

Pinewood Drinking Water System

2025 Annual Water Report

Drinking Water System Number: 220006464

Drinking Water System Operating Authorities: City of Kawartha Lakes and Ontario
Clean Water Agency

Drinking Water System Category: Large 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:** 220006464
- Drinking Water System Name:** Pinewood Drinking Water System
- Drinking Water System Owner:** City of Kawartha Lakes
- Drinking Water System Category:** Large 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 10 08	Announced Focused Drinking Water Inspection – Final Inspection Rate of 100%
Adverse Water Quality Incidents (AWQIs)	1	2025 03 29	Loss of pressure due to loss of power and generator issue
Non-Compliances	0		
Boil Water Advisories	1	2025 03 29 – 2025 04 01	Loss of pressure due to loss of power and generator issue
Health and Safety	0		

Drinking Water System Description

The Pinewood drinking water system is a large municipal residential drinking water system serving the Pinewood subdivision located in Pontypool, Ontario, within the City of Kawartha Lakes. The drinking water system is classified as a Class II Water Distribution and Supply subsystem in accordance with O. Reg. 128/04.

Source Water

The water supply for the system is obtained from two groundwater wells identified as Well #4 and Well #5. The wells are designated as non-GUDI, meaning they are not considered groundwater under the direct influence of surface water.

Water Treatment Facility

The Pinewood water treatment facility includes a sodium hypochlorite disinfection system, a two-celled reservoir to provide chlorine contact and treated water storage, and three high lift pumps to deliver water to the distribution system. Continuous online monitoring for free chlorine and flow ensures regulatory compliance.

A portable diesel generator is located onsite to provide standby power to the water treatment facility in the event of a power failure.

Distribution System

The distribution system consists of approximately 4.1 kilometres of PVC watermain and is not rated for fire protection. There are no treated water storage facilities, chlorine boosting stations, secondary disinfection processes or pressure boosting capabilities within the control of the distribution system.

Table 2. Treatment Chemicals Used

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Jutzi Water Technologies

Summary of Non-Compliance

Adverse Water Quality Incidents

Table 3. Adverse Water Quality Incidents

Date (yyyy/mm/dd)	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
2025 03 29	LG290325-02	Treated Water	Loss of Pressure	Issue with generator transfer during power outage resulted in loss of pressure (during prolonged ice storm)	O. Reg. 170/03	MOH issued BWA for the system, took 2 sets of bacti samples, results all clear, BWA rescinded, generator investigated and repaired.

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 the reporting period.

