



Regular Meeting of Council  
AGENDA

Tuesday, April 8, 2025, 6:30 p.m.

Council Chambers

City Hall - 200 McIntyre Street East, North Bay, ON

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1. Declaration of Pecuniary Interest and the General Nature Thereof
2. Public Presentations
  - 2.1 Ed Valenti, Dionne Quints Heritage Board re Operating Budget
3. Public Meeting Minutes
  - Monday, March 17, 2025;
  - Monday, March 24, 2025; and
  - Tuesday, March 25, 2025
4. Motion for Reconsideration
5. Committee Reports
  - 5.1 City's Housing Action Plan Update
  - 5.2 Official Plan Amendment and Zoning By-Law to implement four (4) units as-of-right and to allow enabling policies for delegated approval for Planning Act decisions
  - 5.3 Amendment to Growth Community Improvement Plan to implement Top Up Funding for additional residential units
6. Correspondence
  - 6.1 North Bay Drinking Water System 2024 Reporting  
Report Prepared By: Karin Pratte  
Date of Report: March 26, 2025  
Report No. IO 2025-004
  - 6.2 Reduction, Cancellation or Refund of Taxes - Section 357/358 of the Municipal Act, S.O. 2001, c.25.  
Prepared By: Dan Robinson  
Date of Report: April 8, 2025  
Report No. CORP 2025-038
7. By-Laws for Consideration
8. Motions

**9. In-Camera Correspondence**

9.1 Closed Minutes

9.2 Confidential Report to Council from Peter Leckie dated March 25, 2025 re proposed acquisition of land by the municipality

9.3 Confidential Report from Ian Kilgour and Alan Korell dated March 25, 2025 re proposed acquisition of land by the municipality,

**10. Giving Notice (Notice of Motion)**

**11. Confirmatory By-Law**

By-Law No. 2025-34 to confirm proceedings of the Regular Meeting of Council held on April 8, 2025.

**12. Adjournment**

**March 17, 2025, 5:30 p.m.  
Mayor's Boardroom - 5th Floor  
City Hall - 200 McIntyre Street East, North Bay, ON**

Members Present: Mayor Chirico, Councillor Horsfield, Councillor Inch, Councillor Mallah (5:37 p.m. to 6:03 p.m.), Councillor Lowery, Councillor Bain, Councillor Gardiner, Councillor Mayne, Councillor Mitchell.

Members Absent: Councillor Vrebosch, Councillor King

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Staff Present: J. Severino, L. Boissonneault, V. Hie, M. Karpenko, I. Kilgour, A. Korell, P. Leckie, K. McIsaac, S. Melnichuk, S. Saucier, W. Trottier, G. Young.

Mayor Chirico called the meeting to order at 5:31 p.m.

**Items Discussed:**

GG-2024-10 Report from Laura Boissonneault dated February 10, 2025 re: 2025 General Operating Budget.

Service Level Change:

North Bay Jack Garland Airport

- o Service Level Change to be part of the 2025 Budget.

**2025 City of North Bay Operating Budget**

**Direction:** That the Committee Report for the 2025 Operating Budget, save and except the City of North Bay's share of: the District of Nipissing Social Services Administration Board's (DNSSAB) 2025 Operating Budget; the North Bay Police Service Board's (NBPSB) 2025 Operating Budget; the Health Unit's 2025 Operating Budget; and Invest North Bay Development Corporation 2025 Operating Budget, be brought forward to Council.

**2025 District of Nipissing Social Services Administration Board Budget**

**Conflict of Interest:**

*Councillor Mitchell declared a conflict of interest in relation to the City of North Bay's share of the District of Nipissing Social Services Administration Board's 2025 Healthy Community's Fund and HPP Funding as "my employer receives funding for these programs".*

**Direction:** That the Committee Report for the City of North Bay's share of the District of Nipissing Social Services Administration Board's (DNSSAB) 2025 Operating Budget, save and except the City's share of the Healthy Community's Fund and HPP Funding, be brought forward to Council.

**Direction:** That the Committee Report for the City of North Bay's share of the District of Nipissing Social Services Administration Board's (DNSSAB) 2024 Healthy Community's Fund and HPP Funding, be brought forward to Council.

**2025 North Bay Police Service Board Budget**

**Conflict of Interest:**

*Councillor Lowery declared a conflict of interest in relation to the North Bay Police Service Board 2025 Operating Budget as "my son is a member of the North Bay Police Service."*

**Direction:** That the Committee Report for the City of North Bay's share of The North Bay Police Service Board (NBPSB) 2025 Operating Budget, be brought forward to Council.

**2025 North Bay Parry Sound District Health Unit Budget**

**Conflict of Interest:**

*Councillor Mallah declared a conflict of interest in relation to the North Bay-Parry Sound District Health Unit's 2025 Operating Budget as "the Health Unit is my employer".*

**Direction:** That the Committee Report for the City of North Bay's share of the Health Unit's 2025 Operating Budget be brought forward to Council.

**2025 Invest North Bay Development Corporation**

**Conflict of Interest:** *Mayor Chirico declared a conflict of interest in relation to Invest North Bay Development Corporation 2025 Budget as "my 2022 election campaign marketing firm is involved with Invest North Bay".*

**Direction:** That the Committee Report for the City of North Bay's share of Invest North Bay Development Corporation 2025 Operating Budget, be brought forward to Council.

GG-2024-10

Report from Laura Boissonneault dated February 11, 2025 re: 2025 Capital Budget and 2026-2034 Capital Forecast Plan.

**2025 General Capital Budget and 2025 Water and Wastewater Capital Budget**

**Direction:** That the Committee Report for the 2025 General Capital Budget and 2025 Water and Wastewater Capital Budget, save and except the City of North Bay's share of The North Bay Police Service Board's (NBPSB) 2025 General Capital Budget, be brought forward to Council.

**Conflict of Interest:** *Councillor Lowery declared a conflict of interest in relation to the North Bay Police Service Board's 2025 General Capital Budget as "my son is a member of the North Bay Police Service."*

**Direction:** That the Committee Report for the City of North Bay's share of The North Bay Police Service Board's (NBPSB) 2025 General Capital Budget, be brought forward to Council.

Special Committee Meeting ended at 6:03 p.m.

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Deputy Mayor Maggie Horsfield

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City Clerk Karen McIsaac

## **Special Committee Meeting Minutes**

**March 24, 2025, 6:00 p.m.**

**Council Chambers**

**City Hall - 200 McIntyre Street East, North Bay, ON**

Members Present: Mayor Chirico, Councillor Horsfield, Councillor Inch, Councillor Mallah, Councillor King, Councillor Lowery, Councillor Bain, Councillor Gardiner, Councillor Vrebosch, Councillor Mayne, Councillor Mitchell

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### **Community Services Committee**

#### **Public Meeting Pursuant to the Planning Act**

CS 2025-01: Report from Adam Curran dated February 11, 2025 re: Housing Accelerator Fund (HAF) - Implementation Plan - Growth Community Improvement Plan (GCIP) Amendment and Additional Dwelling Units (ADU) - Official Plan and Zoning Amendments

#### **Housing Accelerator Fund - Implementation Plan:**

Direction: Committee Report be brought forward to Council.

#### ***Public Meetings Pursuant to the Planning Act***

#### **Proposed Amendments to the Official Plan and Zoning By-Law - Implementation Policies and Regulations for Additional Dwelling Units (ADU's) and Enabling Policy for Delegated Approval:**

Councillor Mallah explained the purpose of the Official Plan and Zoning By-Law amendments to Implement Policies and Regulations for Additional Dwelling Units.

The City Clerk advised that notice of the public meeting was given by placing an advertisement in the North Bay Nugget on Saturday, March 1, 2025 and by providing a copy to all agencies as prescribed by Ontario Regulation 545/06.

Adam Curran and Beverley Hillier explained the purpose of the Official Plan and Zoning By-Law amendments to Implement Policies and Regulations for Additional Dwelling Units.

Councillor Mallah asked for public presentations in support of or objecting to the Official Plan and Zoning By-Law amendments to Implement Policies and Regulations for Additional Dwelling Units.

No Presentations were made.

Direction: Committee Report be brought forward to Council.

**Proposed Amendment to the City of North Bay's Growth Community Improvement Plan:**

Councillor Mallah explained the purpose of the Amendment to the City of North Bay's Growth Community Improvement Plan.

The City Clerk advised that notice of the public meeting was given by placing an advertisement in the North Bay Nugget on Saturday, March 1, 2025 and by providing a copy to all agencies as prescribed by Ontario Regulation 545/06.

Adam Curran and Beverley Hillier explained the purpose of the Amendment to the City of North Bay's Growth Community Improvement Plan.

Councillor Mallah asked for public presentations in support of or objecting to the Amendment to the City of North Bay's Growth Community Improvement Plan.

Presentations:

Sister Josie McKechnie

- Supports the application.
- Does the top-up funding also include substantial redevelopment of existing buildings to create new units.

Direction: Committee Report be brought forward to Council.

**General Government Committee**

**Item(s) to be Addressed:**

GG 2025-04: Report from Peter Leckie & Karen McIsaac dated January 22, 2025 re: City of North Bay Procedural By-Law Amendments

Direction: Item to remain on Committee

**Infrastructure and Operations Committee**

No Items Addressed.

Special Committee Meeting of Council adjourned at 9:31 p.m.

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Mayor Peter Chirico

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City Clerk Karen McIsaac



**March 25, 2025, 6:30 p.m.**  
**Council Chambers**  
**City Hall - 200 McIntyre Street East, North Bay, ON**

Members Present: Mayor Chirico, Councillor Horsfield, Councillor Inch, Councillor Mallah, Councillor King, Councillor Lowery, Councillor Bain, Councillor Vrebosch, Councillor Mayne, Councillor Mitchell

Members Absent: Councillor Gardiner

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**1. Declaration of Pecuniary Interest and the General Nature Thereof**

1.1 Councillor Bain - 2025 FONOM Executive Award  
as "I have a relationship with FONOM".

**2. Public Presentations**

2.1 Renee Meyer and Ava Sevier re Canadian Cancer Society  
2.2 Karrie Emms, Gillian Hebert & Crystal O'Connor re Nick's Place Update

**3. Public Meeting Minutes**

**Res. # 2025-97**

Moved by Councillor Mallah  
Seconded by Councillor Mitchell

That the minutes for the public meetings held on:

- Monday, March 3, 2025;
- Tuesday, March 4, 2025;
- Thursday, March 6, 2025;

- Monday, March 10, 2025; and
- Tuesday, March 11, 2025

be adopted as presented.

Carried

**4. Motion for Reconsideration**

**5. Committee Reports**

**6. Correspondence**

6.1 Canada Day 2025

**Res. # 2025-98**

Moved by Councillor Mallah  
Seconded by Councillor King

That Council:

1. grant permission to the O'Canada Day Committee to hold the 2025 Canada Day Celebrations in and about the Waterfront Park on July 1, 2025, pursuant to By-Law No. 2014-53 (Noise By-Law); and
2. grant an exemption to the O'Canada Day Committee from the Noise By-Law, and exclusivity over the event and grounds be approved as follows:
  - a. having approved Recommendation No. 1 granting permission to hold the public celebration known as the 2025 O'Canada Day Event, the event becomes exempt from the noise control provisions contained in By-Law No. 2014-53 (Noise By-Law), as amended, pursuant to the operation of Section 6 and Schedule 3 thereof, as defined in Attachment 1, in Report to Council CSBU 2025-16 dated February 25, 2025 from Erin Vaughan; and
  - b. exclusive use on July 1, 2025, on and over the City-owned and controlled lands (except the North Bay Wastewater Treatment Facility Lands) within the area defined as, extending from, and inclusive of the

waterfront beaches starting at Tenth Street and both sides of Memorial Drive from the Uniroc site up to and including Lee Park.

Carried

- 6.2 Resignation of Bill Vrebosch from the Municipal Heritage Committee (MHC)

**Res. # 2025-99**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That the resignation of Bill Vrebosch from the Municipal Heritage Committee (MHC) be received and Mr. Vrebosch be thanked for his involvement on the Committee.

Carried

- 6.3 Proposed Official Plan and Zoning By-Law Amendment applications by Goodridge Goulet Planning & Surveying Ltd. on behalf of 2839528 Ontario Inc. - 668 Lakeshore Drive

**Res. # 2025-100**

Moved by Councillor Mallah

Seconded by Councillor King

That the proposed Official Plan and Zoning By-Law Amendment applications by Goodridge Goulet Planning & Surveying Ltd. on behalf of 2839528 Ontario Inc. - 668 Lakeshore Drive be received and referred to the Community Services Committee for a Public Meeting.

Carried

- 6.4 Pre-Servicing Agreement - Ashgrove Subdivision, Phases 4 and 5

**Res. # 2025-101**

Moved by Councillor Mallah

Seconded by Councillor King

That:

1. the City enter into a Pre-Servicing Agreement with 2029562 Ontario Limited in a form satisfactory to the City Solicitor and City Engineer for the installation of services for the Ashgrove Plan of Subdivision (City File 48T-03101); and
2. an execution by-law be brought forward for three (3) readings on March 25, 2025.

Carried

6.5 2025 Armed Forces Day

**Res. # 2025-102**

Moved by Councillor Mallah  
Seconded by Councillor King

That Council authorize Mayor Chirico to sign a letter of support for the 2025 Armed Forces Day for the CF-18 Tactical Demonstration Team, the Canadian Forces Snowbirds Demonstration Team, the CC-130J Hercules and the USAF F-16 or F-35 to fly over the City of North Bay and for the Skyhawks Parachute Demonstration Team to parachute over the City of North Bay, as well as support to land a CH-147 Chinook or CH-146 Griffon at the Waterfront Marina.

Carried

6.6 Request for Tender 2025-13, Aquatic Centre Pool Deck Flooring Replacement

**Res. # 2025-103**

Moved by Councillor Mitchell  
Seconded by Councillor Mayne

That Council:

1. approve the award of a contract to Venasse Building Group Inc. in the amount of \$700,000.00 (plus HST), for the

provision of Request for Tender 2025-13 Aquatic Centre Pool Deck Flooring Replacement;

2. authorize the transfer of funds to the project, as outlined in Report to Council CORP 2025-31 dated March 12, 2025 from Lori Jackson and Alain Lecompte; and
3. acknowledge the pre-commitment against the 2025 General Capital Budget, as authorized through Report to Council CORP 2024-100 – Approval of 50% of the Prior Year’s Capital Funding Envelope.

Carried

- 6.7 2024 Council and Council Appointed Community Members, Remuneration and Expenses

**Res. # 2025-104**

Moved by Councillor Horsfield  
Seconded by Councillor Inch

That Council receive the 2024 Council and Council Appointed Community Members, Remuneration & Expenses for the year ended December 31, 2024, attached to Report to Council CORP 2025-30 dated March 10, 2025 from Margaret Karpenko.

Carried

- 6.8 Pre-Servicing Agreement (Phase 3) and Extension of Draft Approval Requests –Ski Ridge Estates Subdivision

**Res. # 2025-105**

Moved by Councillor Mallah  
Seconded by Councillor King

That:

1. the City enter into a Pre-Servicing Agreement with Ski Ridge Estates Inc. and Janey Avenue Inc. in a form satisfactory to the City Solicitor and City Engineer for the

installation of services for Phase 3 of the Ski Ridge Estates Plan of Subdivision (City File No. 48T-19102); and

2. Council extend the Draft Approval expiry date of the Ski Ridge Estates Inc. and Janey Avenue Inc. Plan of Subdivision (Subdivision File No. 48T-19102), as recommended by City staff from May 19, 2025 to May 19, 2028.

Carried

## **7. By-Laws for Consideration**

### **Res. # 2025-106**

Moved by Councillor Mallah  
Seconded by Councillor King

That the following by-laws be read a first and second time:

By-Law No. 2025-24 to stop up, close and convey a portion of the laneway located in a block bounded by Lansdowne Avenue, O'Brien Street, Hutcheson Avenue and Mcleod Street.

By-Law No. 2025-25 to authorize the execution of an agreement with The North Bay and District Society for the Prevention of Cruelty to Animals relating to the provision of Animal Control Services.

By-Law No. 2025-26 to authorize electors to use an alternative voting method that does not require electors to attend a voting place in order to vote for Municipal and School Board elections.

By-Law No. 2025-30 to stop up, close and convey a Part of McKenzie/Robarts Avenue Road Allowance designated as Part 3, on Plan 36R-15359, in the City of North Bay.

By-Law No. 2025-32 to authorize the execution of a Subdivision Pre-Servicing Agreement with 2029562 Ontario Limited relating to Ashgrove Subdivision, Phases 4 and 5.

Carried

### **Res. # 2025-107**

Moved by Councillor Mallah  
Seconded by Councillor King

That the following by-laws be read a third time and passed:

By-Law No. 2025-24 to stop up, closed and convey a portion of the laneway located in a block bounded by Lansdowne Avenue, O'Brien Street, Hutcheson Avenue and Mcleod Street.

By-Law No. 2025-25 to authorize the execution of an agreement with The North Bay and District Society for the Prevention of Cruelty to Animals relating to the provision of Animal Control Services.

By-Law No. 2025-26 to authorize electors to use an alternative voting method that does not require electors to attend a voting place in order to vote for Municipal and School Board elections.

By-Law No. 2025-30 to stop up, close and convey a Part of McKenzie/Robarts Avenue Road Allowance designated as Part 3, on Plan 36R-15359, in the City of North Bay.

By-Law No. 2025-32 to authorize the execution of a Subdivision Pre-Servicing Agreement with 2029562 Ontario Limited relating to Ashgrove Subdivision, Phases 4 and 5.

Carried

## **8. Motions**

### **8.1 2025 FONOM Executive Award**

Councillor Bain declared a conflict on this item. (as "I have a relationship with FONOM".)

#### **Res. # 2025-108**

Moved by Mayor Chirico  
Seconded by Councillor Mayne

Whereas the mission of the Federation of Northern Ontario Municipalities (FONOM) is to enhance the economic and social quality of life for all Northerners and to ensure a prosperous future for our youth;

And Whereas the FONOM Executive Award is presented annually at its conference to recognize an individual who has demonstrated outstanding dedication and tireless efforts in enriching the lives of Northern Ontarians while advancing the objectives of FONOM;

And Whereas Victor Fedeli has made significant contributions to Northern Ontario through his service as Mayor of the City of North Bay (2003–2010), as a Member of Provincial Parliament, and as a Minister in the Government of Ontario, consistently advocating for the well-being and prosperity of North Bay, Nipissing, and the broader Northern Ontario region.

Now Therefore Be it Resolved that the Council of the City of North Bay formally nominates Victor Fedeli for the 2025 FONOM Executive Award, recognizing his exceptional and enduring contributions to the enrichment and betterment of the lives of Northern Ontario residents and his unwavering commitment to promoting the mission and objectives of FONOM at both regional and provincial levels.

Further be it Resolved that a copy of this resolution be sent to FONOM and the Municipalities in the Nipissing Electoral District.

*Recorded Vote Upon the Requests of Mayor Chirico*

Yeas: Mayor Chirio, Councillors Mayne, Lowery, Mitchell, King, Mallah, Vrebosch, Inch and Deputy Mayor Horsfield.

Nays: Nil

Carried

## **9. In-Camera Correspondence**

### **Res. # 2025-109**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That Council adjourn in-camera pursuant to section 239.(2) of the *Municipal Act, 2001*, as amended at 7:15 p.m. for the following reasons:



Item 9.2, being a proposed acquisition of land by the municipality; and  
Item 9.3, being labour relations.

Carried

**Res. # 2025-110**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That Council reconvene at 8:05 p.m.

Carried

9.2 Confidential report from Peter Leckie dated March 13, 2025 re  
Proposed acquisition of land by the municipality or local board

**Res. # 2025-111**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That Council:

1. authorize the Agreement of Purchase and Sale as between  
The Corporation of the City of North Bay and Teresa Lynne  
Boase for the purchase of two (2) vacant parcels of land  
municipally described as 0 May Avenue and legally  
described as:

i. Lots 171-172, Plan 73 Widdifield; North Bay; District of  
Nipissing; and

ii. Lots 165-170, Plan 73 Widdifield; North Bay; District of  
Nipissing

(hereinafter individually and collectively the "Subject Lands")

for a purchase price of \$102,000.00 and on such terms and conditions, as set out in the Agreement of Purchase and Sale;

2. authorize the Mayor, City Clerk and the City Solicitor to execute all appropriate purchase and sale documents as may be required;
3. authorize that the purchase price be paid from the Housing Accelerator Fund ("HAF") or the Build Faster Fund ("BFF") or the Property Development Reserve (#99535R) at the discretion of the Chief Financial Officer/Treasurer; and
4. authorize the by-law for the purchase of the "Subject Lands" be given three (3) readings on March 25, 2025.

Carried

**Res. # 2025-112**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That the following by-law be read a first and second time:

By-Law No. 2025-33 to authorize the execution of the Agreement of Purchase and Sale with Teresa Lynne Boase relating to the Purchase of Two (2) properties on May Avenue, North Bay.

Carried

**Res. # 2025-113**

Moved by Councillor Horsfield

Seconded by Councillor Inch

That the following by-law be read a third time and passed:

By-Law No. 2025-33 to authorize the execution of the Agreement of Purchase and Sale with Teresa Lynne Boase relating to the Purchase of Two (2) properties on May Avenue, North Bay.

Carried

**10. Giving Notice (Notice of Motion)**

**11. Confirmatory By-Law**

**Res. # 2025-114**

Moved by Councillor Lowery  
Seconded by Councillor Bain

That the following by-law be read a first and second time:

By-Law No. 2025-29 to confirm proceedings of the Regular Meeting of Council held on March 25, 2025.

