

Woods of Manilla Drinking Water System

2025 Annual Water Report

Drinking Water System Number: 210002218

Drinking Water System Operating Authority: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Reporting Period: January 1st – December 31st, 2025

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2025 Annual Drinking Water System Summary Report

General Information

The City of Kawartha Lakes prepares a report summarizing system operation and water quality for every municipal drinking water system annually. This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office by appointment and the [City's website](#). Notification that the reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 322 Kent Street West in Lindsay, Ontario.

This system does not serve more than 10,000 residences.

Drinking Water System Number: 210002218

Drinking Water System Name: Woods of Manilla Drinking Water System

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Reporting Period: January 1, 2025 – December 31, 2025

Compliance Summary

Table 1. Drinking Water Compliance Summary

	Number of Events	Date (yyyy/mm/dd)	Details
Ministry (MECP) Inspections	1	2025 08 13	Announced – Focused Drinking Water Inspection – Final Inspection Rating – 100%
Adverse Water Quality Incidents (AWQIs)	1	2025 03 29	Adverse was reported during an Ice Storm, residents had reported no water. Incident was reported prior to operator arriving on-site. Once operator arrived on site, it was determined there was

	Number of Events	Date (yyyy/mm/dd)	Details
			no loss of pressure for longer than 15 minutes, and therefore was not an adverse condition. This was later confirmed not to be an adverse and reported as such back to SAC.
Non-Compliances	0		
Boil Water Advisories	0		

Drinking Water System Description

The Woods of Manilla drinking water system is a small municipal residential drinking water system serving the Woods of Manilla subdivision in the Village of Manilla, Ontario, within the City of Kawartha Lakes. The drinking water system is classified as a Limited Groundwater subsystem in accordance with O. Reg. 128/04.

The drinking water system originally consisted of two water treatment facilities; with Manilla II operating as the duty plant and Manilla I designated as the standby plant. Manilla remained offline and disconnected from the system throughout the reporting period. In 2025, Manilla I was decommissioned and demolished. The Drinking Water Works Permit (DWWP) and Municipal Drinking Water Licence (MDWL) are currently being amended to reflect these changes.

Source Water

The water supply for the system is obtained from groundwater sources. Well #2A serves as the duty production well supplying Woods of Manilla Water Treatment Plant II. Well #1 previously supplied water to Woods of Manilla Water Treatment Plant I prior to its decommissioning. Well #3 has been drilled and is currently undergoing the approvals process to be connected to Woods of Manilla Water Treatment Plant II as an alternate source. The wells are designated as non-GUDI, meaning they are not considered groundwater under the direct influence of surface water.

Water Treatment Facility

The Woods of Manilla II Water Treatment Plant consists of a sodium hypochlorite system providing primary disinfection, a deep in-ground clearwell, a hydorpneumatic pressure tank, a high lift pumping and piping system, and associated monitoring equipment. Sodium hypochlorite is used to achieve primary disinfection, and the in-ground clearwell provides the required chlorine contact time as well as treated water storage prior to distribution.

A propane generator is located onsite at Woods of Manilla II to provide standby power to the water treatment facility in the event of a power failure.

Distribution System

The distribution system consists of approximately 1.9 kilometres of PVC watermain, four flushing hydrants, and two sampling taps. The system does not include treated water storage facilities, chlorine boosting stations, secondary disinfection processes, or pressure boosting capabilities within the control of the distribution system. The Woods of Manilla Distribution System is not rated for fire protection.

Table 2. Treatment Chemicals Used

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	LAVO

Summary of Non-Compliance

Adverse Water Quality Incidents

Table 3. Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
2025 03 29	167631	Distribution System	Loss of Pressure	During Ice Storm Operator received pressure alarm, and a call from a resident with no water. Prior to attending site reported as a low-pressure event. When arrived on site, determined	O. Reg. 170/03	No corrective actions required, as determined not a true adverse.

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
				there was no loss of pressure.		

Non-Compliance

There were no non-compliances reported during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during this period.

