defaulting to irreversible and wasteful demolition. Specifically,
 - The CCG receives monies (tax dollars) that are allocated to the care and maintenance of navigation light structures from Fisheries and Oceans Canada (DFO).
 - Treasury Board Subsidies help with some historically significant structures.
 - The GC Wood Program
- In the late 1800's the people of the day built the Jones Island Rear Lighthouse, a structure that lasted over 130 years. Certainly, with today's advanced knowledge, skills, and materials, we can revitalize the lighthouse.
- The marine route that was enabled by this lighthouse was instrumental in opening the economy and jobs in northern Ontario and resulting contribution to Canada.
- **We ASK the Federal Government to INVEST in this historical asset, and not pay to destroy it!**