Carried

**Res. # 2025-115**

Moved by Councillor Lowery  
Seconded by Councillor Bain

That the following by-law be read a third time and passed:

By-Law No. 2025-29 to confirm proceedings of the Regular Meeting of Council held on March 25, 2025.

Carried

**12. Adjournment**

**Res. # 2025-116**

Moved by Councillor Lowery  
Seconded by Councillor Vrebosch

That this Regular Meeting of Council do now adjourn at 8:07 p.m.

Carried

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Mayor Peter Chirico

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City Clerk Karen McIsaac

**Community Services Committee Report No. 2025-04**

April 8, 2025

To The Council  
Of The Corporation  
Of The City Of North Bay

Your Worship and Councillors:

The Community Services Committee presents Report No. 2025-04 and recommends:

That Council:

1. recognize the seven initiatives identified in the City of North Bay's Housing Accelerator Fund application as presented in Report to Council CSBU-2025-011 dated February 11, 2025, prepared by Adam Curran;
2. direct staff to examine the definition of "affordable housing" and report back to Council; and
3. authorize staff to amend the City's Housing Action Plan to reflect the seven initiatives.

All of which is respectfully submitted.

**Community Services Committee Report No. 2025-05**

April 8, 2025

To The Council  
Of The Corporation  
Of The City Of North Bay

Your Worship and Councillors:

The Community Services Committee presents Report No. 2025-05 and recommends:

That Council approve the Official Plan Amendment and Zoning By-Law Amendment as shown in Schedule 'A' and Schedule 'B' to Report to Council CSBU-2025-011 dated February 11, 2025, prepared by Adam Curran to implement four units as-of-right and to allow enabling policies for delegated approval for Planning Act decisions.

All of which is respectfully submitted.

**Community Services Committee Report No. 2025-06**

April 8, 2025

To The Council  
Of The Corporation  
Of The City Of North Bay

Your Worship and Councillors:

The Community Services Committee presents Report No. 2025-06 and recommends:

That Council:

1. approve the Official Plan Amendment as shown in Schedule 'C' to Report to Council CSBU-2025-011 dated February 11, 2025, prepared by Adam Curran to amend the Growth Community Improvement Plan to implement the 'Top-Up Funding' for additional residential units;
2. direct staff to bring forward amendments to the City of North Bay's Growth Community Improvement Plan in relation to specialized units within six (6) months; and
3. direct staff to consider any amendments related to specialized units to be retroactive to the date the plan comes into effect.

All of which is respectfully submitted.

6.1

North Bay, ON

April 8, 2025

**Subject:** Report from Karin Pratte dated March 26, 2025 re North Bay Drinking Water System 2024 Reporting

**File No.** \_\_\_\_\_ **Res.** 2025 - \_\_\_\_\_

**Moved by Councillor:** \_\_\_\_\_

**Seconded by Councillor:** \_\_\_\_\_

That Council receive Report to Council IO 2025-04 dated March 26, 2025 from Karin Pratte, relating to the 2024 North Bay Drinking Water System Annual Report, Summary Report and Drinking Water Quality Management Standard (DWQMS) Management Review for the North Bay Drinking Water System, for information purposes.

\_\_\_\_\_  
\_\_\_\_\_

Carried

Carried as amended

Lost

Conflict \_\_\_\_\_

Endorsement of Chair \_\_\_\_\_

Yeas \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Nays \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Record of Vote (*Upon Request of Councillor* \_\_\_\_\_)

Signature of Clerk \_\_\_\_\_



## City of North Bay Report to Council

Report No: IO-2025-004

Date: March 26, 2025

Originator: Karin Pratte, P.Eng.

Business Unit:

Department:

Infrastructure and Operations

Water Treatment Plant

Subject: North Bay Drinking Water System 2024 Reporting

Closed Session: yes  no

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### Recommendation

That North Bay City Council accepts for information the attached 2024 Annual Report, Summary Reports, and DWQMS Management Review for the North Bay Drinking Water System.

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### Background

In accordance with legislative requirements, attached is the Annual Reports, Summary Reports, and Drinking Water Quality management Standard (DWQMS) Management Review meeting minutes for the North Bay Drinking Water System for the year of 2024. It is required under Ontario Regulation 170/03 of the Safe Drinking Water Act that an Annual and Summary report be prepared for each calendar year and provided to the Ministry of Environment, Conservation and Parks (MECP) no later than February 28<sup>th</sup> of the following year. A copy of the report must also be provided to the Owner of the drinking water system as represented by the Mayor and Council.

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### Annual Report

#### *Description of the Drinking Water System*

The Annual Report starts with a description of the drinking water system. This includes the Water Treatment Plant and distribution facilities: Ellendale Reservoir, CFB Standpipe, Judge Valve Chamber, Birches Standpipe, Airport Standpipe and Cedar Heights Pumping Station.

#### *Description of Monetary Expenses Incurred*

The Annual Report lists major repair and replacements to the drinking water system in 2024. This includes equipment installed or replaced at the water

treatment plant and facilities along with watermain repair and replacements in the distribution system.

#### *List of all Adverse Water Quality Incidents*

There were 5 adverse water quality incidents for the North Bay drinking water system in 2024. All incidents were reported to the Ministry of the Environment and Medical Officer of Health as required and corrective actions were implemented immediately.

#### *Microbiological Testing Summary*

Weekly microbiological testing is required in the distribution system and facilities. Approximately 75-85 microbiological samples are taken monthly and tested for bacteria content. All samples met the Ontario Drinking Water Quality Standards.

#### *Operational Testing Summary*

Operational testing of relevant parameters is completed by operational staff and on-line analyzers. There are three tables included in this section of the report which indicate the parameter being tested, the number of samples taken, the range of results (minimum and maximum values) and the regulatory requirement. All results listed meet the Ontario Drinking Water Quality Standards.

#### *Inorganic, Organic, THM, PFAS and Lead Testing Summary*

Quarterly and annual sampling is required under the drinking water regulations. The charts on pages 10 through 18 list the results of this sampling. All results listed meet the Ontario Drinking Water Quality Standards with the exception of one lead plumbing sample which is noted in the Adverse Water Quality Incidents.

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### **Summary Report**

The North Bay drinking water system summary report is also included for your information. The report provides a description of the water treatment plant, lists the adverse water quality incidents, and presents the record of water takings and treated water consumption for the North Bay Water Treatment Plant for the stated period (2024) and compares it to the 13 years prior. The 2024 treated water volume delivered into the distribution system is down by 0.5% from 2023.

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### **DWQMS Management Review**

The City of North Bay drinking water system has a quality management system which adheres to the Drinking Water Quality Management Standard (DWQMS) as required by Ontario Regulation 188/07. It is a requirement of the DWQMS that a management review meeting be held annually to evaluate the continuing suitability, adequacy and effectiveness of the City of North Bay's Quality Management System. Results of the management review must be provided to Council. Please find attached meeting minutes from the

management review held in 2024.

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### **MECP Inspection Report**

The City of North Bay drinking water system is inspected annually by the Ministry of Environment Conservation and Parks (MECP). The inspection report provides an assessment of compliance and conformance of the drinking water system with applicable legislation (Safe Drinking Water Act). The report includes a corresponding Incident Rating Report (IRR) which is a summarized quantitative measure of the drinking water system's annual inspection. The attached inspection report demonstrates that City of North Bay drinking water system obtained an exceptional final inspection rating of 100%.

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### **Financial/Legal Implications**

It is required under the Safe Drinking Water Act that the Annual Report, Summary Report and DWQMS Management Review meeting minutes be provided to Council.

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### **Corporate Strategic Plan**

- Natural North and Near
- Affordable Balanced Growth
- Responsible and Responsive Government
- Economic Prosperity
- Spirited Safe Community

### **Specific Objectives**

Maintain compliance with applicable legislation

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### **Options Analysis**

Option 1: That North Bay City Council accepts for information the attached 2024 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System.

Option 2: That North Bay City Council does not accept the information. This is not recommended as it is a legislative requirement that Council receive this information.

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### **Recommended Option**

That North Bay City Council accepts for information the attached 2024 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System.

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Respectfully submitted,

Name: Karin Pratte, P.Eng.

Title: Senior Environment & Facilities Engineer

**I concur with this report and recommendation**

Name: Alan Korell, P.Eng.

Title: Interim City Engineer

Name: John Severino, P.Eng., MBA

Title: Chief Administrative Officer

Personnel designated for continuance:

Name: Karin Pratte, P.Eng.

Title: Senior Environment & Facilities Engineer

<b>Drinking-Water System Number:</b>	<b>220000460</b>
<b>Drinking-Water System Name:</b>	<b>North Bay Water Drinking Water System</b>
<b>Drinking-Water System Owner:</b>	<b>The Corporation of the City of North Bay</b>
<b>Drinking-Water System Category:</b>	<b>Large Municipal Residential</b>
<b>Period being reported:</b>	<b>January 1, 2024 to December 31, 2024</b>

**Complete if your Category is Large Municipal Residential or Small Municipal Residential**

Does your Drinking-Water System serve more than 10,000 people? Yes [  ] No [  ]

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

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

The Corporation of the City of North Bay  
P.O. Box 360  
200 McIntyre Street East  
North Bay, ON P1B 8H8

**Complete for all other Categories.**

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [  ] No [  ]

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [  ] No [  ]

**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [  ] No [  ]

Indicate how you notified system users that your annual report is available and is free of charge.  
[X] Public access/notice via the web  
[X] Public access/notice via a newspaper

## Describe your Drinking-Water System

The City of North Bay water treatment plant (WTP), water distribution facilities and water distribution piping system are owned and operated by the Corporation of the City of North Bay. The City of North Bay Water Treatment System is classified as a "Large Municipal Residential" Drinking-Water System, Class 3 Water Treatment Plant and Class 4 Water Distribution System with the Drinking-Water System Number: 220000460. The WTP is located at 248 Lakeside Drive in North Bay and treats water from Trout Lake which is part of the Mattawa River watershed. The WTP services a population of approximately 54,000, the permit to take water permits water consumption up to 79,500 cubic meters per day.

The water distribution facilities consist of the following:

Ellendale Reservoir, High lift Pump Station & Re-chlorination Facility;  
CFB Standpipe;  
Canadore Pumping Station;  
Cedar Heights Booster pumping station;  
Judge Avenue Valve Chamber;  
Birches Road Standpipe and Re-chlorination Station; and  
Airport Road Standpipe, Booster Pumping Station and Re-chlorination Facility.  
Larocque Rd. Standpipe

The membrane filtration water treatment plant has the design capacity of 79,500 cubic meters per day. The plant is a SCADA controlled membrane filtration system with ultraviolet and chlorine disinfection. The plant also doses fluoride, caustic for pH adjustment and Control Max for corrosion control prior to delivery to the distribution system.

The membrane filtration plant meets the Ontario Drinking Water Standards requirements for the removal/disinfection of 3-log *Giardia Lambia*, 2-log *Cryptosporidium* and 4-log Viruses. The membrane filtration Primary Barrier provides a 3- log *Giardia* removal, 2-log *Cryptosporidium* removal. The chlorine/UV disinfection Secondary Barrier provides for a 0.5 *Giardia* removal, 0.5-log *Cryptosporidium* removal and with chlorine addition gives a 4- log virus removal.

In general the North Bay WTP can be described as follows:

Intake

A 1200mm diameter 45 series polyethylene intake pipe, with a capacity of 80,000 cubic meters per day. The pipe, constructed in 1973, extends approximately 300 meters into Delaney Bay of Trout Lake and includes an intake structure consisting of a steel inlet bell mouth with fiber reinforced plastic (FRP) cage and is in approximately 21.5 meters of water at low water level.

Membrane Feed Pump Well/Prescreening

Two (2) parallel sub-surface well chambers with level monitoring containing, two (2) 6mm mesh manual prescreen in series, five (5) vertical turbine pumps (4 duty and one standby) each rated at 20 ML/d feeding the primary membrane system.

Membrane Feed Strainers

Five (5) 300 micron automatic membranes feed strainers (four duties and one standby).

**Treatment Plant Process Areas**

A building housing the following process components:

- Primary and secondary membrane filtration system;
- Primary and secondary UV disinfection system;
- Two (2) chlorine contact tanks;
- split high lift pump well
- three (3) chemical storage and delivery rooms housing membrane cleaning and neutralization chemical systems, pre-chlorination system, primary disinfection chemical system, secondary chlorination chemical system, pH adjustment system, fluoride and corrosion control addition system.

Also includes;

- High lift pumping room;
- Generator room;
- Electrical room.
- Compressor/blower room

**Administration Area**

Two floor administrative area including laboratory/control room, server room, multipurpose training room, offices, washrooms, women's and men's locker rooms, janitor room, building mechanical room and storage room.

**Membrane Filtration**

Eleven (11) pressurized primary membrane racks treating water from the membrane feed strainers, two(2) pressurized secondary membrane racks treating non-chemical backwash water from the primary membrane racks. The primary racks have a maximum production flow rate of 78.7 MLD based on raw water flow rate of 79.5 MLD, Ancillary systems including backwash pumps, instrument air for operating valves and integrity testing membranes, process blowers, and chemical cleaning and neutralization systems.

**UV Disinfection Systems**

Three (3) 600mm primary UV reactors (two duty and one standby) treating water from the eleven (11) pressurized primary membrane racks and two (2) secondary membrane racks. Two dedicated UV reactors for secondary membrane racks up stream of primary UV reactors. Each reactor contains medium pressure high intensity lamps housed in quartz sleeves; units equipped with self-cleaning mechanism and intensity sensors.

**Chemical systems for:**

Primary disinfection

Secondary (residual) disinfection

Fluoride Dosing

pH Adjustment

Corrosion Control

Membrane cleaning

Membrane cleaning solutions neutralization

**Chlorine Contact Tank #1 and #2**

Two (2) baffled chlorine contact tanks in series with capacities of 688 cubic meters in (tank #1) and 502 cubic meters (tank #2).

**High Lift Pump Well #1 and #2**

High lift pump well #1 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and two (2) constant speed vertical turbine high lift pumps each rated at 20 MLD. High lift pump well #2 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and one (1) constant speed vertical turbine high lift pump each rated at 20 MLD.

**Generator Room**

One (1) dual fuel generator set (NG/Diesel) with a rating of 2050KW, to provide power during peak hours and emergency situations.

**Wastewater Disposal System****Primary Membrane Backwash Tank**

Tank with a volume of approximately 310 cubic meters,

Two (2) membranes feed pumps supplying water to the Secondary Membrane System.

**Secondary Waste Tank**

Tank with a volume of approximately 130 cubic meters,

Two (2) pumps, one duty and one standby, to deliver water to the sanitary sewer.

**Neutralization Tank #1 and #2**

Two (2) tanks each with a volume of 150 cubic meters, pH and Chlorine Residual analyzers. Designed to dechlorinate and adjust pH to suitable levels for wastewater plant.

**Sanitary Sewage Disposal**

One sump with two (2) submersible pumps in the Administration Area and two (2) sumps and two (2) submersible pumps in the Process Area discharging to the sanitary sewer along Lakeside Drive

The treated water is pumped to the distribution system.

**The water distribution facilities can be described as follows:**

**Ellendale Reservoir High lift Pumping Station and Re-chlorination Facility**

The facility is a reinforced concrete at-grade, double cell, un-baffled, treated water reservoir, located at



the east end of Ellendale Drive. The reservoir has an approximate capacity of 18,200 cubic meters, with dimensions of 71 meters by 38 meters by 7 meters. The facility is equipped with a sodium hypochlorite re-chlorination system, on-line continuous water quality analyzer for free chlorine residual monitoring. A 500KW, 346/600V standby diesel generator is available to operate the facility during power outages.

#### Birch's Road Standpipe and Re-chlorination Station

The facility consists of one (1) 39 meter high, 19 meter diameter, 11,775 cubic meter capacity with a hydrostatic mixing system, the steel standpipe is located near the southwest corner of Birch's Road and Booth Road. The facility is equipped with a sodium hypochlorite re-chlorination system and on-line continuous water quality analyzer for free chlorine. A fixed 7.5kW, 120/240 Volt single phase diesel powered generator to power the re-chlorination and SCADA communications during prolonged power outages.

#### Larocque Rd. Standpipe

The facility consists of one (1) 22 meter high, 15meter diameter, and 4,000 cubic meter capacity glass fused to steel standpipe with a hydrostatic mixing system. The standpipe is located at the North end of the city on Larocque Rd. to provide water pressure to future development, along with the Canadore College and Nippissing University. There is a 10KW, 120/240V backup generator to maintain communication and SCADA controls during power outages.

#### Judge Avenue Valve Chamber

The facility consists of two (2) valves and chlorine analyzer designated as the distribution residual compliance point. The station is located near the northeast corner of Judge Avenue and Lakeshore Drive. The facility is equipped with a fixed 7.5kW 120/240 Volt single phase, diesel powered generator to power the valve and SCADA communications during prolonged power outages. Valve control for pressure or tower level integrated with Birches Standpipe. The equipment for a re-chlorination station is located at the facility however not currently in use.

#### CFB Standpipe

The standpipe is a glass fused to steel un-baffled tank with an electric mixer inside, it is located on the Airport Standpipe property and shares all the buildings resources such as the PLC and standby generator. This Standpipe has a volume of 2,280m<sup>3</sup> and supplies water to zone 3 and the Airport Standpipe. The piping at this facility allows this standpipe to also supply water for zone 5 during emergencies and maintenance activities.

#### Canadore Pumping Station

The facility is equipped with two (2) PRV's, one (1) six inch and one (1) two inch which are responsible for providing water from zone 2 into zone 1. This helps with water age in Laroque standpipe and provides extra fire flow water available to the lower zone.

**Cedar Heights Booster Station**

This Facility is equipped with two (2) 100 hp high lift pumps responsible for filling the Larocque Rd. Standpipe with a pressurized cushion tank to protect pressure surges in the grid. There is an on-line continuous water quality analyzer to monitor free chlorine residual and a 357kW, 347/600 Volt, 3 phase diesel generator to provide equipment power and SCADA communications during prolonged power outages.

**Airport Standpipe, Booster Pumping Station**

This 4,000 cubic meter water storage standpipe, booster pumping station and re-chlorination facility was constructed in 2009. With the standpipe, high lift pumps, pressurized cushion tanks and a 500kW back-up diesel generator. This system consists of a standpipe and a series of pumps to facilitate filling of the standpipe and providing pressure to the Airport Rd. and Carmichael Dr. area (Zone 5). Filling the standpipe utilizes three booster pumps (2 duty and 1 standby). The standpipe provides suction pressure for four booster pumps (3 duties and 1 standby) and two fire pumps to provide pressure for Zone 5. Zone 5 is equipped with four (4) pneumatic tanks to mitigate minor pressure fluctuations within the distribution system, and to provide some volume of available storage during power interruptions while the standby power system engages.

**List all water treatment chemicals used over this reporting period**

Sodium Hydroxide  
Sodium Hypochlorite  
HydroFluorosilicic Acid  
Control Max

**Were any significant expenses incurred to?**

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred treatment and distribution of water to Major repair and replacement to ensure reliable the water system.

**The major capital repairs and replacements include:**

- Replaced multiple chemical dosing pumps on chlorination system at the water treatment plant.
- Upgraded Air reliefs on multiple filter rack runs to correct air issues.
- Rebuilt CIP pump for rack maintenance cleaning.
- Repaired multiple Turbidity analyzers which were causing issues.
- Replaced two water level sensors on UV#1 and UV#2, long term issue causing units to shut down frequently.
- Replaced multiple electronic ballasts in UV units as they failed.
- Replaced multiple defective valves and actuators on filter racks.
- Repaired HVAC system for the water treatment plant.
- Hired an engineer consultant to design a chlorination system for Cedar Heights.