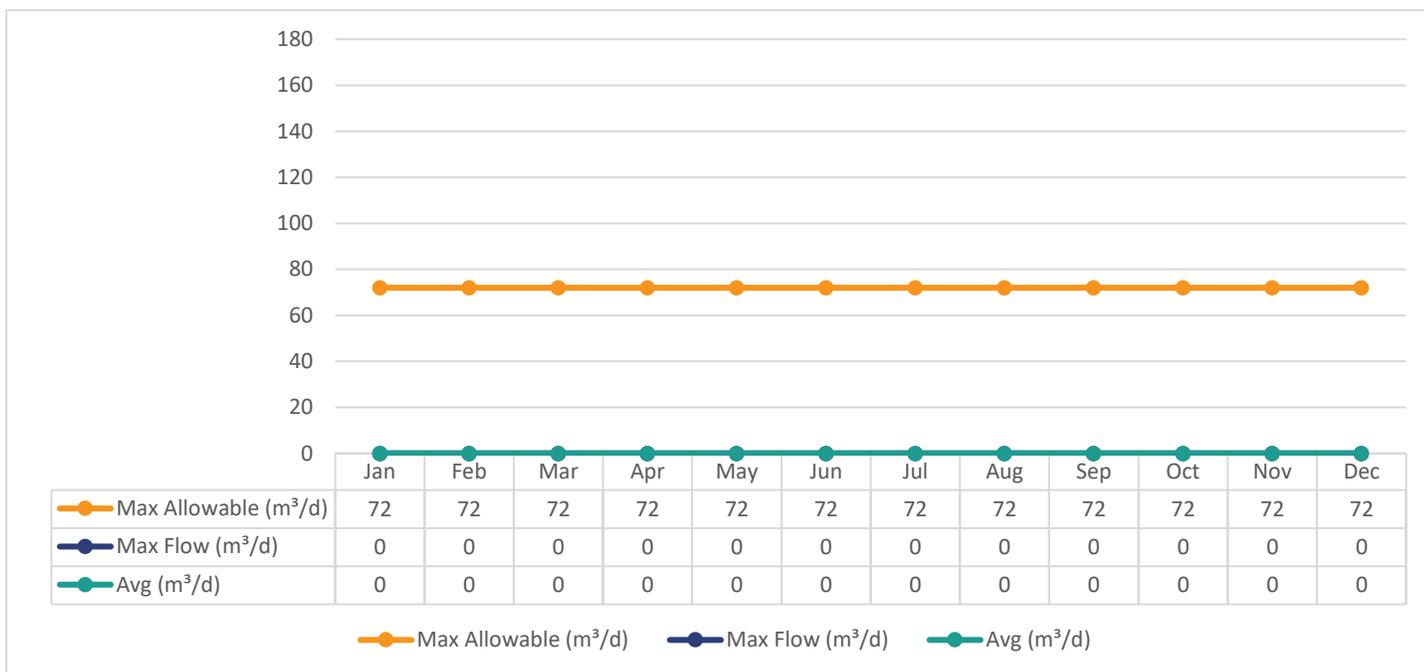
Flows

The Woods of Manilla Drinking Water System is operating on average under half the rated capacity. The rated capacity of the Woods of Manilla II system (treated water flows) is 157 m³/day.