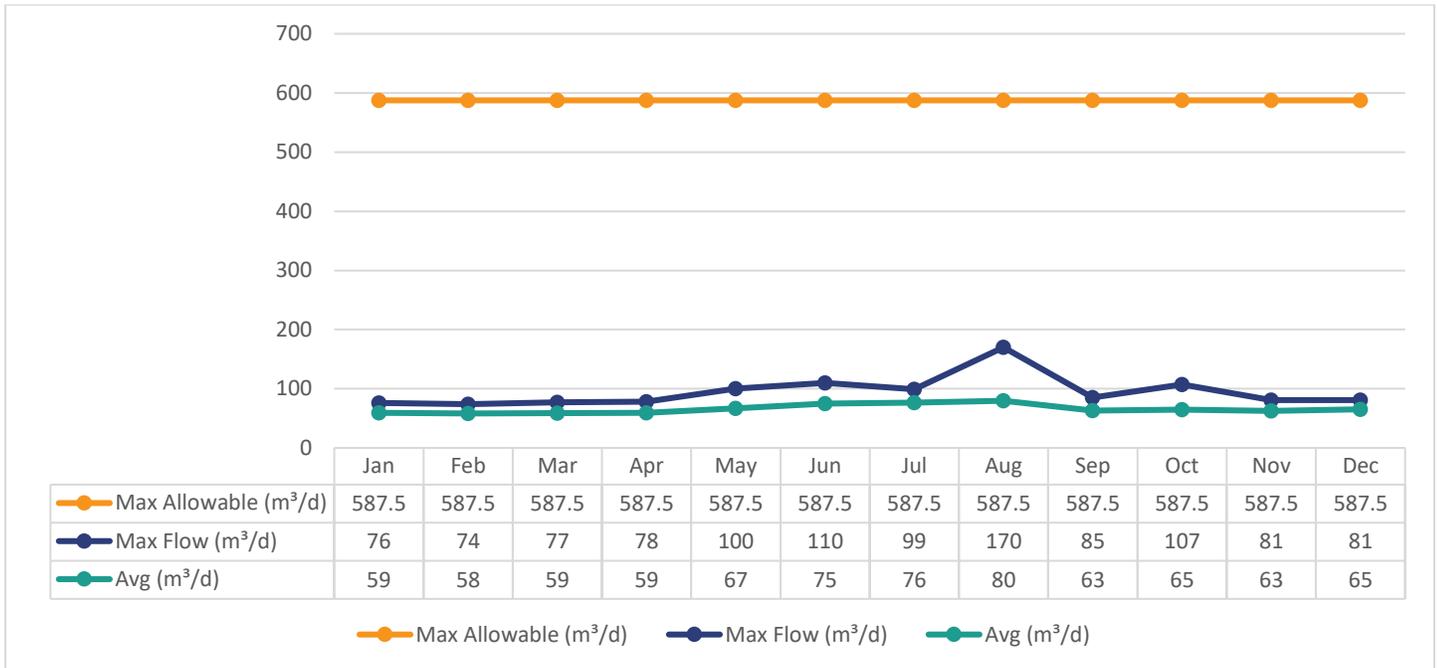
Flows

The Pinewood Drinking Water System is operating on average under half the rated capacity. The rated capacity of the system (treated water flows) is 590 m³/day.

