



901 Main Street  
P.O. Box 728  
Geraldton, Ontario. P0T 1M0  
Fax: 807-854-0483

February 2021

Mayor John MacEachern and Council  
The Corporation of the Township of Manitouwadge  
1 Mississauga Drive  
Manitouwadge, Ontario  
P0T 2C0

**Re: 2020 Annual Summary Report for the Manitouwadge 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 1<sup>st</sup> to December 31<sup>st</sup> in a year and must *be prepared not later than March 31<sup>st</sup>* of the following year. Pursuant to the legislative requirements, enclosed for your records is the 2020 Annual Summary for the Manitouwadge 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
- (c) 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 reports should be made available at the office of the municipality, or at a location that is accessible to the users of the water system.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Manitouwadge and is based on information kept on record by the Township at the Manitouwadge Drinking-Water System. The report covers the period January 1<sup>st</sup> through to December 31<sup>st</sup> 2020.

Yours truly,

*Patrick Albert*

Patrick Albert  
Senior Operations Manager  
Northwestern Ontario Regional Hub

Copy to: Owen Cranney – Acting CAO  
Terry Bangs - Public Works Superintendent  
Operations Staff –Manitouwadge WS

# 2020 Schedule 22 Annual Summary Report

## Manitouwadge Drinking-Water System

February 2021

Prepared by the



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## *Table of Contents*

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

## ***Section 1: Introduction***

---

This report is a summary of water quality information for the Manitouwadge 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 2020. The Manitouwadge Drinking-Water System 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 Manitouwadge. A copy of the Summary Report was to be provided to the members of the municipal council by March 31st 2021.

## ***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."

- 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)

### Section 3: Daily Flow Rates

---

In accordance with the *Municipal Drinking Water Licence 229-101 Schedule C: System – Specific Conditions 1.0 Performance Limits*, the Manitouwadge 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 **10472 m<sup>3</sup> / day**.

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

- (i) the purposes of fighting a large fire or,
  
- (ii) the maintenance of the drinking-water system

In 2020, the average monthly raw flow rate was 34099.93m<sup>3</sup>; the average raw daily flow rate was 1096.64m<sup>3</sup>, with a maximum raw daily flow rate of 1828m<sup>3</sup>.

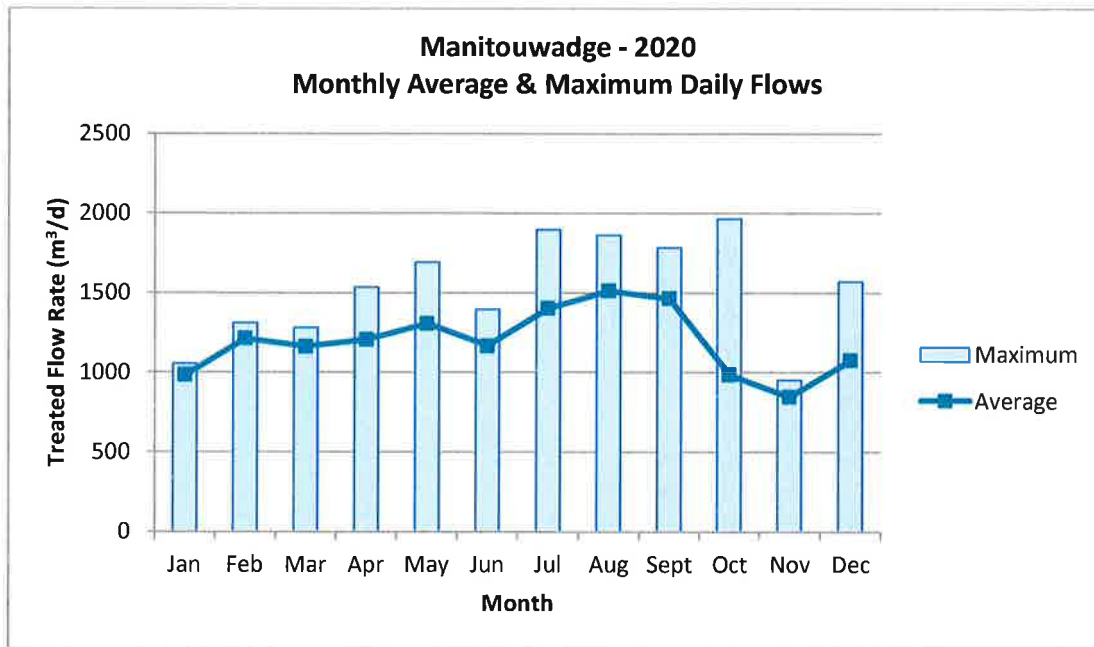
In 2020, the average monthly treated flow rate was 33828.72m<sup>3</sup>; the average daily treated flow was 1109.85m<sup>3</sup> and the maximum daily treated flow for the year was 1728.90 m<sup>3</sup>; this represents 16.51 % of the allowable daily volume.

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 distribution system exceed the rated capacity for this system.