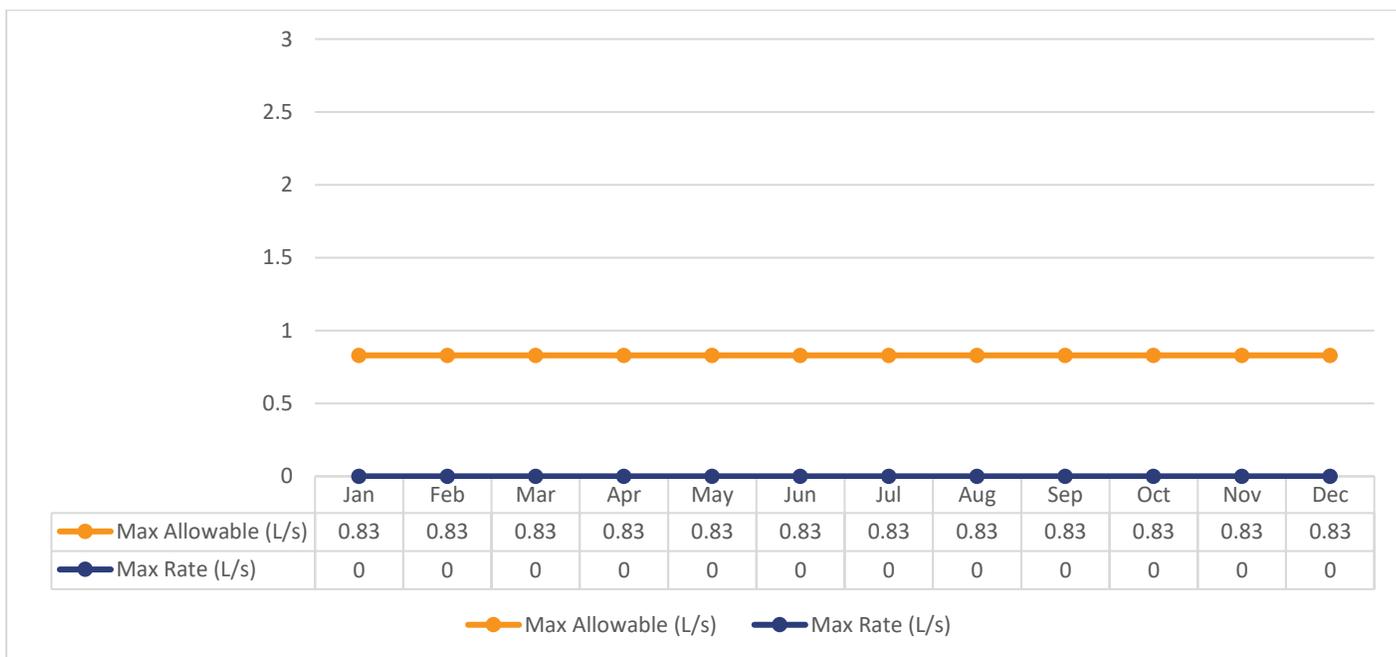
Raw Water Flows

The raw water flows are regulated under the Permit to Take Water. Raw flow data for 2025 was submitted to the Ministry of Environment, Conservation and Parks (MECP) electronically under permit #2660-C7KSBJ. The confirmation of the data that was submitted is attached in Appendix A.

Graph 1. Total Monthly Flows (m³/d) – Well #1 (Max Allowable PTTW)

