



**STAFF REPORT**  
**City Utilities**

Title: 2025 Drinking Water Annual and Summary Report  
Report Number: IPPW2026-004  
Author: Lori McKenzie  
Council Date: February 23, 2026  
File: N/A  
Attachments: Appendix A: 2025 Annual Report, Appendix B: 2025 Summary Report  
Ward No.: All

**Recommendations:**

1. That Council receives the 2025 Annual and Summary Reports pursuant to Ontario Regulation 170/03 of the Safe Drinking Water Act (2002).
2. That Council approves IPPW2026-004.

**A. Executive Summary**

The 2025 Annual and Summary Reports have been prepared in accordance with the *Safe Drinking Water Act (2002)* and must be received by Council.

The 2025 Annual Report (Appendix A) must be prepared no later than February 28, 2026, and must include a brief description of the drinking water system, a summary of adverse water quality results, a summary of results of required tests, a description of corrective actions taken, a description of major expenses incurred, and the location of the Summary Report.

In addition to the Annual Report, a Summary Report (Appendix B) must also be prepared and provided to the owner of the drinking water system no later than March 31, 2026. The Summary Report includes information regarding applicable legislation, a statement of compliance, including a summary of latest inspection results, and a summary of water consumption and flow rates.

The Summary Report (Appendix B) provides background information and commentary on the December 4 2025 advisory from the Region of Waterloo concerning water supply constraints impacting the City of Waterloo (and other Area Municipalities). City of Waterloo staff are engaged in efforts to support continued growth in the City while mitigating risks to the drinking water supply.

### **B. Financial Implications**

None

### **C. Technology Implications**

None

### **D. Link to Strategic Plan**

(Strategic Priorities: Reconciliation, Equity, Accessibility, Diversity and Inclusion; Environmental Sustainability and Climate Action; Complete Community; Infrastructure and Transportation Systems; Innovation and Future-Ready)

(Guiding Principles: Equity and Inclusion; Sustainability; Integrity; Workplace Wellbeing; Community-centred; Operational Excellence)

The Annual and Summary Reports provide assurances to the City of Waterloo's owner and its customers that safe, high-quality water is being provided and safely managed which supports the strategic priorities of Environmental Sustainability and Climate Action and Infrastructure and Transportation Systems. The continued commitment to providing safe drinking water showcases the guiding principles of Operational Excellence and Sustainability.

### **E. Previous Reports on this Topic**

A report has been sent to Council every year since 2003; the most recent report is IPPW2025-007.



### 2025 Drinking Water Annual and Summary Report IPPW2026-004

#### 2025 Annual Report

The 2025 Annual Report, attached in Appendix A, has been prepared in accordance with the terms and requirements set out in the Safe Drinking Water Act (2002), Ontario Regulation 170/03, Section 11. It covers the period from January 1 to December 31, 2025, and the owner (City of Waterloo Mayor and Council) must ensure that the annual report is prepared no later than February 28, 2026. As per Section 11 of the regulation, the report includes:

- a) Brief Description of the Drinking Water System;
- b) Summary of Adverse Water Quality Results;
- c) Summary of Results of Required Tests;
- d) Description of Corrective Actions Taken;
- e) Description of Major Expenses Incurred; and
- f) Location of Summary Report.

Copies of the City of Waterloo's Annual Report are available, free of charge, at the Waterloo Service Centre, 265 Lexington Court, by contacting Customer Service at (519) 886-2310, extension 30287, or emailing [compliance.team@waterloo.ca](mailto:compliance.team@waterloo.ca).

An electronic copy can also be downloaded from the City of Waterloo website at [www.waterloo.ca](http://www.waterloo.ca).

#### 2025 Summary Report

In addition to the Annual Report, Ontario Regulation 170/03, Schedule 22 requires large municipal residential systems to complete a Summary Report. The Summary Report, attached in Appendix B, covers the same period as the annual report and must be prepared and given to the owner of the drinking water system no later than March 31, 2026. The report follows the requirements prescribed in Schedule 22 of the regulation for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system and includes:

- a) Applicable Legislation;
- b) Statement of Compliance;
- c) Summary of Quantities and Flow Rates; and,
- d) Communication.

Drinking water inspection results are included in the Statement of Compliance of the Summary Report.



## APPENDIX 'A' - 2025 ANNUAL REPORT

**Drinking-Water System Number:** 260002473  
**Drinking-Water System Name:** City of Waterloo Distribution System  
**Drinking-Water System Owner:** City of Waterloo  
**Drinking-Water System Category:** Large Municipal Residential  
**Period being reported:** January 1, 2025 – December 31, 2025

**For Large Municipal Residential Systems:**

**Does your Drinking-Water System serve more than 10,000 people?**

Yes

**Is your annual report available to the public at no charge on a web site on the Internet?**

Yes

**Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:**

Available on the City website at [www.waterloo.ca](http://www.waterloo.ca) or by calling City Utilities, Customer Service at (519) 886-2310 extension 30287, or emailing [compliance.team@waterloo.ca](mailto:compliance.team@waterloo.ca).