- Engineer Consultant was hired to design a plan to phase in our new filter rack modules as ours are theoretically near the end of life.
- Rebuilt motor for High lift pump #4 after dead short in stator.
- Installation of 205 m of 300mm watermain on McKeown St. from One Kids Place to McNamara St.
- Installation of 215m of 200mm water main on Bond St. between Kirkpatrick St. to abandoned Railway
- Replaced 51m of 150mm watermain on Wickstead Ave. looping into 200mm watermain on Sage Rd. along with three new isolation valves.
- Relined 362m of 250mm water main on Trout Lake Rd. from Giroux St. to Connaught Ave.
- Relined 232m of 600mm water main on Giroux St. to south side of Trout Lake Rd.
- Relined 293.5m of 400mm water main in Lee Park under the overpass on Lakeshore Dr. to Veterans Soccer Field.
- ROV inspection of Airport standpipe was conducted to inspect the internal shape of the tank.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
April 3, 2024	Overgrowth on plate for Total Coliform and E-coli test from bacterial sample.	Plate Overgrown	CFU/100ml	A bacteria sample from 170 6th Ave. W collected on April 3, 2024 had an overgrowth on the plate testing for Total Coliform and E-Coli. Lab reported the bacterial adverse on April 4, 2024 and city reported to SAC and MOH along with flushing and re-sampling as required by regulations. AWQI# 164743	April 4, 2024
May 16, 2024	Missed Lead Sample	N/A	mg/L	The contracted lab missed one residential sample required by regulation before deadline of April 15. Notified MECP local Inspector of incident of non-compliance.	May 17, 2024
October 9, 2024	Free Chlorine Residual below 0.05mg/L	0.00	mg/L	Chlorine sample taken from 110 Rita Rd. getting a 0.00mg/L free chlorine residual, reported to SAC and MOH as per regulation. Flushed the water main to restore residual and bacterial sample collected. AWQI # 166610	October 9, 2024
October 11, 2024	Lead Exceedance Plumbing	0.0118	mg/L	Sample from plumbing at 408 Aberdeen Ave. resulted in a lead exceedance of 0.0118 mg/L. Reported to MOH and MECP as per	October 18, 2024

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
				regulations on October 18, 2024. Results sent to homeowner through registered mail	
October 28, 2024	Free Chlorine Residual below 0.05mg/L	0.03	mg/L	Chlorine sample taken from 73 Campbell Ave. getting a 0.03mg/L free chlorine residual, reported to SAC and MOH as per regulation. Flushed the water main to restore residual and bacterial sample collected. This sample was taken post water filter and would not represent our distribution system, reporting out of precaution. AWQI # 166766	October 28, 2024

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.coli (#)-(#)	Range of Total Coliform Results (#)-(#)	Number of samples Background Colony Counts	Range of Back-ground Colony Counts	Number of HPC Samples	Range of HPC Results (#)-(#)
<b>Raw</b>	53	0 - OG	3 - OG	53	9 - >200	N/A	N/A
<b>Treated</b>	53	0 - 0	0 - 0	53	0 - 0	53	0 - 4
<b>Distribution Fixed Sites</b>	371	0 - 0	0 - 0	371	0 - 0	106	0 - 4
<b>Distribution Random Sites</b>	530	0 - 0	0 - 0	530	0 - 11	159	0 - 49

\*\* One Sample had Overgrown Plate for bacterial sample on April 3, 2024 but not part of the 530 samples taken weekly AWQI#164743\*\*

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

<b>POE Grab Samples</b>	Number of Grab Samples	Range of Results (min #)-(max #)	ODWQS/Operational Requirement
<b>Turbidity</b>	<b>240</b>	<b>0.042 – 0.782 NTU</b>	<b>1.0 NTU max</b>
<b>Chlorine</b>	<b>296</b>	<b>1.04 – 1.63 mg/L</b>	<b>0.05 mg/L min.</b>
<b>Fluoride (If the DWS provides fluoridation)</b>	<b>222</b>	<b>0.55 – 0.89 mg/L</b>	<b>1.5 mg/L max</b>

<b>Distribution Free Chlorine Grab Samples</b>	Number of Grab Samples	Range of Results (min #)-(max #)	ODWQS Requirement
<b>Chlorine Fixed Sites</b>	<b>3283</b>	<b>0.27 – 3.49 mg/L</b>	<b>0.05mg/L min.</b>
<b>Chlorine Random Sites</b>	<b>530</b>	<b>0.15 - 1.27 mg/L</b>	<b>0.05 mg/L min.</b>

\*One sample taken October 9, 2024 getting a residual of 0.00 mg/L due to low water usage and was not part of regular 530 samples\*

<b>POE on-line Continuous Analyzers</b>	Number of Grab Samples	Range of Results (min #)-(max #)	ODWQS/Operational Requirement
<b>Turbidity</b>	<b>8760</b>	<b>0.004 – 0.995 NTU</b>	<b>5.0 NTU max</b>
<b>Chlorine</b>	<b>8760</b>	<b>0.91 – 2.30 mg/L</b>	<b>0.05 mg/L min.</b>
<b>Fluoride (If the DWS provides fluoridation)</b>	<b>8760</b>	<b>0.0 – 1.10 mg/L</b>	<b>1.5 mg/L max</b>

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	15 Jul 24	<0.0001	mg/L	no
Arsenic	15 Jul 24	0.0001	mg/L	no
Barium	15 Jul 24	0.011	mg/L	no
Boron	15 Jul 24	<0.005	mg/L	no
Cadmium	15 Jul 24	<0.000015	mg/L	no
Chromium	15 Jul 24	<0.0010	mg/L	no
Mercury	15 Jul 24	<0.00002	mg/L	no
Selenium	15 Jul 24	<0.001	mg/L	no
Uranium	15 Jul 24	<0.00005	mg/L	no
Sodium	15 Jul 24	11.7	mg/L	no
Fluoride	15 Jul 24	0.577	mg/L	no
Nitrite	3 Jan 24	<RDL	mg/L	no
	4 Apr 24	<MDL	mg/L	
	3 Jul 24	<RDL	mg/L	
	7 Oct 24	<RDL	mg/L	
Nitrate	3 Jan 24	0.150	mg/L	no
	4 Apr 24	0.197	mg/L	
	3 Jul 24	0.209	mg/L	
	7 Oct 24	0.235	mg/L	

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

**Summary of lead testing under Schedule 15.1 during this reporting period**

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

	Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Round 1 Dec 15 2023 to Apr 15 2024	Plumbing	43	0.00002 – 0.00528	mg/L	0
	Distribution	8	0.00010-0.00159	mg/L	0
Round 2 June 15 2024 to Oct 15 2024	Plumbing	44	0.00003 – 0.01180	mg/L	1
	Distribution	8	0.00013-0.00032	mg/L	0

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	15 Jul 24	<0.0003	mg/L	no
Atrazine + N-dealkylated metabolites	15 Jul 24	<0.0005	mg/L	no
Azinphos-methyl	15 Jul 24	<0.001	mg/L	no
Benzene	15 Jul 24	<0.0005	mg/L	no
Benzo(a)pyrene	15 Jul 24	<0.000006	mg/L	no
Bromoxynil	15 Jul 24	<0.0005	mg/L	no
Carbaryl	15 Jul 24	<0.003	mg/L	no
Carbofuran	15 Jul 24	<0.001	mg/L	no
Carbon Tetrachloride	15 Jul 24	<0.0002	mg/L	no
Chlorpyrifos	15 Jul 24	<0.0005	mg/L	no
Diazinon	15 Jul 24	<0.001	mg/L	no
Dicamba	15 Jul 24	<0.001	mg/L	no
1,2-Dichlorobenzene	15 Jul 24	<0.0005	mg/L	no
1,4-Dichlorobenzene	15 Jul 24	<0.0005	mg/L	no
1,2-Dichloroethane	15 Jul 24	<0.0005	mg/L	no
1,1-Dichloroethylene (vinylidene chloride)	15 Jul 24	<0.0005	mg/L	no
Dichloromethane	15 Jul 24	<0.005	mg/L	no
2-4 Dichlorophenol	15 Jul 24	<0.0002	mg/L	no
2,4-Dichlorophenoxy acetic acid	15 Jul 24	<0.001	mg/L	no
Diclofop-methyl	15 Jul 24	<0.0009	mg/L	no
Dimethoate	15 Jul 24	<0.001	mg/L	no
Diquat	15 Jul 24	<0.005	mg/L	no
Diuron	15 Jul 24	<0.005	mg/L	no
Glyphosate	15 Jul 24	<0.025	mg/L	no
HAA (NOTE: show latest annual average)		47.99	ug/L	no
Malathion	15 Jul 24	<0.005	mg/L	no
Metolachlor	15 Jul 24	<0.003	mg/L	no
Metribuzin	15 Jul 24	<0.003	mg/L	no
Monochlorobenzene	15 Jul 24	<0.0005	mg/L	no
Paraquat	15 Jul 24	<0.001	mg/L	no
Pentachlorophenol	15 Jul 24	<0.0002	mg/L	no
Phorate	15 Jul 24	<0.0003	mg/L	no
Picloram	15 Jul 24	<0.005	mg/L	no
Polychlorinated Biphenyls(PCB)	15 Jul 24	<0.00005	mg/L	no
Prometryne	15 Jul 24	<0.0001	mg/L	no
Simazine	15 Jul 24	<0.0005	mg/L	no
THM (NOTE: show latest annual average)		69.86	ug/L	no
Terbufos	15 Jul 24	<0.0005	mg/L	no

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Tetrachloroethylene	15 Jul 24	<0.0005	mg/L	no
2,3,4,6-Tetrachlorophenol	15 Jul 24	<0.0002	mg/L	no
Triallate	15 Jul 24	<0.01	mg/L	no
Trichloroethylene	15 Jul 24	<0.0005	mg/L	no
2,4,6-Trichlorophenol	15 Jul 24	<0.0002	mg/L	no
Trifluralin	15 Jul 24	<0.0005	mg/L	no
Vinyl Chloride	15 Jul 24	<0.0002	mg/L	no
2 Methyl-4-Chlorophenoxyacetic acid (MCPA)	15 Jul 24	<0.01	mg/L	no

THM Dist. Sample Location Mid-Canada Line & Pinewood Park Sample Stations	1 <sup>st</sup> Quarter Result Value	2 <sup>nd</sup> Quarter Result Value	3 <sup>rd</sup> Quarter Result Value	4 <sup>th</sup> Quarter Result Value	Unit of Measure	Exceed- dance
<b>Sample Period</b>	Jan. 2 – Mar. 6, 2024	Apr.2 – June 3, 2024	July 2 – Sept. 4, 2024	Oct. 2 – Dec. 10, 2024	mg/L	
<b>Bromodichloromethane (Average)</b>	<b>0.0040</b> <b>0.0040</b>	<b>0.0040</b> <b>0.0040</b>	<b>0.0050</b> <b>0.0047</b>	<b>0.0040</b> <b>0.0035</b>	mg/L	
<b>Bromoform(Average)</b>	<b>&lt;0.005</b> <b>&lt;0.005</b>	<b>&lt;0.005</b> <b>&lt;0.005</b>	<b>&lt;0.005</b> <b>&lt;0.005</b>	<b>&lt;0.005</b> <b>&lt;0.005</b>	mg/L	
<b>Chloroform(Average)</b>	<b>0.09350</b> <b>0.09533</b>	<b>0.10467</b> <b>0.11367</b>	<b>0.12267</b> <b>0.11100</b>	<b>0.09000</b> <b>0.07100</b>	mg/L	
<b>Dibromochloromethane (Average)</b>	<b>&lt;0.002</b> <b>&lt;0.002</b>	<b>&lt;0.002</b> <b>&lt;0.002</b>	<b>&lt;0.002</b> <b>&lt;0.002</b>	<b>&lt;0.002</b> <b>&lt;0.002</b>	mg/L	
<b>Total Trihalomethanes</b>	<b>0.09840</b>	<b>0.11333</b>	<b>0.12167</b>	<b>0.08450</b>	mg/L	
<b>THM All Distribution sites (Averages)</b>	<b>1<sup>st</sup> Quarter Result Value</b>	<b>2<sup>nd</sup> Quarter Result Value</b>	<b>3<sup>rd</sup> Quarter Result Value</b>	<b>4<sup>th</sup> Quarter Result Value</b>	<b>Unit of Measure</b>	<b>Exceed- dance</b>
<b>Sample Period</b>	Jan. 2 – Mar. 6, 2024	Apr.2 – June 3, 2024	July 2, - Sep. 4, 2024	Oct. 2 – Dec. 10, 2024	mg/L	
<b>Bromodichloromethane</b>	<b>0.0022</b>	<b>0.0025</b>	<b>0.0027</b>	<b>0.0018</b>	mg/L	
<b>Bromoform</b>	<b>&lt;0.005</b>	<b>&lt;0.005</b>	<b>&lt;0.005</b>	<b>&lt;0.005</b>	mg/L	
<b>Chloroform</b>	<b>0.06822</b>	<b>0.07739</b>	<b>0.07144</b>	<b>0.05125</b>	mg/L	
<b>Dibromochloromethane</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	mg/L	
<b>Total Trihalomethanes</b>	<b>0.07106</b>	<b>0.08022</b>	<b>0.07447</b>	<b>0.05369</b>	mg/L	



THM Dist. Sample Location Mid-Canada Line & Pinewood Park Sample Stations	1 <sup>st</sup> Quarter Result Value	2 <sup>nd</sup> Quarter Result Value	3 <sup>rd</sup> Quarter Result Value	4 <sup>th</sup> Quarter Result Value	Unit of Measure	Exceed- dance
<b>Total Trihalomethanes 4 Quarter Running Average (Random &amp; Fixed Sites Included)</b>				<b>0.06986</b>	<b>mg/L</b>	<b>No</b>

HAA Distribution Sample Locations Judge Valve & HLPS (Averages)	1 <sup>st</sup> Quarter Result Value	2 <sup>nd</sup> Quarter Result Value	3 <sup>rd</sup> Quarter Result Value	4 <sup>th</sup> Quarter Result Value	Unit of Measure	Exceed- dance
<b>Sample Period</b>	Jan 1 – Mar. 31, 2024	Apr.1 – June. 30, 2024	July 1, - Sep. 30, 2024	Oct. 1 – Dec. 31, 2024		
<b>(Mono)Bromoacetic Acid</b>	< RDL < RDL	< 0.0029 < 0.0029	< 0.0029 < 0.0029	< 0.0029 < 0.0029	mg/L	
<b>(Mono) Chloroacetic Acid</b>	< RDL < RDL	< 0.0047 < 0.0047	< 0.0047 < 0.0047	< 0.0047 < 0.0047	mg/L	
<b>Dibromoacetic Acid</b>	< RDL < RDL	< 0.002 < 0.002	< 0.002 < 0.002	< 0.002 < 0.002	mg/L	
<b>Dichloroacetic Acid</b>	0.0218 0.0208	0.0279 0.0210	0.0203 0.0245	0.0186 0.0134	mg/L	
<b>Trichloroacetic Acid</b>	0.0260 0.0264	0.0397 0.0235	0.0273 0.0347	0.0240 0.0140	mg/L	
<b>Avg.Total Haloacetic Acids</b>	<b>0.04750</b>	<b>0.05605</b>	<b>0.05340</b>	<b>0.03500</b>	<b>mg/L</b>	
<b>Total Haloacetic Acid Running Quarterly Average</b>				<b>0.04799</b>	<b>mg/L</b>	<b>No</b>

<b>Quarterly PFAS Sample (Range)</b>	<b>1<sup>st</sup> Quarter Result Value</b>	<b>2<sup>nd</sup> Quarter Result Value</b>	<b>3<sup>rd</sup> Quarter Result Value</b>	<b>4<sup>th</sup> Quarter Result Value</b>	<b>Unit of Measure</b>	<b>Exceed -dance</b>
	<b>Jan. 9, 2024</b>	<b>April 9, 2024</b>	<b>July 9, 2024</b>	<b>October 7, 2024</b>	<b>ng/L</b>	
<b>Perfluorodecanoic Acid (PFDA)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Perfluorododecanoic Acid (PFDOA)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Perfluorodecane Sulfonic Acid (PFDS)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Perfluoroheptanoic Acid 3 (PFHPA)</b>	3.1	3.5	3.2	3.3	ng/L	
<b>Perfluorohexanoic Acid (PFHXA)</b>	5.5	5.9	5.7	4.9	ng/L	
<b>Perfluorohexane Sulfonic Acid (PFHXS)</b>	11.0	12.7	9.3	11.7	ng/L	
<b>Perfluorononanoic Acid (PFNA)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Perfluorooctanoic Acid (PFOA)</b>	2.9	3.6	3.2	3.1	ng/L	
<b>Perfluorooctane Sulfonic Acid (PFOS)</b>	26.6	32.2	25.7	27.2	ng/L	
<b>Perfluorooctane Sulfonamide (PFOSA)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Perfluoroundecanoic Acid (PFUNA)</b>	<2.0	<2.0	<2.0	<2.0	ng/L	
<b>Total Sum for Quarter</b>	<b>49.1</b>	<b>57.9</b>	<b>47.1</b>	<b>50.2</b>	<b>ng/L</b>	<b>No</b>

**\*\* Sample Results and Sums are representing Treated Samples at POE. \*\*\*\***

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	½ MAC VALUE	MAC VALUE	Date of Sample
THM	0.0740	mg/L	0.050	0.100	Jan.2,2024
THM	0.0890	mg/L	0.050	0.100	Jan.2,2024
THM	0.0520	mg/L	0.050	0.100	Jan.2,2024
THM	0.0540	mg/L	0.050	0.100	Jan.2,2024
THM	0.0520	mg/L	0.050	0.100	Jan.2,2024
THM	0.0620	mg/L	0.050	0.100	Jan.2,2024
THM	0.0630	mg/L	0.050	0.100	Jan.2,2024
THM	0.0670	mg/L	0.050	0.100	Jan.2,2024
THM	0.0890	mg/L	0.050	0.100	Jan.2,2024
THM	0.1080	mg/L	0.050	0.100	Jan.2,2024
PFAS(Raw)	56.40	ng/L	35.00	70.00	Jan.9,2024
PFAS(Treated)	49.10	ng/L	35.00	70.00	Jan.9,2024
THM	0.0740	mg/L	0.050	0.100	Jan.10,2024
THM	0.0710	mg/L	0.050	0.100	Jan.10,2024
THM	0.0710	mg/L	0.050	0.100	Feb.5,2024
THM	0.0510	mg/L	0.050	0.100	Feb.5,2024
THM	0.0530	mg/L	0.050	0.100	Feb.5,2024
THM	0.0900	mg/L	0.050	0.100	Feb.5,2024
THM	0.0770	mg/L	0.050	0.100	Feb.5,2024
THM	0.0850	mg/L	0.050	0.100	Feb.5,2024
THM	0.0610	mg/L	0.050	0.100	Feb.5,2024
THM	0.0750	mg/L	0.050	0.100	Feb.5,2024
THM	0.0620	mg/L	0.050	0.100	Feb.5,2024
THM	0.0960	mg/L	0.050	0.100	Feb.5,2024
THM	0.0700	mg/L	0.050	0.100	Feb.7,2024
THM	0.0790	mg/L	0.050	0.100	Feb.7,2024
THM	0.0740	mg/L	0.050	0.100	Mar.4,2024
THM	0.0870	mg/L	0.050	0.100	Mar.4,2024
THM	0.1040	mg/L	0.050	0.100	Mar.4,2024
THM	0.0550	mg/L	0.050	0.100	Mar.4,2024
THM	0.0610	mg/L	0.050	0.100	Mar.4,2024
THM	0.0540	mg/L	0.050	0.100	Mar.4,2024
THM	0.0600	mg/L	0.050	0.100	Mar.4,2024
THM	0.0650	mg/L	0.050	0.100	Mar.4,2024
THM	0.0940	mg/L	0.050	0.100	Mar.4,2024
HAA	0.0478	mg/L	0.040	0.080	Mar.5,2024
HAA	0.0472	mg/L	0.040	0.080	Mar.5,2024
THM	0.0620	mg/L	0.050	0.100	Mar.6,2024
THM	0.0680	mg/L	0.050	0.100	Mar.6,2024
THM	0.0860	mg/L	0.050	0.100	Apr.2,2024

Parameter	Result Value	Unit of Measure	½ MAC VALUE	MAC VALUE	Date of Sample
THM	0.1090	mg/L	0.050	0.100	Apr.2,2024
THM	0.1080	mg/L	0.050	0.100	Apr.2,2024
THM	0.0720	mg/L	0.050	0.100	Apr.2,2024
THM	0.0620	mg/L	0.050	0.100	Apr.2,2024
THM	0.0660	mg/L	0.050	0.100	Apr.2,2024
THM	0.0560	mg/L	0.050	0.100	Apr.2,2024
THM	0.0750	mg/L	0.050	0.100	Apr.2,2024
THM	0.0780	mg/L	0.050	0.100	Apr.2,2024
THM	0.1070	mg/L	0.050	0.100	Apr.2,2024
THM	0.0850	mg/L	0.050	0.100	Apr.4,2024
THM	0.0960	mg/L	0.050	0.100	Apr.4,2024
PFAS(Raw)	56.80	ng/L	35.00	70.00	Apr.9,2024
PFAS(Treated)	57.90	ng/L	35.00	70.00	Apr.9,2024
THM	0.0840	mg/L	0.050	0.100	May 7,2024
THM	0.0910	mg/L	0.050	0.100	May 7,2024
THM	0.0780	mg/L	0.050	0.100	May 7,2024
THM	0.0830	mg/L	0.050	0.100	May 7,2024
THM	0.1220	mg/L	0.050	0.100	May 7,2024
THM	0.0870	mg/L	0.050	0.100	May 7,2024
THM	0.0610	mg/L	0.050	0.100	May 7,2024
THM	0.0550	mg/L	0.050	0.100	May 7,2024
THM	0.0680	mg/L	0.050	0.100	May 7,2024
THM	0.0690	mg/L	0.050	0.100	May 7,2024
THM	0.0740	mg/L	0.050	0.100	May 7,2024
THM	0.1120	mg/L	0.050	0.100	May 7,2024
HAA	0.0445	mg/L	0.040	0.080	June 3,2024
HAA	0.0676	mg/L	0.040	0.080	June 3,2024
THM	0.0790	mg/L	0.050	0.100	June 3,2024
THM	0.0690	mg/L	0.050	0.100	June 3,2024
THM	0.1230	mg/L	0.050	0.100	June 3,2024
THM	0.0930	mg/L	0.050	0.100	June 3,2024
THM	0.0860	mg/L	0.050	0.100	June 3,2024
THM	0.0620	mg/L	0.050	0.100	June 3,2024
THM	0.0560	mg/L	0.050	0.100	June 3,2024
THM	0.0500	mg/L	0.050	0.100	June 3,2024
THM	0.0660	mg/L	0.050	0.100	June 3,2024
THM	0.0660	mg/L	0.050	0.100	June 3,2024
THM	0.1070	mg/L	0.050	0.100	June 3,2024
THM	0.1270	mg/L	0.050	0.100	July 2,2024
THM	0.0880	mg/L	0.050	0.100	July 2,2024
THM	0.0840	mg/L	0.050	0.100	July 2,2024
THM	0.0590	mg/L	0.050	0.100	July 2,2024
THM	0.0540	mg/L	0.050	0.100	July 2,2024