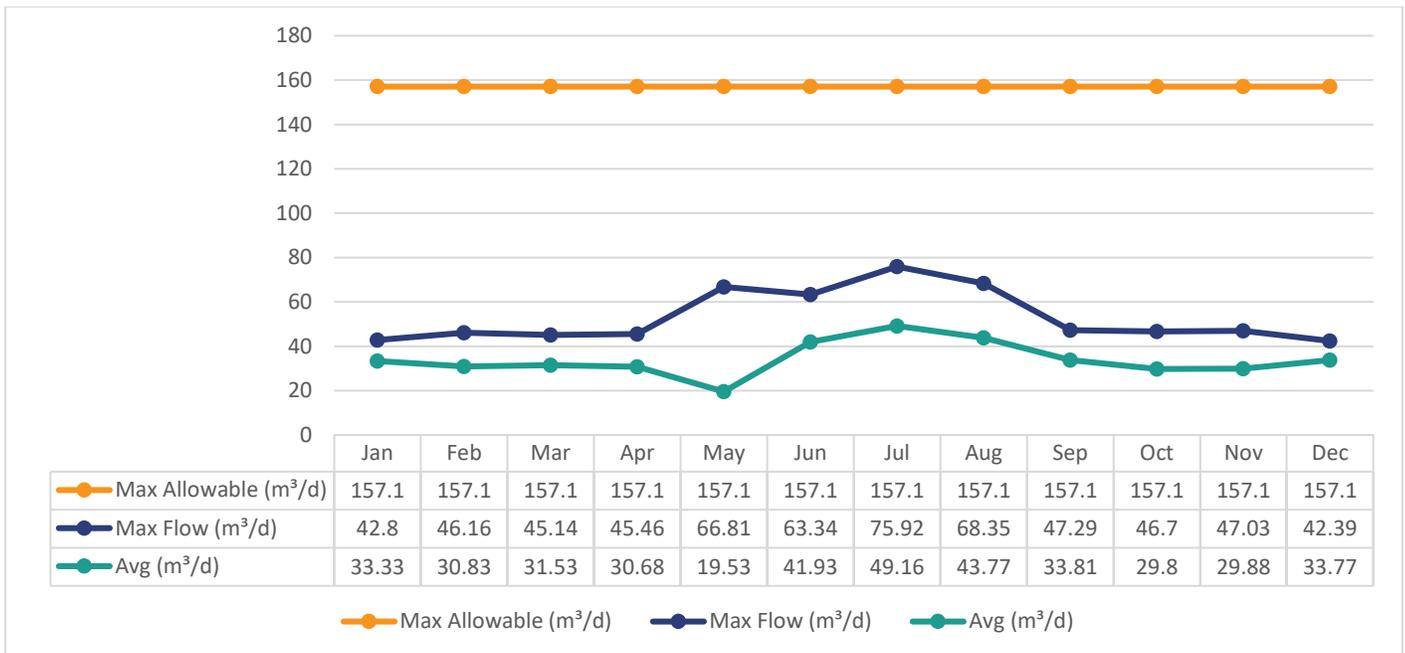


Graph 2. Monthly Rated Flows (L/s) – Well #1 (Max Allowable Rate PTTW)

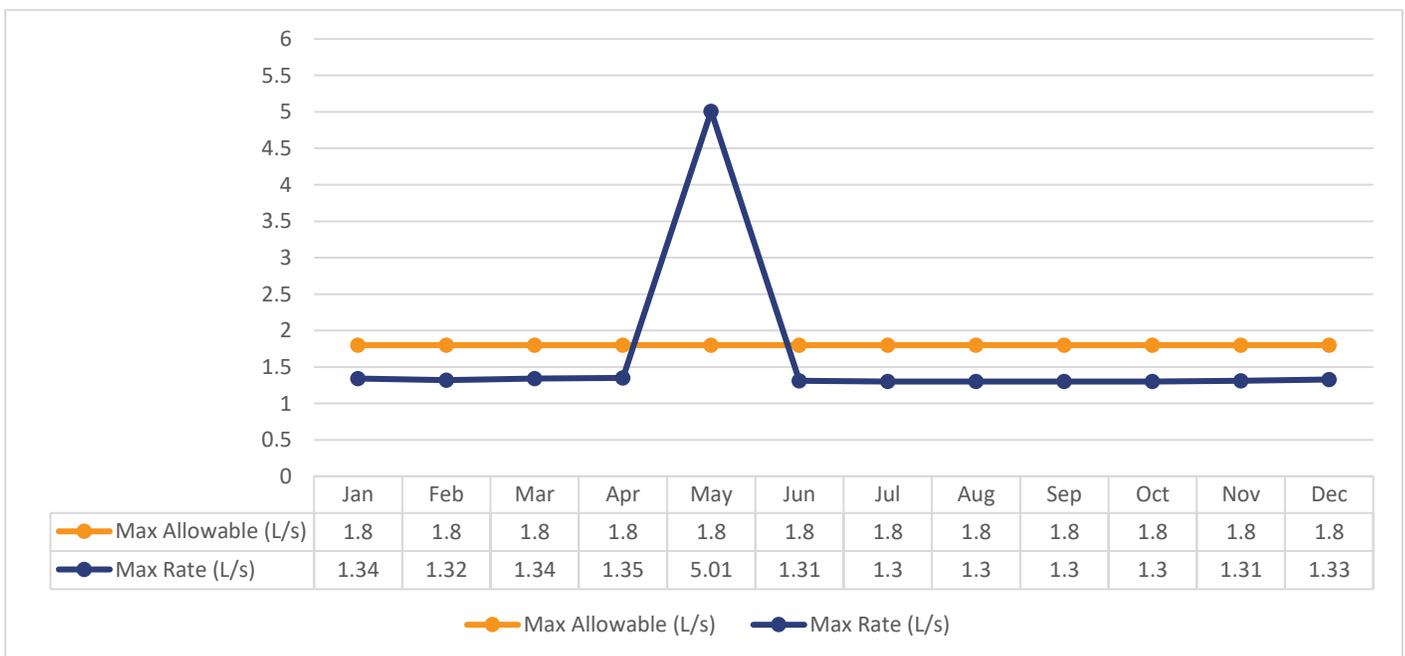


Note: Well #1 was offline during the reporting period.

