

February 2022

Mayor Cheryl Fort and Council
The Corporation of the Township of Hornepayne
P.O. Box 370
Hornepayne, Ontario
P0M 1Z0

Re: 2021 Annual Summary Report for the Hornepayne Drinking-Water System

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

The annual summary must cover the period of January 1st to December 31st in a year and must *be prepared not later than March 31st* of the following year. Pursuant to the legislative requirements, enclosed for your records is the 2021 Annual Summary for the Hornepayne Drinking-Water System.

Pursuant to the legislative requirements, *Schedule 22 Summary Reports for Municipalities*, the annual summary must:

- (a) (list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and,
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure."

- O. Reg. 170/03 s. 22 (2)

"The report must also include the following information for the purpose of enabling the owner of the system to assess the rated capability of their system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement."

- O. Reg. 170/03 s. 22 (3)

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

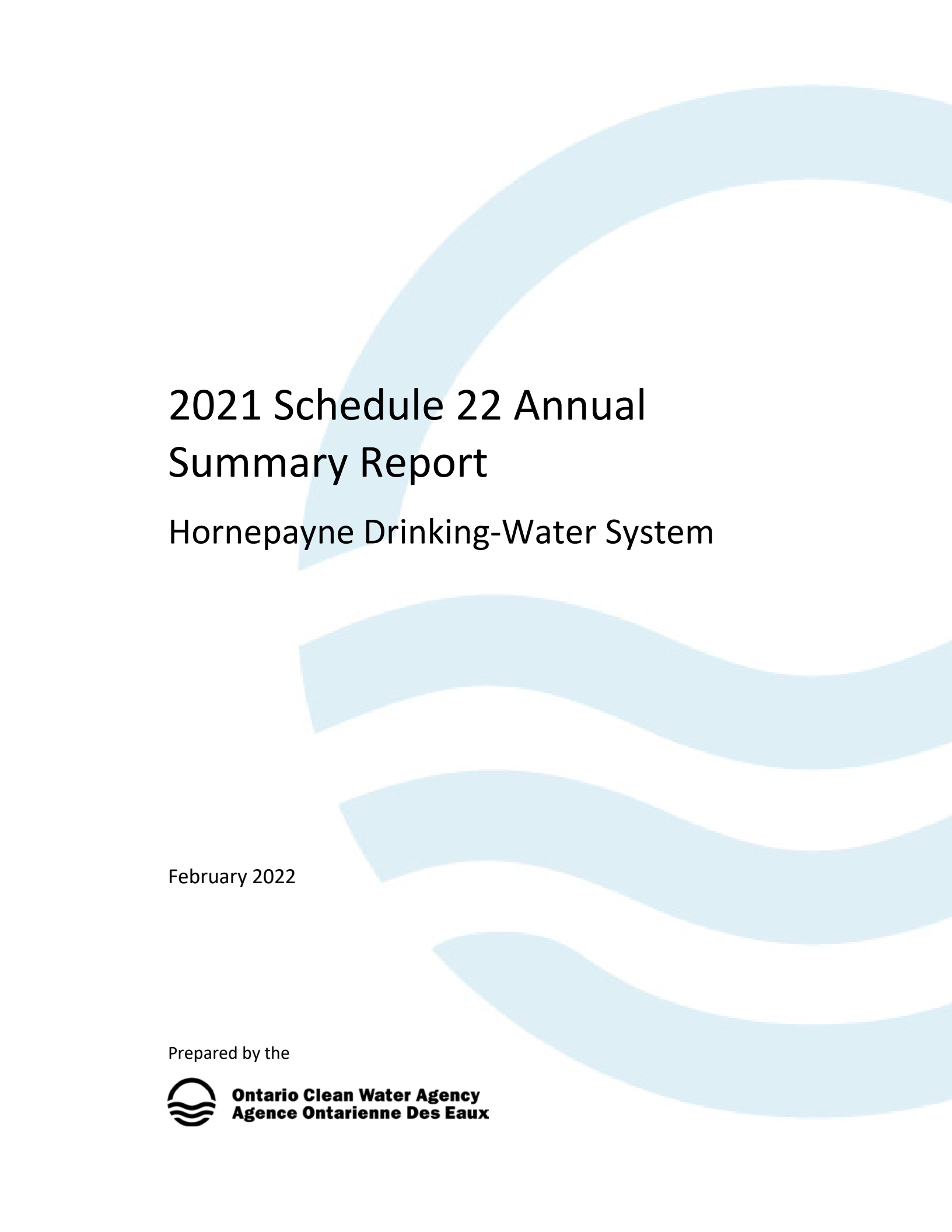
This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Hornepayne and is based on information kept on record by OCWA at the Hornepayne WTP. The report covers the period January 1st through to December 31st 2021.

