

**1. CALL TO ORDER & ACKNOWLEDGE FIRST PEOPLES AND TRADITIONAL LAND**

"We respectfully acknowledge that we are on the traditional territory of the Anishinaabe Peoples, in the Robinson-Huron and Williams Treaties areas. We wish to acknowledge the long history of First Nations and Métis Peoples in Ontario and show respect to the neighbouring Indigenous communities. We offer our gratitude for their care for, and teachings about, our earth and our relations. May we continue to honour these teachings"

**2. ROLL CALL**

**3. DISCLOSURE OF MONETARY AND GENERAL NATURE THEREOF**

**4. APPROVAL OF THE AGENDA**

**5. PRESENTATIONS: Lego Robotics Club**

**6. ADOPTION OF MINUTES**

6.1 Regular Council meeting of January 3, 2023

**7. MINUTES AND REPORTS FROM COMMITTEES OF COUNCIL**

7.1 Maple Syrup Festival Committee meeting, December 7, 2022

**8. MINUTES AND REPORTS FROM APPOINTED BOARDS**

**9. STAFF REPORTS**

9.1 Director of Corporate Services/Treasurer – Commercial Garbage Collection Fees

9.2 Deputy Clerk – Cancellation Certificate Request – Chiswick Line

9.3 Memo – Planscape regarding ZBA amendment Peever Line

**10. BY-LAWS**

10.1 By-law 2023-02 Interim Tax Levy

10.2 By-law 2023-03 Temporary Borrowing

10.3 By-law 2023-01 505 Peever Line ZBA

**11. UNFINISHED BUSINESS**

**12. NEW BUSINESS**

12.1 Ontario Clean Water Agency – 2022 Annual Summary for the Powassan Drinking Water System

**13. CORRESPONDENCE**

13.1 Township of Nipissing – Joint Jurisdiction Road and Bridges Municipality of Powassan

**14. ADDENDUM**

**15. ACCOUNTS PAYABLE**

**16. NOTICE OF SCHEDULE OF COUNCIL AND BOARD MEETINGS**

**17. PUBLIC QUESTIONS**

**18. CLOSED SESSION**

18.1 Adoption of Closed Session minutes of December 6, 2022

18.2 Labour Relations -Section 239(2)(d) of the Municipal Act and under 6(1)(d) of the Procedural Bylaw- matters regarding labour relations or employee negotiations.

18.3 Legal-Section 239(2)(f) of the Municipal Act and under 6(1)(f) of the Procedural Bylaw- Advice that is subject to solicitor-client privilege, including communications necessary for that purpose.

18.4 Legal-Section 239(2)(f) of the Municipal Act and under 6(1)(f) of the Procedural Bylaw- Advice that is subject to solicitor-client privilege, including communications necessary for that purpose.

**19. MOTION TO ADJOURN**

The Municipality of  
**Powassan**

**Council Meeting**

**Tuesday, January 3, 2023, at 7:00 pm**

**Powassan Council Chambers**

**Present:** Markus Wand, Deputy Mayor  
 Randy Hall, Councillor  
 Dave Britton, Councillor  
 Leo Patey, Councillor

**Staff:** Kim Bester, Deputy Clerk  
 Brayden Robinson, Treasurer/Director of Corporate Services  
 Terry Lang, IT

**Absent with regrets:** Peter McIsaac, Mayor

**Disclosure of Monetary Interest and General Nature Thereof:**

L. Patey Item 15 – Item mentions employer  
 D. Britton Item 15 – Item mentions employer of spouse

- 2023-01** Moved by: D. Britton Seconded by: R. Hall  
 That the agenda of the Regular Council Meeting of January 3, 2023, be approved with the following addition:  
 14.1 Resolution – Pay Grid – Cost of Living **Carried**
- 2023-02** Moved by: L. Patey Seconded by: D. Britton  
 That the minutes of the Regular meeting of Council of December 6, 2022, be adopted with the following correction:  
 Resolution 2022-351 – is corrected to \$6340.00 instead of \$634.00. **Carried**
- 2023-03** Moved by: D. Britton Seconded by: L. Patey  
 That the minutes of the Maple Syrup Committee meeting dated December 7, 2022, be received. **Carried**
- 2023-04** Moved by: L. Patey Seconded by: D. Britton  
 That the minutes from the Municipal Emergency Management Committee meeting of December 6, 2022, be received. **Carried**
- 2023-05** Moved by: L. Patey Seconded by: D. Britton  
 That the minutes from the Golden Sunshine Municipal Non-Profit Housing Corporation committee meeting of November 22, 2022, be received. **Carried**
- 2023-06** Moved by: R. Hall Seconded by: D. Britton  
 That the minutes from the Powassan Police Services Board meeting, dated December 19, 2022, be received. **Carried**
- 2023-07** Moved by: D. Britton Seconded by: R. Hall  
 That the memo dated December 19, 2022, from Deputy Clerk, K. Bester, regarding funding for the 2023 Maple Syrup Festival, be received. **Carried**

DATE OF COUNCIL MTG.	Jan 17/23
AGENDA ITEM #	6.1

2023-08

Moved by: R. Hall                      Seconded by: D. Britton  
That the memo dated December 22, 2022, from Deputy Clerk K. Bester regarding Zoning By-Law Amendment – Peever Line, be received,

AND FURTHER that a Holding symbol “H” be applied to By-Law 2023-01.

**Carried**

2023-09

Moved by: D. Britton                      Seconded by: L. Patey  
That By-Law 2023-01, being a By-Law to amend By-Law No. 2003-28, as amended, the Zoning By-Law for the Municipality of Powassan with respect to lands located in Lot 18, Concession 16 (505 Peever Line), in the Municipality of Powassan.

To be **READ** a **FIRST** and **SECOND** time this the 3<sup>rd</sup> day of January 2023,

**AND** to be **READ** a **THIRD** and **FINAL** time and considered passed on the 17<sup>th</sup> day of January 2023.

**Defeated**

2023-10

Moved by: R. Hall                      Seconded by: D. Britton  
That By-Law 2023-02, being a By-Law to provide for an interim Tax Levy for 2023,

Be **READ** a **FIRST** and **SECOND** time on January 3, 2023

**AND READ** a **THIRD** and **FINAL** time and considered passed as such in open council on the 17<sup>th</sup> day of January 2023.

**Carried**

2023-11

Moved by: L. Patey                      Seconded by: D. Britton  
That By-Law 2023-03, being a By-Law to authorize temporary borrowing from time to time to meet current expenditures during the fiscal year 2023 and ending December 31, 2023

Be **READ** a **FIRST** and **SECOND** time and considered **READ** a **THIRD** and **FINAL** time and adopted as such in open council meeting this the 3<sup>rd</sup> day of January 2023.

**Carried**

2023-12

Moved by: D. Britton                      Seconded by: D. Britton  
That the correspondence dated December 21, 2022, from Nipissing MPP Vic Fedeli, regarding the Blue Box program be received.

**Carried**

2023-13

Moved by: D. Britton                      Seconded by: L. Patey  
WHEREAS January has been declared National Crime Stoppers Month across Canada; and

WHEREAS the foundation of Crime Stoppers is the partnership between the community, law enforcement and media; and

WHEREAS Crime Stoppers works to educate the public and create awareness on illegal activities in an effort to help promote the Canadian values of safety, empowerment, and inclusion. Creating awareness and mobilizing Canadians in reporting suspicious or criminal activity anonymously requires a network of partners working together for a common end; and

WHEREAS we urge all citizens to celebrate National Crime Stoppers Month.

NOW, THEREFORE, I, Markus Wand, Deputy Mayor of the Municipality of Powassan, do hereby proclaim January as National Crime Stoppers Month.

**Carried**

- 2023-14** Moved by: D. Britton Seconded by: L. Patey  
That the correspondence dated December 22, 2022, from the Minister of Municipal Affairs and Housing, regarding:
- Bill 109- the More Homes for Everyone Act, 2022,  
Bill 23 – More Homes Built Faster, 2022,  
Bill 3 – the Strong Mayors, Building Homes Act, 2022 and  
Bill 39 – the Better Municipal Governance Act, 2022,
- Be received. **Carried**
- 2023-15** Moved by: L. Patey Seconded by: D. Britton  
That the correspondence dated November 25, 2022, from the City of Toronto Clerk’s Office, regarding Bill 23 – More Homes Built Faster Act, 2022, be received. **Carried**
- 2023-16** Moved by: R. Hall Seconded by: L. Patey  
That the correspondence dated December 28, 2022, from the Ministry of Natural Resources and Forestry, regarding legislative and regulation changes affecting conservation authorities, be received. **Carried**
- 2023-17** Moved by: R. Hall Seconded by: L. Patey  
That the correspondence dated December 20, 2022, from the North Bay-Mattawa Conservation Authority regarding their Planning and Development programs and services, be received. **Carried**
- 2023-18** Moved by: R. Hall Seconded by: L. Patey  
That Resolution 2022-232 from the Township of Nipissing dated December 20, 2022, regarding the nomination of a member as Ward 6 Representative to the District of Parry Sound Municipal Association Executive, be received. **Carried**
- 2023-19** Moved by: R. Hall Seconded by: L. Patey  
That Resolution 2022-233 from the Township of Nipissing dated December 20, 2022, regarding the nomination of a member as Representative to the Parry Sound District Social Services Administration Board, be received. **Carried**
- 2023-20** Moved by: R. Hall Seconded by: L. Patey  
That Council approves a 2.5% increase to the 2023 Pay Grid retroactive to January 1, 2023. **Carried**
- 2023-21** Moved by: L. Patey Seconded by: R. Hall  
That the accounts payable listing reports of December 23-26, be approved for payment. **Carried**
- 2023-22** Moved by: L. Patey Seconded by: R. Hall  
That Council now adjourns at 7:42pm.

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Mayor

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Clerk

**POWASSAN MAPLE SYRUP FESTIVAL  
COMMITTEE MEETING MINUTES  
JANUARY 11, 2023**

**Call to order:**

Meeting called to order at 6:02 pm. with the following members in attendance:

Mary Heasman / Monika Gibbings/ Paul Long/ Andy Straughan / Dave Matthews /Roger Glabb /  
Mike Odrowski / Christine Wendover/ Leo Patey / Lori Costello / Sandy Rumford

Guest: Lindsay (Farmer's Market volunteer)  
Municipal staff in attendance: Kim Bester

**Motion to accept the Minutes of the December 7, 2022 meeting- moved by Andy/seconded  
by Mary - carried**

**Business arising from the Minutes - na**

**Presentation –**

Leo provided an overview of what the municipality's involvement/role will be in the festival, as follows:

- The Municipality is very supportive of the efforts of the committee, strongly support the festival and realize its important tourism value to the community.
- General decisions regarding the configuration of the festival (events / attractions, etc.) will be made at the Committee level, and information relied via the minutes to Council.
- Given the financial commitment of the municipality in the festival (estimated to be approximately \$30,000 for staff involvement, etc.), and liability, etc. because the festival takes place within the municipality, there is the need for the municipality to be more involved.
- Both revenue and expense accounts have been set up within the municipality's accounting system. Revenues will be deposited to and expenses paid out of the municipal bank account.
- Any profit or loss sustained by the festival will also be a part of the municipality's annual budget.