Graph 3. Total Monthly Flows (m³/d) – Well #2A (Max Allowable PTTW)



Graph 4. Monthly Rated Flows (L/s) – Well #2A (Max Allowable Rate)

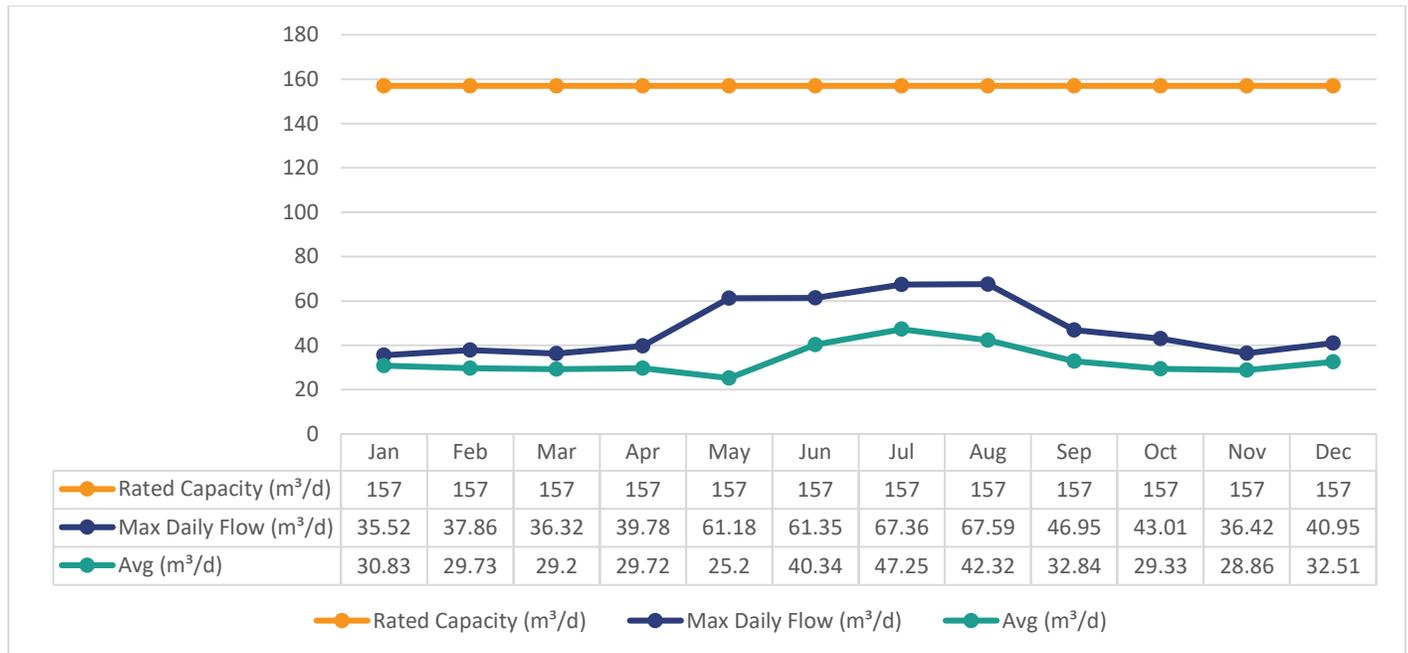


Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) but these exceedances were short in duration. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. The significant spike in May was due to scheduled flow meter calibration. All spikes are reviewed for compliance with O. Reg. 170/03.