**1. List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:**

Drinking Water System Name	Drinking Water System Number
None	N/A

**2. Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?**

N/A

**3. Indicate how you notified system users that your annual report is available, and is free of charge:**

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper

#### 4. Describe your Drinking-Water System:

The City of Waterloo owns the water distribution system; City Utilities is responsible for the operation of the Class 2 water distribution system, including pipes, valves, and hydrants. According to the Region of Waterloo 2024 Year-End Population Estimates, the City's water distribution system serves a population of 155,550 people, including temporary non-resident students (33,610). The water distribution system consists of the following (2024 year-end data):

- 441.98 kilometres of distribution main,
- 31,652 water connections (active accounts),
- 2,607 hydrants (not including private hydrants), and
- 5,082 valves (not including curbstop service valves, or control valves).

The City of Waterloo's distribution system dates back to 1899; extensive replacement and extension of the distribution system has occurred since that time. The water distribution system watermains range in size from 50 mm to 450 mm in diameter and are constructed of cast iron, ductile iron, concrete, asbestos-cement (AC), high-density-polyethylene (HDPE), polyethylene (PE) or polyvinyl chloride (PVC). Any alteration to the City's distribution system requires completion of the Form 1 - Record of Watermains Authorized as a Future Alteration.

There are 7.8 kilometres of dual mains (owned by both the City of Waterloo and the Regional Municipality of Waterloo) that function as both transmission and distribution. The dual mains are shared with the Regional Municipality of Waterloo (RMOW) but are maintained by City of Waterloo, City Utilities. Any alterations to dual mains require completion of the Form 1 under the Drinking Water Works Permit. The alterations approval process for dual mains was adjusted in late 2025 in context of the Regional water supply issue constraints, and this new approach was vetted with the MECP through a Director Notification. The process will be documented in the Operational Plan in 2026. The role of Overall Responsible Operator (ORO) for dual mains is the responsibility of the City of Waterloo.

The City of Waterloo's distribution system does not provide treatment to the water; therefore, there is no chlorine boosting, ultraviolet (UV) irradiation, secondary disinfection, and pressure boosting or pressure control within the control of the water distribution system. The RMOW is responsible for the water supply and water treatment. The City shares responsibility with the RMOW to regularly test water and ensure that the standards set out by the Ontario Ministry of Environment, Conservation and Parks are being met or exceeded.

Scheduled flushing is performed at City locations identified as having an increase potential for experiencing problems with maintaining acceptable chlorine residuals which could result in unsafe drinking water. In 2025, there were 35 scheduled flushing locations in the distribution system. All of the flushing locations are checked and tested on a weekly to quarterly basis, with frequencies adjusted where there is highest potential for decay in chlorine residual. Flushing may be scheduled throughout the City

## Drinking Water Systems Regulation (O. Reg. 170/03)

at additional locations to maintain acceptable chlorine residuals and/or water aesthetic standards.

The City of Waterloo's water distribution system relies upon all RMOW pumping stations and treatment systems for supply and treatment of incoming water. The water distribution system begins at the point where treated water enters the City of Waterloo distribution mains from the treatment facilities or transmission pipelines. The water source for Waterloo's water distribution system is the RMOW Integrated Urban System that encompasses the Erb Street Reservoir (including wells W6A, W6B, W7, W8, and W10), the Mannheim Well Supply, and the Mannheim Water Treatment Plant (WTP). In May 2023, the William Street Water Supply wellfield was disconnected from the City's distribution system. The William Street wellfield will be connected to the Kitchener Drinking Water System: Strange Street Well Supply.

Within Waterloo's water distribution system, there are six distinct pressure zones. Pressure challenges are investigated and addressed by the RMOW, including the implementation of a new pressure zone.

The water distribution system also provides water to the City of Kitchener's neighbourhood of Falconridge and the watermain on Sunbridge Crescent. Falconridge is located off the southeast corner of Waterloo's distribution system and is fed by a City of Waterloo 200 mm PVC watermain running under Woolwich Street. Waterloo's system is separated by a pressure reducing valve. A secondary feed, a 200 mm PVC watermain, is available off Woolwich Street at Hawkswood Drive. The City of Kitchener watermain on Sunbridge Crescent is fed by a City of Waterloo 150 mm PVC watermain connecting to the 200 mm PVC watermain running under Woolwich Street. The City of Waterloo is responsible for the delivery of safe drinking water up to the City of Kitchener border, at which point it enters their system and becomes the City of Kitchener's responsibility. The City of Waterloo does not add treatment of any kind, nor does it boost pressure. The Owner and the Operating Authority of Falconridge is Kitchener Utilities.