Parameter	Result Value	Unit of Measure	½ MAC VALUE	MAC VALUE	Date of Sample
THM	0.0510	mg/L	0.050	0.100	July 2,2024
THM	0.0600	mg/L	0.050	0.100	July 2,2024
THM	0.1060	mg/L	0.050	0.100	July 2,2024
PFAS(Raw)	48.00	ng/L	35.00	70.00	July 9,2024
PFAS(Treated)	47.10	ng/L	35.00	70.00	July 9,2024
THM	0.0680	mg/L	0.050	0.100	July 10,2024
THM	0.0810	mg/L	0.050	0.100	July 10,2024
Sodium	11.70	mg/L	10.00	20.00	July 15,2024
THM	0.0540	mg/L	0.050	0.100	Aug. 6,2024
THM	0.1390	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0910	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0840	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0640	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0550	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0670	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0620	mg/L	0.050	0.100	Aug. 6,2024
THM	0.1160	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0670	mg/L	0.050	0.100	Aug. 14,2024
THM	0.0950	mg/L	0.050	0.100	Sept.3,2024
THM	0.1180	mg/L	0.050	0.100	Sept.3,2024
THM	0.0560	mg/L	0.050	0.100	Sept.3,2024
THM	0.0650	mg/L	0.050	0.100	Sept.3,2024
THM	0.0580	mg/L	0.050	0.100	Sept.3,2024
THM	0.0820	mg/L	0.050	0.100	Sept.3,2024
THM	0.0610	mg/L	0.050	0.100	Sept.3,2024
THM	0.0590	mg/L	0.050	0.100	Sept.3,2024
THM	0.0550	mg/L	0.050	0.100	Sept.3,2024
THM	0.1240	mg/L	0.050	0.100	Sept.3,2024
THM	0.0790	mg/L	0.050	0.100	Sept.4,2024
THM	0.0740	mg/L	0.050	0.100	Sept.4,2024
HAA	0.0592	mg/L	0.040	0.080	Sept.4,2024
HAA	0.0476	mg/L	0.040	0.080	Sept.4,2024
THM	0.0630	mg/L	0.050	0.100	Oct.2,2024
THM	0.0580	mg/L	0.050	0.100	Oct.2,2024
THM	0.0500	mg/L	0.050	0.100	Oct.7,2024
THM	0.0930	mg/L	0.050	0.100	Oct.7,2024
THM	0.0640	mg/L	0.050	0.100	Oct.7,2024
THM	0.0630	mg/L	0.050	0.100	Oct.7,2024
THM	0.0690	mg/L	0.050	0.100	Oct.7,2024
PFAS(Raw)	53.80	ng/L	35.00	70.00	Oct.7,2024
PFAS(Treated)	50.20	ng/L	35.00	70.00	Oct.7,2024
THM	0.0590	mg/L	0.050	0.100	Nov.4,2024
THM	0.0550	mg/L	0.050	0.100	Nov.4,2024

Parameter	Result Value	Unit of Measure	½ MAC VALUE	MAC VALUE	Date of Sample
<b>THM</b>	<b>0.0760</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0960</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0520</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0520</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0560</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0750</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0800</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.4,2024</b>
<b>THM</b>	<b>0.0670</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.6,2024</b>
<b>THM</b>	<b>0.0660</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Nov.6,2024</b>
<b>THM</b>	<b>0.0580</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.100</b>	<b>Dec.10,2024</b>
<b>HAA</b>	<b>0.0426</b>	<b>mg/L</b>	<b>0.040</b>	<b>0.080</b>	<b>Dec.10,2024</b>

\*\*\*PFAS limits are not regulated at this point, the 70ng/L is a recommended limit by MECP\*\*\*

\*\*\*THM and HAA (MAC Limits) our calculated by Running Quarterly Averages \*\*\*

## 2024 SUMMARY REPORT FOR THE NORTH BAY WATER TREATMENT SYSTEM

This report is a summary of water quality information for the North Bay Water Treatment System, published in accordance with Schedule 22 of Ontario’s Drinking-Water Systems Regulation for the reporting period of January 1, 2024 to December 31, 2024. This report is based on all information received within the stated reporting period and items that remained outstanding in the last reporting periods that have been carried forward.

The North Bay Water Treatment System is categorized as a Large Municipal Residential Drinking Water System. The City of North Bay is the Operating Authority for the Water Treatment Plant and water distribution system. The following table lists the requirements that the system failed to meet and the measures taken to correct the failure:

The following is a list of the adverse sampling results from the North Bay WTP and Distribution System (DS) over the year of 2024.

<b>List the requirement(s) the system failed to meet</b>	<b>Specify duration of the failure (i.e. date(s))</b>	<b>Describe the measures taken to correct the failure</b>	<b>Status (complete or outstanding)</b>
Overgrowth on plate for Total Coliform and E-coli test from bacterial sample.	April 3, 2024 - April 4, 2024	A bacteria sample from 170 6 <sup>th</sup> Ave. W collected on April 3, 2024 had an overgrowth on the plate testing for Total Coliform and E-Coli. Lab reported the bacterial adverse on April 4, 2024 and city reported to SAC and MOH along with flushing and re-sampling as required by regulations. AWQI# 164743	Complete
Missed Lead Plumbing Sample	May 16, 2024	The contracted lab missed one residential sample required by regulation before deadline of April 15. Notified MECP local Inspector of incident of non-compliance.	Complete
Free Chlorine Residual below 0.05mg/L	October 9, 2024	Chlorine sample taken from 110 Rita Rd. getting a 0.00mg/L free chlorine residual, reported to SAC and MOH as per regulation. Flushed the water main to restore residual and bacterial sample collected. AWQI # 166610	Complete

List the requirement(s) the system failed to meet	Specify duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
Lead Exceedance Plumbing	October 11, 2024- October 18, 2024	Sample from plumbing at 408 Aberdeen Ave. resulted in a lead exceedance of 0.0118 mg/L. Reported to MOH and MECP as per regulations on October 18, 2024. Results sent to homeowner through registered mail.	Complete
Free Chlorine Residual below 0.03 mg/L	October 28, 2024	Chlorine sample taken from 73 Campbell Ave. getting a 0.03mg/L free chlorine residual, reported to SAC and MOH as per regulation. Flushed the water main to restore residual and bacterial sample collected. This sample was taken post water filter and would not represent our distribution system, reporting out of precaution. AWQI # 166766	Complete

The North Bay WTP has the design capacity of 79,500 cubic meters of water per day. The WTP is a SCADA controlled membrane filtration system with ultraviolet and chlorine disinfection systems. The plant also includes fluoride addition along with caustic for pH adjustment and control max for corrosion control prior to delivery to the distribution. The WTP meets the Ontario Drinking Water Standards requirements for the removal/disinfection of 2-log *Cryptosporidium* oocysts, 3-log *Giardia* cysts, and 4-log Viruses.

The North Bay WTP achieves the above performance criteria using membrane filtration (0.1 micron pore size), ultraviolet (UV) inactivation and chlorine disinfection.

The filtration process meets the criteria listed in the Procedure for Disinfection of Drinking Water in Ontario for membrane filtration, including;

1. Maintain effective backwash procedures, including filter-to-waste or an equivalent procedure, to ensure that the effluent turbidity requirements are met at all times;
2. Monitor integrity of the membrane by continuous particle counting or equivalent effective means (e.g., intermittent pressure decay measurements) (Note: intermittent pressure decay monitored at the North Bay WTP).
3. Continuously monitor filtrate turbidity; and,
4. Meet the performance criterion for filtered water turbidity of less than or equal to 0.1 NTU in 99% of the measurements each month.

The following is a breakdown of the pathogen removal credits for the North Bay WTP:

- Membrane filtration provides 3.0 log removal of *Giardia*, 2-log removal of *Cryptosporidium*



- UV inactivation provides 0.5-log removal of Giardia and 0.5-log removal of Cryptosporidium
- Chlorine disinfection provides 4-log removal of viruses

All of the filter rack effluent lines are equipped with continuously monitored, recorded and alarmed turbidity analyzers which will shut down the respective rack if a reading exceeds 0.1 NTU.

Filtered water is directed through the UV disinfection units prior to entering the contact chambers. The two chlorine contact tanks can be operated separately or in sequence and still provide the required 4 log disinfection. This facility is equipped with continuously monitored, recorded and alarmed CT calculation. The SCADA system also automatically takes data from several sources (flow, temperature, free chlorine residual, pH, water depth in contact tanks, and which contact tank is in service) and calculates the log removal credits achieved for Giardia & Viruses.

The following information presents the Annual Record of Water Taking for the North Bay Water Treatment Plant and the treated water consumption.

### Raw Water Taking

In overview some 8,264,577 cubic meters of water were taken from Trout Lake during the year of 2024. The average water taking for 2024 was 22,581 cubic meters per day. The maximum water taking per day was 28,869 cubic meters in June, this was 36% of the maximum 79,500 cubic meters per day allowed under the Permit to Take Water.

Raw Water Taking	Total Taking (m3)	Average Day (m3/d)	Max Day (m3/d)	Max Day % of PTTW allowable (79,500 m3/d)
2024	8,264,577	22,581	28,869	36%
2023	8,293,595	22,722	43,270	54%
2022	8,117,355	22,239	29,222	37%
2021	7,521,563	20,607	36,180	46%
2020	7,152,145	19,541	27,907	35%
2019	7,475,978	20,482	33,351	42%
2018	7,265,251	19,905	27,500	35%
2017	6,881,781	18,851	28,818	36%
2016	7,677,448	20,973	27,638	35%
2015	10,244,897	28,149	39,531	50%
2014	10,451,967	28,645	41,509	52%
2013	10,713,683	29,257	43,560	55%
2012	11,804,231	32,227	51,963	65%
2011	12,752,104	34,925	51,870	65%

The 2024 total raw water taking was down by 0.3% from 2023.

## Treated Water

In overview some 8,169,452 cubic meters of water were delivered to the distribution system during the year 2024. The average treated water delivered to the distribution system was 22,321 cubic metres per day for 2024. The maximum water delivered to the distribution system per day during 2024 was 28,610 cubic meters in June and this was 36% of the 78,700 cubic meters per day rated capacity of the plant.

Treated Water Taking	Total Treated (m3)	Average Day (m3/d)	Max Day (m3/d)	Max Day % of PTTW allowable (78,700 m3/d)
2024	8,169,452	22,321	28,610	36%
2023	8,209,325	22,491	42,864	55%
2022	8,024,892	21,986	28,936	37%
2021	7,411,731	20,306	35,837	46%
2020	7,053,621	19,272	27,527	35%
2019	7,392,707	20,254	33,137	42%
2018	7,146,560	19,573	27,074	34%
2017	6,788,663	18,597	28,655	36%
2016	7,564,121	20,720	27,290	35%
2015	10,228,009	28,019	39,128	50%
2014	10,337,724	28,335	41,399	52%
2013	10,578,115	28,962	43,235	55%
2012	11,659,907	31,910	51,534	65%
2011	12,563,903	34,408	51,450	65%

The 2024 total treated water volume delivered into the distribution system was down by 0.5% from 2023.

**Report Prepared by: Jonathan Dewey, C-Tech**  
**Operational Supervisor Water and Wastewater Facilities**  
**City of North Bay**

	<b>Management Review Meeting</b>	Proc.: QMS-11 Pages: 1 of 3
Reviewed by: QMS Representative		Date: July 4, 2024

## North Bay Water System

### Attendees:

Alan Korell (Top Management)

Ken Frederick (KF)/Maintenance Manager  
W&WWF (Absent)

Karin Pratte (KP)/ QMS Representative

Jonathan Dewey (JD)/Supervisor W&WWF

Scott Taggart (ST)/ QMS Representative

Jasmine Busschaert (JB)/ Engineering Intern

Item	Description	Date Required	Action
1.	Follow up to action items from previous meeting & action items identified between reviews were reviewed. The outstanding issues are: <ul style="list-style-type: none"> <li>- KF working with IS on telemetry system and fiber connections at water facilities. Ongoing.</li> <li>- Complete a Tabletop Exercise critical shortage of staff by Dec 2024.</li> </ul>	Dec 2024	KP
2.	Incidents of regulatory non-compliance & incidents of adverse drinking water tests since last management review (all resolved): 2023: <ul style="list-style-type: none"> <li>- July 27th: Non-compliance resulting from sample pump failure. The sample pump feeds the UVT Analyzer which requires a reading every 5 minutes.</li> <li>- July 31st: Non-compliance resulting from UVT Analyzer wiper issue which did not allow a reading every 5 minutes.</li> <li>- October 6th: Sample from plumbing at 1016 Fisher St. resulted in a lead exceedance of 0.0119 mg/L.</li> </ul> 2024 YTD: <ul style="list-style-type: none"> <li>- April 4th: Overgrown target bacteria on plate. Operators flushed hydrant from Fraser St. to the hydrant #4-210 at the corner of Sixth Ave.</li> </ul>		For Record

	W and Ferguson St. Bacteria samples collected at the site of adverse and upstream/ downstream. Follow up sample occurred 24 hours later. Thin aerator inside the end of the faucet is likely the source of contamination.		
3.	No deviations from CCL.		For Record
4.	<p>The efficiency of the risk assessment process</p> <ul style="list-style-type: none"> <li>- Risk assessment for the water distribution system was completed June 7, 2021 and for the water treatment system in 2023.</li> <li>- Determined this morning we are late for the 2024 risk assessment. <ul style="list-style-type: none"> <li>o Root cause analysis and correction action will be completed.</li> <li>o Scheduled the risk assessment for Monday next week.</li> <li>o Both treatment and distribution will be completed at the same time to have them on the same schedule.</li> </ul> </li> <li>- There are no outstanding actions items from the previous risk assessment.</li> </ul>		ST & KP
5.	<p>Reviewed Internal and External audit results</p> <ul style="list-style-type: none"> <li>- Internal Audit: Completed August 23<sup>rd</sup> 2023 – 4 non conformances – all are resolved.</li> <li>- External Audit: Completed November 2023 – 1 OFIs – Continual Improvement <ul style="list-style-type: none"> <li>o Clarifying process for OFI’s. KP would like to develop a clear numbering system with Ange.</li> <li>o</li> </ul> </li> </ul>		For Record
6.	<p>The following emergency responses were tested:</p> <ul style="list-style-type: none"> <li>- Watermain Break</li> <li>- AWQI</li> <li>- <b>Action:</b> Complete a Tabletop Exercise for critical shortage of staff Dec 2024.</li> <li>-</li> </ul>	Dec 2024	KP
7.	Operational performance, raw water supply and drinking water quality trends were reviewed including the annual report, summary report, MECP Inspection Report (IRR rating 95.27%), and THM trends.		For Record

8.	<p>Changes that could affect the QMS:</p> <ul style="list-style-type: none"> <li>- Bargaining year, higher risk of shortage of staff (strike), ensure emergency management procedures are up to date and complete tabletop exercise.</li> </ul>	Dec 2024	KP
9.	<p>Consumer feedback</p> <ul style="list-style-type: none"> <li>- There are 19 complaints from July 2023 to July 2024</li> <li>- No specific trends or major concerns</li> </ul>		For Record
10.	<p>The resources needed to maintain the QMS</p> <ul style="list-style-type: none"> <li>- Resources are in place to support QMS</li> </ul>		For Record
11.	<p>The results of the infrastructure review and asset management plan</p> <ul style="list-style-type: none"> <li>- The 10-year capital water budget was completed and approved by the new council and will ensure sustainability.</li> <li>- Asset Management data for water and wastewater system input into the new software system. New asset management plan was developed by the City of North Bay and has been approved by Council. This has started to be used when completing the Capital Budget.</li> <li>-</li> </ul>		For Record
12.	<p>Operational plan currency, content, and updates</p> <ul style="list-style-type: none"> <li>- Operational plan was last updated Nov 6, 2023 - Version 18</li> <li>- <b>Action:</b> Update needed to adjust for Job Title changes.</li> </ul>	August 2024	KP
13.	<p>Staff Suggestions</p> <p>There were no staff suggestions</p>		For Record

Ministry of the Environment,  
Conservation and Parks

Ministère de l'Environnement, de la Protection de  
la nature et des Parcs

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January 31, 2025

by email: [Karin.Pratte@northbay.ca](mailto:Karin.Pratte@northbay.ca)

Ms. Karin Pratte  
Director, Water, Wastewater and Environmental Services  
The Corporation of the City of North Bay  
200 McIntyre Street East  
North Bay, ON  
P1B 8V6

**RE: Inspection of North Bay Drinking Water System at 248 Lakeside Drive, North Bay on November 5, 2024  
Planned Event No. 1-334412325**

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Attached to this letter is the report for the unannounced inspection completed at North Bay Drinking Water System at 248 Lakeside Drive, North Bay on November 5, 2024, and the corresponding Incident Rating Report (IRR) and Risk Methodology document. This report provides an assessment of compliance and conformance based on observations and information available during the inspection review period only.

One instance of non-compliance was identified during the inspection. The owner and operating authority took necessary steps to bring the system into compliance therefore there are no required actions to address this non-compliance. This non-compliance is described in the "Non-compliance" section within the report.

Additional findings and applicable comments, where provided, will be found within the report.

The IRR is a summarized quantitative measure of the drinking water system's annual inspections and is published in the Ministry's Chief Drinking Water Inspector's Annual Report. The Risk Methodology document describes the risk rating methodology which has been applied to the findings of the Ministry's municipal residential drinking water system inspection results. Please find attached the corresponding IRR in Appendix A and Risk Methodology document.

Attached in Appendix B is a document titled "DWS Components Information" and in Appendix C is a document titled "Key Reference and Guidance Material for Municipal Residential Drinking Water Systems".

Electronic copies of this inspection report have been sent to the North Bay Parry Sound District Health Unit and North Bay Mattawa Conservation Authority in accordance with the Ministry's Municipal Drinking Water Inspection Protocol.

Thank you for your co-operation. If you have any questions about this inspection report, please contact me at (705) 491-2781 or by email at [vesna.alimpic@ontario.ca](mailto:vesna.alimpic@ontario.ca).

Sincerely,



Vesna Alimpic  
Water Compliance Officer  
Provincial Officer Badge No. 1882  
Drinking Water and Environmental Compliance Division  
Ministry of the Environment, Conservation and Parks  
North Bay Office

c: Scott Taggart, Operations Manager, Public Works Water and Wastewater, City of North Bay  
Jonathan Dewey, Operations Supervisor, Water and Wastewater Facilities, City of North Bay  
Robert A - Muhong, Manager of Environmental Health, North Bay Parry Sound District Health Unit  
Drinking Water Source Protection, North Bay Mattawa Conservation Authority  
Sherry Ilersich, Water Compliance Supervisor, Timmins/North Bay, Northern Region, Drinking Water and Environmental Compliance Division, Ministry of the Environment, Conservation and Parks



NORTH BAY DRINKING WATER SYSTEM  
Physical Address: 248 LAKESIDE DR, , NORTH  
BAY, ON P1A 3E3

## INSPECTION REPORT

System Number: 220000460  
Entity: THE CORPORATION OF THE  
CITY OF NORTH BAY  
Inspection Start Date: November 05, 2024  
Site Inspection Date: November 05, 2024  
Inspection End Date: January 15, 2025  
Inspected By: Vesna Alimpic  
Badge #: 1882

*VAlimpic*

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(signature)



## INTRODUCTION

### **Purpose**

This unannounced focused inspection was conducted to confirm compliance with Ministry of the Environment, Conservation and Parks' (MECP) legislation and conformance with ministry drinking water policies and guidelines.

### **Scope**

The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management and the operation of the system.

The inspection of the drinking water system included both the physical inspection of the component parts of the system listed in section 4 "Systems Components" of the report and the review of data and documents associated with the operation of the drinking water system during the review period.

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O. Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

### **Facility Contacts and Dates**

The drinking water system is owned and operated by The City of North Bay.

The system serves an estimated population of 52,000 and is categorized as a large municipal residential system. Information reviewed for this inspection covered the time period of December 4, 2023 to November 4, 2024.

As part of the inspection process, the water inspector met with Karin Pratte, Director, Water, Wastewater and Environmental Services, City of North Bay, and Jonathan Dewey, Operations Supervisor Water & Wastewater, City of North Bay, who is also the overall responsible operator for the North Bay Water Treatment Plant.

### **Systems/Components**

All locations associated with primary disinfection were visited as part of this inspection. The following sites were visited as part of the inspection of the drinking water system: North Bay Water Treatment Plant.

An outstation is a component of a drinking water system that is not located at either a water treatment plant or a well supply and is generally not associated with primary treatment, for example reservoirs, booster stations, and re-chlorination facilities located within the distribution system. Outstations may be visited on a rotational basis as part of a ministry inspection. This inspection included the inspection of list outstations visited as part of this inspection:

- Birchs Road Standpipe and Re-chlorination System,
- Judge Avenue Valve Chamber and Re-chlorination Station,
- Ellendale Reservoir, High Lift Pump Station and Re-chlorination Facility,
- Cedar Heights Booster Pumping Station and
- Larocque Standpipe.

### **Permissions/Approvals**

This drinking water system was subject to specific conditions contained within the following permissions and/or approvals at the time of the inspection in addition to the requirements of the SDWA and its regulations: Municipal Drinking Water Licence (MDWL) No. 196-101, Issue No. 6 dated November 24 2021 and Drinking Water Works Permit (DWWP) No. 196-201, Issue No. 6 dated February 2, 2022.

**NON-COMPLIANCE**

The following item(s) have been identified as non-compliance, based on a "No" response captured for a legislative question(s). For additional information on each question see the Inspection Details section of the report.

**Ministry Program:** DRINKING WATER | **Regulated Activity:** DW Municipal Residential

Item	Question	Compliance Response/Corrective Action(s)
NC-1	<p><b>Question ID:</b> DWMR1115001</p> <p>Were the inspection questions sufficient to address other non-compliance items identified during the inspection period?</p>	<p>The following instance(s) of non-compliance were noted during the inspection:</p> <p>One residential sample for lead was missed during the required sampling period.</p> <p>The missed sample was collected outside of the required period. The City of North Bay provided documentation to the inspecting officer confirming that action has been taken to ensure that the required number of samples will be taken within the required sampling period.</p> <p>No further action required.</p>

## RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

### INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

**Ministry Program:** DRINKING WATER | **Regulated Activity:** DW Municipal Residential

<b>Question ID</b>	DWMR1012001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner have a harmful algal bloom monitoring plan in place that met the requirements of the Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had a harmful algal bloom monitoring plan in place which met the requirements.			