Yours truly,

Patrick Couture

Patrick Couture
Senior Operations Manager
Northwestern Ontario Regional Hub
807-228-2617

Copy to: Gail Jaremy – CAO/Clerk
Duane Gaudreau – Public Works Manager
Operations Staff – Hornepayne WTP



2021 Schedule 22 Annual Summary Report

Hornepayne Drinking-Water System

February 2022

Prepared by the



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Table of Contents

Section 1: Introduction	2
Section 2: What Does This Report Contain?	2
Section 3: Daily Flow Rates	3
Section 4: System Failures and Corrections	5
Section 5: Conclusion	5

Section 1: Introduction

This report is a summary of water quality information for the Hornepayne Drinking-Water System, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1st to December 31st 2021. The Hornepayne Water Treatment Facility is categorized as a Large Municipal Residential Drinking Water System.

This report is prepared by The Ontario Clean Water Agency on behalf of the Corporation of the Township of Hornepayne. A copy of the Summary Report is to be provided to the members of the municipal council by March 31st 2022.

Section 2: What Does This Report Contain?

"The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and,
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure."

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-O. Reg. 170/03 s. 22 (3)

Section 3: Daily Flow Rates

In accordance with the ***Municipal Drinking Water Licence 226-101 Schedule C: System – Specific Conditions 1.0 Performance Limits***, the Hornepayne drinking water system shall not be operated to exceed the rated capacity for maximum flow rate from the treatment subsystem to the distribution system of **1800 m³ / day**.

The drinking-water system may be operated temporarily at a rate above the rated capacity set where necessary for:

- i) fighting a large fire; or
- ii) the maintenance of the drinking-water system

In 2021, the average monthly raw flow rate was 17628.65m³; the average raw daily flow rate was 580.07m³, with a maximum raw daily flow rate of 1103.20m³.