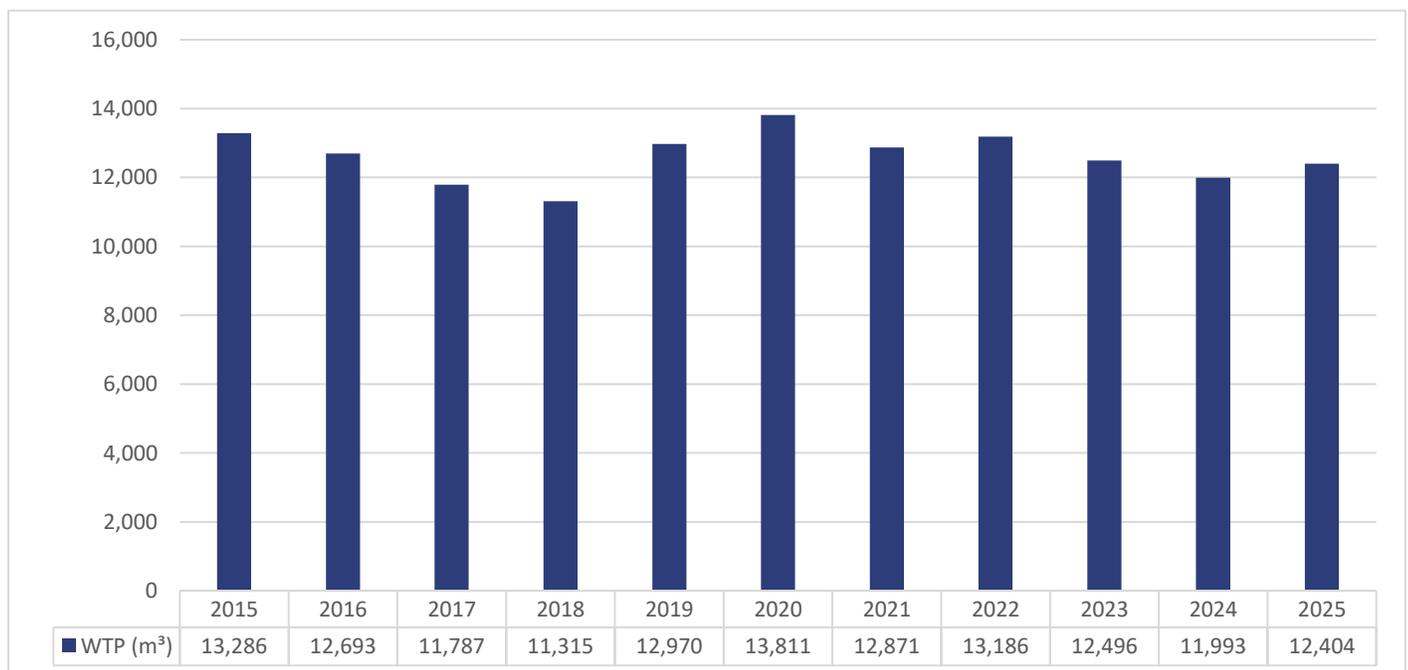
Treated Water Flows

The Treated Water flows are regulated under the Municipal Drinking Water Licence 141-106. Information only provided for Woods of Manilla II during the reporting period.

Graph 5. Monthly Rated Flows (m³/d) – Rated Capacity - MDWL



Graph 6. Annual Total Flow Comparison (m³)



Regulatory Sample Results Summary

Microbiological Testing

Table 4. Microbiological Test Results

	No. of Samples Collected	Range of E. Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Well 1	0						
Raw Well 2A	53	0	0	0	34	N/A	N/A
Treated	52	0	0	0	0	0	30
Distribution	56	0	0	0	0	0	1

HPC = Heterotrophic Plate Count

Note: Raw Well 1 was offline during the reporting period.

Operational Testing

Table 5. Operational Test Results

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	0		
Turbidity Well 2A (NTU)	12	0.23	2.18
Chlorine	8760	0	5.01
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Record the unit of measurement if it is **not** milligrams per litre.

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by online instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Note: Well 1 was offline during the reporting period.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrate are tested quarterly and the metals are tested every five years as required under O. Reg. 170/03. In the event any of the parameters listed in Schedule 23 or 24 of O. Reg. 170/03 exceed half of the maximum allowable concentration the parameter is required to be samples quarterly. Based on the latest test results no additional testing is required.