The water distribution system also provides water to the commercial development north of the City of Waterloo at Weber Street within the Township of Woolwich. The plaza is supplied water via a City of Waterloo 300 mm PVC watermain running under Weber Street North. A secondary feed, a 300 mm PVC watermain, is available to this development via Kumpf Drive. Both these watermains are protected using a check valve. The City of Waterloo is responsible for the delivery of safe drinking water up to the Woolwich border, at which point it enters their system and becomes the Township of Woolwich's responsibility. The City of Waterloo does not add treatment of any kind, nor does it boost pressure. The Owner and the Operating Authority of this commercial development is the Corporation of the Township of Woolwich and the Township of Woolwich respectively.

Lastly, there are several individual border properties within the City of Kitchener and Township of Woolwich that are directly serviced by the City of Waterloo. These properties are catalogued in the GIS.

**Drinking Water Systems Regulation (O. Reg. 170/03)**
**5. List all water treatment chemicals used over this reporting period:**

Water treatment is the responsibility of the Region of Waterloo. The Region of Waterloo reports all the treatment chemicals used via their annual Water Quality Reports for the Integrated Urban System.

The City of Waterloo disinfects all parts, material and pipe during new installation and repair work using NSF 61 certified chlorine solution.

**6. Were any significant expenses incurred to:**

- Install required equipment
- Repair required equipment
- Replace required equipment

**7. Please provide a brief description and a breakdown of monetary expenses incurred:**

- Repair and maintenance of the distribution system (**operating**) = **\$2,490,357**
- Replacement of watermains and valves (**capital**) = **\$2,269,000**

**8. Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:**

AWQI#	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Resolution Date
168850	2025-07-03	TC	P	P/A	<ul style="list-style-type: none"> <li>• Flushed and resampled at adverse site</li> <li>• Flushed and sampled upstream and downstream sites</li> </ul>	2025-07-08
169154 <sup>1</sup>	2025-07-18	Lead (Private)	LEAD1 = 28.7	ug/L	<ul style="list-style-type: none"> <li>• Resampled at adverse site</li> <li>• Flushed distribution hydrant</li> <li>• ROW Lead Fact Sheet provided</li> <li>• PHU notified 2025-07-24</li> </ul>	2025-07-25
N/A <sup>1</sup>	2025-07-25	Lead (Private)	LEAD1 = 13.2	ug/L	<ul style="list-style-type: none"> <li>• Resampled at adverse site</li> <li>• Flushed distribution hydrant</li> <li>• ROW Lead Fact Sheet provided</li> <li>• PHU notified 2025-07-31</li> </ul>	N/A
169252	2025-07-30	TC	P	P/A	<ul style="list-style-type: none"> <li>• Flushed and resampled at adverse site</li> <li>• Flushed and sampled upstream and downstream sites</li> </ul>	2025-07-31
169910	2025-09-15	CR	TCR = 0.15 FCR = <0.02 CCR = 0.15	mg/L	<ul style="list-style-type: none"> <li>• Flushed and resampled at adverse site</li> </ul>	2025-09-16

**Drinking Water Systems Regulation (O. Reg. 170/03)**

AWQI#	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Resolution Date
					<ul style="list-style-type: none"> <li>Flushed and sampled upstream and downstream sites</li> </ul>	
170065	2025-09-23	TC	P	P/A	<ul style="list-style-type: none"> <li>Flushed and resampled at adverse site</li> <li>Flushed and sampled upstream and downstream sites</li> </ul>	2025-09-26
170146	2025-09-29	CR	TCR = 0.15 FCR = <0.02 CCR = 0.15	mg/L	<ul style="list-style-type: none"> <li>Flushed and resampled at adverse site</li> <li>Flushed and sampled upstream and downstream sites</li> </ul>	2025-09-29
170300	2025-10-08	TC	P	P/A	<ul style="list-style-type: none"> <li>Flushed and resampled at adverse site</li> <li>Flushed and sampled upstream and downstream sites</li> </ul>	2025-10-14
170534	2025-10-25	Low water pressure	Compressed air	psi	<ul style="list-style-type: none"> <li>Resampled and tested at 4 sites</li> <li>Flushed and sampled main</li> </ul>	2025-10-28