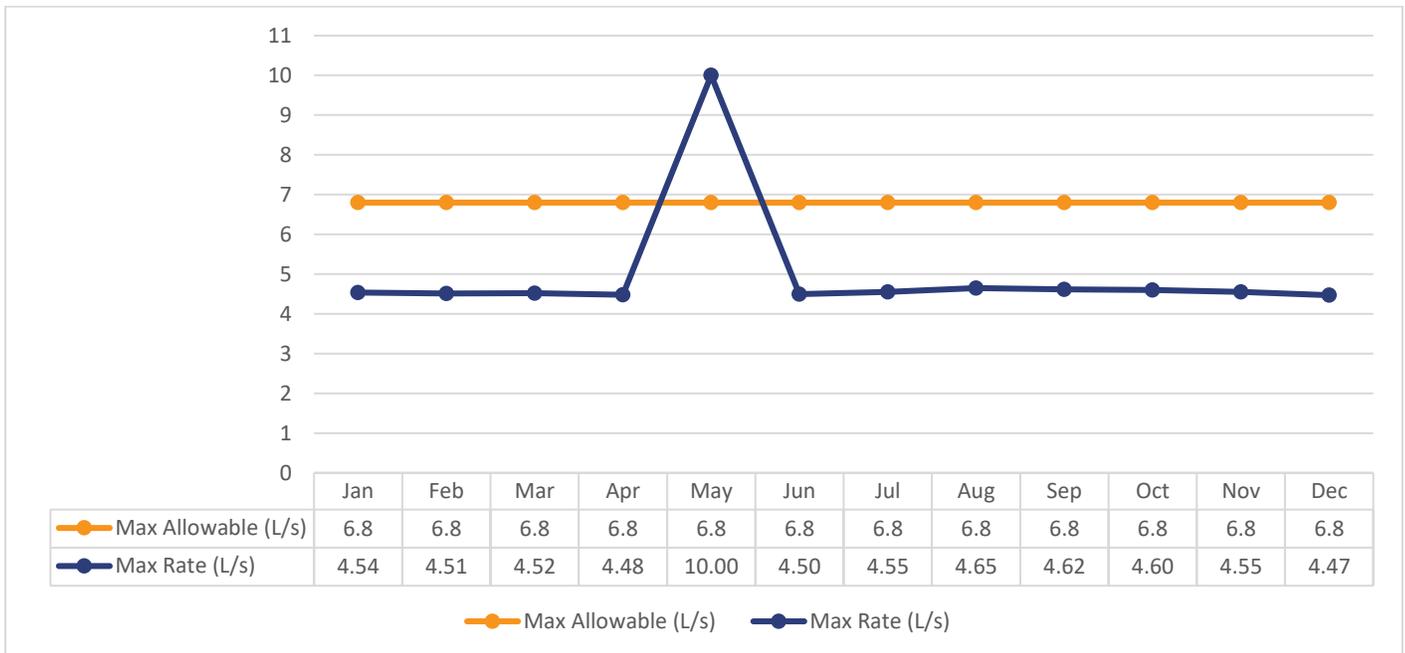
Raw Water Flows

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 #7473-BBTPTY. The confirmation of the data that was submitted is attached in Appendix A. The Permit to Take Water compliance criteria is in litres per minute (L/min) but for the purposes of this report the flow rate is reported in litres per second (L/sec) based on industry standard for flow monitoring recording.

Graph 1. Total Monthly Flows (m³/d) – Well #4 (Max Allowable PTTW)

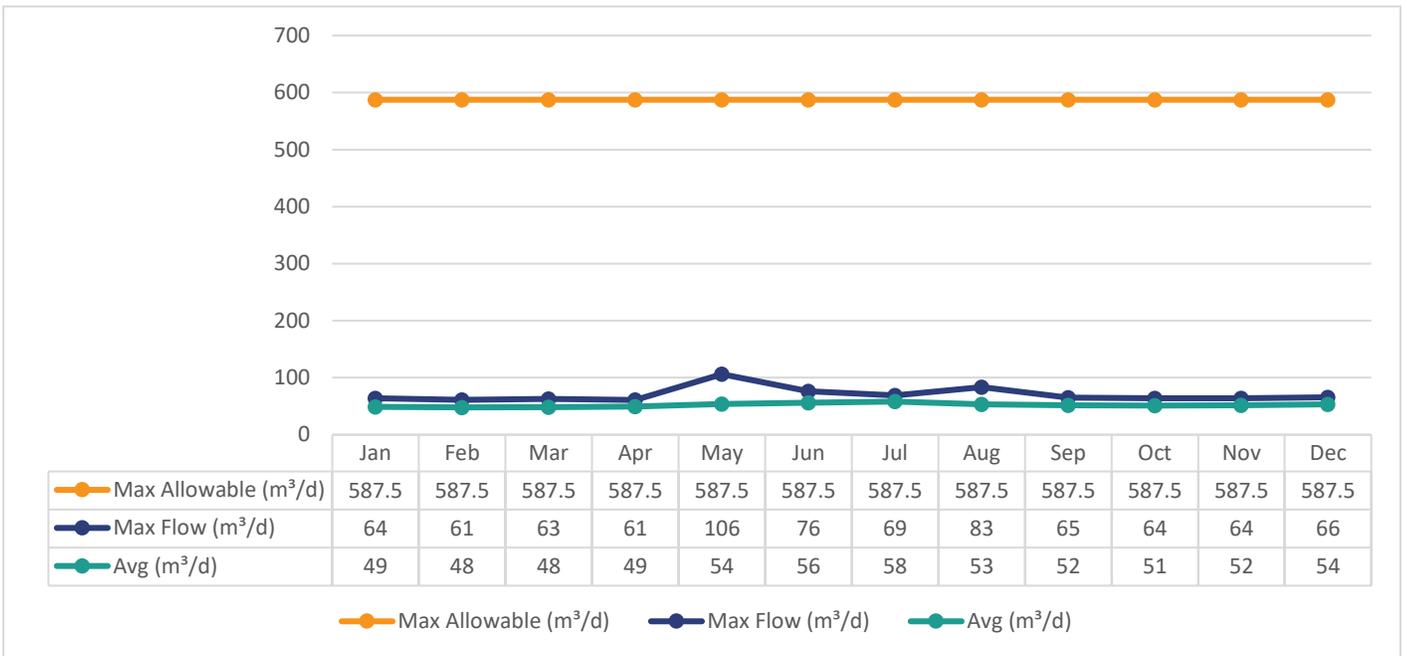


Graph 2. Monthly Rated Flows (L/s) – Well #4 (Max Allowable Rate PTTW)