<b>Question ID</b>	DWMR1014001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Was flow monitoring performed as required by the Municipal Drinking Water Licence or Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Flow monitoring was performed as required.			

<b>Question ID</b>	DWMR1016001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions.			

<b>Question ID</b>	DWMR1018001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner ensured that equipment was installed as required.			

<b>Question ID</b>	DWMR1020001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were Form 1 documents prepared as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Form 1 documents were prepared as required.			

<b>Question ID</b>	DWMR1021001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were Form 2 documents prepared as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Form 2 documents were prepared as required.			

<b>Question ID</b>	DWMR1025001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were all parts of the drinking water system that came in contact with drinking water disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?			

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

All parts of the drinking water system were disinfected as required.

Question ID	DWMR1023001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);</p>			
<p><b>Question:</b> Did records indicate that the treatment equipment was operated in a manner that achieved the design capabilities prescribed by O. Reg. 170/03, Drinking Water Works Permit and/or Municipal Drinking Water Licence at all times that water was being supplied to consumers?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities prescribed.</p> <p>The North Bay WTP is designed to achieve the performance criteria using microfiltration (0.1 micron pore size), ultraviolet (UV) disinfection and chlorine disinfection as per Section 1-3 of Schedule 1 to O. Reg. 170/03. The MDWL identifies log removal/inactivation credits assigned to the three (3) processes as the following:</p> <ul style="list-style-type: none"> <li>- Microfiltration receives 2-log for Cryptosporidium oocysts and 2.5-log for Giardia cysts;</li> <li>- UV disinfection receives 0.5 log Giardia cysts;</li> <li>- Chlorination receives 4 log viruses.</li> </ul> <p>In order to receive full log credits the treatment process must be fully operational and meet the following credit assignment identified in Schedule E of the MDWL:</p> <p>Microfiltration:</p> <ol style="list-style-type: none"> <li>1. Maintain effective backwash procedures, including filter-to-waste or an equivalent procedure, to ensure that the effluent turbidity requirements are met at all times;</li> <li>2. Monitor integrity of the membrane by continuous particle counting or by an equivalently effective means (e.g. intermittent pressure decay measurements) (NOTE: intermittent pressure decay monitored at the North Bay WTP);</li> <li>3. Continuously monitor filtrate turbidity; and</li> <li>4. Meet the performance criterion for filtered water turbidity of less than or equal to 0.1 NTU in 99% of the measurements each month for each filter train.</li> </ol> <p>UV Disinfection:</p> <ol style="list-style-type: none"> <li>1. Duty UV sensor shall be checked at least monthly against a reference sensor; or at a frequency recommended by the UV manufacturer.</li> <li>2. When comparing the duty UV sensor to the reference sensor, the calibration ration must be equal to or below 1.2.</li> </ol>			

3. If the calibration ration is greater than 1.2 the duty sensor shall be replaced with a calibrated unit or a UV sensor correction factor shall be applied until the problem has been resolved.
4. Reference sensor shall be checked against a Master Reference Assembly at a minimum frequency of once every three (3) years or on a more frequent basis depending on recommendation of the equipment manufacturer.

Chlorination

1. Sampling and testing for free chlorine residual shall be carried out by continuous monitoring equipment.
2. At all times, CT provided shall be greater than or equal to the CT required to achieve the log removal credits assigned.

Note: The two chlorine contact tanks can be operated separately or in sequence and still provide the required 4 log removal. This facility is equipped with online CT calculation. This program automatically takes data from several sources (flow, temperature, free chlorine residual, pH, water depth in contact tank and which contact tanks are in service) and then calculates the log removal credits achieved for Giardia & viruses.

Based on the review of data provided during the inspection relating to integrity testing and turbidity monitoring, UV calculated dosage, UV reference checks, free chlorine residual level after the contact tank and the online CT calculation, performance criteria for microfiltration, UV disinfection and chlorination were satisfied at all times during the inspection period.

Question ID	DWMR1026001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-6   (2);</p>			
<p><b>Question:</b> If primary disinfection equipment did not use chlorination or chloramination, was the equipment equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 1-6 of O. Reg. 170/03?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Primary disinfection equipment was equipped with alarms or shutoff mechanisms that satisfied the standards.</p> <p>Section 1-6 of Schedule 1 to O. Reg. 170/03 requires that in the event the UV disinfection system loses power, malfunctions or ceases to provide the appropriate level of disinfection that the system either has a feature that ensures that no water is directed to users or immediately cause an alarm to sound at the following locations:</p> <ol style="list-style-type: none"> <li>1. The building or structure where the disinfection equipment is installed.</li> <li>2. A location where a person is present, if a person is not always present at the building or structure where the disinfection equipment is installed.</li> </ol>			



At the time of the inspection, the ultraviolet (UV) reactors for the primary and secondary disinfection systems were equipped with a shut down mechanism in the event that the calculated dose dropped below the minimum required. The primary UV system is required to provide a minimum ultraviolet dosage of 10 mJ/cm<sup>2</sup>, the shut down setpoint was set at 12 mJ/cm<sup>2</sup>. The secondary UV system is required to provide a minimum ultraviolet dosage of 15 mJ/cm<sup>2</sup>, the shut down setpoint was set at 15 mJ/cm<sup>2</sup>. In addition, UV reactors are set to alarm to an on-call operator when the UV units reach the setpoint of 20 mJ/cm<sup>2</sup>.

<b>Question ID</b>	DWMR1024001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			
<b>Question:</b> Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.  There were two events with low chlorine residuals during the inspection period. The City of North Bay provided documentation demonstrating that the low chlorine residuals were caused by low water use (0.00 mg/L, October 9, 2024, Rita Rd) and use of an inline filter in a private residence (0.03 mg/L, October 28, 2024, Campbell Ave). The City of North Bay flushed watermains at both locations and achieved satisfactory chlorine residuals in the distribution system.			

<b>Question ID</b>	DWMR1033001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-2   (3); SDWA   O. Reg. 170/03   7-2   (4);			
<b>Question:</b> Was secondary disinfectant residual tested as required for the large municipal residential distribution system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Secondary disinfectant residual was tested as required.  As of December 14, 2021, the owner has designated the Judge Avenue Valve free chlorine analyzer as the regulatory analyzer used to monitor secondary disinfection in the distribution system. Based on the review of the trends of free chlorine residuals at Judge Avenue Valve for the inspection period, it appears that the continuous monitoring met the requirements in terms of the required minimum testing and recording frequency.  Secondary disinfection residual was additionally monitored in at least 17 locations in the distribution system each week during collection of weekly bacteriological samples.			

<b>Question ID</b>	DWMR1030001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-2   (1); SDWA   O. Reg. 170/03   7-2   (2);			
<b>Question:</b> Was primary disinfection chlorine monitoring being conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit or at/near a location where the intended CT had just been achieved?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Primary disinfection chlorine monitoring was conducted as required.			

<b>Question ID</b>	DWMR1032001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-3   (2);			
<b>Question:</b> If the drinking water system obtained water from a surface water source and provided filtration, was continuous monitoring of each filter effluent line performed for turbidity?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Continuous monitoring of each filter effluent line was performed for turbidity.			

<b>Question ID</b>	DWMR1035001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4;			
<b>Question:</b> Were operators examining continuous monitoring test results and did they examine the results within 72 hours of the test?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Operators were examining continuous monitoring test results as required.			

<b>Question ID</b>	DWMR1038001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4;			
<b>Question:</b> Was continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency and			

recording data with the prescribed format?

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format.

Question ID	DWMR1037001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);</p>			
<p><b>Question:</b> Were all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All required continuous monitoring equipment utilized for sampling and testing were equipped with alarms or shut-off mechanisms that satisfied the standards</p> <p>Section 6-5 of Schedule 6 of O. Reg. 170/03 requires that the continuous monitoring equipment must have a feature that ensures that no water is directed to users or cause an alarm to signal at a location where the equipment conducts tests and where a person is always present in the event a test result for a parameter is above the maximum alarm standard or below the minimum alarm standard specified in the Table to this section for the parameter and in the event the equipment malfunctions or loses power or malfunctions.</p> <p>The maximum alarm standard for turbidity is 1.0 Nephelometric Turbidity Units (NTU). The minimum alarm standard for free chlorine residual required to achieve primary disinfection is 0.1 mg/L less than the concentration of free chlorine residual that is required to achieve primary disinfection. The minimum alarm standard for continuous monitoring of free chlorine residual secondary disinfection is required to be set at 0.05 mg/L.</p> <p>The regulatory free chlorine residual low level alarm after primary disinfection (i.e. analyzer after contact tank # 2) was set at 0.70 mg/L and would immediately trigger a plant shutdown. This facility also had a low low level alarm for virus log removal after primary disinfection set at 5.0 log removal and would immediately trigger a plant shutdown.</p> <p>All thirteen turbidity analyzers on filter racks were set to alarm and shut down at high high turbidity at 0.10 NTU without delay.</p> <p>The continuous free chlorine analyzer at Judge Ave Valve was set to alarm at 0.3 mg/L without delay.</p>			

<b>Question ID</b>	DWMR1040001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;			
<b>Question:</b> Were all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All continuous analysers were calibrated, maintained, and operated as required.  Continuous chlorine and turbidity analyzers are verified or calibrated monthly.			

<b>Question ID</b>	DWMR1108001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);			
<b>Question:</b> Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by O. Reg. 170/03, Municipal Drinking Water Licence, Drinking Water Works Permit, or order triggered an alarm or an automatic shut-off, did a qualified person respond as required and take appropriate actions?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> A qualified person responded as required and took appropriate actions.			

<b>Question ID</b>	DWMR1039001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-6   (3);			
<b>Question:</b> If primary disinfection equipment that does not use chlorination or chloramination was used, did the owner and operating authority ensure the equipment had a recording device that continuously recorded the performance of the disinfection equipment?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.			

<b>Question ID</b>	DWMR1109001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-6   (1); SDWA   O. Reg. 170/03   1-6   (2);			
<b>Question:</b> If the system used equipment for primary disinfection other than chlorination or chloramination and the equipment malfunctioned, lost power, or ceased to provide the appropriate level of disinfection, causing an alarm or an automatic shut-off, did a certified operator respond as required and take appropriate actions?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> A certified operator responded as required and took appropriate actions.			

<b>Question ID</b>	DWMR1042001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> If UV disinfection was used, were duty sensors and reference UV sensors checked and calibrated as per the requirements of Schedule E of the Municipal Drinking Water Licence or at a frequency as otherwise recommended by the UV equipment manufacturer?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All UV sensors were checked and calibrated as required.			

<b>Question ID</b>	DWMR1099001	<b>Question Type</b>	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Do records show that water provided by the drinking water system met the Ontario Drinking Water Quality Standards?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records showed that not all water sample results met the Ontario Drinking Water Quality Standards.  There were two events when the drinking water did not meet the Ontario Drinking Water Quality Standards (ODWQS):  1. A sample collected on April 3, 2024, had presence of total coliforms (ODWQS for total coliforms is 'not detectable'). The sample was collected after repairs on the distribution system and was suspected to be contaminated. Corrective actions were to restore disinfection, flush, resample and test. Two sets of three resamples were collected and their			

results met the ODWQS. This adverse water quality incident (AWQI) was reported under no. 164743.

2. A sample collected on October 11, 2024, exceeded the Ontario Drinking Water Quality Standard for lead at 0.012 mg/L (the standard for lead is 0.010 mg/L). The sample was collected from plumbing in a private residence. The City of North Bay instructed the residents to flush the water lines before using water. A resample was not collected as this plumbing sample is not representative of the lead concentrations in the distribution system. This AWQI was reported under no. 166686.

<b>Question ID</b>	DWMMR1083001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10-3;			
<b>Question:</b> Were treated microbiological sampling requirements prescribed by Schedule 10-3 of O. Reg. 170/03 for large municipal residential systems met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Treated microbiological sampling requirements were met.  Section 10-3 of Schedule 10 of O. Reg. 170/03 requires the owner of a drinking-water system and the operating authority for the system must ensure that a treated water sample is taken at least once every week and tested for Escherichia coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count (HPC).  During the inspection period, samples of treated water were collected once every week and tested for Escherichia coli, total coliforms and HPC.			

<b>Question ID</b>	DWMMR1081001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10-2   (1); SDWA   O. Reg. 170/03   10-2   (2); SDWA   O. Reg. 170/03   10-2   (3);			
<b>Question:</b> Were distribution microbiological sampling requirements prescribed by Schedule 10-2 of O. Reg. 170/03 for large municipal residential systems met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Distribution microbiological sampling requirements were met.  Subsection 10-2(1)(a) to Schedule 10 of O. reg. 170/03 requires that if a system serves 100,000 people or less, at least 8 distribution samples, plus 1 additional distribution sample for every 1,000 people served by the system, are taken each month, with at least 1 of the samples being taken in each week.  Based on the 2021 census population of North Bay (52,662), at least 61 samples are required			

to be taken each month. During the inspection period, at least 17 samples from distribution were collected weekly and tested for E. coli and total coliforms, resulting in 68 to 85 monthly samples. Every week, five distribution samples were tested for HPC, meeting the requirement to have at least 25 per cent of the samples tested for this parameter.

<b>Question ID</b>	DWMR1096001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-3   (1);			
<b>Question:</b> Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that chlorine residual tests were conducted as required.			

<b>Question ID</b>	DWMR1084001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-2;			
<b>Question:</b> Were inorganic parameter sampling requirements prescribed by Schedule 13-2 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Inorganic parameter sampling requirements were met.  Subsection 13-2 of Schedule 13 of O. Reg. 170/03 requires that owner of a large municipal residential system and the operating authority for the system must ensure that at least one water sample is taken every 12 months, if the system obtains water from a raw water supply that is surface water and that each of the samples is tested for every parameter set out in Schedule 23.  A sample was collected and tested for every parameter set out in Schedule 23 on July 15, 2024.			

<b>Question ID</b>	DWMR1085001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-4   (1); SDWA   O. Reg. 170/03   13-4   (2); SDWA   O. Reg. 170/03   13-4   (3);			
<b>Question:</b> Were organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 met?			

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Organic parameter sampling requirements were met.

Subsection 13-4 of Schedule 13 of O. Reg. 170/03 requires the owner of a large municipal residential system and the operating authority for the system shall ensure that at least one water sample is taken every 12 months, if the system obtains water from a raw water supply that is surface water and tested for every parameter set out in Schedule 24.

A sample was collected and tested for every parameter set out in Schedule 24 on July 15, 2024.

Question ID	DWMR1086001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-6.1   (1); SDWA   O. Reg. 170/03   13-6.1   (2); SDWA   O. Reg. 170/03   13-6.1   (3); SDWA   O. Reg. 170/03   13-6.1   (4); SDWA   O. Reg. 170/03   13-6.1   (5); SDWA   O. Reg. 170/03   13-6.1   (6);</p>			
<p><b>Question:</b> Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Haloacetic acid sampling requirements were met.</p> <p>Section 13-6.1 of Schedule 13 of O. Reg. 170/03 requires that the owner of a drinking water system that provides chlorination and the operating authority for the system must ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water systems distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids and tested for haloacetic acids (HAAs). O. Reg. 170/03 defines the "calendar quarter" as the three-month period that begins on January 1, April 1, July 1 or October 1. Ontario Drinking Water Quality Standard for HAAs is 0.08 mg/L (80 µg/L) and is expressed as a running annual average (RAA) of quarterly results.</p> <p>Samples were collected and tested for HAAs from the distribution system in the three-month periods meeting the requirements of O. Reg. 170/03. The RAA for the period December 5, 2023 to September 4, 2024 was 0.045 mg/L (45.5 µg/L).</p>			

Question ID	DWMR1087001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-6   (1); SDWA   O. Reg. 170/03   13-6   (2); SDWA   O. Reg. 170/03   13-6   (3); SDWA   O. Reg. 170/03   13-6   (4); SDWA   O. Reg. 170/03   13-6   (5); SDWA   O. Reg. 170/03   13-6   (6);</p>			
<p><b>Question:</b> Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03</p>			



met?

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Trihalomethane sampling requirements were met.

Subsection 13-6 of Schedule 13 of O. Reg. 170/03 requires the owner of a drinking water system that provides chlorination and the operating authority for the system must ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system that is likely to have an elevated potential for the formation of trihalomethanes and tested for trihalomethanes (THMs). O. Reg. 169/03 sets the standard for THMs at 0.100 mg/L (100 µg/L) expressed as a RAA for THMs for a drinking water system.

The municipality has conducted extensive THM sampling program to assess where they are being formed and what the THM values are throughout the distribution system. Samples are collected and tested for THM monthly at the WTP at the point of entry and at 12 locations in the distribution system: at the entry and exit of water into the Ellendale High Lift Pump Station and 10 locations throughout the distribution system. In 2024, THM concentrations ranged from 35 to 139 µg/L in the distribution system. As of November 4, 2024, the running annual average (RAA) for THM of all samples collected in the distribution system was 71 µg/L (0.0716 mg/L).

<b>Question ID</b>	DWMR1088001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-7;			
<b>Question:</b> Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Nitrate/nitrite sampling requirements were met.			
Section 13-7 of Schedule 13 of O. Reg. 170/03 requires that the owner of a drinking water system and the operating authority for the system must ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.			
Data review confirmed that samples of treated water were collected and tested for nitrate/nitrite with the required frequency.			

<b>Question ID</b>	DWMR1089001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-8;			

<p><b>Question:</b> Were sodium sampling requirements prescribed by Schedule 13-8 of O. Reg. 170/03 met?</p>
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Sodium sampling requirements were met.</p> <p>Section 13-8 of Schedule 13 requires that the owner of a drinking water system and the operating authority for the system must ensure that at least one treated water sample is taken every 60 months and tested for sodium.</p> <p>Samples for sodium are collected annually, with the most recent sample collected on July 15, 2024.</p>

<b>Question ID</b>	DWMR1091001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-4;			
<b>Question:</b> Where fluoridation is practiced, were fluoride sampling requirements prescribed by Schedule 7-4 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Fluoride sampling requirements were met.			

<b>Question ID</b>	DWMR1094001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were water quality sampling requirements imposed by the Municipal Drinking Water Licence and Drinking Water Works Permit met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Water quality sampling requirements were met.			
<p>Section 5 to Schedule C of the North Bay DWS MDWL requires that quarterly samples are taken of at a minimum 11 perfluorinated alkyl substances (PFAS) parameters in raw and treated water. Samples are to be collected in accordance with subsection 6-1.1(4) of Schedule 6 to O. Reg. 170/03, i.e. the owner must ensure that a sample is taken at least 60 days and not more than 120 days after a sample was taken for the previous three month period.</p> <p>A review of the sampling records confirmed that sampling for the required parameters was done with the required frequency for both raw and treated water.</p>			

Question ID	DWMR1104001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   16-6   (1); SDWA   O. Reg. 170/03   16-6   (2); SDWA   O. Reg. 170/03   16-6   (3); SDWA   O. Reg. 170/03   16-6   (3.1); SDWA   O. Reg. 170/03   16-6   (3.2); SDWA   O. Reg. 170/03   16-6   (4); SDWA   O. Reg. 170/03   16-6   (5); SDWA   O. Reg. 170/03   16-6   (6);</p>			
<p><b>Question:</b> Were immediate verbal notification requirements for adverse water quality incidents met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Immediate verbal notification requirements for adverse water quality incidents were met.</p> <p>1. Adverse Water Quality Incident (AWQI) no. 164743</p> <p>On April 4, 2024, a bacteriological sample was collected from distribution system at 170 6th Ave W. The sample results showed presence of total coliforms and Escherichia coli (total coliform plate overgrown with target). Based on the information in section 2A, Near North Labs informed the City of North Bay of the adverse result at 14:45 on April 5, 2024. the City of North Bay provided a verbal notification of the adverse to Spills Action Centre at 15:18 and to the North Bay Parry Sound District Health Unit (NBPSDHU) at 15:26.</p> <p>2. AWQI no. 166610</p> <p>On October 9, 2024, a free chlorine residual of 0.00 mg/L was measured at 110 Rita Rd. The provided complaint form does not indicate at what time the sample was collected. The operator who took the sample informed their supervisor of the adverse at 11:48. Based on the information in section 2A, The City of North Bay provided a verbal notification of the adverse to SAC at 12:09 and to NBPSDHU at 12:02.</p> <p>3. AWQI no. 166766</p> <p>On October 28, 2024, a free chlorine residual of 0.03 mg/L was measured in a private home at 52 Campbell Ave at 10:20. Based on the information in section 2A, The City of North Bay provided a verbal notification of an adverse water quality incident to SAC at 11:50 and to NBPSDHU at 12:00.</p> <p>The City of North Bay informed the inspecting officer that sampling protocol instructs operators to take samples from residential units only if there is an appropriate sample point that would be representative of water in the distribution system. In case of the water quality complaint at 52 Campbell Ave, the operator took a free chlorine sample downstream of an inline filter with purpose to educate the homeowner of the removal of chlorine by the device.</p> <p>Subsection 16-2(2) to schedule 18 of O. Reg. 170/03 specifies that the duty to report an adverse test result does not apply to the drinking water test that is conducted on a sample that was taken from plumbing, if the test is conducted solely for the purpose of determining the quality of the water in the plumbing.</p>			

Ministry's Technical Bulletin Residential Water Testing (<https://www.ontario.ca/page/residential-water-testing-technical-bulletin>) specifies that when a chlorine residual or total coliform (TC) sample is taken without a period of flushing, adverse test results may be attributed to the water within the plumbing itself. For example, a low chlorine residual result may represent a problem within plumbing rather than in the distribution system, and an adverse TC indicator test may indicate contamination of the source supply or distribution lines or microbiological re-growth within the plumbing system itself.