**Correspondence – na**

**Maple Producers –**

Matthews Maple Syrup is interested in doing the March 11, 2023 First Tapping event again this year. Matthews to provide Kim with information to promote on the Maple Syrup Festival website. Letters to dignitaries will also be coordinated through the municipal office, as has been the normal practice.

Members were made aware that Mr. Troyer is no longer living in the area and discussed whether or not there were any other local maple producers who might be interested in participating in the festival.

DATE OF COUNCIL MTG.	Jan 17/23
AGENDA ITEM #	7.1

## **New Business –**

Indoor and Kidz Zone Locations – Roger confirmed that the Legion will be partnering with St. Joseph's church CWL to put on a pancake breakfast at the Legion. This location then won't be available to be used for the Kidz Zone.

Kim advised that Indoor vendors cannot be placed in the gym at 250 Clark, but that the Maple Room could be used for the Kidz Zone. Further discussions to take place to determine what options for Indoor Vendors might be if the Sportsplex ice surface is not available.

Musical Entertainment – Musical entertainers to perform from the gazebo in the park on Main Street. Roger to reach out to the business owner who occupies the adjacent property to determine if hydro can be made available to the festival.

Musical entertainers (mostly local) to perform from 10 am to 2:30 pm only. It was suggested that the Opening Ceremonies and subsequent dignitary pancake flipping contest begin at 10 am. Roger to confirm with Patti Fedeli that she will provide pancakes.

3-4 buskers are to be advertised for as well, with the musical coordinator vetting interested parties and allocating specific locations to perform to those interested.

Offsite Parking – The offsite parking lot property owner has been contacted and asked to provide confirmation as to whether offsite parking will be available this year. If offsite parking isn't available, there may not be a need for busing.

Pancake Breakfasts - The Powassan Lions, the Anglican Church, and the Legion-St. Joseph's church groups will be providing pancake breakfasts. The United Church and the Masons will be providing luncheons.

Draft Budget – The budget was reviewed, and several questions asked. Members wanted to see the NECO grant of \$2000 in the budget and to be able to potentially use this money for this year's festival, by possibly increasing the Lumberjack show duration/content and /or the number of Kidz Zone or other entertainers. Members also wanted any subsequent funding received (i.e. if our NOHFC application is successful) also allocated to the budget.

**Motion to accept the budget, with potential revision at a later date to include NECO funding of \$2000 and any NOHFC funding received – Moved by Lori, Seconded by Leo – Carried**

Vendor Update – We have approximately 20 indoor and 12 outdoor vendors who have already submitted their applications and fees. The vendor form has been live on our website for approximately 1 week.

Other –

A site for the Lumberjack show will need to be determined, especially if hockey is still taking place at the Sportsplex. Having the Lumberjack show outside of the Sportsplex has assisted in the increasing the number of people who visit the Indoor Vendors there.

Lori will prepare the letters requesting donations from local businesses, and Roger and Mike will distribute and follow up.

Bernie Penney has agreed to donate his time to prepare this year's program. It was asked that the program contain the full festival name and year on it.

Lindsay, a volunteer with the Powassan Farmer's Market was in attendance at the meeting and has expressed an interest in assisting with the vendor coordinator role. Kim and Lindsay to meet and discuss.

**Motion to end the meeting at 7:15 pm made by Leo, seconded by Mary. Carried**

Next meeting - Wed., February 8, 2023 - Elm Room

Minutes approved by: \_\_\_\_\_  
Roger Glabb, Chair

Recorded by : \_\_\_\_\_  
Kimberly Bester, Secretary

**TO DO LIST:**

Kim/Roger/Leo - Determine options for Indoor vendors.

Kim - Buskers to be advertised for on the festival's Facebook page.

Lori/Roger/Mike - Donation letters to be created and distributed.

Kim - Kidz Zone entertainer(s) to be booked

Kim/Roger - Offsite Parking to be clarified



To: Council  
From: Treasurer/Director of Corporate Services  
Re: Commercial Garbage Collection Fees

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**RECOMMENDATION:**

That the staff report regarding commercial garbage collection fees be received; and that direction be provided with regards to the allocation of subsidized bags for commercial users; and that staff be directed to return a comprehensive draft User Fee By-law for Council consideration with the amendments as noted.

**BACKGROUND AND ANALYSIS:**

At the meeting of December 6, 2022, Council received a report regarding a cost analysis of the commercial garbage collection fees in effect per By-law 2022-08. At that meeting, Council elected to move forward with an amended fee structure for 2023 that would see the commercial collection fees increase incrementally each quarter, to allow businesses the opportunity to improve their recycling practices and reduce waste output.

Based on nine months of collection data currently available, and using the assumptions as previously stated, a revised collection fee of \$19/yd<sup>3</sup> has been computed; marginally less than the \$21/yd<sup>3</sup> as currently in effect. That, plus the \$1.50/bag tipping fee, combines to a rate of \$43/yd<sup>3</sup> or approximately \$2.68 per bag.

As per Council's discussion, to phase this fee in over the four quarters of 2023 the following fee structure would be in place:

- Q1 2023- \$28.75/yd<sup>3</sup>
- Q2 2023- \$33.50/yd<sup>3</sup>
- Q3 2023- \$38.25/yd<sup>3</sup>
- Q4 2023- \$43.00/yd<sup>3</sup>

Staff have been working to develop a public awareness campaign relative to improving recycling practices, and information will be mailed out with the final 2022 billing.

Further direction will be required with respect to the six tax-subsidized bags offered weekly to commercial collection users. There are two unresolved items for discussion:

- At the last meeting, a point was raised regarding changing the weekly bag subsidy to an annual allocation, to accommodate seasonal businesses.
- Certain organizations who participate in the commercial pickup program are classed as 'exempt' in the assessment roll. Consideration should be given to eliminating the subsidized bags for those businesses.

Finally, as staff are going through the process of amending the User Fee By-law for commercial garbage collection, we have also begun to undertake a comprehensive review of all fees contained therein. The new draft By-law will contain a five-year forward looking schedule, to ensure that fees are generally increasing each year in line with inflation. It is our intention to bring a full first draft forward for Council consideration at a February regular meeting.

DATE OF COUNCIL MTG.	Jan 17/23
AGENDA ITEM #	9.1

MEMORANDUM

TO: MAYOR, COUNCIL  
FROM: K. BESTER, DEPUTY CLERK  
RE: ARMSTRONG REQUEST TO NORTH ALMAGUIN PLANNING BOARD FOR A CANCELLATION CERTIFICATE  
DATE: JANUARY 12, 2023

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**Background:**

Mr. Reed owns 2 adjacent lots on Chiswick Line. He wishes to construct a house on one but because of the topography, etc. the driveway to access the residential dwelling would have to be on the adjacent lot that he owns. Access to the residential dwelling would need to be via the 'same' lot, in order for a building permit to be issued. There is a requirement then that the 2 properties are merged (become one).

Mr. Reed's lawyer has advised that they would like to apply for a Cancellation Certificate (of the original Consent application) through the North Almaguin Planning Board.

Our lawyer, Ed Veldboom has provided the following comments:

I have reviewed the documentation. The request for a cancellation certificate would be required to legally merge the properties.

Upon the registration of the cancellation certificates the two parcels (Parcel One being Parts 3, 7, and 10 42R-10490 described in PINs -0096 and -0323 and Parcel Two being Parts 4, 8 and 11, 42R-10490 described in PINs -0094 and -0322) will merge into one legally conveyable parcel. That said due to the fact that some of the lands have the Land Titles Absolute Designation (PINs -0094 and -0096) while the other portions are Land Titles Qualified (PINs -0322 and -0323), this single conveyable parcel (for legal/Planning Act purposes) may still be described in the existing four separate PINS possibly in two PINs (one in Land Titles Absolute and one in Land Titles Qualified). The reason is that the Land Registry/Titles system does not allow consolidation PINs that have two different designations.

**Recommendation:**

That Council directs staff to advise the North Almaguin Planning Board that they are supportive of this approach to merge the 2 lots so that a building permit can be issued for the proposed residential dwelling.

DATE OF COUNCIL MEETING	Jan 17/23
AGENDA	9.2



File #2022-03

January 9, 2023

**Planning Report – BERGER-DEHOOGG, 505 Peever Line, Lot 18, Concession 16**

**Background**

On December 6 and 20th, 2022, public meetings wer held to consider Zoning By-law Amendment application no. 2022-03. The application proposed to rezone the subject lands from Rural (RU) to Rural - Exception Fourteen (RU-14) to permit a ‘Rural Event Venue’ as an additional permitted use on part of the Rural (RU) zoned lands. The application also included a definition of ‘Rural Event Venue’.

Following the completion of the planning report to Council, the Fire Chief provided further comments that raised concerns about the existing driveway and bridge crossing related to the proposed use. The Fire Chief requested that an engineering report be completed to confirm the bridge can adequately support emergency service vehicle access.

The application was deferred following the public meeting and Council direction was provided to prepare a revised By-law that addresses the Fire Chief’s comments.

**Holding (-H) Provision**

Section 36 of the *Planning Act* provides the legislative framework for a municipality to add and remove a Holding provision. A Holding provision is implemented through the application of a Holding (-H) symbol on zone mapping and a Hold cannot be lifted until the detailed requirements of the Holding provisions are fulfilled.

Section 10.1.3 of the Powassan Official Plan permits the application of a Holding provision to restrict the use of lands to existing uses until all engineering plans have been completed. Assessing the structural capacity of an existing bridge to support emergency vehicle access would be included within this requirement. The existing residential use and other uses currently permitted by the RU zone will not be impacted by the Hold.

To address the Fire Chief’s comments, the condition for removing the (-H) Holding symbol requires: The municipality to be satisfied that acceptable emergency vehicle access is available for the Rural Event Venue use.

An application cannot proceed if the conditions cannot be fulfilled to lift the Hold. There is no need to specifically state that an engineering report be provided for the bridge. Satisfying the municipality that acceptable emergency vehicle access can be provided is the key requirement. Using more general wording related to access provides the applicant and municipality with more flexibility to fulfill the condition and

lift the Hold. For example, if the existing bridge was found to be deficient there would be no need for an engineering report if a new bridge was designed and built to a standard acceptable to the municipality.