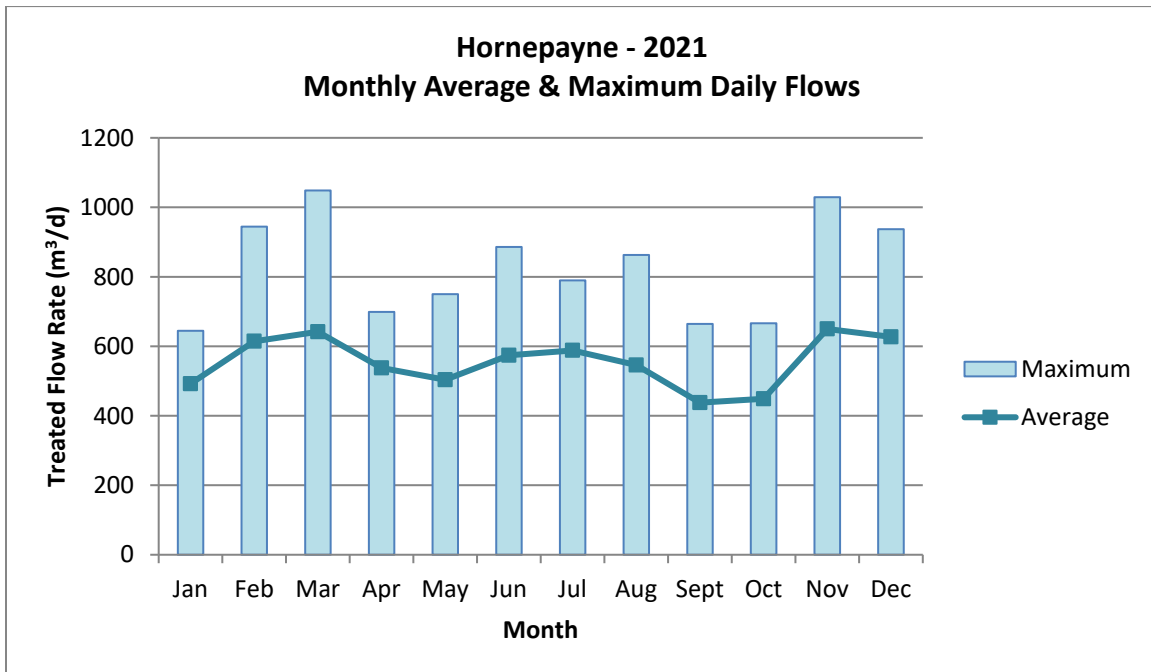
In 2021, the average monthly treated flow rate was 16822.43m³; the average daily treated flow was 555.07m³ and the maximum daily treated flow for the year was 1048.40m³; this represents 58.24% of the allowable daily volume.

A summary of raw and treated flows, including maximum raw flow into the treatment system as well as treated average, maximum and total flow rates are included in the tables below.

The quantity of raw water supplied during the reporting period did not exceed the terms and conditions of the *Permit to Take Water* nor did the treated flows directed to the treatment system exceed the rated capacity for this system.

Monthly Raw & Treated Flow Rates for 2021

Month	Average Daily Raw Flow Rate (m ³ /d)	Maximum Daily Raw Flow Rate (m ³ /d)	Average Daily Treated Flow Rate (m ³ /d)	Maximum Daily Treated Flow Rate (m ³ /d)	Total Monthly Treated Flow Rate (m ³ /month)
January	522.92	689.70	491.96	644.40	15250.90
February	648.61	982.70	614.29	944.20	17200.20
March	672.96	1103.20	641.73	1048.40	19893.70
April	561.67	707.70	537.74	699.10	16132.30
May	524.40	775.40	503.65	750.30	15613.30
June	600.03	918.70	573.96	885.90	16644.90
July	607.30	809.60	588.13	789.50	18232.00
August	570.43	891.40	545.95	863.10	16924.60
September	456.41	673.00	437.82	664.60	13134.60
October	467.61	708.60	448.75	666.20	13911.20
November	678.39	1075.80	649.86	1029.10	19495.90
December	650.14	968.20	626.95	937.20	19435.60
2021 Total Treated Flows (m ³)				201,869.20	



Section 4: System Failures and Correction

The Ministry of the Environment conducted an announced inspection of the Hornepayne Drinking-Water System on September 22, 2021. The final report was not issued at the time the report was written.

Item	Non-Compliance Identified	Compliance Date	Action Being Taken to Address item	Status
N/A	N/A	N/A	N/A	N/A

Section 5: Conclusion

In the reporting year of 2021, there were two adverse water quality incident (AWQI) reports filed as summarized below.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
16-Apr-21	HAA Exceedance	81.5	ug/L	Nothing prescribed	16-Apr-21
4-Oct-2021	HAA Exceedance	81.8	ug/L		4-Oct-2021

For the operating year of 2021, the Hornepayne Drinking-Water System was able to meet the demand of water use within the town without exceeding the Municipal Drinking Water Licence and Permit to Take Water.