



City of North Bay Report to Council

Report No: IO-2022-001

Date: February 22, 2022

Originator: Karin Pratte, P.Eng.

Business Unit:

Department:

Infrastructure and Operations

Environmental Services

Subject: 2021 North Bay Drinking Water System Annual Report, Summary Report and DWQMS Management Review

Closed Session: yes no

Recommendation

That North Bay City Council accepts for information the attached 2021 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System.

Background

In accordance with legislative requirements, attached is the Summary Report, Annual Report and Drinking Water Quality Management Standard (DWQMS) Management Review meeting minutes for the North Bay Drinking Water System for the year of 2021.

A brief description of the reports is below:

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, Larocque Standpipe, Cedar Heights PS).

Description of Monetary Expenses Incurred

The Annual Report lists major repair and replacements to the drinking water system in 2021. This includes equipment installed or replaced at the water plant and facilities along with watermain repair and replacements in the distribution system.

List of all Adverse Water Quality Incidents

There were 7 adverse water quality incidents for the North Bay drinking water system in 2021. 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 60-70 microbiological samples are taken monthly and testing for bacteria content (including e-coli). A summary of this testing is included in the Annual Report. All results listed meet 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 and Lead Testing Summary

Quarterly and annual sampling is required under the drinking water regulations. All results listed meet the Ontario Drinking Water Quality Standards.

Summary Report:

This report is a summary of water quality information for the North Bay Water Treatment System. 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 (2021) and compares it to the 5 years prior. The 2021 treated water volume delivered into the distribution system is up by 5% from 2020.

DWMQS Management Review Meeting Minutes:

It is a legislative requirement 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. Please find attached the meeting minutes from the management review for 2021.

Financial/Legal Implications

It is required under Ontario Regulation 170/03 of the Safe Drinking Water Act that a Summary and Annual Report be prepared for each calendar year and provide to the Ministry of Environment and Climate Change no later than February 28th of the following years. A copy of the report must also be provided to Council and will be posted on the City of North Bay website for public information.

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. It is a requirement of the DWQMS that a management review meeting be held annually and results be provided to Council.

Corporate Strategic Plan

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

Specific Objectives

Options Analysis

Option 1: That North Bay City Council accepts for information the attached 2021 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 for information the attached 2021 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System. This option is not recommended as it is a legislative requirement.

Recommended Option

That North Bay City Council accepts for information the attached 2021 Annual Report, Summary Report, and DWQMS Management Review for the North Bay Drinking Water System.

Respectfully submitted,

Name: Karin Pratte, P.Eng.

Title: Senior Environment & Facilities Engineer

I concur with this report and recommendation

Name Domenic Schiavone

Title: Director Public Works and Parks

Name David Euler, P.Eng., PMP

Title: Chief Administrative Officer

Personnel designated for continuance:

Karin Pratte, P.Eng.

Senior Environment & Facilities Engineer