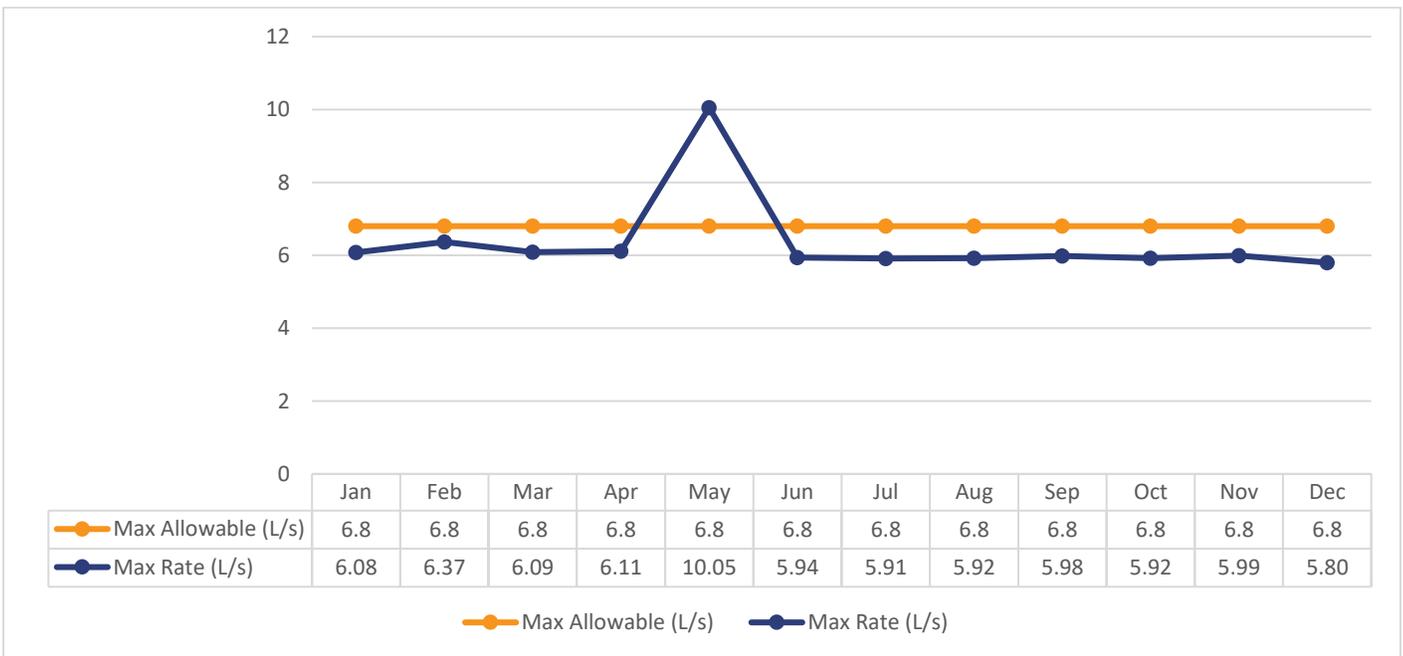


Note: Certain operational circumstances could cause results to be temporarily outside of the allowable rates. In May 2025, the allowable rate was momentarily surpassed as a result of annual calibration of the flow meter and did not indicate a true exceedance. A true exceedance would be documented within this report.