### Removing the Hold

The (-H) holding provision can be removed from the subject lands once the conditions of the Holding provision are fulfilled. A formal public meeting is not required to lift the Hold, however notice of Council's intention to lift the Hold must be given to all land owners similar to a Zoning By-law Amendment. The municipality is obligated to lift the Hold if the conditions are fulfilled, and only the applicant has the right to appeal Council's lack of decision to lift the Hold.

Respectfully Submitted,

### **PLANSCAPE INC.**



Rian Allen M.Sc., MCIP, RPP  
Planning Consultant

**THE CORPORATION OF THE MUNICIPALITY OF POWASSAN**

**BY-LAW NO. 2023-02**

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Being a By-law to provide for an interim Tax Levy for 2023

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**WHEREAS** a local municipality, before the adoption of the estimated for the year under section 317 of the Municipal Act, 2001, S.O. 2001, c.25, may pass a by-law levying amounts on the assessment of property in the local municipality ratable for local municipal purposes; and

**WHEREAS** the amount levied on the property shall not exceed 50 percent of the total amount of taxes for municipal and school purposes levied on the property for the previous year;

**NOW THEREFORE** the Council of the Corporation of the Municipality of Powassan enacts as follows:

1. That an interim tax rate be imposed and levied on the whole of the assessment for real property in the following classes according to the last revised assessment roll:

<b>CLASS</b>	<b>RATE</b>
Residential/Farm	0.00617941
Multi-residential	0.01139959
New Multi-Residential	0.00617941
Commercial Occupied	0.01227469
Commercial Vacant Units	0.00991228
Commercial Vacant Land	0.00991228
Commercial New Construction	0.01227469
Industrial Occupied	0.01387558
Industrial Vacant Units	0.01055913
Industrial New Construction	0.01387558
Large Industrial	0.01647636
Large Industrial Excess Land	0.01224963
Pipelines	0.00938576
Farmlands	0.00154485
Managed Forests	0.00154485
Landfills	0.01604740

2. That the said interim levy shall become due and payable on the **31st day of March, 2023** and nonpayment of the amount on the dates stated in accordance with this section shall constitute default.

DATE OF COUNCIL MTG.	Jan 17 / 23
AGENDA ITEM #	10-1

3. That a charge of one and one-quarter percent (1 ¼%) shall be imposed as a penalty for non-payment of taxes in accordance with section 345 (2) the Municipal Act, 2001, S.O. 2001, c.25, and shall be added to the amount of taxes due and unpaid, on the first day of default. Therefore after, in accordance with section 345(3) of the Municipal Act, 2001, S.O. 2001, c. 25, interest charges of one and one-quarter percent (1 ¼%) each month of the amount of taxes due and unpaid, shall be imposed for non-payment of taxes not accruing before the first day of default.
4. That the Treasurer may mail or cause the same to be mailed to the resident or place of business of such person indicated on the last revised assessment roll, a written or printed notice specifying the amount of taxes payable.
5. That the taxes be payable at the Municipality of Powassan, PO Box 250, 250 Clark Street, Powassan, Ontario, P0H 1Z0.
6. That this By-Law shall take effect upon its adoption.

**READ a FIRST and SECOND** time on January 3, 2023

**READ a THIRD and FINAL** time and considered passed as such in open Council on this, the 17<sup>th</sup> day of January, 2023.

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Mayor

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Clerk

**THE CORPORATION OF THE MUNICIPALITY OF POWASSAN**

**BY-LAW NO. 2023-03**

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Being a By-law to authorize temporary borrowing from time to time to meet current expenditures during the fiscal year 2023 and ending December 31, 2023

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**WHEREAS** Section 407 of the Municipal Act, 2001, as amended, provides authority for a Council by By-Law to authorize the Head of Council or the Treasurer or both of them to borrow from time to time, such sums as the Council considers necessary to meet, until taxes are collected and other revenues are received, the current expenditures of the Municipality for the year; and

**WHEREAS** the total amount which may be borrowed from all sources at any one time to meet the current expenditures of the Municipality, except with the approval of the Municipal Board, is limited by Section 407 of the Municipal Act, 2001;

**NOW THEREFORE** the Council of the Corporation of the Municipality of Powassan enacts as follows:

1. That the Head of Council or the Treasurer or both of them are hereby authorized to borrow from time to time during the fiscal year (hereinafter referred to as the current year) such sums as may be necessary to meet, until taxes are collected and other revenues are received, the current expenditures of the Municipality for the current year.
2. That the lender(s) from whom amounts may be borrowed under authority of this By-Law shall be Scotiabank and such other lender(s) as may be determined from time to time by By-Law of Council.
3. That the total amount which may be borrowed at any one time under this By-Law, plus any outstanding amounts of principal borrowed and accrued interest under Section 407 together with the total of any similar borrowings that have not been repaid, shall not exceed, from January 1<sup>st</sup> to September 30<sup>th</sup> of the current year, 50 percent of the total estimated revenues of the Municipality as set out in the budget adopted for the current year, and from October 1<sup>st</sup> to December 31<sup>st</sup> of the current year, 25 percent of the total estimated revenues of the Municipality as set out in the budget adopted for the current year; or \$600,000.00, whichever is less.
4. That the Treasurer shall, at the time when any amount is borrowed under this By-Law, ensure that the lender is or has been furnished with a certified copy of this By-Law, a certified copy of the resolution mentioned in Section 2 determining the lender, if applicable, and a statement showing the nature and amount of the estimated revenues for the current year and also showing the total of any other amounts borrowed from any and all sources under authority of Section 407 of the Municipal Act that have not been repaid.

DATE OF COUNCIL MTG.	Jan 17/23
AGENDA ITEM #	10.8

5. That if the budget for the current year has not been adopted at the time an amount is borrowed under this By-Law, the limitation on total borrowing, as set out in Section 3 of this By-Law, shall be temporarily calculated until such budget is adopted using the estimated revenues of the Municipality as set forth in the budget adopted for the next previous year.
6. That for purposes of this By-Law, estimated revenues referred to in Section 3, 4, and 5, do not include revenues derivable or derived from, a) any borrowing, including through any issue of debentures; b) a surplus, including arrears of taxes, fees or charges; or c) a transfer from the capital fund, reserve funds or reserves.
7. That the Treasurer be and is hereby authorized and directed to apply in payment of all or any sums borrowed under this By-Law, together with interest thereon,, all or any of the moneys hereafter collected or received, either on account of or realized in respect of the taxes levied for the current year and previous years or from any other source, that may be lawfully applied for such purpose.
8. That evidences of indebtedness in respect of borrowings made under Section 1 shall be signed by the Head of the Council or conform to the Treasurer or both of them.
9. That the lender shall not be responsible for establishing the necessity of temporary borrowing under this By-law or the manner in which the borrowing is used.
10. That this By-Law shall take effect on January 1, 2023.

**READ a FIRST and SECOND** time and considered **READ a THIRD and FINAL** time and adopted as such in open Council meeting this the 3rd day of January, 2023.

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Mayor

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Clerk



**THE CORPORATION OF THE MUNICIPALITY OF POWASSAN  
(BERGER-DEHOGG)  
BY-LAW NO. 2023-01**

Being a By-law to amend By-law No. 2003-38, as amended, the Zoning By-law for the Municipality of Powassan with respect to lands located in Lot 18, Concession 16 (505 Peever Line), in the Municipality of Powassan.

WHEREAS the Council of the Corporation of the Municipality of Powassan is empowered to pass By-laws to regulate the use of land pursuant to Sections 34 and 36 of the Planning Act, 1990;

AND WHEREAS the owners of the subject lands have filed an application with the Municipality of Powassan to amend By-law No. 2003-38, as amended;

AND WHEREAS the Council of the Corporation of the Municipality of Powassan deems it advisable to amend By-Law 2003-38, as amended;

NOW THEREFORE the Council of the Corporation of the Municipality of Powassan enacts as follows:

1. Schedule 'A', to Zoning By-law No. 2003-38 as amended, is further amended by zoning lands located in Lot 18, Concession 16 (505 Peever Line), in the Municipality of Powassan, from Rural (RU) to Rural Exception Fourteen – Holding (RU-14-H) as shown on Schedule 'A-1' attached hereto and forming part of this By-law.
2. The following shall apply to the area zoned Rural Exception Fourteen (RU-14) on Schedule 'A-1':
  - i) Column A Uses shall include 'Rural Event Venue' as an additional permitted use.
  - ii) For the purposes of this By-law, 'Rural Event Venue' shall mean a lot, building, or structure or part thereof, used to host an assembly of persons for the purposes of weddings, events, workshops, tours, and other similar gatherings.
  - iii) The Holding (-H) Symbol shall be removed once the municipality is satisfied that acceptable emergency vehicle access is provided for the 'Rural Event Venue' use.
3. This By-law shall come into effect upon the date of passage hereof, subject to the provisions of Sections 34 (30) and (31), and 36 of the Planning Act, 1990.