CR=Chlorine Residual  
TC=Total Coliform

A=Absent  
P=Present

TCR=Total Chlorine Residual  
FCR=Free Chlorine Residual

CCR=Combined Chlorine Residual  
CFU=Colony Forming Unit

1 – These two incidents are at the same address and count as one adverse

**9. Microbiological testing done under Schedule 10 of Regulation 170/03, during this reporting period:**

Sample Source	Number of Samples	Range of E.Coli or Fecal Results (min - max)	Range of Total Coliform Results (min - max)	Number of HPC Samples	Range of HPC Results (min - max)
Distribution	1636	All Absent	Absent - Present 0 – 0 CFU/mL	590	0 - 500 CFU/mL

CFU=Colony forming units

**10. Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report:**

Parameter	Number of Grab Samples	Range of Results (min - max)	Unit
Total Chlorine	3722	0.15 – 1.87	mg/L
Free Chlorine	3722	0 – 1.21	mg/L

**11. Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument:**

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

**12. Summary of Inorganic parameters tested during this reporting period or the most recent sample results:**

Parameter	Sample Date	Result Value Range (min - max)	Unit of Measure	Number of Exceedances
Antimony	As a distribution only system testing is not required by the City of Waterloo; see Region of Waterloo Annual Report for source water results.			
Arsenic				
Barium				
Cadmium				
Fluoride				
Lead*	N/A	N/A	N/A	N/A
Mercury	As a distribution only system testing is not required by the City of Waterloo; see Region of Waterloo Annual Report for source water results.			
Nitrate	29 Samples between January 1, 2025 and December 31, 2025	0.12 – 4.22	mg/L	0
Nitrite	29 Samples between January 1, 2025 and December 31, 2025	ND – 0.012	mg/L	0
Selenium	As a distribution only system testing is not required by the City of Waterloo; see Region of Waterloo Annual Report for source water results.			
Sodium				
Uranium				

\* Lead samples taken outside of mandated timeframe as per Schedule 15.1

ND = Non Detectable; for Nitrate, detection limit is 0.100 mg/L, for Nitrite, detection limit is 0.010 mg/L

**13. Summary of lead testing under Schedule 15.1 during this reporting period:**

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	247	ND– 28.7	µg/L	2
Distribution	113	ND– 6.06	µg/L	0
Alkalinity	113	188 – 332	Mg/L	-
pH	229	7.2 – 7.79	pH	-

ND = Non Detectable; for Lead, detection limit is 0.200 µg/L

**14. Summary of Organic parameters sampled during this reporting period or the most recent sample results:**

Parameter	Sample Date	Result Value	Unit of Measure	Number of Exceedances
HAA (NOTE: year-end running average)	February 12, 2025 May 13, 2025 August 11, 2025 November 13, 2025	ND	µg/L	0
NDMA	February 14, 2025 May 22, 2025 August 20, 2025 November 20, 2025	ND ND ND ND	µg/L	0
THM (NOTE: year-end running average)	February 27, 2025 May 13, 2025 September 4, 2025 November 13, 2025	13.45	µg/L	0

ND = Non Detectable; for HAA, detection limit is 5 µg/L; for NDMA, detection limit is 0.0009 µg/L

**15. List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards:**

Parameter	Result Value	Unit of Measure	Date of Sample
Lead - Private Plumbing	8.76	µg/L	February 04, 2025
Lead - Private Plumbing	6.55	µg/L	February 04, 2025
Lead - Private Plumbing-NR	6.00	µg/L	February 04, 2025
Lead - Private Plumbing	6.15	µg/L	February 07, 2025
Lead - Private Plumbing	6.24	µg/L	February 12, 2025
Lead - Distribution	6.06	µg/L	February 19, 2025
Lead - Private Plumbing-NR	7.91	µg/L	July 18, 2025
Lead - Private Plumbing	5.28	µg/L	July 21, 2025
Lead - Private Plumbing-NR	6.44	µg/L	July 25, 2025
Lead - Private Plumbing	6.90	µg/L	July 23, 2025
Lead - Private Plumbing	6.51	µg/L	July 23, 2025
Lead - Private Plumbing	7.35	µg/L	July 28, 2025
Lead - Private Plumbing	5.58	µg/L	July 28, 2025
Chloramines	1.53	mg/L	January 02, 2025
Chloramines	1.67	mg/L	January 02, 2025
Chloramines	1.61	mg/L	January 07, 2025
Chloramines	1.59	mg/L	January 07, 2025
Chloramines	1.66	mg/L	January 07, 2025
Chloramines	1.80	mg/L	January 07, 2025
Chloramines	1.59	mg/L	January 07, 2025
Chloramines	1.59	mg/L	January 07, 2025
Chloramines	1.52	mg/L	January 08, 2025
Chloramines	1.58	mg/L	January 09, 2025
Chloramines	1.65	mg/L	January 13, 2025
Chloramines	1.54	mg/L	January 14, 2025
Chloramines	1.56	mg/L	January 14, 2025
Chloramines	1.53	mg/L	January 20, 2025
Chloramines	1.55	mg/L	January 21, 2025
Chloramines	1.52	mg/L	January 21, 2025