Graph 3. Total Monthly Flows (m³/d) – Well #5 (Max Allowable PTTW)



Graph 4. Monthly Rated Flows (L/s) – Well #5 (Max Allowable Rate PTTW)



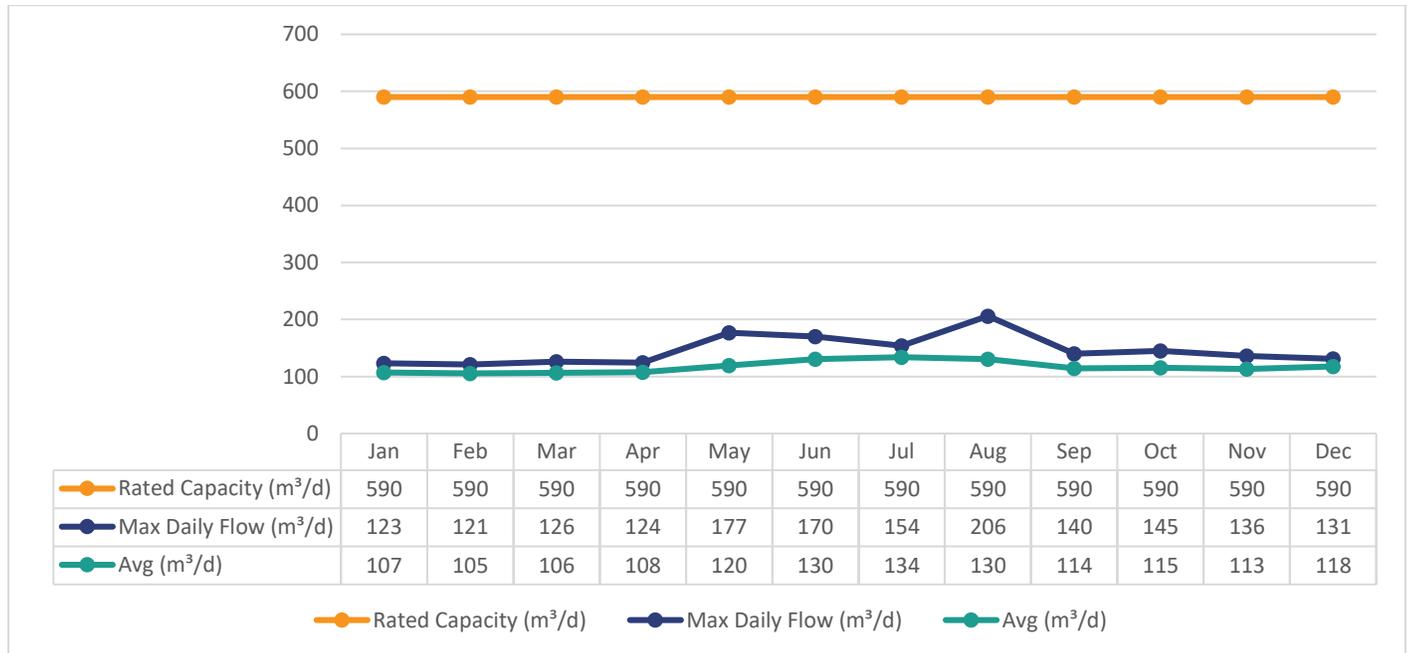
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calibration of the flow meter and did not indicate a true exceedance. A true exceedance would be documented within this report.