DATE OF COUNCIL MTG.	Jan 17 2023
AGENDA ITEM #	10.3

READ A FIRST AND SECOND TIME on the 17<sup>th</sup> of January, 2023

READ A THIRD TIME and finally passed this 7<sup>th</sup> of Februray, 2023

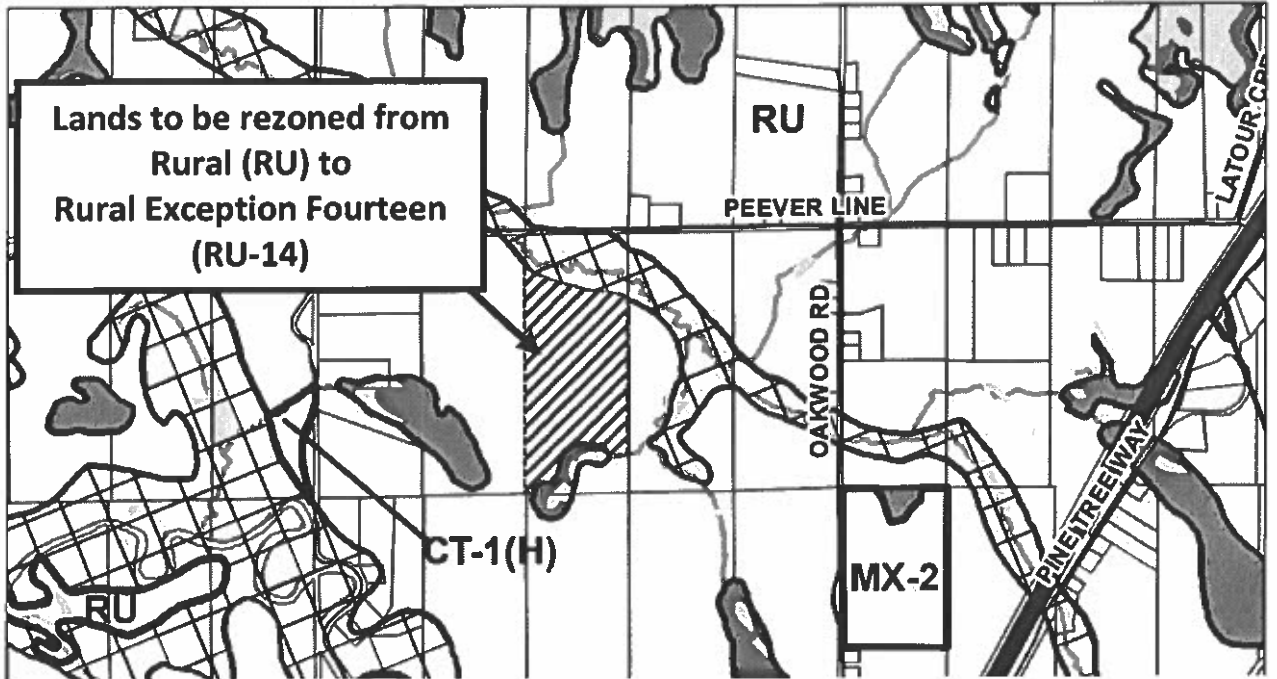
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Mayor

---

Clerk

Schedule 'A-1'





January 10, 2023

Treasurer Brayden Robinson and Council  
 The Corporation of the Municipality of Powassan  
 250 Clark St.  
 Powassan, ON P0H 1Z0

**Re: 2022 Annual/Summary Report for the Powassan Drinking Water System**

Dear Brayden Robinson and Council:

Ontario's Drinking-Water Systems Regulation (O. Reg. 170/03), made under the *Safe Drinking Water Act in 2002*, requires that the owner of a drinking water system prepare an Annual Report and an Annual Summary Report of the operation of the system and the quality of its water.

Annual Report

The annual report must cover the period of January 1<sup>st</sup> to December 31<sup>st</sup> in a year and must be prepared not later than February 28<sup>th</sup> of the following year. Pursuant to the legislative requirements, enclosed for your records is the 2022 Annual Report for the Powassan Drinking Water System.

In accordance with Section 11 (6), the annual report must:

- (a) contain a brief description of the drinking-water system, including a list of water treatment chemicals used by the system during the period covered by the report;
- (b) summarize any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 during the period covered by the report;
- (c) summarize the results of tests required under the Regulation, or an approval or order, including an OWRA order, during the period covered by the report and, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter;
- (d) describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report;
- (e) describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment; and
- (f) if the case of a large municipal residential system or a small municipal residential system, include a statement of where a report prepared under Schedule 22 will be available for inspection under subsection 12 (4) O. Reg. 170/03, s. 11 (6).

In addition, Section 11 (7) gives the direction that a copy of an annual report for the system is given, without charge, to every person who requests a copy and be made available for inspection by any member of the public during normal business hours. The reports should be made available at the office of the municipality, or at a location that is accessible to the users of the water system.

DATE OF COUNCIL MTG.	Jan 17/23
AGENDA ITEM #	12.1

### Summary Report

The annual summary report must cover the period of January 1<sup>st</sup> to December 31<sup>st</sup> in a year and must be prepared not later than March 31<sup>st</sup> of the following year. Pursuant to the legislative requirements, enclosed for your records is the 2022 Annual Summary for the Powassan Drinking Water System.

As required in *Schedule 22, Summary Reports for Municipalities*, the annual summary must:

- (2) (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
  - (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.
- (3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:
  1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
  2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

In addition, Section 12 (1) – 4 – gives the direction that a copy of the annual summary for the system is given, without charge, to every person who requests a copy and be made available for inspection by any member of the public during normal business hours. The reports should be made available at the office of the municipality, or at a location that is accessible to the users of the water system.

These reports were prepared by the Ontario Clean Water Agency on behalf of the Municipality of Powassan and are based on information kept on record by OCWA at the Powassan WTP. The reports cover the period January 1<sup>st</sup> to December 31<sup>st</sup> 2022.

Please note that any Provincial Officers Orders or non-compliance issues that you have received directly from the MOE should be reviewed. Where non-compliance with the Order or Issue is evident and it is not included in the attached 2022 Annual/Summary Report, then we recommend that this information be added to the report.

After your review and inclusion of any additional information, this report is to be provided to the Council members representing the Municipality of Powassan before March 31, 2023. Please ensure this distribution.

Yours truly,  
Ontario Clean Water Agency

Joshua Gravelle  
Process and Compliance Technician

Copy to: Erin Spires, Drinking Water Inspector, Ministry of the Environment, Conservation and Parks



Powassan Drinking Water System

# **2022 ANNUAL/SUMMARY REPORT**



Prepared by the Ontario Clean Water Agency  
on behalf of the Municipality of Powassan



## Table of Contents

**INTRODUCTION ..... 2**

**Section 11 - ANNUAL REPORT ..... 3**

    1.0 Introduction ..... 3

    2.0 Powassan Drinking Water System (DWS No. 220000576) ..... 4

    3.0 List of Water Treatment Chemicals Used Over the Reporting Period ..... 5

    4.0 Significant Expenses Incurred in the Drinking Water System ..... 5

    5.0 Drinking Water System Highlights ..... 6

    6.0 Details on Notices of Adverse Test Results and Other Problems Reported to &  
        Submitted to the Spills Action Center ..... 6

    7.0 Microbiological Testing Performed During the Reporting Period ..... 6

    8.0 Operational Testing Performed During the Reporting Period ..... 7

**Schedule 22 - SUMMARY REPORTS FOR MUNICIPALITIES ..... 11**

    1.0 Introduction ..... 11

    2.0 Requirements the System Failed to Meet ..... 11

    3.0 Summary of Quantities and Flow Rates ..... 11

**CONCLUSION ..... 14**

## List of Appendices

**APPENDIX A – Monthly Summary of Microbiological Test Results**

**APPENDIX B – Monthly Summary of Operational Data**



## INTRODUCTION

Municipalities throughout Ontario have been required to comply with Ontario Regulation 170/03 made under the Safe Drinking Water Act (SDWA) since June 2003. The Act was enacted following recommendations made by Commissioner O'Conner after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

Section 11 of Regulation 170/03 requires the owner to produce an Annual Report. This report must include the following:

1. Description of system & chemical(s) used
2. Summary of any adverse water quality reports and corrective actions
3. Summary of all required testing
4. Description of any major expenses incurred to install, repair or replace equipment

This annual report must be completed by February 28th of each year.

Section 22 of the regulation also requires a Summary Report which must be presented & accepted by Council by March 31<sup>st</sup> of each year for the preceding calendar year.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any Provincial Officer Order the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The Safe Drinking Water Act (2002) and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

1. A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows,
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The reports have been prepared by the Ontario Clean Water Agency (OCWA) on behalf of the Owner and presented to council as the 2022 Annual/Summary Report.



The background of the page is a light blue color with a fine halftone dot pattern. Overlaid on this background are several thick, wavy, horizontal bands of a slightly darker blue color, creating a sense of movement and depth. The bands are positioned in the upper, middle, and lower portions of the page.

Powassan Drinking Water System

Section 11

# 2022 ANNUAL REPORT



## Section 11 - ANNUAL REPORT

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### 1.0 Introduction

**Drinking-Water System Name:** POWASSAN DRINKING WATER SYSTEM  
**Drinking-Water System No.:** 220000576  
**Drinking-Water System Owner:** The Corporation of the Municipality of Powassan  
**Drinking-Water System Category:** Large Municipal, Residential System  
**Period being reported:** January 1, 2022 to December 31, 2022

**Does your Drinking Water System serve more than 10,000 people?** No

**Is your annual report available to the public at no charge on a web site on the Internet?** No

**Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.**  
 Powassan Municipal Office  
 250 Clark St.  
 Powassan Ontario

### ***Drinking Water Systems that receive drinking water from the Powassan Drinking Water System***

The Powassan Drinking Water System (DWS) provides all drinking water to the community of Powassan.

***The Annual Report was not provided to any other Drinking Water System Owners.***

The Ontario Clean Water Agency prepared the 2022 Annual/Summary Report for the Powassan DWS and provided a copy to the system owner; the Municipality of Powassan. The Powassan DWS is a stand-alone system that does not receive water from or send water to another system.

### ***Notification to system users that the Annual Report is available for viewing is accomplished through:***

- A notice via an annual community newsletter that is sent to every resident and via a notification included on the municipal utility billing.
- System analysis and reports available in the water System Information Binder available for the public to review at the municipal office.



## 2.0 Powassan Drinking Water System (DWS No. 220000576)

The Powassan DWS is owned by the Corporation of the Municipality of Powassan and consists of a Class 1 water treatment subsystem and a Class 1 water distribution subsystem. The Ontario Clean Water Agency (OCWA) is designated the Overall Responsible Operator for both the water supply and water distribution facilities.

### **Raw Water Supply**

The Municipality of Powassan municipal water system is a ground water system supplied by two (2) municipal drilled wells. The well operating pressures are controlled by pressure reducing valves in the adjacent pump house and are compatible with the top water level (TWL) of the in-ground reservoir of 310 meters (m) above sea level (A.S.L.) (elevation 1017 feet A.S.L.)

Well #1, constructed in 1981 and upgraded in 2003, consists of a 150 millimeter (mm) diameter steel casing, 23.1 m deep drilled production well including 3.8 m of screen across a coarse sand and gravel from approximately 23.1 m to 19.2 m, Well Pump No.1 is a 19 kilowatt (kW), 3 phase, 60 Hertz (Hz), 575 Volt, 25 horsepower (HP) Grundfos Submersible Pump Model 230s250-8B with the capacity of 15.2 litres per second (L/s) or 1,313 cubic meters per day (m<sup>3</sup>/d) at a total dynamic head (TDH) of 92.2 m. The well is capped, and a monitoring well is located 5 m south of well #1, which is protected by a vertical 0.45 m diameter corrugated steel pipe around the well casing and standing 1.2 m above the ground. Well No. 1 is operated at 15.2 L/s at an operating pressure of 650 kilopascals (kPa). Well #1 is located about 75 m South of Well #2.