### Monthly Raw & Treated Flow Rates for 2020

Month	Average Daily Raw Flow Rate (m <sup>3</sup> /d)	Maximum Daily Raw Flow Rate (m <sup>3</sup> /d)	Average Daily Treated Flow Rate (m <sup>3</sup> /d)	Maximum Daily Treated Flow Rate (m <sup>3</sup> /d)	Total Monthly Treated Flow Rate (m <sup>3</sup> /month)
January	865.84	1187.1	1008.53	1141.70	31264.50
February	1014.53	1237	1010.84	1231.10	29314.40
March	1024.74	1146.6	1027.79	1074.10	31861.60
April	1096.62	1248.3	1100.92	1253.40	33027.50
May	1244.53	1405.2	1247.51	1359.10	38672.80
June	1218.97	1294.4	1220.41	1310.60	36612.30
July	1003.55	1175.8	1005.69	1202.80	31176.40
August	920.55	1117.9	921.85	1048.30	28577.40
September	1184.38	1628.4	1184.47	1533.60	35534.00
October	1195.38	1418.7	1195.54	1391.40	37061.80
November	1397.58	1828	1391.01	1728.90	41730.20
December	1004.25	1633.9	1003.61	1634.80	31111.80
2020 Total Treated Flows (m <sup>3</sup> )				<b>405944.70</b>	



## Section 4: System Failures and Correction

The Ministry of Environment conducted an *announced* inspection of the Manitowadge Drinking Water System on December 2, 2020. The final inspection report was issued on February 2, 2021. There were three non-compliance items identified in the inspection report.

The final inspection rating record for the Manitowadge Drinking Water System was 93.20%.

Item	Non-Compliance Identified	Compliance Date	Action Being Taken to Address item	Status
1	<p><b>The operations and maintenance manuals did not meet the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.</b></p> <p>The Operations and Maintenance Manual was reviewed with the operator at the time of the inspection. The operations and maintenance manual(s) did not fulfill the requirements of Section 16.0 of the Municipal Drinking Water License.</p> <p><b>Action(s) Required:</b></p> <p>The Operations and Maintenance manual must meet the requirements prescribed in Section 16 of the Municipal Drinking Water License. By no later than March 5, 2021, the Owner/Operator shall provide confirmation to the undersigned officer that the Operations and Maintenance manual meets the requirements of the Municipal Drinking Water License.</p>	March 5 2021	Update the Operations Manual to include items identified by the inspector.	In Progress
2	<p><b>All specified corrective actions (as per Schedule 17) were not taken to address adverse conditions.</b></p> <p>Corrective actions were not followed in accordance with Schedule 17 of Ontario Reg 170/03.</p> <p><b>Action(s) Required:</b></p> <p>The Operator must ensure that the correction action requirements prescribed by Schedule 17 of Ontario Regulation 170/03 are adhered to. By no later than February 26, 2021 the Operator must provide documentation to the undersigned officer demonstrating that the operators have been provided training on the correction action requirements prescribed in Ontario Regulation 170/03. On January 26, 2021 the operator provided documentation confirming that the Standard Operating Procedure has been update and that the operators have received proper training pertaining to the SOP. No further actions are required.</p>	N/A	Operator followed MOH direction but did not also complete corrective action as specified by the regulation. Provided training to the operators in the procedure for AWQI response highlighting the corrective action section of the procedure. Training records sent to the inspector with a copy of the procedure.	Completed
3	<p><b>The following instance(s) of non-compliance were also noted during the inspection:</b></p> <p>The UV reactors were replaced since the time of the previous inspection. In correspondence between MECP staff and OCWA staff it was</p>	N/A	Manager who oversaw project no longer with OCWA and the documentation submitted is unknown. An email from approvals stated the	Completed



confirmed that Form 2 documentation was not required. However, MECP asked that the specifications for the new treatment units be sent to the MECP Permissions and Approvals office in order to confirm the specifications similar to the units being replaced.

**Action(s) Required:**

By no later than February 26, 2021, the Owner/Operator must provide documentation confirming that the specifications of the new UV reactors are comparable to the equipment that was replaced. On January 26, 2021 the Operator provided the specifications of the new UV treatment units. This documentation was sent to the undersigned officer and the MECP Environmental Permissions Branch. No further actions required.

replacement could be done on a form 2. On January 26, 2021 the Operator provided the specifications of the new UV treatment units. This documentation was sent to the undersigned officer and the MECP Environmental Permissions Branch.

## Section 5: Conclusion

---

In the reporting year of 2020, 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
03-Feb-20	Other Observations - Received adverse test result of sodium sample. Treated sample result was 39.3 mg/L, exceeding limits	39.3	mg/L	The township notified the public; Resampled on Feb 13, result 42.2 mg/L (exceeding Limit of 20mg/L)	14-Feb-20
01-Sep-20	Bacteriological - TC detected in a distribution sample	Detect		Flush and Resample	08-Sep-20

For the operating year of 2020, the Manitowadge Drinking Water System was able to meet the demand of water use within the town without exceeding the Municipal Drinking Water License and Permit to Take Water.