Therefore, the Ministry accepts that a municipality may wish to determine whether an adverse chlorine residual or TC result represents a problem solely in a consumer's plumbing, and that the Schedule 16 exemption for drinking water samples taken from plumbing solely to determine the quality of the water in plumbing is available.

Note: The owner is reminded that Subsection 6-10(1) to Schedule 6 of O. Reg. 170/03 requires that the owner and the operating authority for a drinking system must ensure that, for every sample required by this Regulation or by an approval, municipal drinking water licence or order, including an OWRA order, a record is made of the date and time the sample was taken, the location where the sample was taken and the name of the person who took the sample.

Question ID	DWMR1101001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   17-1; SDWA   O. Reg. 170/03   17-10   (1); SDWA   O. Reg. 170/03   17-11; SDWA   O. Reg. 170/03   17-12; SDWA   O. Reg. 170/03   17-13; SDWA   O. Reg. 170/03   17-14; SDWA   O. Reg. 170/03   17-2; SDWA   O. Reg. 170/03   17-3; SDWA   O. Reg. 170/03   17-4; SDWA   O. Reg. 170/03   17-5; SDWA   O. Reg. 170/03   17-6; SDWA   O. Reg. 170/03   17-9;</p>			
<p><b>Question:</b> For large municipal residential systems, were corrective actions, including any steps directed by the Medical Officer of Health, taken to address adverse conditions?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Corrective actions were taken to address adverse conditions.</p> <p>1. AWQI no. 164743, presence of total coliforms in a microbiological sample on April 4, 2024</p> <p>Subsection 17-6 to Schedule 17 of O. Reg. 170/03 requires that if an adverse report is made in respect of total coliforms, the owner and the operating authority of the drinking water must ensure that the first corrective action to be taken is to resample and test as soon as reasonably possible at three locations: upstream, downstream and at the location where adverse sample was collected and take other steps as directed by the medical officer of health.</p> <p>For this adverse, North Bay Parry Sound District Health Unit (NBPSDHU) requested two sets of samples for each site including the location of the adverse at least 24 hours apart. The City</p>			

of North Bay flushed the distribution lines and collected two sets of samples upstream, downstream and the location of the adverse more than 24 hours apart. The City of North Bay stated that the reason for this adverse was the presence of an aerator on the sampling tap.

2. AWQI no. 166610, low free chlorine residual in the distribution system on October 9, 2024 and

Subsection 17-4 to Schedule 17 of O. Reg. 170/03 requires that if an adverse report is made in respect of free chlorine residual, the owner and the operating authority of the drinking water must ensure that the first corrective action to be taken is to immediately flush the watermains and restore secondary disinfection to ensure that a free chlorine residual of at least 0.05 mg/L is achieved at all points in the affected parts of the distribution system and to take other steps as directed by the medical officer of health.

For this adverse, NBPSDHU requested to flush the hydrant next to the residence where the low free chlorine was measured and to take a bacteriological sample from the residence. The City of North Bay flushed the hydrant, restored the secondary disinfection and collected a sample from the residence. The City of North Bay stated that the reason for this adverse was a section of slow-moving water in that part of the distribution system.

3. AWQI no. 166766, low free chlorine residual in the distribution system on October 28, 2024.

For this adverse, NBPSDHU requested to confirm chlorine residual downstream from the location where low chlorine residual result was measured. The City of North Bay flushed the distribution lines and tested for free chlorine residual downstream and at the location of the low chlorine with satisfactory results. The City of North Bay stated that the reason for this adverse was that the sample was collected from a residence that uses an in-home treatment system that reduces free chlorine residual.

Question ID	DWMR1114001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner have evidence that, when required, all legal owners associated with the drinking water system were notified of the requirements of the Municipal Drinking Water Licence and Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had evidence that the required notifications were made.  The municipality's Engineering Department is responsible for communication of requirements of the MDWL and DWWP to the legal owners.			

<b>Question ID</b>	DWMR1045001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner update the document describing the distribution components within 12 months of completion of alterations to the system in accordance with the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had up-to-date documents describing the distribution components.			

<b>Question ID</b>	DWMR1060001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.			

<b>Question ID</b>	DWMR1062001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-5;			
<b>Question:</b> Did records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03.			

<b>Question ID</b>	DWMR1071001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			

<p><b>Question:</b> Did the owner provide security measures to protect components of the drinking water system?</p>
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner provided security measures to protect components of the drinking water system.</p> <p>The WTP and all of the DS components were equipped with locked doors and intruder alarms.</p> <p>The following locations include additional measures:</p> <ul style="list-style-type: none"> <li>- North Bay WTP – key-card swipe sensors to enter building and to enter the treatment area, video surveillance of the property, exterior lighting and fenced in area;</li> <li>- Airport Road Standpipe – located in a fenced in area;</li> <li>- Larocque Standpipe - located in fenced in area;</li> <li>- Birchs Road Standpipe – located in a fenced in area and gated entry to roadway;</li> <li>- Cedar Heights Pump Station - located in fenced in area;</li> <li>- Ellendale Reservoir – video surveillance, double steel door for main entrance and single door security gate on access door to the reservoir, both equipped with locks and fencing around the reservoir access to prevent unauthorized entry into the reservoir.</li> <li>- Judge Ave Valve – located in a locked building equipped with intrusion alarm.</li> </ul>

<b>Question ID</b>	DWMR1073001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   23   (1);			
<b>Question:</b> Was an overall responsible operator designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> An overall responsible operator was designated for all subsystem.			
During the inspection period, Jonathan Dewey was designated as the overall responsible operator for the North Bay Water Treatment Plant subsystem and Scott Taggart as the overall responsible operator for the North Bay Water Distribution subsystem.			

<b>Question ID</b>	DWMR1074001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   25   (1);			
<b>Question:</b> Were operators-in-charge designated for all subsystems which comprise the drinking water system?			

**Compliance Response(s)/Corrective Action(s)/Observation(s):**

Operators-in-charge were designated for all subsystems.

<b>Question ID</b>	DWMMR1075001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   22;			
<b>Question:</b> Were all operators certified as required?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All operators were certified as required.			

<b>Question ID</b>	DWMMR1076001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			
<b>Question:</b> Were adjustments to the treatment equipment only made by certified operators?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Adjustments to the treatment equipment were only made by certified operators.  The City of North Bay provided documentation demonstrating that operators in training were making adjustments to the treatment equipment under direction of overall responsible operator and operators in charge.			

<b>Question ID</b>	DWMMR1115001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Were the inspection questions sufficient to address other non-compliance items identified during the inspection period?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The following instance(s) of non-compliance were noted during the inspection:  One residential sample for lead was missed during the required sampling period.  The missed sample was collected outside of the required period. The City of North Bay provided documentation to the inspecting officer confirming that action has been taken to ensure that the required number of samples will be taken within the required sampling period.			



No further action required.

North Bay DWS qualified for reduced lead sampling on October 16, 2011. As per subsection 15.1-5 of Schedule 15.1 of O. Reg. 170/03 the reduced sampling regime requires a system serving a population of 50,000 or more to sample the number of locations identified below every winter and summer period:

- At least 40 samples collected from points in plumbing that serves private residences connected to the distribution system.
- At least four (4) samples collected from points in plumbing that do not serve private residences connected to the distribution system.
- At least 8 (eight) samples collected from points in the distribution system.

Subsection 15.1.4 defines the winter period as the period from December 15 to April 15 and spring period as period from June 15 to October 15.

On May 17, 2024, the City of North Bay informed the inspecting officer by email that during the winter round of lead sampling, one residential sample was missed. The missing sample was collected outside of the winter sampling period, on May 16, 2024.

The lead samples for the City of North Bay are collected by Near North Lab, which indicated that moving forward, they plan to confirm the number of samples prior to the end of the sampling window to ensure that the correct number of samples is collected.

No further action required.

Question ID	DWMR1117001	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Were there any other items related to the drinking water system that should be recognized in the report?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The following items were noted as being relevant to the drinking water system:  Until the 1990s, Canadian Forces Base in North Bay had fire training facilities where foams containing per- and polyfluoroalkyl substances (PFAS) were used for practice drills. This resulted in contamination of Trout Lake, City of North Bay's drinking water source with PFAS. The existing drinking water treatment at North Bay is not capable of removing PFAS from the drinking water. The City of North Bay is mandated by its DWWP to take quarterly samples of 11 PFAS parameters in raw and treated water. Total PFAS levels in raw and treated water are consistently about 60 ng/L.  There are no Ontario drinking water standards for PFAS. The ministry has developed an			

interim advice value (IAV) of 70 ng/L for the sum of 11 toxicologically relevant PFAS. In August 2024, Health Canada established a drinking water objective of 30 ng/L (for the sum total of 25 specific PFAS) to reduce exposure to PFAS in drinking water.

The city has undertaken a treatability study to provide options for treatment of PFAS to respond to potential future regulatory changes related to PFAS.

**APPENDIX A**  
**INSPECTION RATING REPORT**

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2024-25)

<b>DWS Name:</b>	NORTH BAY DRINKING WATER SYSTEM
<b>DWS Number:</b>	220000460
<b>DWS Owner:</b>	THE CORPORATION OF THE CITY OF NORTH BAY
<b>Municipal Location:</b>	NORTH BAY
<b>Regulation:</b>	O.REG. 170/03
<b>DWS Category:</b>	DW Municipal Residential
<b>Type of Inspection:</b>	Focused
<b>Compliance Assessment Start Date:</b>	Nov-5-24
<b>Ministry Office:</b>	North Bay Area Office

**Maximum Risk Rating:** 564

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/30
Certification and Training	0/42
Distribution System	0/4
Logbooks	0/14
Operations Manuals	0/14
Other Inspection Findings	0/0
Reporting & Corrective Actions	0/91
Source	0/0
Treatment Processes	0/257
Water Quality Monitoring	0/112
<b>Overall - Calculated</b>	<b>0/564</b>

<b>Inspection Risk Rating:</b>	<b>0.00%</b>
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<b>Final Inspection Rating:</b>	<b>100.00%</b>
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**DWS Name:** NORTH BAY DRINKING WATER SYSTEM  
**DWS Number:** 220000460  
**DWS Owner Name:** THE CORPORATION OF THE CITY OF NORTH BAY  
**Municipal Location:** NORTH BAY

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Compliance Assessment Start Date:** Nov-5-24  
**Ministry Office:** North Bay Area Office

Non-Compliance Question(s)	Non Compliance Risk
<b>Other Inspection Findings</b>	
Were the inspection questions sufficient to address other non-compliance items identified during the inspection period?	0
<b>Overall - Total</b>	<b>0</b>

**Maximum Question Rating:** 564

**Inspection Risk Rating:** 0.00%

**FINAL INSPECTION RATING:** 100.00%

**APPENDIX B**  
**DRINKING WATER SYSTEM COMPONENTS**

# DWS Component Information Report for 220000460

as of 30-JAN-2025

## Drinking Water System Profile Information

**DWS #** 220000460  
**MOE Assigned Name** North Bay Drinking Water System  
**Category** LMRS  
**Regulation** O.REG 170/03  
**DWS Type** Water Treatment Plant  
**Source Type** Surface Water  
**Address** 248 Lakeside Drive, North Bay, Ontario, P1A 3E3, Canada  
**Region** Northern Region  
**District** North Bay Area Office  
**Municipality** North Bay  
**Public Health Unit** North Bay Parry Sound District Health Unit

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
Raw Water Intake	Source	Surface	248 Lakeside Drive,	<p>The North Bay Water Treatment Plant (WTP) draws its raw water from Trout Lake which is part of the Mattawa River watershed. The intake structure is located in Delaney Bay, approximately 300 m from shore, at a depth of 21.5 meters.</p> <p>The plant's intake facilities consist of a 1,200 mm diameter polyethylene pipe extending 300 m into Trout Lake to an intake structure located approximately 3.6 meters off the lake bottom with a capacity of 80,000m<sup>3</sup>/day. The North Bay Water Treatment Plant is also equipped with another intake pipe and structure described as follows: a 900 mm iron intake (not in service) extending 122 m into Trout Lake at a depth of 7.6 meters, 1.5 meters off the lake bottom, with a capacity of 50,000m<sup>3</sup>/day.</p>
Cfb Reservoir	Other	Reservoir	North End Manston Crescent,	<p>The Canadian Forces Base (CFB) Reservoir comprised of 1820m<sup>3</sup> reservoir and pumping facilities. The building also has an on-line continuous water quality analyzer for free chlorine and a standby diesel generator. However, since the addition of the Airport Standpipe this facility is only used for water storage. Note: In October 2021, this reservoir was decommissioned and replaced by the CFB Standpipe.</p>
Airport Road Standpipe	Other	Reservoir		<p>The Airport Road Standpipe and Booster Pumping Station are located at the intersection of Airport Road and Airport Way in North Bay. Based on information contained in the DWWP, the standpipe is 26.2m high by 13.7m in diameter. Its capacity is 3,862m<sup>3</sup> intended to provide storage for fire, equalization and emergency purposes for pressure Zones 4 and 5. The pumping station is supplied water from Zone 3 to pressure Zone 4 via a new 500 mm water main. The pump house is equipped with three (3) pumps for this Pressure Zone 4 and four (4) pumps for Pressure Zone 5. The pump house is also equipped with two (2) high capacity pumps, a sodium hypochlorite rechlorination system and a 350 kW diesel generator set for emergency power. The standpipe and pumping station was commissioned in the fall of 2009.</p>

# DWS Component Information Report for 220000460

as of 30-JAN-2025

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
				Note: Under normal operation, Zone 4 is fed via gravity from the standpipe via the new 500 mm water main.
Ellendale Reservoir	Other	Reservoir	East End Ellendale Drive,	The Ellendale Reservoir is a double cell, 18,200 m <sup>3</sup> capacity reservoir equipped with two sodium hypochlorite re-chlorination systems and four (4) high lift pumps to maintain pressure in the system. The facility is also comprised of on-line, continuous water quality analyzers for free chlorine and turbidity and a stand-by power system to operate the entire facility during power outages.
Birchs Road Standpipe And Rechlorination Station	Other	Reservoir	Southwest Corner Birchs & Booth Roads,	<p>The Birchs Road Standpipe and Rechlorination Station is an 11,775 m<sup>3</sup> capacity, steel unbaffled treated water standpipe equipped with a sodium hypochlorite rechlorination system. The facility is also comprised of on-line, continuous water quality analyzers for free chlorine residual and turbidity and standby power to run the entire facility during a power outage.</p> <p>Note: On December 19, 2014 a Schedule C amendment to the DWWP was approved which permitted the installation of a submersible mixer at the Birchs Road standpipe.</p>
Canadore Pumping Station	Other	Other		<p>The Canadore Pumping Station is a facility located at the corner of Gormanville Road and McKeown Avenue. The facility is equipped with three (3) high lift pumps and a fire pump all for the purpose of maintaining pressure in the distribution system. The building also has an on-line continuous water quality analyzer for free chlorine, pressure tanks and a standby diesel generator.</p> <p>Note: The pump station has been offline since the date the Cedar Height Booster Pumping Station was brought online.</p>
Judge Avenue Valve Chamber And Rechlorination Station	Other	Other	Northeast Corner Judge Avenue & Lakeshore Drive,	The Judge Avenue Valve Chamber and Rechlorination Station is equipped with a sodium hypochlorite re-chlorination system. The facility has continuous water quality analyzers for free chlorine and turbidity, standby power to run the entire facility during power outages and a UPS battery with three hours of standby power to maintain the SCADA system. Note: The rechlorination equipment is kept off site as it is not presently in-use.
Cedar Heights Booster Pumping Station (Bps)	Other	Other		The Cedar Height BPS is a facility located on College Drive. The facility is equipped with two (2) centrifugal pumps for the purpose of maintaining pressure in the distribution system. The building also has an on-line continuous water quality analyzer for free chlorine, pressure tanks and a standby diesel generator. The booster station was commissioned 2019.



# DWS Component Information Report for 220000460

as of 30-JAN-2025

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
Cfb Standpipe (New 2021)	Other	Reservoir		The CFB Standpipe is a glass fused to steel un-baffled tank with an electric mixer inside, it is located on the Airport Standpipe property and shares all the buildings resources such as the PLC and standby generator. This Standpipe has a volume of 2,280m <sup>3</sup> and supplies water to zone 3 and to the Airport Standpipe. The piping at this facility allows this standpipe to also supply water for zone 5 during emergencies and maintenance activities.
North Bay Water Treatment Plant	Treated Water Poe	Treatment Facility		<p>The North Bay WTP went into service on February 17, 2010. This facility operates on a multi-barrier approach which consists of microfiltration membrane filtration followed by ultraviolet (UV) radiation, chlorination, a high lift pumping station, and a fluoridation system. This facility has two treatment systems (i.e. primary and secondary) both with separate microfiltration racks and separate UV disinfection systems with different dosages.</p> <p>Raw water enters the water plant through an intake/junction chamber and passes through five 300 micron automatic feed strainers before being directed to the primary membrane filtration system. The primary treatment system has 11 filter racks (with 64 modules each) and three UV reactors dosing at 10 millijoules/cm<sup>2</sup> (mJ/cm<sup>2</sup>). Treated water is then directed to the contact chamber for chlorination.</p> <p>The secondary treatment system is fed from the non-chemical backwash water of the primary microfiltration system and has two filter racks (with 40 modules each) and two UV reactors dosing at 15 mJ/cm<sup>2</sup>. Treated water from the secondary UV system is then directed to the primary UV system for additional treatment prior to entering the contact chamber for chlorination.</p> <p>The chlorine contact chamber consists of two tanks which can be operated in series or separately. Tank # 1 has a storage volume of 688 m<sup>3</sup> and Tank # 2 a storage volume of 502 m<sup>3</sup>. Once water has passed through the contact chamber it is directed to the high lift pump wet wells. Wet well # 1 has the capacity of 240 m<sup>3</sup> and is equipped with one variable speed pump and two constant speed vertical turbine pumps. Wet well # 2 has a capacity of 240 m<sup>3</sup> and is equipped with one variable speed pump and one constant speed turbine pump.</p> <p>This facility is also equipped with a dual fuel (natural gas/diesel) generator for backup power with a rating of 2050 kW to supply power during emergencies and high demand periods.</p> <p>Chemical wastewater generated on-site is directed to the neutralization tank where the pH and chlorine concentration are adjusted.</p> <p>Note: On March 28, 2011 a Schedule C amendment to Drinking Water Works Permit (DWWP) No. 196-201 was approved which permitted the installation of piping and valving for bypassing the membrane filtration system in</p>

## DWS Component Information Report for 220000460

as of 30-JAN-2025

LWIS Component Name	LWIS Component Type	LWIS Component Sub-Type	Component Address	Comments
				the event of a catastrophic membrane-SCADA failure.
Larocque Water Storage Standpipe	Other	Reservoir		The Larocque Water Storage Standpipe is located on Larocque Road and has a capacity of 4,100 m <sup>3</sup> . The standpipe was commissioned in December 2019.

**APPENDIX C**  
**REFERENCE MATERIALS**

# Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of municipal residential drinking water systems frequently use.

To access these materials online click on their titles in the table below or use your web browser to search for their titles. Contact the Ministry if you need assistance or have questions at 1-866-793-2588 or [waterforms@ontario.ca](mailto:waterforms@ontario.ca).

For more information on Ontario's drinking water visit [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater)



PUBLICATION TITLE	PUBLICATION NUMBER
<b>FORMS:</b> Drinking Water System Profile Information Laboratory Services Notification Adverse Test Result Notification	012-2149E 012-2148E 012-4444E
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	Website
Procedure for Disinfection of Drinking Water in Ontario	Website
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	Website
Filtration Processes Technical Bulletin	Website
Ultraviolet Disinfection Technical Bulletin	Website
Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments	Website
Certification Guide for Operators and Water Quality Analysts	Website
Guide to Drinking Water Operator Training Requirements	9802E
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	Website
Drinking Water System Contact List	7128E01
Ontario's Drinking Water Quality Management Standard - Pocket Guide	Website
Watermain Disinfection Procedure	Website
List of Licensed Laboratories	Website

# Principaux guides et documents de référence sur les réseaux résidentiels municipaux d'eau potable

De nombreux documents utiles peuvent vous aider à exploiter votre réseau d'eau potable. Vous trouverez ci-après une liste de documents que les propriétaires et exploitants de réseaux résidentiels municipaux d'eau potable utilisent fréquemment. Pour accéder à ces documents en ligne, cliquez sur leur titre dans le tableau ci-dessous ou faites une recherche à l'aide de votre navigateur Web. Communiquez avec le ministère au 1-866-793-2588, ou encore à [waterforms@ontario.ca](mailto:waterforms@ontario.ca) si vous avez des questions ou besoin d'aide.