Well #2, constructed in 1983, consists of a 300 mm diameter screened well, screened across a sand and gravel interval from approximately 11.0 to 18.5 m, pump is 22.4 kW, 3 phase, 60 Hertz, 575 Volt, Well Pump no. 2 is a 22.4 kW, 3 phase, 60 Hertz, 575 Volt, 30 HP Grundfos Submersible Pump (installed new in 2002), Model 230s300-9 with the capacity of 15.2 L/s or 1,313 m<sup>3</sup>/d at a TDH of 92.2 m. The well casing was raised 2 m in 2003 and furnished with a pit less adapter and locked down insect proof vented cap. A 0.15 m diameter test well is located approximately 3 m east of well #2. Well No. 2 is operated at 15.2 L/s at an operating pressure of 650 kPa. Well #2 is situated about 30 metres from Genesee Creek within the Genesee Creek floodplain.

### **Water Treatment**

The water treatment facility was originally constructed in 1981 and upgraded in 2003 to meet new regulatory requirements. In April 2009 a newly constructed 1278 m<sup>3</sup> in ground water storage reservoir was put into service to replace the aged 900 m<sup>3</sup> (1955) steel standpipe. The treatment process at the Powassan Well Supply is comprised of primary and secondary disinfection by dosing with sodium hypochlorite. The pump house building contains the process piping, flow meters and treated water sample points, the sodium hypochlorite disinfection feed system, process monitoring instrumentation, standby pumping system controls, electrical system and all associated appurtenances. A 49 m length of 600 mm serpentine pipe is installed below grade at the well/pump house to provide a minimum 15 minutes of disinfection contact time determined at maximum design flow and before the first consumer. The disinfection system is comprised of two sodium hypochlorite metering pumps, with a maximum capacity of 3.13 litres per hour (L/hr) at 690 kPa, with manual switchover controls, and two 160 litre (L) storage tanks (one duty & one standby) with secondary spill containment.



### ***Water Storage and Pumping Capabilities***

An in-ground reservoir constructed in 2008-09 is located approximately 60 m east from Big Bend Avenue at the end of McRae Drive was brought on-line in April 2009. The reservoir is an interconnected dual cell reservoir; each sized approximately 9.3 m x 13 m x 5.5 m water depth with a total capacity of 1,278 m<sup>3</sup>. Each cell is equipped with an inlet/outlet level sensor and a 300 mm diameter emergency overflow pipe; a 3.8 m x 4 m in-ground valve chamber. A prefabricated rechlorination building is located on top of the valve chamber and houses one (1) 100 L sodium hypochlorite storage tank with secondary containment and two (2) chemical metering pumps (duty and standby) each rated at 1.4 L/hr available to inject sodium hypochlorite into the reservoir outlet line (on demand) when required. An on-line chlorine residual analyzer is provided to sample water from the reservoir outlet line. The reservoir is operated and controlled based on water demand/pressure in the distribution system.

### ***Emergency Power***

Standby power in the event of a power interruption is supplied by a 65 kW/81 thousand volt amps (KVA), 347/600/3PH/60 Hz, diesel generator set with an automatic transfer switch in an external pad mounted weatherproof acoustical enclosure equipped with a double walled fuel tank in the sub base.

### ***Distribution System***

The Powassan DWS is categorized as a Large Municipal Residential Drinking Water System and serves an estimated population of 1000 residents. The distribution system consists of approximately 10.8 kilometers (km) of water mains made up of cast iron and polyvinyl chloride (PVC) piping ranging in size from 100 mm to 200 mm in diameter. Approximately 2.1 km of 250 mm diameter water main is installed in conjunction with the in-ground storage reservoir. The distribution system undergoes routine flushing twice a year, in the spring and in the fall.

## **3.0 List of Water Treatment Chemicals Used Over the Reporting Period**

The following chemicals were used in the treatment process at the Powassan Water Treatment Plant.

- Sodium hypochlorite – Disinfection

## **4.0 Significant Expenses Incurred in the Drinking Water System**

OCWA is committed to maintaining the assets of the drinking water system and maintains a program of scheduled inspection and maintenance activities using a computerized Work Management System (WMS). OCWA implemented a new Workplace Management System (Maximo) in 2015, which better maintains and optimizes facility assets. All routine maintenance activities conducted at the water treatment plant were accomplished in 2022.

Significant expenses incurred in the drinking water system include:

- Backflow preventer repairs completed.
- Reservoir generator repaired and returned to service.
- Old abandoned analyzers and associated electrical equipment was removed from the well house.
- Uninterruptable power supply (UPS) replaced at well house.



### 5.0 Drinking Water System Highlights

- The Ministry of the Environment, Conservation and Parks (MECP) performed an annual inspection on October 6, 2022. The inspection included a physical assessment of the Powassan Water Treatment Plant and a document review. The system received a risk rating of 0.00%, with a final inspection rating of 100%.
- SAI Global conducted an off-site external 12-month surveillance audit of the Powassan Drinking Water System's Quality and Environmental Management System (QEMS). The system and processes associated with the QEMS were evaluated on May 17, 2022 to ensure implementation of the Operational Plan and procedures and conformance to the Drinking Water Quality Management Standard version 2.0. There were one opportunity for improvement identified and is in resolved. Re-accreditation achieved on June 9, 2022.

### 6.0 Details on Notices of Adverse Test Results and Other Problems Reported to & Submitted to the Spills Action Center

Based on information kept on record by OCWA, zero (0) adverse water quality incidents (AWQI) were reported to the MOE's Spills Action Centre (MOE SAC) in 2022.

### 7.0 Microbiological Testing Performed During the Reporting Period

#### Summary of Microbiological Data

Sample Type	# of Samples	Range of <i>E. coli</i> Results (min to max)	Range of Total Coliform Results (min to max)	# of HPC Samples	Range of HPC Results (min to max)
Raw (Well No. 1)	52	0 to 0	0 to 0	0	N/A
Raw (Well No. 2)	52	0 to 0	0 to 0	0	N/A
Treated	52	0 to 0	0 to 0	52	0 to 2
Distribution	156	0 to 0	0 to 0	52	0 to 12

Maximum Allowable Concentration (MAC) for *E. coli* = 0 Counts/100 mL

MAC for Total Coliforms = 0 Counts/100 mL

"<" denotes less than the laboratory's method detection limit.

**Notes:** One microbiological sample is collected and tested each week from the raw (each well) and treated water supply. A total of three microbiological samples are collected and tested each week from the Powassan distribution system.

Refer to *Appendix A* for a monthly summary of microbiological test results.



## 8.0 Operational Testing Performed During the Reporting Period

### Summary of Raw Water Turbidity Data

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure
Turbidity (Well No. 1)	52	0.009 to 0.18	NTU
Turbidity (Well No. 2)	52	0.05 to 1.11	

### Continuous Monitoring in the Treatment Process

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	8760	0.91 to 2.92	mg/L	CT*

**Notes:** For continuous monitors 8760 is used as the number of samples.

CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Powassan water plant if the free chlorine residual level drops below 0.45 mg/L to ensure primary disinfection is achieved. The Water Treatment Plant is equipped with an automatic plant shutdown at 0.80 mg/L, with no delay.

### Summary of Chlorine Residual Data in the Distribution System

Parameter	No. of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	364	0.88 to 2.20	mg/L	0.05

**Note:** A total of seven operational checks for chlorine residual in the distribution system are collected each week. Four (4) samples are tested one day and three (3) on a second day. The sample sets are collected at least 48-hours apart and samples collected on the same day are from different locations.

Refer to *Appendix B* for a monthly summary of the above operational data.

### Summary of Nitrate & Nitrite Data (sampled at the water treatment plant)

Date of Sample	Nitrate Result Value	Nitrite Result Value	Unit of Measure	Exceedance
January 24	0.907	< 0.003	mg/L	No
April 11	1.05	< 0.003	mg/L	No
July 14	1.11	< 0.003	mg/L	No
October 11	1.07	< 0.003	mg/L	No

Maximum Allowable Concentration (MAC) for Nitrate = 10 mg/L  
MAC for Nitrite = 1 mg/L

### Summary of Total Trihalomethane Data (sampled in the distribution system)

Date of Sample	Result Value	Unit of Measure	Running Average	Exceedance
January 24	1.8	ug/L	6.05	No
April 11	1.3			
July 14	9.1			
October 11	12			

Maximum Allowable Concentration (MAC) for Total Trihalomethanes = 100 ug/L (Four Quarter Running Average)



**Summary of Total Haloacetic Acids Data** (sampled in the distribution system)

Date of Sample	Result Value	Unit of Measure	Running Average	Exceedance
January 24	<5.3	ug/L	<5.3	No
April 11	<5.3			
July 14	<5.3			
October 11	<5.3			

Maximum Allowable Concentration (MAC) for Total Haloacetic Acids = 80 ug/L (Four Quarter Running Average)

**Summary of Most Recent Lead Data under Schedule 15.1**

(applicable to the following drinking water systems; large municipal residential systems, small, municipal residential systems, and non-municipal year-round residential systems)

The Powassan DWS was eligible to follow the “Exemption from Plumbing Sampling” as described in section 15.1-5(9) and 15.1-5(10) of Schedule 15.1 of Ontario Regulation 170/03. The exemption applies to a drinking water system if, in two consecutive periods at reduced sampling, not more than 10% of all samples from plumbing exceed the maximum allowable concentration (MAC) of 10 ug/L for lead. As such, the system was required to test for total alkalinity and pH in one distribution sample collected during the periods of December 15 to April 15 (winter period) and June 15 to October 15 (summer period). This testing is required in every 12-month period with lead testing in every third 12-month period.

Two rounds of alkalinity and pH testing were carried out on April 13<sup>th</sup> and September 14<sup>th</sup> of 2022. Results are summarized in the table below.

**Summary of Lead, pH & Alkalinity Data** (sampled in the distribution system)

Date of Sample	# of Samples	Sample Location	Lead (ug/L)	Field pH	Alkalinity (mg/L)
April 12	1	Hydrant at Fairview (#4) and Industrial	N/A	6.98	99
April 12	1	Hydrant at Arena	N/A	6.99	107
Sept. 23	1	Hydrant at 171 Edward	N/A	7.02	93
Sept. 23	1	Hydrant at 76 Fairview	N/A	7.06	80

**Most Recent Schedule 23 Inorganic Data Tested at the Water Treatment Plant**

Parameter	Result Value	Unit of Measure	Standard	Exceedance
Antimony	<MDL 0.9	ug/L	6	No
Arsenic	<MDL 0.2	ug/L	10	No
Barium	97.9	ug/L	1000	No
Boron	9.0	ug/L	5000	No
Cadmium	0.006	ug/L	5	No
Chromium	1.14	ug/L	50	No
Mercury	<MDL 0.01	ug/L	1	No
Selenium	0.13	ug/L	50	No
Uranium	0.565	ug/L	20	No

Note: Sample required every 36 months (sample date = Jan. 18, 2021). Next sampling scheduled for January 2024.