**Drinking Water Systems Regulation (O. Reg. 170/03)**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
Chloramines	1.56	mg/L	January 21, 2025
Chloramines	1.50	mg/L	January 21, 2025
Chloramines	1.51	mg/L	January 23, 2025
Chloramines	1.58	mg/L	January 27, 2025
Chloramines	1.55	mg/L	January 28, 2025
Chloramines	1.50	mg/L	January 28, 2025
Chloramines	1.62	mg/L	January 28, 2025
Chloramines	1.53	mg/L	January 30, 2025
Chloramines	1.61	mg/L	January 31, 2025
Chloramines	1.56	mg/L	February 03, 2025
Chloramines	1.55	mg/L	February 03, 2025
Chloramines	1.57	mg/L	February 04, 2025
Chloramines	1.50	mg/L	February 04, 2025
Chloramines	1.50	mg/L	February 04, 2025
Chloramines	1.66	mg/L	February 04, 2025
Chloramines	1.65	mg/L	February 19, 2025
Chloramines	1.65	mg/L	February 19, 2025
Chloramines	1.62	mg/L	February 19, 2025
Chloramines	1.50	mg/L	February 19, 2025
Chloramines	1.78	mg/L	February 19, 2025
Chloramines	1.52	mg/L	February 19, 2025
Chloramines	1.77	mg/L	February 20, 2025
Chloramines	1.63	mg/L	February 24, 2025
Chloramines	1.71	mg/L	February 24, 2025
Chloramines	1.54	mg/L	February 24, 2025
Chloramines	1.64	mg/L	February 24, 2025
Chloramines	1.72	mg/L	February 25, 2025
Chloramines	1.58	mg/L	February 27, 2025
Chloramines	1.58	mg/L	February 27, 2025
Chloramines	1.53	mg/L	February 28, 2025
Chloramines	1.64	mg/L	February 28, 2025
Chloramines	1.60	mg/L	February 28, 2025
Chloramines	1.60	mg/L	February 28, 2025
Chloramines	1.57	mg/L	March 04, 2025
Chloramines	1.57	mg/L	March 04, 2025
Chloramines	1.57	mg/L	March 04, 2025
Chloramines	1.52	mg/L	March 04, 2025
Chloramines	1.53	mg/L	March 04, 2025
Chloramines	1.53	mg/L	March 04, 2025
Chloramines	1.53	mg/L	March 05, 2025
Chloramines	1.61	mg/L	March 05, 2025
Chloramines	1.65	mg/L	March 09, 2025
Chloramines	1.57	mg/L	March 11, 2025
Chloramines	1.56	mg/L	March 11, 2025
Chloramines	1.52	mg/L	March 11, 2025
Chloramines	1.52	mg/L	March 11, 2025
Chloramines	1.59	mg/L	March 18, 2025
Chloramines	1.50	mg/L	March 18, 2025
Chloramines	1.56	mg/L	March 20, 2025
Chloramines	1.70	mg/L	March 25, 2025
Chloramines	1.54	mg/L	March 25, 2025
Chloramines	1.65	mg/L	March 31, 2025