Pour plus de renseignements sur l'eau potable en Ontario, consultez le site [www.ontario.ca/eaupotable](http://www.ontario.ca/eaupotable)

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable	012-2149F
Avis de demande de services de laboratoire	012-2148F
Avis de résultats d'analyse insatisfaisants et de règlement des problèmes	012-4444F
Prendre soin de votre eau potable - Un guide destiné aux membres des conseils municipaux	Site Web
Marche à suivre pour désinfecter l'eau potable en Ontario	Site Web
Stratégies pour minimiser les trihalométhanes et les acides haloacétiques de sous-produits de désinfection	Site Web
Filtration Processes Technical Bulletin (en anglais seulement)	Site Web
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	Site Web
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable	Site Web
Guide sur l'accréditation des exploitants de réseaux d'eau potable et des analystes de la qualité de l'eau de réseaux d'eau potable	Site Web
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802F
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	Site Web
Liste des personnes-ressources du réseau d'eau potable	Site Web
L'eau potable en Ontario - Norme de gestion de la qualité - Guide de poche	Site Web
Procédure de désinfection des conduites principales	Site Web
Laboratoires autorisés	Site Web

## City of North Bay Report to Council

Report No: CORP-2025-038

Date: April 8, 2025

Originator: Dan Robinson

Business Unit: Corporate Services

Department: Financial Services Department

Subject: Reduction, Cancellation or Refund of Taxes – Section 357/358, the  
Municipal Act, S.O. 2001, c.25

Closed Session: yes  no

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### Recommendation

1. That Report to Council CORP 2025-038 for the Cancellation, Reduction or Refund of Taxes under Sections 357 and 358 of the Municipal Act, 2001 c.25 be received; and
2. That Council accepts and approves the 9 applications as recommended by the Municipal Property Assessment Corporation (MPAC) for the period set out on each application form and that the taxes totaling approximately \$19,319.63 be adjusted under Section 357 of the Municipal Act, S.O. 2001 c.25 of which the City's portion is estimated to be \$15,056.69; and
3. That the Treasurer be directed to adjust the Collector's Roll; accordingly, and
4. That staff be authorized and directed to do all things necessary to give effect to this resolution.

---

### Background

Section 357/358 of the Municipal Act, S.O. 2001 c.25 (the "Act") provides Council with the authority to cancel, reduce or refund taxes under various circumstances as set out in the Act upon application by the ratepayer.

Pursuant to Section 357 subsection (3), an application must be filed with the Treasurer on or before the last day of February for the year following the year in respect of which the application is made. Upon application to the Treasurer of a local municipality, the local municipality may cancel, reduce or refund all or part of taxes levied on land in the year in respect of which the application is made if:

- a. a property or portion of a property is eligible to be reclassified in a different class of property, and that class has a lower tax ratio for the taxation year than the class the property or portion of the property was in before the change, and if no supplementary assessment is made in respect of the change under subsection 34(2) of the Assessment Act;
- b. a property that has become vacant land or excess land during the year;
- c. a property that has become exempt from taxation during the year;
- d. a building that during the year was razed by fire, demolition or otherwise, or was damaged by fire, demolition or otherwise so as to render it substantially unusable for the purposes for which it was used immediately prior to the

damage;

- d.1. a person who was unable to pay taxes because of sickness or extreme poverty;
- e. a mobile unit that was removed from the land during the year;
- f. a property overcharged by reason of any gross or manifest error that is a clerical error, the transposition of figures, a typographical error or similar type of error, but not an error in judgment in making the assessment upon which the taxes have been levied; or
- g. in respect of a property which by reason of repairs or renovations could not be used for its normal use for a period of at least three months during the year.

Pursuant to Section 358 subsection (3), an application must be filed with the Treasurer between March 1 and December 31 of a year and may apply to taxes levied for one or both of the two years preceding the year in which the application is made, and the application shall indicate to which year or years it applies. Section 358 of the Act permits applications for tax adjustment, related to taxes levied in each or either of the two years preceding the year in which the application is made, by property owners who are overcharged by reason of any gross or manifest error in the preparation of the assessment roll by the Municipal Property Assessment Corporation (MPAC) that was an error of fact. This may include, but is not limited to; clerical errors, the transposition of figure or typographical errors, but not an error in judgment in making the assessment upon which the taxes have been levied. These applications relate to taxes levied in each or either of the two years preceding the year in which the application is made.

In accordance with the Act, and the City's Notice by-law, Notices for the properties listed in Appendix A, were delivered to the applicants not less than fourteen days before the date upon which the applications are to be dealt with April 8, 2025. The notices for these properties were mailed March 19, 2025.

The applications have been reviewed and the value verified Municipal Property Assessment Corporation (MPAC). MPAC provides the City with the assessed values relating to the applications for tax adjustments and confirms that tax class change requests are indeed appropriate. Following the staff's review of each application, nine applications are recommended for Council's approval.

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## **Financial/Legal Implications**

The City of North Bay annually budgets for property tax adjustments, which come as a result of assessment appeals and from tax adjustments under Section 357 and 358 of the Municipal Act, 2001.

An applicant may appeal the decision of City Council to the Assessment Review Board (ARB) by filing a notice of appeal with the registrar of the ARB within 35 days after Council makes its decision.

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## **Corporate Strategic Plan**

- Natural North and Near
- Affordable Balanced Growth
- Responsible and Responsive Government
- Economic Prosperity
- Spirited Safe Community

## **Specific Objectives**

- Ensure that Council and staff have a shared perception of goals

---

## Options Analysis

Option 1: Council rejects the 9 applications and denies all or specific applications. The ratepayer has the opportunity to file a notice of appeal to the ARB and the ARB's decision is final. This option is not recommended.

Option 2: Council accepts and approves the 9 applications as recommended by the Municipal Property Assessment Corporation (MPAC) for the period set out on each application form and that the applicable taxes either remain or are cancelled, reduced or refunded as authorized by Section 357/358 of the Act.

---

## Recommended Option

1. That Report to Council CORP 2025-038 for the Cancellation, Reduction or Refund of Taxes under Sections 357 and 358 of the Municipal Act, S.O. 2001 c.25 be received; and
2. That Council accepts and approves the 9 applications as recommended by the Municipal Property Assessment Corporation (MPAC) for the period set out on each application form and that the taxes totaling approximately \$19,319.63 be adjusted under Section 357 of the Municipal Act, S.O. 2001 c.25 of which the City's portion is estimated to be \$15,056.69; and
3. That the Treasurer be directed to adjust the Collector's Roll; accordingly, and
4. That staff be authorized and directed to do all things necessary to give effect to this resolution.

---

Respectfully submitted,

Name: Dan Robinson

Title: Manager, Revenues & Taxation

Name: Margaret Karpenko, CPA, CMA

Title: Chief Financial Officer /Treasurer

## I concur with this report and recommendation

Name John Severino, P.Eng., MBA

Title: Chief Administrative Officer

Personnel designated for continuance:

Dan Robinson

Manager, Revenues & Taxation



Section 357/358 Applications to City Council - April 8, 2025  
 Recommended Applications

Application Number	Tax Year	Roll Number	Property Type	Subsection	Total
2025-01	2024	020.031.03700	Commercial/Residential	Ceases to be liable for tax at rate it was taxed	\$ (801.46)
2025-02	2025	020.031.03700	Commercial/Residential	Ceases to be liable for tax at rate it was taxed	\$ (3,087.75)
2025-03	2024	030.044.12900	Commercial	Razed by Fire	\$ (10,766.81)
2025-04	2024	040.055.10400	Residential	Razed by Fire	\$ (1,027.16)
2025-05	2025	040.055.10400	Residential	Razed by Fire	\$ (1,978.63)
2025-06	2024	050.064.36801	Residential	Became Exempt	\$ (179.94)
2025-07	2025	050.064.36801	Residential	Became Exempt	\$ (665.23)
2025-08	2024	050.065.31400	Residential	Became Exempt	\$ (173.02)
2025-09	2025	050.065.31400	Residential	Became Exempt	\$ (639.64)
					<u>\$ (19,319.63)</u>

\*2025 is estimated using 2024 tax rates.

**The Corporation of the City of North Bay**

**By-Law No. 2025-36**

**Official Plan Amendment No. 35**

**Additional Dwelling Units**

**Whereas** The Corporation of the City of North Bay has initiated an amendment to the Official Plan of the North Bay Planning Area;

**And whereas** the Council of the Corporation of the City of North Bay has ensured that adequate information has been made available to the public, and held at least one public meeting after due notice for the purpose of informing the public of this By-law;

**And whereas** it is deemed desirable to amend the Official Plan of the City of North Bay to include the Additional Dwelling Unit policies and enabling policies for delegated authority as shown in Schedule 'A' to this By-law pursuant to Section 17 of the *Planning Act*, R.S.O. 1990, c. P.13 as amended.

**Now therefore the Council of the Corporation of the City of North Bay hereby enacts as follows:**

- 1) The attached explanatory text constituting Amendment No. 35 to the Official Plan of the City of North Bay Planning Area are hereby adopted.
- 2) The appendices constitute revisions to the appendices only of the Official Plan and shall not constitute part of this Amendment.
- 3) Notice of this By-law shall be given by the Clerk in the manner and form and to the persons prescribed by Section 4 of O. Reg. 543/06 as amended.
- 4) This By-law shall come into effect upon passing.

Read a First Time in Open Council the 8<sup>th</sup>, day of April, 2025.

Read a Second Time in Open Council the 8<sup>th</sup>, day of April, 2025.

Read a Third Time in Open Council and Passed this 8<sup>th</sup>, day of April, 2025.

---

Mayor, Peter Chirico

---

City Clerk Karen McIsaac

**'Schedule A to By-law 2025-36'**

**AMENDMENT NO. 35**

**TO THE**

**OFFICIAL PLAN**

**OF THE**

**CITY OF NORTH BAY**

**(ADDITIONAL DWELLING UNITS and DELEGATED APPROVAL AUTHORITY)**

***March 2025***

**AMENDMENT NO. 35  
TO THE OFFICIAL PLAN OF THE CITY OF NORTH BAY**

**INDEX**

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## **STATEMENT OF COMPONENTS**

PART ONE - INTRODUCTION is included for information purposes and is not an operative part of this Official Plan Amendment.

PART TWO - THE AMENDMENT, consisting of the text and schedules attached hereto, is an operative part of this Official Plan Amendment.

## **PART ONE - INTRODUCTION**

### **1. PURPOSE**

The purpose of Amendment No.35 to the Official Plan of the City of North Bay is to make changes to the Additional Dwelling Unit Policies as outlined in the City's successful application to Canada Mortgage and Housing Corporation's (CMHC) 'Housing Accelerator Fund' (HAF) and to permit up to four units as a right on all residential urban serviced lands within the settlement boundary of the City.

The proposed Amendment would also provide Official Plan policy to permit Council to pass by-laws to delegate approval authority to City Staff for routine Planning applications and processes that are typically technical in nature.

### **2. LOCATION**

This Amendment applies to the entirety of the City of North Bay.

### **3. BASIS**

#### Additional Dwelling Units

The City of North Bay has been approved under the Federal Government's 'Housing Accelerator Fund' (HAF) administered by CMHC. Through the application process the City identified seven initiatives that would encourage additional residential units.

One of the initiatives identified in the City's application was permitting up to three Additional Dwelling Units (ADU) as a right (for a total of four units per property).

ADUs are currently permitted within the Settlement Area of the City, this change was completed in 2023, with the *More Homes Built Faster Act, 2022*, which made amendments to the Planning Act. The new legislation prohibited Municipalities from creating Official Plan policy or Zoning By-law regulations that would restrict urban residential properties having less than three residential units.

This proposed change would permit one additional unit per property, for a total of four units, should the property be able to meet the required setbacks, meet parking requirements and the Ontario Building Code.

ADUs are an effective way to increase housing inventory as ADUs are, in comparison to new development, relatively inexpensive and can be constructed relatively fast. The new amended ADU policy will allow property owners to create

up to four new units within the Settlement Area, where the property is connected to municipal services. The creation of the new amended ADU policies will allow for more rental units to be created, provide a revenue stream that allows for affordable home ownership, and permit multi-residential units. The introduction of this ADU policy will make housing more affordable, inclusive, equitable and diverse.

ADUs will be constructed on existing developed properties within the serviced area and road networks infilling and/or intensifying by taking advantage of the existing infrastructure. ADUs will also be constructed in new subdivision developments where builders will complete an ADU(s) at time of construction or rough in for future completion. ADUs will help to support complete and walkable communities with diverse land uses and access to amenities.

Since Council approved the ADUs policy which permitted up to three units per property, the City has seen an increase in the uptake of ADUs. The figure below demonstrates the amount of ADUs and Secondary Dwellings (2021 and 2022):

<b>Year</b>	<b>Additional Dwelling Units</b>
2021	9
2022	20
2023	22
2024	36
<b>Total</b>	<b>87</b>

In 2024, ADUs represented 36% of the new housing units created in North Bay. Since 2021, 87 new housing units have been created through the ADU policies. This trend and uptake in the market to construct ADUs demonstrates that the existing policy is working for applicants (homeowners, home builders). The new amended ADU policy aims to improve upon the existing policy by allowing up to three ADUs per property and making the approval process more streamlined and efficient.

Based on the current practices with Additional Dwelling Units and general Planning guidelines, the Planning Department makes the following recommendations on implementing Additional Dwelling Units (up to three ADUs) within the City of North Bay, including:

- ADUs will be permitted within the serviced Settlement Area of the City and not permitted within the Rural Area;
- 0.5 Additional Parking Space will be required for each ADU; and
- Satisfying all applicable requirements of Zoning By-law, Building Code, Fire

#### **4. Planning Rational and Justification**

The proposal to permit 4 units as-of-right (primary residence and 3 ADUs) on municipally serviced lands within the City's Settlement Area requires an Official Plan and Zoning Bylaw Amendment. The proposed amendment needs to represent good land use policy and the following section provides the Planning rational and justification. Additional Dwelling Units has seen changes and different requirements in the last couple of years.

##### *Secondary Dwellings Units – OPA 20 – 2018*

In 2018, the City of North Bay amended its Official Plan and Zoning By-law to implement the requirements of the *Strong Communities Through Affordable Housing Act, 2011*. Through this act it was required that Municipalities permit a second residential unit within a single detached, semi-detached and row housing, provided no accessory dwelling contained a residential unit.

##### *Additional Dwelling Units – OPA 31*

The *More Homes, More Choice Act, 2019* was passed on November 28, 2022, which made further changes to the Planning Act regarding additional residential units. This change permitted up to three units per property.

In 2023, the City of North Bay implemented these changes to permit up to three residential units on a parcel of land within the Settlement Area, and permitting up to 2 residential units within the rural area.

The proposed changes to the Official Plan and Zoning By-law would take a similar approach to the current policies and provisions in place for ADUs.

The proposed amendments would permit up to 4 units as-of-right (primary residence, 3 ADUs) within the urban area and still allow up to 2 residential units within the rural area.

#### **Policy and Regulatory Framework**

The proposed amendments to the Official Plan and Zoning By-law are subject to the following policy and regulatory framework:

- The Planning Act
- 2024 Provincial Planning Statement
- 2011 Growth Plan for Northern Ontario
- Official Plan for the City of North Bay
- Zoning By-law No. 2015-30.

#### **Planning Act**

The Planning Act is provincial legislation that sets out the rules for land use planning for



municipalities in Ontario. The Planning Act currently prohibits municipalities from not permitting three dwelling units on a parcel of urban residential land.

The proposed amendments are proposing to allow up to 4 units as-of-right on a parcel of urban residential land.

### **Provincial Planning Statement, 2024**

The proposed amendment to allow for up to 4 units as-of-right on a parcel of urban residential land must be consistent with the Provincial Planning Statement.

Planning Staff have reviewed the PPS, 2024 in its entirety and is of the opinion the proposed amendments are consistent with the policy direction. Specifically, the following sections of the PPS, Policy 4 of Section 2.1 and Policy 1b) of Section 2.2, which states the following:

*“2.1 Planning for People and Homes – 4. To provide for an appropriate range and mix of housing options and densities required to meet projected requirements of current and future residents of the regional market area, planning authorities shall:*

- a) maintain at all times the ability to accommodate residential growth for a minimum of 15 years through lands which are designated and available for residential development; and*
- b) maintain at all times where new development is to occur, land with servicing capacity sufficient to provide at least a three-year supply of residential units available through lands suitably zoned, including units in draft approved or registered plans.*

### **2.2 Housing**

*1. Planning authorities shall provide for an appropriate range and mix of housing options and densities to meet projected needs of current and future residents of the regional market area by:*

*b) permitting and facilitating:*

- 1. all housing options required to meet the social, health, economic and well-being requirements of current and future residents, including additional needs housing and needs arising from demographic changes and employment opportunities; and*
- 2. all types of residential intensification, including the development and redevelopment of underutilized commercial and institutional sites (e.g., shopping malls and plazas) for residential use, development and introduction of new housing options within previously developed areas,*

*and redevelopment, which results in a net increase in residential units in accordance with policy 2.3.1.3;*

*c) promoting densities for new housing which efficiently use land, resources, infrastructure and public service facilities, and support the use of active transportation;...”*

## **Growth Plan for Northern Ontario**

The proposed amendments conform to and do not conflict with the Growth Plan for Northern Ontario, 2011. Specifically, policy 3.4.3 of the GPNO encourages municipalities to support and promote healthy living by providing for communities with a diverse mix of land uses, a range and mix of employment and housing types, high-quality open spaces, and easy access to local stores and services. The proposed amendments would facilitate a greater range and mix of housing types.

## **Official Plan**

The City of North Bay’s Official Plan generally directs new growth and redevelopment within the Settlement Area. The Settlement Area is sized to meet current and future land requirements for these uses requiring full municipal services.

The Official Plan Section 2.1.11 has Housing Policies and provides general housing policies to ensure that there is an adequate number of housing units available.

### 2.1.11.2 –

a) To encourage the existence of an adequate supply and diversity of residential accommodation by type and tenure to satisfy the social and economic requirements to the population;

### 2.1.12 Urban Residential Area Densities

Urban Residential Areas will be made up of low, medium and high-density residential developments. The Comprehensive Zoning By-law will zone various areas within the City for low, medium and high density residential development.

2.1.12.1 Low and medium density residential developments permit single detached dwellings, semi-detached dwellings, duplexes, triplexes, townhouses, low profile apartments (up to four units), rooming houses, mobile homes and group homes.

The proposal to permit 4 units as-of-right in all low-density residential zones, would permit cost effective intensification, while maintaining low density residential development in existing neighbourhoods.

In my professional opinion, the proposed Official Plan Amendment and Zoning By-law Amendment to permit four (4) residential units as-of-right are consistent with the PPS, 2024, does not conflict with the Growth Plan for Northern Ontario, conforms with the City of North Bay's Official Plan.

The Canada Housing Infrastructure Fund (CHIF) website advises that municipalities with populations of 30,000 and above are required to implement zoning for four units as-of-right. The Government of Canada expects municipal land use policy and required zoning regulations to be in place by Spring 2025.

#### Delegated Authority

The second part of this Official Plan Amendment is to provide Official Plan policy to allow Council to delegate approval of certain Planning Act applications to an officer, employee or agent of the Municipality. This initiative was also part of the City's HAF application and approval.

Planning Staff currently have delegated authority for Site Plan Control Agreements. The proposed Official Plan Amendment would create the necessary enabling policies to allow for delegation to staff to review and process routine and technical approvals or extensions. In addition to this policy amendment, a By-law would need to be passed by Council to enact the delegation.

Delegated Authority would allow for reduced timelines for minor technical Planning Act applications that would support new development.

Delegated Authority could be for the following:

- Site Plan Control Agreements;
- Consents;
- Minor Changes to the Zoning By-law (Holding Zones, Temporary Use By-law)
- Redline Amendments to Draft Plan of Subdivision and/or Condominiums;
- Extension and Final Approval of Draft Plan of Subdivision/Condominiums;
- Draft Plan of Subdivision and/or Condominiums; and
- Any other Planning Act Application that is permitted under the Planning Act.

#### **Planning Rational and Justification**

The proposed amendment to the City of North Bay's Official Plan would provide enabling policies to give delegation of authority to qualified staff for routine and technical

approvals, amendments and extensions.

Bill 13, *Supporting People and Businesses Act, 2021*, made changes to a variety of statutes, including the *Planning Act*. The proposed changes to the *Planning Act* added a new section (Section 39.2) that the council of a local municipality may delegate decision-making authority under Section 34. The delegated decision-making authority may include, but not limited to, the following approvals: remove a holding symbol, temporary use by-laws to authorize the temporary use of land, buildings, or structures.

Along with these changes through Bill 13, there are other enabling polices for delegation approval under the Planning Act, including extension to Draft Approval, Red-Line Amendment to Draft Approval, consent authority and Site Plan Approvals.

The proposed Official Plan amendment would allow for enabling policies only, and any delegation of approval would need to be approved by amendment to the City's delegation by-law.

Planning Staff is of the opinion that the proposed amendment to the Official Plan to allow for enabling policies represents good land use planning and can help expediate certain processes that are generally more technical in nature.

## **PART TWO - THE AMENDMENT**

### **1. PURPOSE**

The purpose of Amendment No.35 to the Official Plan of the City of North Bay is to include Additional Dwelling Unit policies and provide Official Plan policy for delegated approval authority.

This amendment applies to all lands within the City of North Bay.

### **2. THE AMENDMENT**

The Official Plan of the City of North Bay is hereby amended:

#### **2.1.1 Policies**

By deleting section 2.1.13.6 Additional Dwelling Unit Policies in its entirety and replacing it with the following:

##### **“2.1.13.6 Additional Dwelling Unit Policies**

Additional Dwelling Units (ADU) can help to achieve intensification targets and increase the availability of affordable housing choices for

residents. ADUs may also assist with aging in place concepts.

ADUs are ancillary and subordinate to the primary dwelling unit. ADUs are permitted within the Settlement Area, where the property is connected to municipal services, to a maximum of three Additional Dwellings Units and the primary dwelling for a maximum of four (4) units.

Within the Rural area of the City, or where a property is within the Settlement Area but not connected to municipal services, a maximum of one ADU is permitted.