**Most Recent Schedule 24 Organic Data Tested at the Water Treatment Plant**

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Alachlor (ug/L) - TW1	2021/01/18	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - T	2021/01/18	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW1	2021/01/18	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW1	2021/01/18	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW1	2021/01/18	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW1	2021/01/18	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW1	2021/01/18	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW1	2021/01/18	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW1	2021/01/18	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW1	2021/01/18	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW1	2021/01/18	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW1	2021/01/18	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW1	2021/01/18	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW1	2021/01/18	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW1	2021/01/18	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW1	2021/01/18	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L)	2021/01/18	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW1	2021/01/18	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) -	2021/01/18	<MDL 0.19	100.0	No	No
Dicofop-methyl (ug/L) - TW1	2021/01/18	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW1	2021/01/18	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW1	2021/01/18	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW1	2021/01/18	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW1	2021/01/18	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW1	2021/01/18	<MDL 0.02	190.0	No	No
Metolachlor (ug/L) - TW1	2021/01/18	<MDL 0.01	50.0	No	No
Metribuzin (ug/L) - TW1	2021/01/18	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) -	2021/01/18	<MDL 0.3	80.0	No	No
Paraquat (ug/L) - TW1	2021/01/18	<MDL 1.0	10.0	No	No
PCB (ug/L) - TW1	2021/01/18	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L) - TW1	2021/01/18	<MDL 0.15	60.0	No	No
Phorate (ug/L) - TW1	2021/01/18	<MDL 0.01	2.0	No	No
Picloram (ug/L) - TW1	2021/01/18	<MDL 1.0	190.0	No	No
Prometryne (ug/L) - TW1	2021/01/18	<MDL 0.03	1.0	No	No
Simazine (ug/L) - TW1	2021/01/18	<MDL 0.01	10.0	No	No
Terbufos (ug/L) - TW1	2021/01/18	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L) - TW1	2021/01/18	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW1	2021/01/18	<MDL 0.2	100.0	No	No
Triallate (ug/L) - TW1	2021/01/18	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L) - TW1	2021/01/18	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW1	2021/01/18	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (	2021/01/18	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW1	2021/01/18	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW1	2021/01/18	<MDL 0.17	1.0	No	No

Note: Sample required every 36 months (sample date = Jan. 18, 2021). Next sampling scheduled for January 2024.

**Inorganic or Organic Test Results that Exceeded Half the Standard Prescribed in Schedule 2 of the Ontario Drinking Water Quality Standards.**

No inorganic or organic parameter(s) listed in Schedule 23 and 24 of Ontario Regulation 170/03 exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (O. Reg. 169/03) during the reporting period.





***Most Recent Sodium Data Sampled at the Water Treatment Plant***

<b>Date of Sample</b>	<b># of Samples</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Standard</b>	<b>Exceedance</b>
January 24, 2022	1	11.9	mg/L	20	No
February 27, 2017	1	9.35	mg/L	20	No

**Note:** Sample required every 60 months. Next sampling scheduled for January 2027.

***Most Recent Fluoride Data Sampled at the Water Treatment Plant***

<b>Date of Sample</b>	<b># of Samples</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Standard</b>	<b>Exceedance</b>
January 14, 2019	1	0.24	mg/L	1.5	No

**Note:** Sample required every 60 months. Next sampling scheduled for January 2024.

***Summary of Additional Testing Performed in Accordance with a Legal Instrument.***

No additional sampling and testing was required for the Powassan DWS during the 2022 reporting period.



Powassan Drinking Water System

Schedule 22

# 2022 SUMMARY REPORT

## FOR MUNICIPALITIES



## Schedule 22 - SUMMARY REPORTS FOR MUNICIPALITIES

### 1.0 Introduction

<b>Drinking-Water System Name:</b>	<b>POWASSAN DRINKING WATER SYSTEM</b>
<b>Municipal Drinking Water Licence (MDWL) No.:</b>	266-101-3 (issued April 9, 2021)
<b>Drinking Water Work Permit (DWWP) No.:</b>	266-201-3 (issued April 9, 2021)
<b>Permit to Take Water (PTTW) No.:</b>	7867-CDEJHF (issued April 14, 2022)
<b>Period being reported:</b>	January 1, 2022 to December 31, 2022

### 2.0 Requirements the System Failed to Meet

According to information kept on record by OCWA, the Powassan Drinking Water System has complied with all the requirements set out in the system’s MDWL, its DWWP, the Act and its Regulations.

The last MECP inspection report dated October 6, 2022 identified zero non-compliance/best practice items.

According to information kept on record by OCWA, there were zero non-compliance issues during 2022.

Issue Identified in Report/Order	Required Action or Recommendation Identified in Report/Order	Resp. for Action Item? <i>(Client, OCWA, Joint)</i>	Issue Analysis	Status <i>(Complete or In Progress)</i>
N/A				

### 3.0 Summary of Quantities and Flow Rates

#### *Flow Monitoring*

MDWL No. 266-101 requires the owner to install a sufficient number of flow measuring devices to permit the continuous measurement and recording of:

- the flow rate and daily volume of treated water that flows from the treatment subsystem the distribution system, and
- the flow rate and daily volume of water that flows into the treatment subsystem.

The flow monitoring equipment identified in the MDWL is present and operating as required. The flow meter is calibrated on an annual basis as specified in the manufacturers’ instructions.



**Water Usage**

The following water usage tables summarize the quantities and flow rates of water taken and produced during the 2022 reporting period, including total monthly volumes, average monthly volumes, maximum monthly volumes, and maximum flow rates.

**Raw Water**

**2022 - Monthly Summary of Water Takings from the Source (Well #1)**

Regulated by Permit to Take Water (PTTW) #7867-CDEJHF, issued April 14, 2022

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	5915	5128	5663	5537	6239	6579	6295	6045	5860	5946	5628	6037	70872
Average Volume (m <sup>3</sup> /d)	191	183	183	185	201	219	203	195	195	192	188	195	194
Maximum Volume (m <sup>3</sup> /d)	324	235	240	286	254	754	278	258	275	277	282	274	754
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313
Maximum Flow Rate (L/min)	882	879	892	884	886	883	880	881	875	884	880	872	892
PTTW - Maximum Allowable Flow Rate (L/min)	912	912	912	912	912	912	912	912	912	912	912	912	912

**2022 - Monthly Summary of Water Takings from the Source (Well #2)**

Regulated by Permit to Take Water (PTTW) #7867-CDEJHF, issued April 14, 2022

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	6337	4910	5555	5430	5968	5884	5639	5793	5825	5914	5523	5942	68721
Average Volume (m <sup>3</sup> /d)	204	175	179	181	193	196	182	187	194	191	184	192	188
Maximum Volume (m <sup>3</sup> /d)	529	237	232	252	285	263	244	286	311	288	256	273	529
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313
Maximum Flow Rate (L/min)	876	878	880	877	880	880	882	887	877	883	881	882	887
PTTW - Maximum Allowable Flow Rate (L/min)	912	912	912	912	912	912	912	912	912	912	912	912	912

**2022 - Monthly Summary of Combined Water Takings from the Source (Well#1 and Well #2)**

Regulated by Permit to Take Water (PTTW) #7867-CDEJHF, issued April 14, 2022

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	12253	10038	11218	10967	12207	12463	11934	11839	11685	11861	11151	11979	139593
Average Volume (m <sup>3</sup> /d)	395	358	362	366	394	415	385	382	389	383	372	386	382
Maximum Volume (m <sup>3</sup> /d)	617	416	420	448	477	886	490	487	474	494	405	469	886
PTTW - Maximum Allowable Volume (m <sup>3</sup> /day)	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313

The system's Permit to Take Water #7346-8VFJKR, allows the Municipality to withdraw water at the following rates:

Well No. 1: 1313.28 m<sup>3</sup>/day / 912 L/minute

Well No. 2: 1313.28 m<sup>3</sup>/day / 912 L/minute

Total Combined Daily Volume: 1313.28 m<sup>3</sup>/day

The system's Permit to Take Water #7346-8VFJKR allows the municipality to withdraw a maximum volume of 1313.28 cubic meters from each well each day with a maximum of



**Powassan Drinking Water System – 2022 Annual/Summary Report**

1313.28 cubic meters per day combined. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 886 m<sup>3</sup> in June 2022. The Permit also allows a maximum flow rate of 912 L/minute. At no point during the reporting period did the system exceed this rate having a maximum recorded flow of 892 L/minute in March 2022.

**Treated Water**

**2022 - Monthly Summary of Treated Water Supplied to the Distribution System**  
Regulated by Municipal Drinking Water Licence (MDWL) #266-101 - Issue 3, issued April 9, 2021

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m <sup>3</sup> )	12253	10038	11218	10967	12207	12463	11934	11839	11685	11861	11151	11979	139593
Average Volume (m <sup>3</sup> /d)	395	358	362	366	394	415	385	382	389	383	372	386	382
Maximum Volume (m <sup>3</sup> /d)	617	416	420	448	477	886	490	487	474	494	405	469	886
MDWL - Rated Capacity (m <sup>3</sup> /day)	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313