**Drinking Water Systems Regulation (O. Reg. 170/03)**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
Chloramines	1.53	mg/L	March 31, 2025
Chloramines	1.54	mg/L	April 03, 2025
Chloramines	1.73	mg/L	April 08, 2025
Chloramines	1.55	mg/L	April 08, 2025
Chloramines	1.64	mg/L	April 08, 2025
Chloramines	1.55	mg/L	April 08, 2025
Chloramines	1.55	mg/L	April 10, 2025
Chloramines	1.68	mg/L	April 14, 2025
Chloramines	1.64	mg/L	April 14, 2025
Chloramines	1.50	mg/L	April 14, 2025
Chloramines	1.68	mg/L	April 14, 2025
Chloramines	1.51	mg/L	April 14, 2025
Chloramines	1.63	mg/L	April 14, 2025
Chloramines	1.57	mg/L	April 14, 2025
Chloramines	1.60	mg/L	April 14, 2025
Chloramines	1.69	mg/L	April 15, 2025
Chloramines	1.55	mg/L	April 15, 2025
Chloramines	1.50	mg/L	April 15, 2025
Chloramines	1.52	mg/L	April 15, 2025
Chloramines	1.57	mg/L	April 15, 2025
Chloramines	1.50	mg/L	April 15, 2025
Chloramines	1.61	mg/L	April 15, 2025
Chloramines	1.53	mg/L	April 15, 2025
Chloramines	1.62	mg/L	April 15, 2025
Chloramines	1.62	mg/L	April 15, 2025
Chloramines	1.55	mg/L	April 15, 2025
Chloramines	1.59	mg/L	April 16, 2025
Chloramines	1.50	mg/L	April 16, 2025
Chloramines	1.53	mg/L	April 17, 2025
Chloramines	1.59	mg/L	April 22, 2025
Chloramines	1.59	mg/L	April 22, 2025
Chloramines	1.59	mg/L	April 22, 2025
Chloramines	1.53	mg/L	April 22, 2025
Chloramines	1.63	mg/L	April 22, 2025
Chloramines	1.61	mg/L	April 23, 2025
Chloramines	1.63	mg/L	April 23, 2025
Chloramines	1.52	mg/L	April 24, 2025
Chloramines	1.65	mg/L	April 24, 2025
Chloramines	1.51	mg/L	April 24, 2025
Chloramines	1.52	mg/L	April 24, 2025
Chloramines	1.50	mg/L	April 25, 2025
Chloramines	1.61	mg/L	April 28, 2025
Chloramines	1.58	mg/L	April 28, 2025
Chloramines	1.61	mg/L	April 28, 2025
Chloramines	1.59	mg/L	April 28, 2025
Chloramines	1.54	mg/L	April 29, 2025
Chloramines	1.50	mg/L	April 30, 2025
Chloramines	1.65	mg/L	April 30, 2025
Chloramines	1.57	mg/L	April 30, 2025
Chloramines	1.67	mg/L	April 30, 2025
Chloramines	1.67	mg/L	May 05, 2025
Chloramines	1.75	mg/L	May 05, 2025

**Drinking Water Systems Regulation (O. Reg. 170/03)**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
Chloramines	1.52	mg/L	May 06, 2025
Chloramines	1.53	mg/L	May 06, 2025
Chloramines	1.57	mg/L	May 08, 2025
Chloramines	1.51	mg/L	May 12, 2025
Chloramines	1.54	mg/L	May 13, 2025
Chloramines	1.59	mg/L	May 20, 2025
Chloramines	1.61	mg/L	May 21, 2025
Chloramines	1.61	mg/L	May 23, 2025
Chloramines	1.70	mg/L	May 26, 2025
Chloramines	1.50	mg/L	May 28, 2025
Chloramines	1.58	mg/L	June 03, 2025
Chloramines	1.59	mg/L	June 09, 2025
Chloramines	1.59	mg/L	June 10, 2025
Chloramines	1.73	mg/L	June 10, 2025
Chloramines	1.58	mg/L	June 10, 2025
Chloramines	1.52	mg/L	June 12, 2025
Chloramines	1.59	mg/L	June 16, 2025
Chloramines	1.53	mg/L	June 24, 2025
Chloramines	1.64	mg/L	June 26, 2025
Chloramines	1.63	mg/L	June 30, 2025
Chloramines	1.64	mg/L	July 02, 2025
Chloramines	1.59	mg/L	July 07, 2025
Chloramines	1.76	mg/L	July 08, 2025
Chloramines	1.66	mg/L	July 14, 2025
Chloramines	1.53	mg/L	July 15, 2025
Chloramines	1.62	mg/L	July 21, 2025
Chloramines	1.57	mg/L	July 22, 2025
Chloramines	1.56	mg/L	July 24, 2025
Chloramines	1.56	mg/L	July 24, 2025
Chloramines	1.64	mg/L	July 28, 2025
Chloramines	1.54	mg/L	July 29, 2025
Chloramines	1.51	mg/L	July 29, 2025
Chloramines	1.73	mg/L	July 29, 2025
Chloramines	1.54	mg/L	August 05, 2025
Chloramines	1.62	mg/L	August 05, 2025
Chloramines	1.77	mg/L	August 05, 2025
Chloramines	1.71	mg/L	August 06, 2025
Chloramines	1.52	mg/L	August 11, 2025
Chloramines	1.58	mg/L	August 11, 2025
Chloramines	1.57	mg/L	August 11, 2025
Chloramines	1.50	mg/L	August 12, 2025
Chloramines	1.56	mg/L	August 18, 2025
Chloramines	1.77	mg/L	August 19, 2025
Chloramines	1.75	mg/L	August 25, 2025
Chloramines	1.73	mg/L	August 27, 2025
Chloramines	1.73	mg/L	September 02, 2025
Chloramines	1.64	mg/L	September 04, 2025
Chloramines	1.83	mg/L	September 08, 2025
Chloramines	1.62	mg/L	September 09, 2025
Chloramines	1.60	mg/L	September 11, 2025
Chloramines	1.50	mg/L	September 12, 2025
Chloramines	1.66	mg/L	September 15, 2025