Table 6. Inorganic Parameters Test Results

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
Treated Water					
Antimony	2025 01 06	<MDL 0.06	µg/L	6.0	No
Arsenic	2025 01 06	<MDL 0.2	µg/L	10.0	No
Barium	2025 01 06	204	µg/L	1000.0	No
Boron	2025 01 06	42.0	µg/L	5000.0	No
Cadmium	2025 01 06	<MDL 0.003	µg/L	5.0	No
Chromium	2025 01 06	0.15	µg/L	50.0	No
Mercury	2025 01 06	<MDL 0.01	µg/L	1.0	No
Selenium	2025 01 06	0.09	µg/L	50.0	No
Uranium	2025 01 06	0.021	µg/L	20.0	No
Additional Organics					
Fluoride	2025 01 06	0.31	mg/L	1.5	No
Nitrite	2025 01 20	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 04 07	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 07 07	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 10 06	<MDL 0.003	mg/L	1.0	No
Nitrate	2025 01 20	0.016	mg/L	10.0	No
Nitrate	2025 04 07	0.018	mg/L	10.0	No
Nitrate	2025 07 07	0.016	mg/L	10.0	No
Nitrate	2025 10 06	0.017	mg/L	10.0	No
Sodium	2025 01 06	18.1	mg/L	20*	No

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

MDL = Method Detection Limit

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. Sodium results exceeding 20 mg/L are to be reported to the Medical Officer of Health as per Schedule 16-3 (8) of O. Reg. 170/03.

Schedule 15 Sampling (Lead)

The Schedule 15 sampling is required under O. Reg. 170/03. This system is under reduced sampling. Only distribution samples were collected, and no plumbing samples were collected.

Table 7. Schedule 15 Test Results (Lead)

	Number of Sampling Points	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC (µg/L)	Number of Exceedances
Alkalinity (mg/L)	1	2	166	180	N/A	N/A
pH	1	2	7.81	7.98	N/A	N/A
Lead (µg/L)	0	0	N/A	N/A	N/A	N/A

Organic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. In the event any of the parameters listed in Schedule 23 or 24 of O. Reg. 170/03 exceed half of the maximum allowable concentration the parameter is required to be samples quarterly. Based on the latest test results no additional testing is required.

Table 8. Organic Parameters Test Results

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
Treated Water					
Alachlor	2025 01 06	<MDL 0.02	µg/L	5.0	No
Atrazine + N-dealkylated metabolites	2025 01 06	<MDL 0.01	µg/L	5.0	No
Azinphos-methyl	2025 01 06	<MDL 0.05	µg/L	20.0	No
Benzene	2025 01 06	<MDL 0.32	µg/L	1.0	No
Benzo(a)pyrene	2025 01 06	<MDL 0.004	µg/L	0.01	No
Bromoxynil	2025 01 06	<MDL 0.33	µg/L	5.0	No
Carbaryl	2025 01 06	<MDL 0.05	µg/L	90.0	No
Carbofuran	2025 01 06	<MDL 0.01	µg/L	90.0	No
Carbon Tetrachloride	2025 01 06	<MDL 0.17	µg/L	2.0	No
Chlorpyrifos	2025 01 06	<MDL 0.02	µg/L	90.0	No
Diazinon	2025 01 06	<MDL 0.02	µg/L	20.0	No
Dicamba	2025 01 06	<MDL 0.20	µg/L	120.0	No