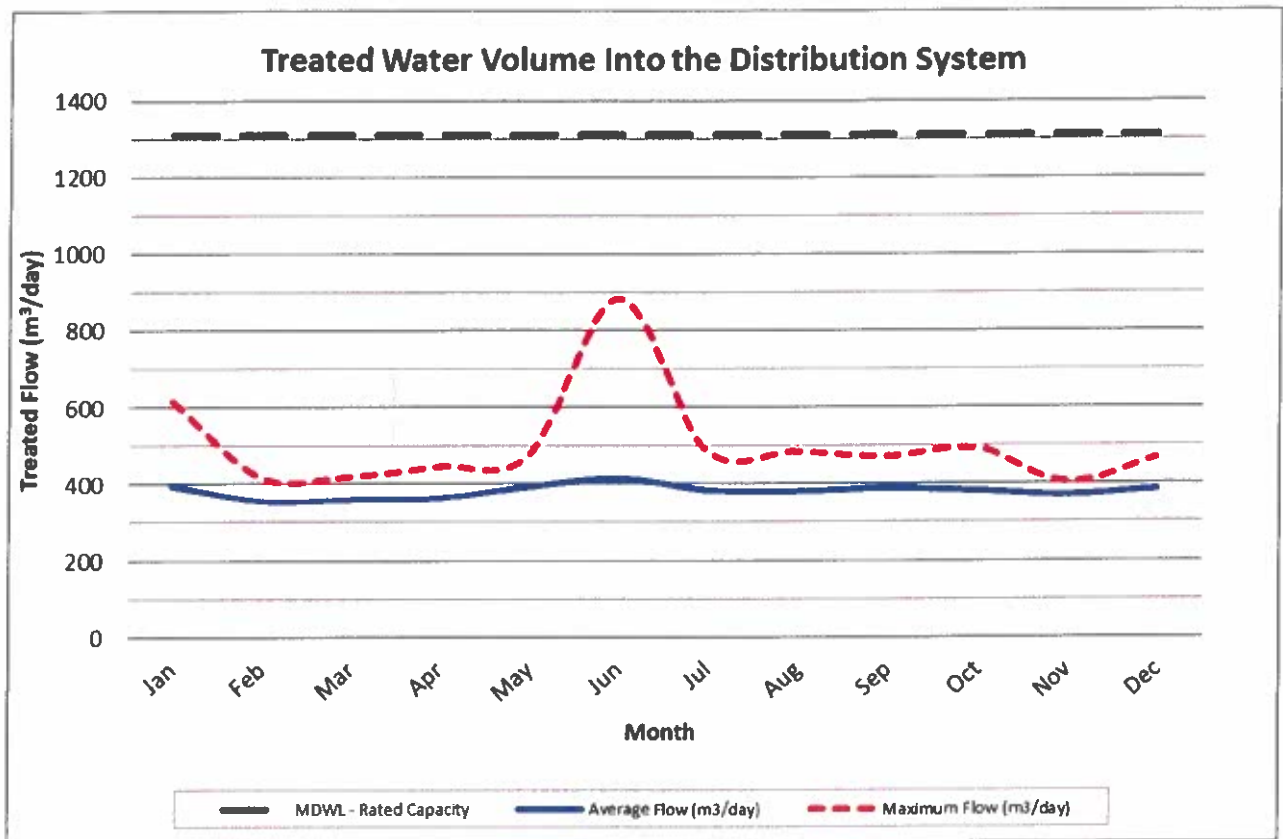
Schedule C, Section 1.1 of MDWL No. 266-101 states that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a maximum flow rate of 1313 m<sup>3</sup>/day. The Powassan DWS complied with this limit having a recorded maximum volume of 886 m<sup>3</sup> in June 2022, which is 67.5% of the rated capacity.

Figure 1 compares the average and maximum flow rates into the distribution system to the rated capacity of the system identified in the MDWL. This information enables the Owner to assess the system's existing and future planned water usage needs.

**Comparison of the Flow Summary to the Systems Licence & Permit**

Rated Capacity of the Plant (MDWL)	1313 m <sup>3</sup> /day	
Average Daily Flow for 2022	382 m <sup>3</sup> /day	29.1% of the rated capacity
Maximum Daily Flow for 2022	886 m <sup>3</sup> /day	67.5% of the rated capacity
Total Treated Water Produced in 2022	139.593 m <sup>3</sup>	

The Powassan Water Treatment Plant is rated to produce 1313 cubic meters of water per day as specified in the system's Municipal Drinking Water Licence. The average daily flow was 382 m<sup>3</sup> per day, which is 29.1% of the rated capacity. This information clearly shows that the plant is well within its rated capacity and is able to meet current demands of consumers.



## CONCLUSION

In 2022, the Powassan DWS provided safe and reliable drinking water to the community of Powassan. The system complied with the regulatory requirements of the Safe Drinking Water Act and its Regulations and met the terms and conditions outlined in its site specific drinking water works permit and municipal drinking water licence.



# **APPENDIX A**

Monthly Summary of Microbiological  
Test Results

Powassan Drinking Water System  
 Monthly Summary of Microbiological Test Results  
 From: 01/01/2022 to 31/12/2022

8233  
 ZW000676  
 POWASSAN DRINKING WATER SYSTEM  
 Municipality: Municipality of Powassan  
 1313.9 m3/day

Report extracted 01/08/2023 14:00  
 Facility Org Number:  
 Facility Works Number:  
 Facility Name:  
 Facility Owner:  
 Total Design Capacity:

	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022	11/2022	12/2022	Total	Avg	Max	Min	
Distribution / E. Coli - cfu/100mL																	
Count Lab	12	12	15	12	15	12	12	15	12	15	12	12	156				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / HPC - cfu/mL																	
Count Lab	4	4	5	4	5	4	4	5	4	5	4	4	52				
Mean Lab	2	1	1	0	1	2	12	1	0	1	0	2	12				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / Total Coliform TC - cfu/100mL																	
Count Lab	12	12	15	12	15	12	12	15	12	15	12	12	146				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / E. Coli EC - cfu/100mL																	
Count Lab	4	4	5	4	5	4	4	5	4	5	4	4	52				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / Total Coliform TC - cfu/100mL																	
Count Lab	4	4	5	4	5	4	4	5	4	5	4	4	52				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / E. Coli EC - cfu/100mL																	
Count Lab	4	4	5	4	5	4	4	5	4	5	4	4	52				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / Total Coliform TC - cfu/100mL																	
Count Lab	4	4	5	4	5	4	4	5	4	5	4	4	52				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / E. Coli EC - cfu/100mL																	
Count Lab	3	2	4	2	1	2	3	2	1	3	1	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / HPC - cfu/mL																	
Count Lab	3	2	4	2	1	2	3	2	1	3	1	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / Total Coliform TC - cfu/100mL																	
Count Lab	3	2	4	2	1	2	3	2	1	3	1	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / E. Coli EC - cfu/100mL																	
Count Lab	1	2	1	2	4	2	1	3	2	3	2	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / HPC - cfu/mL																	
Count Lab	1	2	1	2	4	2	1	3	2	3	2	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Distribution / Total Coliform TC - cfu/100mL																	
Count Lab	1	2	1	2	4	2	1	3	2	3	2	2	26				
Mean Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				
Max Lab	0	0	0	0	0	0	0	0	0	0	0	0	0				





**APPENDIX B**  
Monthly Summary of Operational Data

Powassan Drinking Water System  
Monthly Summary of Operational Data

From: 01/01/2022 to 31/12/2022

Report extracted 01/10/2023 12:45

6033  
220000576  
POWASSAN DRINKING WATER SYSTEM  
Municipality: Municipality Of Powassan  
Class 1 Water Treatment  
1313.0 m3/day

Facility Org Number:  
Facility Works Number:  
Facility Name:  
Facility Owner:  
Facility Classification:  
Total Design Capacity:

	01/2022	02/2022	03/2022	04/2022	05/2022	06/2022	07/2022	08/2022	09/2022	10/2022	11/2022	12/2022	Total	Avg	Max	Min
<b>Distribution / CI Residual: Free DW1 - mg/L</b>																
Count IH	8	9	8	9	9	9	8	9	9	9	8	9	104			
Total IH	13	13.09	13.74	14.74	13.44	13.57	12.04	14.97	14.69	13.78	12.27	14.89	164.22			
Max IH	1.83	1.85	1.82	1.84	1.73	1.8	1.85	2.14	1.81	1.66	1.74	1.95		2.14		
Mean IH	1.625	1.454	1.717	1.638	1.453	1.508	1.505	1.663	1.632	1.531	1.534	1.654		1.579		
Min IH	1.11	1.23	1.63	1.31	1.34	1.39	1.28	1.32	1.33	1.43	1.3	1.32				1.11
<b>Distribution / CI Residual: Free DW2 - mg/L</b>																
Count IH	8	9	8	9	9	9	8	9	9	9	8	9	104			
Total IH	13.1	14.36	13.05	14.21	13.89	13.54	13.19	15.63	14.75	13.05	12.88	14.12	165.77			
Max IH	1.95	1.84	1.84	1.75	1.75	1.69	1.88	2.06	1.82	1.66	1.73	1.76		2.06		
Mean IH	1.638	1.596	1.631	1.579	1.543	1.504	1.649	1.737	1.639	1.45	1.61	1.569		1.594		
Min IH	1.22	1.28	1.51	1.18	1.3	1.34	1.39	1.48	1.52	1.23	1.51	1.88				0.88
<b>Distribution / CI Residual: Free DW3 - mg/L</b>																
Count IH	8	9	8	9	9	9	8	9	9	9	8	9	104			
Total IH	12.4	13.85	13.24	14.4	13.99	13.6	12.71	14.9	14.06	12.95	12.17	15.27	163.54			
Max IH	1.74	1.78	1.85	1.8	1.68	1.72	1.72	1.94	1.82	1.61	1.69	1.84		1.84		
Mean IH	1.55	1.539	1.655	1.6	1.554	1.511	1.589	1.656	1.562	1.439	1.521	1.697		1.572		
Min IH	1.23	1.2	1.49	1.39	1.45	1.3	1.46	1.29	1.32	1.24	1.22	1.51				1.2
<b>Distribution / CI Residual: Free DW4 - mg/L</b>																
Count IH	4	5	4	4	5	4	4	5	4	4	4	4	52			
Total IH	6.96	6.9	6.49	6.57	7.59	5.99	6.79	9.34	6.52	6.84	5.9	5.85	81.74			
Max IH	1.95	1.85	1.67	1.77	1.68	1.54	1.86	2.2	1.76	1.66	1.57	1.79		2.2		
Mean IH	1.74	1.38	1.623	1.642	1.518	1.498	1.698	1.868	1.63	1.368	1.475	1.463		1.572		
Min IH	1.52	1.2	1.54	1.52	1.42	1.48	1.5	1.59	1.44	0.95	1.33	1.31				0.95
<b>Raw Well 1 / Turbidity - NTU</b>																
Count IH	4	5	4	4	5	4	4	5	4	4	4	4	52			
Total IH	0.369	0.41	0.36	0.46	0.49	0.35	0.4	0.45	0.36	0.84	0.41	0.44	5.139			
Max IH	0.16	0.11	0.11	0.14	0.12	0.1	0.13	0.12	0.13	0.18	0.14	0.13		0.18		
Mean IH	0.092	0.082	0.09	0.115	0.098	0.088	0.1	0.09	0.09	0.128	0.103	0.11		0.099		
Min IH	0.009	0.06	0.06	0.1	0.07	0.07	0.08	0.06	0.06	0.07	0.07	0.08				0.009
<b>Raw Well 2 / Turbidity - NTU</b>																
Count IH	4	5	4	4	5	4	4	5	4	4	4	4	52			
Total IH	0.45	0.45	0.37	0.7	0.56	0.36	0.46	0.42	0.42	1.53	0.4	0.4	6.52			
Max IH	0.15	0.1	0.12	0.36	0.18	0.1	0.14	0.1	0.13	1.11	0.15	0.13		1.11		
Mean IH	0.112	0.09	0.093	0.175	0.112	0.09	0.115	0.084	0.105	0.306	0.1	0.1		0.125		
Min IH	0.05	0.07	0.07	0.1	0.07	0.07	0.09	0.06	0.06	0.08	0.07	0.08				0.05
<b>Treated Water / CI Residual: Free Min = 0.45 - mg/L</b>																
Max OL	2.259	2.098	2.233	2.217	2.216	2.258	2.728	2.791	2.636	2.92	2.445	2.301		2.92		
Mean OL	1.802	1.897	1.774	1.707	1.764	1.834	1.724	1.799	1.663	1.644	1.895	1.816		1.726		
Min OL	1.204	1.189	1.079	1.022	1.002	0.911	0.973	1.317	1.339	1.149	1.249	1.108				0.911





## REPORT TO COUNCIL

Date: January 10, 2023  
From: Kris Croskery-Hodgins, Municipal Administrator-Clerk-Treasurer  
Re: Joint Jurisdiction Road and Bridges with the Municipality of Powassan

---

### BACKGROUND/OVERVIEW

The Township of Nipissing and the Municipality of Powassan entered into a Joint Jurisdiction Highway and Connecting road Routine Maintenance and Repair Agreement in 2020.  
Township of Nipissing By-Law Number 2020-08.  
Municipality of Powassan By-Law Number 2020-06.