ADUs are permitted provided it meets the following criteria:

- a) Within the Settlement Area, where connected to municipal services, a second, third and/or fourth residential unit in a detached, semi-detached, townhouse, provided that no accessory structure on the property contains an additional residential dwelling unit; or
- b) Within the Settlement Area, where connected to municipal services, an additional residential dwelling unit in a detached, semi-detached, townhouse, if there is only one residential unit within an accessory structure on the property; or
- c) Within the Settlement Area, where connected to municipal services, an accessory building is permitted to have one additional residential dwelling unit, provided that no other accessory building on the property has an additional residential dwelling unit and provided that there is a maximum of two additional residential dwelling units within the primary residential unit;
- d) Recreational Vehicles and Mobile homes are not considered an additional residential dwelling unit;
- e) Adequate servicing must be available to service the additional residential dwelling unit through either the municipal system within the Settlement Area, or through, privately owned systems within the rural area where municipal services are not

available;

- ) additional residential dwelling units are not permitted within hazard lands or adjacent to hazard lands;
- a) additional residential dwelling units are not permitted in any Industrial or Commercial zoned property;
- b) additional residential dwelling units shall not be permitted within 300 metres of the un-serviced shoreline and major inflowing streams of Trout Lake, unless the proposed property is on full Municipal Services;
- c) Additional residential dwelling units will not cause alterations to the main building's exterior that would significantly change the existing character of the neighbourhood or streetscape. This may include but is not limited to the creation of new entrances and adequate parking;
- d) additional residential dwelling units must satisfy all applicable requirements of the Ontario Building Code, Ontario Fire Code, the Zoning By-law and the Property Standards By-law, and any other Federal, Provincial or Municipal law or legislation;
- e) Existing illegal additional residential dwelling units must comply with all of the applicable requirements of the Official Plan and Zoning By-law and obtain the necessary building permits to be considered a legal additional dwelling unit; and
- f) Additional regulations for additional residential dwelling units will be established in the Zoning By-law.

## **5.1 The Planning Toolbox**

Add the following after the third paragraph in Section 5.1 The Planning Toolbox:

“5.1.0 Delegated Approval Authority

Council has the ability through the Planning Act by By-law to delegate

approval authority for Planning Tools to be approved by a Committee of Council or an individual who is an officer, employee or agent of the Municipality.

Council may by By-law delegate approval authority to either a Committee of Council or an individual who is an officer, employee or agent of the Municipality. The By-law would grant the delegated authority and provide the process in which to follow for approval. Council would have the ability to delegate approval authority for the following:

- Site Plan Control Agreements;
- Consents;
- Minor Variances;
- Minor Changes to the Zoning By-law (holding zones, temporary use By-laws);
- Redline Amendments to Draft Plan of Subdivisions and/or Condominiums;
- Extension and Final Approval of Draft Plan of Subdivisions and/or Condominiums;
- Draft Plan of Subdivisions and/or Condominiums; and
- Any other Planning Act Application or process that is permitted under the Planning Act.”

### **3. IMPLEMENTATION AND INTERPRETATION**

This Official Plan Amendment shall be implemented and interpreted in accordance with the implementation and interpretation provisions set out in the Amendment and the Official Plan.

**The Corporation of the City of North Bay**

**By-Law No. 2025-37**

**A By-Law to Amend Zoning By-Law No. 2015-30 to include Additional Dwelling Unit Policies within the City of North Bay**

**Whereas** the Council of the Corporation of the City of North Bay has initiated amendments to the Zoning By-law to permit Additional Residential Dwelling Units;

**And Whereas** the Council of the Corporation of the City of North Bay has ensured that adequate information has been made available to the public, and held at least one public meeting after due notice for the purpose of informing the public of this By-Law;

**And Whereas** it is deemed desirable to amend the regulations of Zoning Bylaw 2015-30 pursuant to Section 34 of the Planning Act, R.S.O. 1990, c. P. 13, as amended;

**And Whereas** Council passed Council Resolution No. 2025-\_\_\_\_\_ on the 8<sup>th</sup> day of April, 2025, to approve this rezoning;

**Now therefore the Council of the Corporation of the City of North Bay hereby enacts as follows:**

- 1) Section 2 – Definitions of Zoning By-law No. 2015-30 is amended by amending the following definitions:

**Dwelling Unit, Additional Residential Urban:**

A dwelling unit that is ancillary and subordinate to the main dwelling unit within the **Urban Settlement Area**, and connected to municipal services.

- 2) Amend Section 3.20.2.1 Additional Residential Dwelling Unit to the following:

**“3.20.2.1 Additional Residential Dwelling Unit**

An **additional dwelling unit** may be permitted within:

- a) A **single detached dwelling** or an accessory building thereto
- b) A **semi-detached dwelling** or an accessory building thereto
- c) A **townhouse (cluster, stacked, or street front)** dwelling or an accessory building thereto

provided that a maximum of three **additional residential dwelling units** shall be permitted within the **Urban Settlement Area** per property and connected to municipal services and one **additional residential dwelling unit** shall be permitted per property within the Rural Area of the City.



Additional residential dwelling units which were illegal on the passing of this By-law must meet all the required criteria for an **additional residential dwelling unit** and receive a change of use permit under the Building Code to be considered a legal **additional residential dwelling unit**.

Notwithstanding the above, additional **residential dwelling unit(s)** are not permitted:

- a) Within a dwelling unit or an accessory building within the Parkland (P), Open Space (O), Rural Residential Lakefront (RRL), Floodway (O1) and the Floodplain and Erosion (O2) Zones;
  - b) Within a dwelling unit or accessory building that is permitted in a non-residential zone in Section 6 and 7 of this By-law; and
  - c) Within a dwelling unit or an accessory building on the un-serviced properties within 300 metres of Trout Lake and any major inflowing streams as identified on Schedule 'E' of Zoning By-law 2015-30;
- 3) Delete Section 3.20.2.5 e) and replace it with the following:  
"e) shall not have a maximum **gross floor area**, provided it meets the provisions of the Zoning By-law for lot coverage and setbacks;"
- 4) Notice of the passing of this By-law shall be given by the Clerk of The Corporation of the City of North Bay in the manner and form and to the persons prescribed by Section 6 of O.Reg. 545/06 as amended.
  - 5) This By-law shall come into effect upon passage and the adoption of Official Plan Amendment 35.
  - 6) This By-law is in conformity with the City of North Bay's Official Plan as amended by Official Plan Amendment 35.

Read a First Time in Open Council the 8<sup>th</sup> day of April 2025.

Read a Second Time in Open Council the 8<sup>th</sup> day of April 2025.

Read a Third Time in Open Council and Passed this 8<sup>th</sup> day of April 2025.

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Mayor Peter Chirico

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City Clerk Karen McIsaac

**The Corporation of the City of North Bay**

**By-Law No. 2025-38**

**A By-Law to amend By-Law 2019-107  
to amend the Growth Community Improvement Plan**

**Whereas** Section 28 (2) of the Planning Act permits Municipalities where there is an Official Plan in effect that contains provisions relating to community improvement, the Council may, by By-law, designate the whole or any part of an area covered by such an Official Plan as a Community Improvement Project Area;

**And Whereas** the Council of the Corporation of the City of North Bay designated the entire City boundary as a Community Improvement Project Area by Bylaw No. 2019-106, as per Section 28 (2) of the Planning Act, R.S.O., 1990, as amended;

**And Whereas** the City of North Bay's Official Plan contains provisions pertaining to and supporting a Community Improvement Plan;

**And Whereas** the goals of the Growth Community Improvement Plan are to encourage sustainable growth and development within housing, the industrial sector with the creation of jobs and economic opportunity and to enhance the City's Downtown Core.

**And Whereas** the Growth Community Improvement Plan would provide successful applicants within the target areas grants permitted under Section 28(7) of the Planning Act, R.S.O., 1990, as amended, to encourage growth and development within the Industrial Target Area, Housing Target Area and the Downtown Target Area and Waterfront Target Area;

**And Whereas** Council adopted the Growth Community Improvement Plan on December 8, 2019 by By-Law 2019-107;

**And Whereas** the City of North Bay was successful in the funding from the Federal Government for the Housing Accelerator Fund (HAF) to enable the creation of new residential dwelling units;

**Now therefore the Council of the Corporation of the City of North Bay hereby enacts as follows:**

1. The attached explanatory text and schedule constitutes Amendment No. 3 to the Growth Community Improvement Plan is hereby adopted.
2. This By-law shall come into force and take effect on the day it is passed, subject to and in accordance with the provisions of the *Planning Act*, R.S.O. 1990, c. P. 13, as amended from time to time.

Read a First Time in Open Council the 8<sup>th</sup> day of April 2025.

Read a Second Time in Open Council the 8<sup>th</sup> day of April 2025.

Read a Third Time in Open Council and Passed this 8<sup>th</sup> day April of 2025.

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Mayor Peter Chirico

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City Clerk Karen McIsaac

**AMENDMENT NO. 3 TO THE CITY OF NORTH BAY'S GROWTH COMMUNITY  
IMPROVEMENT PLAN**

***March 2025***

Amendment No. 3  
to the Growth Community Improvement Plan  
of the City of North Bay

The attached explanatory text and Schedule A constitute Amendment No. 3 to the Growth Community Improvement Plan of the City of North Bay. This Amendment was adopted by The Corporation of the City of North Bay by By-law No. 38 in accordance with Sections 17 and 21 of the Planning Act, R.S.O. 1990 as amended by Statutes of Ontario 19101, Chapter 4, Section 9 pursuant to O. Reg. 543/06 on April 8<sup>th</sup>, 2025.

Corporate Seal

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Mayor Peter Chirico

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City Clerk Karen McIsaac

## **PART ONE - INTRODUCTION**

### **1. PURPOSE**

The purpose of the amendment to the Growth Community Improvement Plan (Growth CIP) is to create a new incentive within the Housing Target Area. The new incentive titled the 'Additional Housing Unit Grant Program' will provide successful proponents up to 75% up to a maximum of \$25,000 of the total costs to create an additional housing unit. An additional housing unit can be an additional dwelling unit(s) (ADU) within an existing or new dwelling unit or can be a multiple residential building.

This amendment will create a financial incentive to encourage additional housing units to be created and can also encourage existing illegal units to be legalized.

### **2. LOCATION**

This Amendment applies to the Growth Community Improvement Plan Project area which is the entire City of North Bay.

### **3. PLANNING RATIONALE AND JUSTIFICATION**

The Planning Act in Ontario allows municipalities to create Community Improvement Plans (CIPs) to address various local needs and opportunities.

A CIP can be used to encourage redevelopment, rehabilitation, or other improvements in designated areas.

The City of North Bay has designated the entire City as a Community Improvement Project Area. The City of North Bay has a long history of having CIPs to offer financial incentives to support different forms of development.

Council adopted the new Growth Community Improvement Plan (Growth CIP) in January 2020. The Growth CIP currently has four different target areas, being Downtown, Waterfront, Industrial and Housing.

The focus of this amendment is on the Housing Target Area. The main objective of the Housing Target Area is to encourage infill and intensification of housing development within the Settlement Area of the City. Generally, the Housing Target Area supports development that is increasing the net number of residential units on properties through different forms of housing development, including Additional Dwellings Units (ADUs).

The Housing Target Area has processed 32 applications which will assist 169 additional residential units to be created. The private sector has invested approximately \$27 million to create these units, with a public sector contribution of approximately \$497,500, not including the tax incremental grant. This represents a 1:54 ratio of public to private sector spending.

Through the first initiative, Council adopted an amendment to the Housing Target Area of the Growth CIP in the summer of 2024. This amendment expanded the housing target area to apply to the entire urban settlement area.

The second initiative would provide top-up funding to encourage intensification of residential units. The top-up funding is proposed to be 75% up to \$25,000 for each additional housing unit created within the Urban Settlement Area.

The top-up funding can be used for the construction costs of the unit and upgrading services to accommodate the intensification (including hydro, water and sewer)

Planning Staff is of the opinion that the current Housing Target Area incentives are encouraging and providing the necessary assistance to create more housing units.

The current program has been successful, and the added Top-Up funding will incentivize more units to come to the market within the Urban Settlement Area of the City than otherwise would have.

## **Policy and Regulatory Framework**

The proposed amendment to the Growth CIP is subject to the following policy and regulatory framework:

- The Planning Act
- 2024 Provincial Planning Statement
- 2011 Growth Plan for Northern Ontario
- Official Plan for the City of North Bay
- Zoning By-law No.2015-30.

## **Planning Act**

The Planning Act is provincial legislation that sets out the rules for land use planning in Ontario. The legislation prohibits Municipalities from creating Official Plan policy or Zoning By-law regulations that would restrict urban residential properties having less than three residential units.

Part IV of the Planning Act provides policies for Community Improvement and when it can be established and used to provide incentives, including financial incentives to property owners that are making an improvement to their lands, structure or building. The proposal is to amend the Housing Target Area to include the Additional Housing Top-up Funding which is permitted under Section 28 (7).

### **“Grants or loans re eligible costs**

(7) for the purpose of subsection (7), the eligible costs of a community improvement plan may include costs related to environmental site assessment, environmental remediation, development, redevelopment, construction and reconstruction of lands and buildings for rehabilitation purposes or for the provision of energy efficient uses, buildings, structures, works, improvements or facilities. 2006, c.23, s. 14 (8).”

## **Provincial Planning Statement, 2024**

The proposed amendment would provide top-up funding for developers and individuals increasing the amount of housing units on their property. The Housing Target Area is the Settlement Area of the City and the property must be connected to municipal services to be eligible. The proposal will increase density within the Settlement Area, which is consistent with the policy direction of the PPS. Specifically, with the following sections:

*“2.1 Planning for People and Homes – 4. To provide for an appropriate range and mix of housing options and densities required to meet projected requirements of current and future residents of the regional market area, planning authorities shall:*

- a) maintain at all times the ability to accommodate residential growth for a minimum of 15 years through lands which are designated and available for residential development; and*
- b) maintain at all times where new development is to occur, land with servicing capacity sufficient to provide at least a three-year supply of residential units available through lands suitably zoned, including units in draft approved or registered plans.*

## **1.2 Housing**

*1. Planning authorities shall provide for an appropriate range and mix of housing options and densities to meet projected needs of current and future residents of the regional market area by: ...*

*b) permitting and facilitating:*

- 1. all housing options required to meet the social, health, economic and wellbeing requirements of current and future residents, including additional needs housing and needs arising from demographic changes and employment opportunities; and*
- 2. all types of residential intensification, including the development and redevelopment of underutilized commercial and institutional sites (e.g., shopping malls and plazas) for residential use, development and introduction of new housing options within previously developed areas, and redevelopment, which results in a net increase in residential units in accordance with policy 2.3.1.3;*

*c) promoting densities for new housing which efficiently use land, resources, infrastructure and public service facilities, and support the use of active transportation;...”*

## **Growth Plan for Northern Ontario**

The proposed amendments conform to and do not conflict with the Growth Plan for Northern Ontario, 2011. Specifically, policy 3.4.4 of the GPNO encourages municipalities to support and promote healthy living by providing for communities with a diverse mix of land uses, a range and mix of employment and housing types, high-quality open spaces, and easy access to local stores and services. The proposed amendments would facilitate a greater range and mix of housing types.

## **Official Plan**

The City of North Bay’s Official Plan generally directs new growth and redevelopment within the Settlement Area. The Settlement Area is sized to meet the current and future land requirements for these uses requiring full municipal services.

The Official Plan Section 2.1.11 has Housing Policies and provides general housing policies to ensure that there is an adequate number of housing units available.

*“2.1.11.2*

- a) To encourage the existence of an adequate supply and diversity of residential accommodation by type and tenure to satisfy the social and economic requirements of the population;”*

The proposed Top-Up Funding for additional units will encourage intensification of current built forms within the Urban Settlement Area of the City on full municipal services.

*“5.1.12 Community Improvement Plans*

*5.1.12.1 Community Improvement Plans will be prepared to provide direction regarding one or more of the following:*

*g) Promote and encourage new residential developments Downtown and increase density development around existing commercial nodes.*

*h) Encourage the Downtown to be the focus for economic, employment, and housing opportunities.”*

In my professional opinion, the proposed Official Plan Amendment to amend the Growth CIP to provide Top-Up Funding for additional residential units is consistent with the PPS, 2024, conforms and does not conflict with the Growth Plan for Northern Ontario, and conforms with the City of North Bay's Official Plan.

## **PART TWO - THE AMENDMENT**

The Growth CIP is hereby amended with the following:

1. Amend Section 4.0 by adding the following to the list of CIP Incentive

Programs: "12. Additional Housing Unit Grant"

2. Amend Section 4.0 by adding the following after Section 4.12:

### **"4.13 Additional Housing Unit Grant Program**

#### **4.13.1 Purpose**

The purpose of the Additional Housing Unit Grant program is to provide a financial incentive to encourage property owners to create new or legalize existing additional dwelling units or construct new multiple residential buildings for the purpose of new rental housing or new affordable home ownership.

#### **4.13.2 Description**

This program can provide a financial incentive of up to 75% to a maximum of \$25,000 for the creation of a new or legalization of an existing additional dwelling unit or the construction of a multiple residential building.

#### **4.13.3 Program Requirements**

Applicants are eligible to apply to this program, subject to meeting the general program requirements, program specific requirements, be in an eligible target area and subject to the availability of funding as approved by Council. This program can end without an amendment to this plan at any time based on the funding from the Federal Government through the Housing Accelerator Fund (HAF). Successful applicants will be required to enter into a development agreement with the City of North Bay to ensure the Housing Units are being built. The development agreement will identify key milestones based on the type of rental unit(s) or affordable home ownership, as determined and defined by the City at its sole discretion, being created, if milestones are not met the approval will be rescinded.

Applicants cannot be receiving funding through the District of Nipissing Social Services Administration Board, Additional Dwelling Unit Program.

#### **4.13.4 Eligible Target Areas**

Applicants within the **Housing Target Area** are eligible to apply for the Additional Housing Unit Grant Program.

#### **4.13.5 Eligible Costs**

The eligible cost for a grant under the Additional Housing Unit Grant Program is a maximum of 75% up to \$25,000 for the construction costs of creating or the legalization of an additional dwelling unit(s) within an existing dwelling or an additional dwelling unit in a new dwelling or the creation of a new multiple residential building with five (5) or more residential units.

### **PART 3 – IMPLEMENTATION**

This Amendment to the Growth Community Improvement Plan shall be implemented in accordance with the implementation policy contained in Part 5 of the Official Plan.

### **PART TWO – INTERPRETATION**

This Amendment to the Growth Community Improvement Plan shall be interpreted in accordance with the interpretation policy contained in Part 6 of the Official Plan.



**The Corporation of The City of North Bay**

**By-Law No. 2025-39**

Being a By-Law to Authorize the Execution of a Subdivision Pre-Servicing Agreement with Ski Ridge Estates Inc. and Janey Avenue Inc. relating to Ski Ridge Subdivision, Phase 3

Whereas the Subdivision Pre-Servicing Agreement with Ski Ridge Estates Inc. and Janey Avenue Inc. was approved by Resolution No. 2025-105 passed by Council on Tuesday, the 25<sup>th</sup> day of March, 2025;

Now Therefore The Council of The Corporation of the City of North Bay Hereby Enacts as Follows:

1. The Corporation of the City of North Bay enter into a Subdivision Pre-Servicing Agreement with Ski Ridge Estates Inc. and Janey Avenue Inc. – Ski Ridge Subdivision – Phase 3.
2. The Mayor and Clerk of The Corporation of the City of North Bay are hereby authorized to execute that certain Agreement between The Corporation of the City of North Bay and Ski Ridge Estates Inc. and Janey Avenue Inc. and to affix thereto the Corporate Seal.

Read a First Time in Open Council on the 8<sup>th</sup> day of April, 2025.

Read a Second Time in Open Council on the 8<sup>th</sup> day of April, 2025.

Read a Third Time in Open Council and Enacted and Passed on the 8<sup>th</sup> day of April, 2025.

\_\_\_\_\_  
Mayor Peter Chirico

\_\_\_\_\_  
City Clerk Karen McIsaac

**The Corporation of The City of North Bay**

**By-Law No. 2025-34  
Being a By-Law to Confirm Proceedings  
of the Regular Meeting of Council Held on  
April 8<sup>th</sup>, 2025**

Whereas the *Municipal Act, R.S.O. 2001*, Chapter 25, (the "Act") Section 5(1), provides that the powers of a municipal corporation shall be exercised by Council;

And Whereas Section 5 (3) of the Act provides a municipal power, including a municipality's capacity, rights, powers and privileges under section 9 of the Act, shall be exercised by by-law unless the municipality is specifically authorized to do otherwise and any of the matters shall be implemented by the exercise of the natural person powers;

And Whereas in many cases action which is taken or authorized to be taken by Council does not lend itself to the passage of an individual by-law;

Now Therefore, The Council of The Corporation of The City of North Bay Hereby Enacts As Follows:

1. That the actions of the Council of The Corporation of the City of North Bay at its Regular Meeting held on April 8<sup>th</sup>, 2025 in respect of each motion, resolution and other action passed and taken by the Council at is said Meeting, save and except any directions passed at the closed session, are hereby adopted, ratified and confirmed.
2. That where no individual by-law has been passed with respect to the taking of any action authorized in or by the Council mentioned in Section 1 hereof or with respect to the exercise of any powers of the Council, then this by-law shall be deemed for all purposes to the by-law required for approving and authorizing the taking of any action authorized therein or thereby required for the exercise of any powers therein by Council.
3. That the Mayor and the proper officers of The Corporation of the City of North Bay are hereby authorized and directed to do all things necessary to give effect to the said actions or to obtain approvals where required, and to execute all documents as may be necessary and directed to affix the corporate seal to all such documents as required.

Read a First Time in Open Council this 8<sup>th</sup> day of April, 2025.

Read a Second Time in Open Council this 8<sup>th</sup> day of April, 2025.

Read a Third Time in Open Council and Passed this 8<sup>th</sup> day of April, 2025.