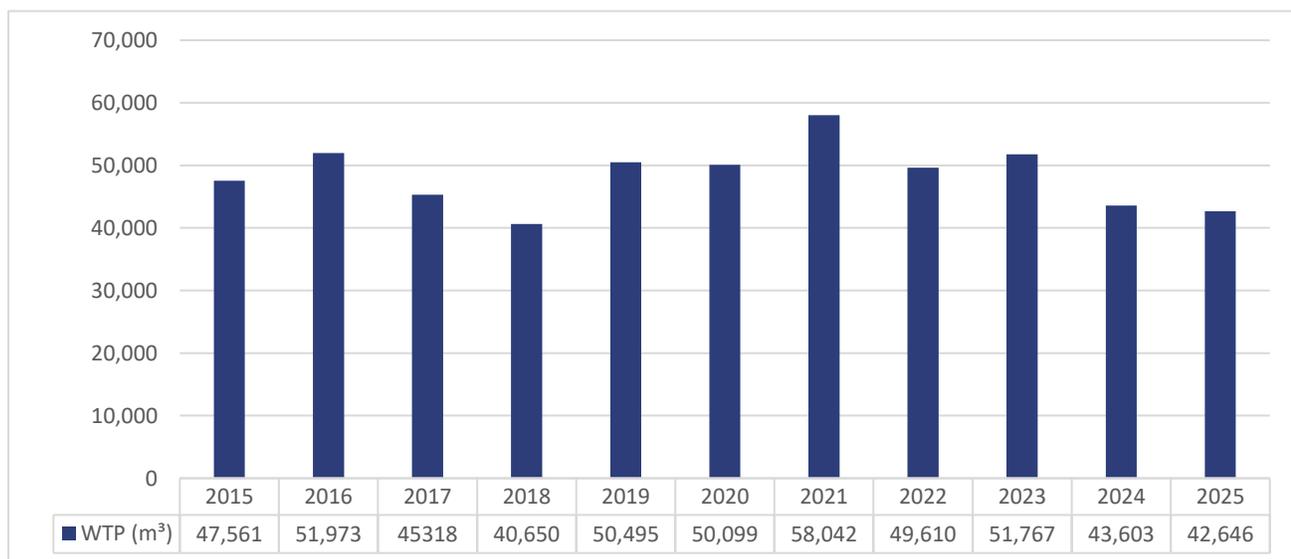
Treated Water Flows

The Treated Water flows are regulated under the Municipal Drinking Water Licence 141-110.

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

	Number of Samples Collected	Range of E. Coli Results	Range of E. Coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
Raw Well 4	52	0	0	0	0	N/A	N/A
Raw Well 5	52	0	0	0	16	N/A	N/A
Treated	54	0	0	0	0	0	3
Distribution	159	0	0	0	0	0	5

OG = Overgrowth

HPC = Heterotrophic Plate Count

Operational Testing

Table 5. Operational Test Results

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 4 (NTU)	12	0.30	0.86
Turbidity Well 5 (NTU)	12	0.13	0.44
Turbidity – TW (NTU)	8760	0.22	2.00
Chlorine	8760	0.70	4.42
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, any true exceedance would be documented in this report.

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 three 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	2023 01 03	<MDL 0.6	µg/L	6.0	No
Arsenic	2023 01 03	<MDL 0.2	µg/L	10.0	No
Barium	2023 01 03	159.0	µg/L	1000.0	No
Boron	2023 01 03	23.0	µg/L	5000.0	No
Cadmium	2023 01 03	0.005	µg/L	5.0	No
Chromium	2023 01 03	<MDL 0.08	µg/L	50.0	No
Mercury	2023 01 03	<MDL 0.01	µg/L	1.0	No
Selenium	2023 01 03	0.12	µg/L	50.0	No
Uranium	2023 01 03	0.009	µg/L	20.0	No
Additional Organics					
Fluoride	2023 01 03	0.13	mg/L	1.5	No
Nitrite	2025 01 13	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 04 14	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 07 14	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 10 14	<MDL 0.003	mg/L	1.0	No
Nitrate	2025 01 13	0.009	mg/L	10.0	No
Nitrate	2025 04 14	0.008	mg/L	10.0	No
Nitrate	2025 07 14	0.009	mg/L	10.0	No
Nitrate	2025 10 14	0.009	mg/L	10.0	No
Sodium	2023 01 03	10.3	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	149	162	N/A	N/A
pH	1	2	7.80	7.98	N/A	N/A
Lead (µg/L)	N/A	N/A	N/A	N/A	10.0	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	2023 01 03	<MDL 0.02	µg/L	5.0	No
Atrazine + N-dealkylated metabolites	2023 01 03	<MDL 0.01	µg/L	5.0	No
Azinphos-methyl	2023 01 03	<MDL 0.05	µg/L	20.0	No
Benzene	2023 01 03	<MDL 0.32	µg/L	1.0	No
Benzo(a)pyrene	2023 01 03	<MDL 0.004	µg/L	0.01	No
Bromoxynil	2023 01 03	<MDL 0.33	µg/L	5.0	No
Carbaryl	2023 01 03	<MDL 0.01	µg/L	90.0	No
Carbofuran	2023 01 03	<MDL 0.01	µg/L	90.0	No
Carbon Tetrachloride	2023 01 03	<MDL 0.17	µg/L	2.0	No
Chlorpyrifos	2023 01 03	<MDL 0.02	µg/L	90.0	No
Diazinon	2023 01 03	<MDL0.02	µg/L	20.0	No
Dicamba	2023 01 03	<MDL 0.2	µg/L	120.0	No
1,2-Dichlorobenzene	2023 01 03	<MDL 0.41	µg/L	200.0	No
1,4-Dichlorobenzene	2023 01 03	<MDL 0.36	µg/L	5.0	No
1,2-Dichloroethane	2023 01 03	<MDL 0.35	µg/L	5.0	No
1,1-Dichloroethylene	2023 01 03	<MDL 0.33	µg/L	14.0	No
Dichloromethane (Methylene Chloride)	2023 01 03	<MDL0.35	µg/L	50.0	No
2,4-Dichlorophenol	2023 01 03	<MDL 0.15	µg/L	900.0	No