**Drinking Water Systems Regulation (O. Reg. 170/03)**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
Chloramines	1.51	mg/L	September 16, 2025
Chloramines	1.57	mg/L	September 22, 2025
Chloramines	1.54	mg/L	September 23, 2025
Chloramines	1.55	mg/L	September 25, 2025
Chloramines	1.55	mg/L	September 29, 2025
Chloramines	1.53	mg/L	October 01, 2025
Chloramines	1.65	mg/L	October 06, 2025
Chloramines	1.52	mg/L	October 07, 2025
Chloramines	1.55	mg/L	October 09, 2025
Chloramines	1.63	mg/L	October 14, 2025
Chloramines	1.59	mg/L	October 16, 2025
Chloramines	1.78	mg/L	October 20, 2025
Chloramines	1.51	mg/L	October 21, 2025
Chloramines	1.59	mg/L	October 23, 2025
Chloramines	1.58	mg/L	October 25, 2025
Chloramines	1.52	mg/L	October 25, 2025
Chloramines	1.51	mg/L	October 25, 2025
Chloramines	1.52	mg/L	October 25, 2025
Chloramines	1.76	mg/L	October 27, 2025
Chloramines	1.61	mg/L	October 28, 2025
Chloramines	1.57	mg/L	October 30, 2025
Chloramines	1.66	mg/L	October 30, 2025
Chloramines	1.51	mg/L	November 03, 2025
Chloramines	1.71	mg/L	November 03, 2025
Chloramines	1.52	mg/L	November 03, 2025
Chloramines	1.60	mg/L	November 04, 2025
Chloramines	1.77	mg/L	November 04, 2025
Chloramines	1.67	mg/L	November 05, 2025
Chloramines	1.51	mg/L	November 10, 2025
Chloramines	1.62	mg/L	November 10, 2025
Chloramines	1.58	mg/L	November 10, 2025
Chloramines	1.73	mg/L	November 12, 2025
Chloramines	1.59	mg/L	November 13, 2025
Chloramines	1.64	mg/L	November 13, 2025
Chloramines	1.52	mg/L	November 14, 2025
Chloramines	1.84	mg/L	November 17, 2025
Chloramines	1.63	mg/L	November 18, 2025
Chloramines	1.75	mg/L	November 18, 2025
Chloramines	1.60	mg/L	November 19, 2025
Chloramines	1.51	mg/L	November 20, 2025
Chloramines	1.56	mg/L	November 24, 2025
Chloramines	1.83	mg/L	November 24, 2025
Chloramines	1.65	mg/L	November 25, 2025
Chloramines	1.53	mg/L	November 25, 2025
Chloramines	1.72	mg/L	November 25, 2025
Chloramines	1.57	mg/L	November 25, 2025
Chloramines	1.56	mg/L	November 25, 2025
Chloramines	1.55	mg/L	November 27, 2025
Chloramines	1.65	mg/L	November 27, 2025
Chloramines	1.84	mg/L	December 01 2025
Chloramines	1.54	mg/L	December 02 2025
Chloramines	1.74	mg/L	December 02 2025

**Drinking Water Systems Regulation (O. Reg. 170/03)**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
Chloramines	1.53	mg/L	December 03, 2025
Chloramines	1.62	mg/L	December 03, 2025
Chloramines	1.70	mg/L	December 03, 2025
Chloramines	1.64	mg/L	December 03, 2025
Chloramines	1.56	mg/L	December 04, 2025
Chloramines	1.58	mg/L	December 04, 2025
Chloramines	1.78	mg/L	December 08, 2025
Chloramines	1.73	mg/L	December 09, 2025
Chloramines	1.60	mg/L	December 09, 2025
Chloramines	1.68	mg/L	December 09, 2025
Chloramines	1.59	mg/L	December 10, 2025
Chloramines	1.59	mg/L	December 11, 2025
Chloramines	1.62	mg/L	December 11, 2025
Chloramines	1.58	mg/L	December 11, 2025
Chloramines	1.61	mg/L	December 17, 2025
Chloramines	1.56	mg/L	December 22, 2025
Chloramines	1.73	mg/L	December 22, 2025
Chloramines	1.51	mg/L	December 23, 2025
Chloramines	1.52	mg/L	December 23, 2025
Chloramines	1.64	mg/L	December 23, 2025
Chloramines	1.64	mg/L	December 24, 2025
Chloramines	1.68	mg/L	December 24, 2025
Chloramines	1.69	mg/L	December 24, 2025
Chloramines	1.62	mg/L	December 29, 2025
Chloramines	1.52	mg/L	December 29, 2025
Chloramines	1.71	mg/L	December 29, 2025
Chloramines	1.54	mg/L	December 30, 2025
Chloramines	1.50	mg/L	December 30, 2025
Chloramines	1.54	mg/L	December 30, 2025
Chloramines	1.51	mg/L	December 31, 2025

