

2018 Schedule 22 Annual Summary Report

Manitouwadge Drinking-Water System

February 2019

Prepared by the



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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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 2018. 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 2019.

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 Manitowadge 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 m³ / 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 2018, the average monthly raw flow rate was 35896.83 m³; the average raw daily flow rate was 1183.41 m³, with a maximum raw daily flow rate of 2006.13 m³.

In 2018, the average monthly treated flow rate was 36064.52 m³; the average daily treated flow was 1187.14 m³ and the maximum daily treated flow for the year was 2000.00 m³; this represents 19.10 % 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.

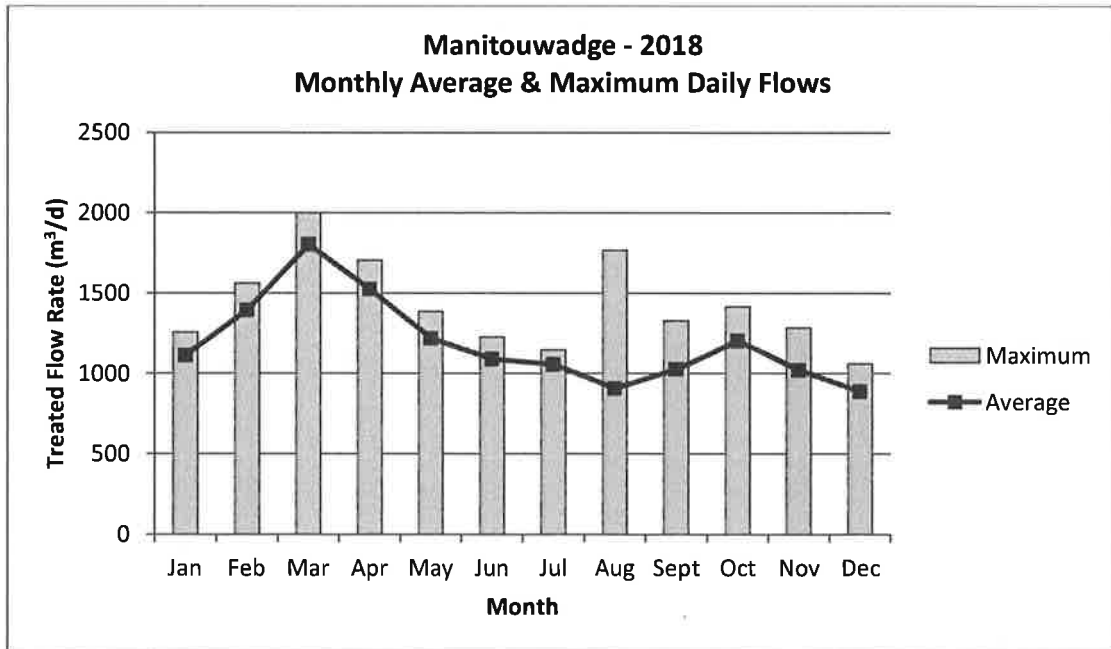
The quantity of raw water supplied during the reporting period did not exceed the terms and conditions of the *Permit to Take Water* nor did the treated flows directed to the distribution system exceed the rated capacity for this system.

Monthly Raw & Treated Flow Rates for 2018

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	1105.17	1268.44	1113.42	1256.20	34515.90
February	1391.62	1560.78	1393.63	1562.00	39021.58
March	1806.43	2006.13	1803.25	2000.00	55900.90
April	152.00	1776.10	1525.07	1705.00	45752.00
May	1222.98	1412.60	1219.26	1386.50	37797.20
June	1089.07	1250.30	1089.50	1226.50	32685.00
July	1072.36	1341.50	1055.57	1145.90	32722.70
August	912.42	1839.10	907.54	1766.00	28133.60
September	965.93	1349.50	1026.34	1328.40	30790.10
October	1216.15	1806.50	1203.40	1415.60	37305.30
November	1021.05	1272.30	1021.14	1285.50	30634.10
December	884.36	1042.80	887.61	1059.50	27515.90
2018 Total Treated Flows (m ³)					432774.28

*Cubic meter
Convert (432774.28) to
megalitres*

*1845 in the Ministry of
Municipal Affairs
megalitres 432.77*



Section 4: System Failures and Correction

The Ministry of Environment conducted an *announced* inspection of the Manitowadge Drinking Water System on September 06, 2018. There were no non-compliance items identified in the inspection report.

The final inspection rating record for the Manitowadge Drinking Water System was 100%.

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 2018, there were four adverse water quality incident (AWQI) reports filed as summarized below.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
03-Jul-2018	Other Observation – While replacing bonnet on isolation valve, unable to isolate area. Shut down water to entire Township.	-	-	Resample and test, restore disinfection, flush and issue Boil Water Advisory.	06-Jul-2018
15-Sep-2018	Other Observation – Loss of data when PLC failed.	-	-	Third party reloaded lost PLC programming due to power pump (Automation Now). System now backed up for future power loses.	19-Sep-2018
16-Sep-2018	Other Observation – Loss of Pressure. Generator failed during power outage.	-	-	Two sets of bacteriological samples taken 24 hours apart.	19-Sep-2018
25-Dec-2018	Other Observation – Water main break on Ohsweken Road near 50 Ohsweken Road. Public works department isolated break causing loss of water service to two (2) residences (2&4 Redwing) and two (2) churches at 3 Shawinigan PI and 50 Ohsweken Road.	-	-	Repair done on Jan 14, 2019. Restored flow and flushed main from closest hydrant until chlorine residual of 1.27 mg/L was present. Collect two sets of bacteriological samples 24 hours apart. First set Jan 15, second set Jan 16.	18-Jan-2018

For the operating year of 2018, the Manitouwadge 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.



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February 19, 2019

Mayor John MacEachern and Council
The Corporation of the Township of Manitouwadge
1 Mississauga Drive
Manitouwadge, Ontario
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Re: 2018 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 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 2018 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.
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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 1st through to December 31st 2018.

Yours truly,

A handwritten signature in black ink, appearing to read 'B. McMahon', with a stylized flourish at the end.

Bradley McMahon
Senior Operations Manager
Northwestern Ontario Regional Hub

Copy to: Margaret Hartling - CAO/Clerk-Treasurer
Randy Barnes - Public Works Superintendent
Operations Staff –Manitouwadge WS