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023 01 03	<MDL 0.19	µg/L	100.0	No
Diclofop-methyl	2023 01 03	<MDL 0.4	µg/L	9.0	No
Dimethoate	2023 01 03	<MDL 0.06	µg/L	20.0	No
Diquat	2023 01 03	<MDL 1.0	µg/L	70.0	No
Diuron	2023 01 03	<MDL 0.03	µg/L	150.0	No
Glyphosate	2023 01 03	<MDL 1.0	µg/L	280.0	No
Malathion	2023 01 03	<MDL 0.02	µg/L	190.0	No
2-Methyl- 4chlorophenoxyacetic Acid (MCPA)	2023 01 03	<MDL 0.12	µg/L	100.0	No
Metolachlor	2023 01 03	<MDL 0.01	µg/L	50.0	No
Metribuzin	2023 01 03	<MDL 0.02	µg/L	80.0	No
Monochlorobenzene (Chlorobenzene)	2023 01 03	<MDL 0.3	µg/L	80.0	No
Paraquat	2023 01 03	<MDL 1.0	µg/L	10.0	No
PCB	2023 01 03	<MDL 0.04	µg/L	3.0	No
Pentachlorophenol	2023 01 03	<MDL 0.15	µg/L	60.0	No
Phorate	2023 01 03	<MDL 0.01	µg/L	2.0	No
Picloram	2023 01 03	<MDL 1.0	µg/L	190.0	No
Prometryne	2023 01 03	<MDL 0.03	µg/L	1.0	No
Simazine	2023 01 03	<MDL 0.01	µg/L	10.0	No
Terbufos	2023 01 03	<MDL 0.01	µg/L	1.0	No
Tetrachloroethylene	2023 01 03	<MDL 0.35	µg/L	10.0	No
2,3,4,6- Tetrachlorophenol	2023 01 03	<MDL 0.2	µg/L	100.0	No
Triallate	2023 01 03	<MDL 0.01	µg/L	230.0	No
Trichloroethylene	2023 01 03	<MDL 0.44	µg/L	5.0	No
2,4,6-Trichlorophenol	2023 01 03	<MDL0.25	µg/L	5.0	No
Trifluralin	2023 01 03	<MDL 0.02	µg/L	45.0	No
Vinyl Chloride	2023 01 03	<MDL 0.17	µg/L	1.0	No
Distribution Water					
Trihalomethane Total Annual Average Q1	2025 01 13	12.00	µg/L	100.0	No
Trihalomethane Total Annual Average Q2	2025 04 14	13.00	µg/L	100.0	No
Trihalomethane Total Annual Average Q3	2025 07 14	12.00	µg/L	100.0	No
Trihalomethane Total Annual Average Q4	2025 10 14	15.00	µg/L	100.0	No
HAA Total Annual Average Q1	2025 01 13	<MDL 5.3	µg/L	80.0	No

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

Minor Maintenance

- Generator battery, replace
- Highlift Pump 2, fault
- Well Pump 5, fault
- Highlift Pump 2, cracked wet end of pump repair

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:

Nothing to report for the reporting period.

APPENDIX A

WTR Submission Confirmation



Ministry of the Environment,
Conservation and Parks

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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: 7473-BBTPTY
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 12, 2026 3:03 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.

[Print Confirmation](#)

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