This Agreement replaced an agreement executed in 2008.

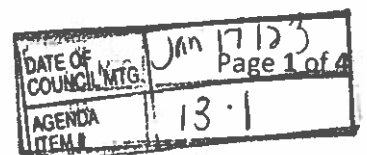
The 2008 Agreement provided statements regarding the performance of maintenance on roads and the "full care and control" of designated bridges to each municipality.  
Hummel Bridge to the Township of Nipissing.  
Butterfield Bridge to the Municipality of Powassan.  
These clauses also included wording stating "...will be responsible for funding of all bridges, structures and road maintenance, including replacement within their own section."

The 2020 Agreement provided a Definition of "Capital Improvement" meaning any work that is outside of the Routine M&R as required by the agreement and which materially improves and enhances any part of a Highway.

Section 7.3 was included to outline Capital Improvement expectations:

7.3 Notwithstanding any other provision in this Agreement, Capital Improvement work of any kind and/or Road Construction relating to any Highway outlined in Schedules A and B of this Agreement shall not be undertaken by either party without the prior approval of the Councils of both municipalities. What constitutes a Capital Improvement for the purposes of this Agreement shall be as agreed between the parties on a project-by-project basis. The parties agree that in the event a project is agreed to be a Capital Improvement, or constitutes Road Construction, the parties shall agree in writing upon the basis of cost-sharing for that project prior to the implementation of said project.

There are currently three projects that require discussion and decisions by each Council.



## **Alsace Road**

Approximately 2 km of Alsace Road is a Boundary Road. The surface treatment on the road was jeopardized and causing issues with the Township of Nipissing equipment during maintenance. The continuous HTM (Hard Top Maintenance) costs for mulch and patching were no longer cost-effective.

Written requests for meetings to discuss the project were provided to the Municipality of Powassan with a meeting taking place in June 2022. Powassan passed Resolution Number 2022-231 agreeing to the pulverization of the road section and ½ financial responsibility.

Several complaints have been received by the Township of Nipissing office regarding the gravel surface of the roadway. Nipissing is requesting direction from the Municipality of Powassan on the following options:

1. Reconstruction of the 2 km section of Alsace Road complete with dig outs of rocks and problem areas, ditching and application of surface treatment in the 2023 Construction season. Estimate attached.
2. Continue routine maintenance on the 2 km section of the Alsace Road as a gravel road and utilizing LTM (Loose Top Maintenance) procedures.  
*\*If using this option, it is requested that Schedule "B", item #2 be amended to provide that maintenance of the section of Alsace Road be the responsibility of each municipality, rotating by year.*
3. Apply 6" of gravel and chipseal the 2 km section, estimated \$130,000.00.  
*\*If using this option, it is requested that Schedule "B", item #2 be amended to provide that maintenance of the section of Alsace Road be the responsibility of each municipality, rotating by year.*

## **Hummel Bridge**

The 2019 OSIM Structure report calls for bridge replacement 1-5 years with an estimated cost of \$3,112,000.

Council was provided options in March 2021 based on a Preliminary Design Report prepared by HP Engineering. Copy of the presentation points with options and a copy of the full report attached.

The Township of Nipissing has offered to create a report for presentation during Ministry Delegations on behalf of the two municipalities. In order to create an effective report, we request the Councils provide direction on the construction option to be selected.

**Option #1.**

**Rehabilitate the Existing Structure (Extend useful service life of structure by approx. 15 years):**

- Remove and replace the existing concrete deck.
- Remove and replace the existing middle span steel stringers.
- Localized steel repairs on the truss members, steel pier column supports, middle span steel floor beams and end span steel girders as required.
- The submerged portions of the pier columns be completely encased in concrete filled steel jacket.
- Replace existing truss bearing assemblies.
- Repair and reinstate the original concrete abutments.
- Remove and replace the existing traffic barrier over the structure with upgrade.
- Remove and replace approach guiderail with upgrade.

**Preliminary Budget: \$1,100,000.**

**Additional costs: \$41,000.00**

**Option #2.**

**Replace Existing Structure (Expected service life of 75 years, rehabilitation at 25 and 50 years):**

- Removal of existing substructure and partial removal of existing substructure elements.
- Construction of new abutments.
- Fabrication, delivery and installation of a new single span superstructure.
- Supply and installation of new traffic barriers over the structure.
- Supply and installation of new approach guiderail.
- Reconstruction/re-grading of approach roadways.

**a) Preliminary Budget: \$2,500,000 for similar structure**

**b) Preliminary Budget: \$3,000,000 two lane structure**

**\*To incorporate a separate sidewalk, add \$500,000.**

**Additional Costs: \$112,000.**

**Option #3.**

**Close the bridge and decommission.**

**Butterfield Bridge**

The Municipality of Powassan assumes the OSIM Inspection requirements for the Butterfield Bridge, per the Joint Jurisdiction agreement.

Attached are photographs taken of the Butterfield Bridge by Township of Nipissing staff while on routine patrol. There is significant damage noted on the structure. An email was sent to the Municipality of Powassan requesting information on the proposed repair method and costs on December 1, 2022.

## FINANCIAL IMPACT

**Alsace Road Construction Project, Option #1, total cost of \$416,375.96 estimated.**  
Township of Nipissing \$208,187.98                      Municipality of Powassan \$208,187.98

### **Hummel Bridge Construction Project:**

Option #1 estimated costs: \$1,141,000 (in 2021)

Township of Nipissing \$570,500.00                      Municipality of Powassan \$570,500.00

Option #2 estimated costs (in 2021):

a) one lane, similar structure, \$2,612,000

Township of Nipissing \$1,306,000.00                      Municipality of Powassan \$1,306,000.00

b) two lane structure, \$3,112,000

Township of Nipissing \$1,556,000.00                      Municipality of Powassan \$1,556,000.00

*Addition of sidewalk to either structure, additional \$500,000 to total project.*

### **Butterfield Bridge Construction Project:**

Costs to be determined.

## RECOMMENDATION:

**Alsace Road:** Full construction and surface treatment is recommended to extend the life of the asset and meet service level expectations of residents.

**Hummel Bridge:** Replacement Option #2 is recommended for the longest service life and value for funds used.

Continued lobbying of Ministry funding for the project is recommended and can be utilized at functions such as Good Roads Conference, ROMA Conference and AMO Conference as Council directs.

**Butterfield Bridge:** Repair costs be considered in the next Capital Budget Forecast.

Respectfully,

Kris Croskery-Hodgins, Municipal Administrator

## 2023 Alsace Road - (Boundary) Repair Breakdown

\*CPI Rate of 6.9% used for 2023 calculations from 2022.

<b>Ditching</b>		Rate	Hours	Days	
	315	85x10x10	\$		9,086.50
Trucking (3 Tandems)		(75x10x10)x3	\$		24,052.50
			\$		<b>33,139.00</b>
<b>Digg Outs</b>		<b>310 m x 9 m</b>		<b>20 days</b>	
	315	85x10x20	\$		18,173.00
3 dump trucks		(75x10x20)x3	\$		48,105.00
Tri-Axle Truck		130x10x20	\$		27,794.00
Backhoe		75x10x20	\$		16,035.00
Geotech 10 Rolls		10 Rolls x \$900	\$		9,621.00
Drum Roller		84"	\$		16,035.00
Labour			\$		12,828.00
600 plastic pipe (1)		16mx600mm	\$		3,420.80
			\$		<b>152,011.80</b>
<b>Gravels</b>					
A Gravels		1000Tx13.56	\$		14,495.64
A Gravel Applied		2000Tx19.71	\$		42,139.98
B Gravels		2400Tx13.56	\$		34,789.54
			\$		<b>91,425.16</b>
<b>Chipseal</b>					
\$68,000 per km			\$		136,000.00
			\$		<b>136,000.00</b>
Grader		95x40	\$		3,800.00
<b>300 m x 9 m</b>		<b>2000 m</b>	\$		<b>416,375.96</b>
					<b>\$208.19 per meter</b>



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 New Year's Day	2 Day After New Year's Day off for New Year's 2pm - Public Skating at	3 2pm - Public Skating at 7pm - Council	4 2pm - Public Skating at	5 2pm - Public Skating at	6 Epiphany 1pm - Public Skating at	7
8 1:30pm - Public Skating -	9	10 6pm - Arena's Committee	11 7pm - MSF Committee 7pm - Rec Committee	12 6pm - Committee of	13	14 9am - Farmers' Market
15	16 7pm - Council @ 250	17	18	19	20	21
22	23	24	25	26	27 DSSAB Board Intro	28
29	30 Library Board	31	1	2 Groundhog Day	3 PD DAY	4

Sun	Mon	Tue	Wed	Thu	Fri	Sat
5	6	7	8	9	10	11
		7pm - Council	Rec Committee 6pm - MSF meeting	DSSAB		9am - Farmers' Market 9am - Love is in the Air
12	13	14	15	16	17	18
		Valentine's Day			Winter Carnival	
19	20	21	22	23	24	25
Winter Carnival	Family Day (regional) Islander Day (Prince Louis Riel Day (Manitoba) Nova Scotia Heritage Day	7pm - Council @ 250	NBMCA		Yukon Heritage Day	
26	27	28	1	2	3	4
	LIBRARY BOARD					