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
1,2-Dichlorobenzene	2025 01 06	<MDL 0.41	µg/L	200.0	No
1,4-Dichlorobenzene	2025 01 06	<MDL 0.36	µg/L	5.0	No
1,2-Dichloroethane	2025 01 06	<MDL 0.33	µg/L	5.0	No
1,1-Dichloroethylene	2025 01 06	<MDL 0.35	µg/L	14.0	No
Dichloromethane (Methylene Chloride)	2025 01 06	<MDL 0.35	µg/L	50.0	No
2,4-Dichlorophenol	2025 01 06	<MDL 0.15	µg/L	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2025 01 06	<MDL 0.19	µg/L	100.0	No
Diclofop-methyl	2025 01 06	<MDL 0.40	µg/L	9.0	No
Dimethoate	2025 01 06	<MDL 0.06	µg/L	20.0	No
Diquat	2025 01 06	<MDL 1.0	µg/L	70.0	No
Diuron	2025 01 06	<MDL 0.03	µg/L	150.0	No
Glyphosate	2025 01 06	<MDL 1.0	µg/L	280.0	No
Malathion	2025 01 06	<MDL 0.02	µg/L	190.0	No
2-Methyl-4 chlorophenoxyacetic Acid (MCPA)	2025 01 06	<MDL 0.00012	mg/L	0.1	No
Metolachlor	2025 01 06	<MDL 0.01	µg/L	50.0	No
Metribuzin	2025 01 06	<MDL 0.02	µg/L	80.0	No
Monochlorobenzene (Chlorobenzene)	2025 01 06	<MDL 0.3	µg/L	80.0	No
Paraquat	2025 01 06	<MDL 1.0	µg/L	10.0	No
PCB	2025 01 06	<MDL 0.04	µg/L	3.0	No
Pentachlorophenol	2025 01 06	<MDL 0.15	µg/L	60.0	No
Phorate	2025 01 06	<MDL 0.01	µg/L	2.0	No
Picloram	2025 01 06	<MDL 1.0	µg/L	190.0	No
Prometryne	2025 01 06	<MDL 0.03	µg/L	1.0	No
Simazine	2025 01 06	<MDL 0.01	µg/L	10.0	No
Terbufos	2025 01 06	<MDL 0.01	µg/L	1.0	No
Tetrachloroethylene	2025 01 06	<MDL 0.35	µg/L	10.0	No
2,3,4,6- Tetrachlorophenol	2025 01 06	<MDL 0.20	µg/L	100.0	No
Triallate	2025 01 06	<MDL 0.01	µg/L	230.0	No
Trichloroethylene	2025 01 06	<MDL 0.44	µg/L	5.0	No
2,4,6-Trichlorophenol	2025 01 06	<MDL 0.25	µg/L	5.0	No
Trifluralin	2025 01 06	<MDL 0.02	µg/L	45.0	No
Vinyl Chloride	2025 01 06	<MDL 0.17	µg/L	1.0	No
Distribution Water					
Trihalomethane Total Annual Average Q1	2025 01 20	11	µg/L	100.0	No

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
Trihalomethane Total Annual Average Q2	2025 04 07	11	µg/L	100.0	No
Trihalomethane Total Annual Average Q3	2025 07 07	11	µg/L	100.0	No
Trihalomethane Total Annual Average Q4	2025 10 06	14	µg/L	100.0	No
HAA Total Annual Average Q1	2025 01 20	<MDL 5.3	µg/L	80.0	No
HAA Total Annual Average Q2	2025 04 07	<MDL 5.3	µg/L	80.0	No
HAA Total Annual Average Q3	2025 07 07	<MDL 5.3	µg/L	80.0	No
HAA Total Annual Average Q4	2025 10 06	<MDL 5.3	µg/L	80.0	No

MAC = Maximum Allowable Concentration as O. Reg. 169/03

MDL = Method Detection Limit

Additional Legislated Samples

There were no additional legislated samples required to report during this reporting period.

Major Maintenance Expense (above \$10,000)

Under Section 11 of O. Reg. 170/03, a description of any major expenses incurred during this reporting period to install, repair or replace required equipment must be included in the annual report. The details of the major expenses for this drinking water system are as follows:

Installation of Standby Well at Woods of Manilla Plant II - \$126,058

- Project includes drilling new well, source water protection studies, connections to existing water treatment facility (Woods of Manilla II WTP). Not all components of the project were completed in 2025, and will continue into 2026

Installation of New Standby Generator at Woods of Manilla Plant II - \$117,960

- Project includes the moving and replacement of existing generator with new propane/natural gas generator. Final connection of generator was completed in 2025.

APPENDIX A

WTR Submission Confirmation



Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 2660-C7K5BJ
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Jan 6, 2026 3:51 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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version: v5.0.0.01 (build#: 28)
Last modified: 2021/09/22

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