# Appendix ‘B’ – 2025 Summary Report for Drinking Water Systems

## 1.0 Introduction

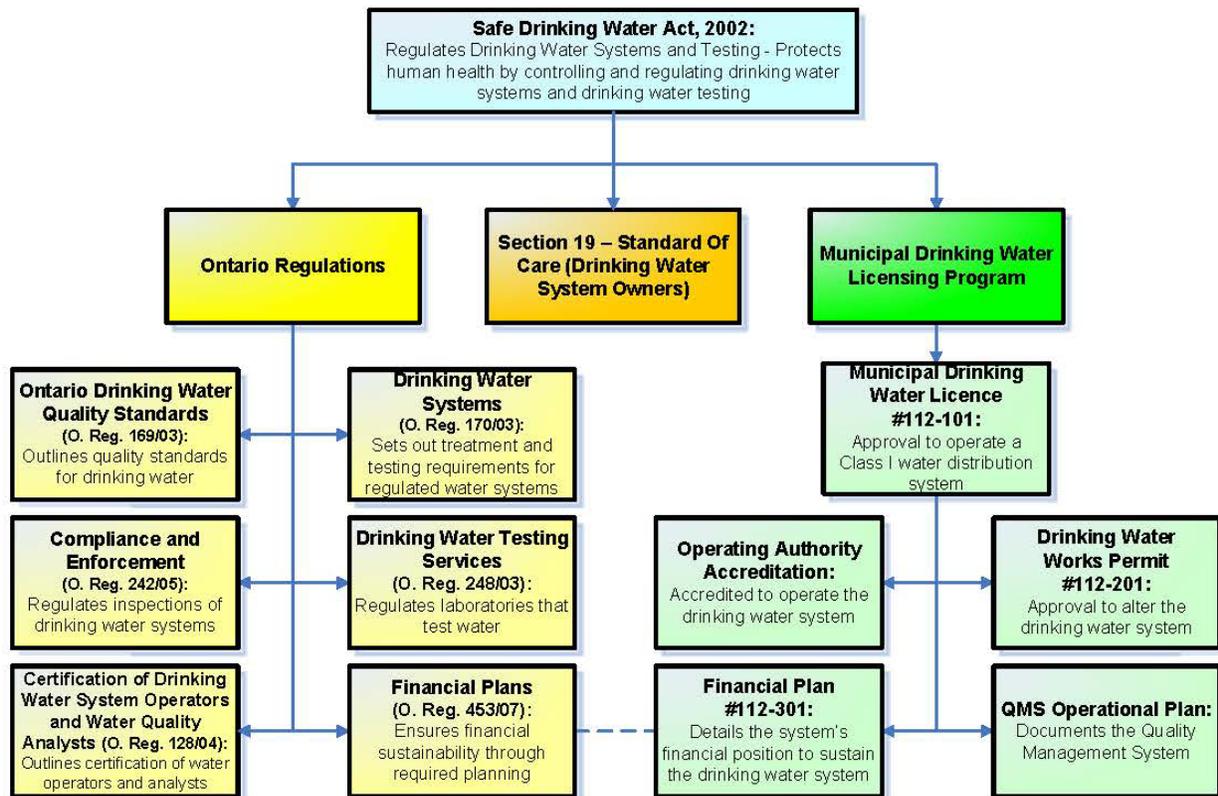
Schedule 22 of Ontario Regulation 170/03 requires, for large municipal residential systems, that a Summary Report be prepared and submitted to members of municipal council by March 31, 2026 for the period of January 1 to December 31, 2025.

## 2.0 Applicable Legislation

Requirements for owning and operating Waterloo’s drinking water system are identified within the Safe Drinking Water Act, 2002 (SDWA), its applicable regulations and its approval mechanisms, as seen in the figure below.

Ontario maintains the most recent version of the SDWA and its associated regulations on the e-laws [website](#).

**Figure 1: Applicable Legislation**



### 3.0 Municipal Drinking Water Licensing Program

The City of Waterloo was issued its first Municipal Drinking Water License (MDWL), #112-101, and Drinking Water Works Permit (DWWP), #112-201, in August 2011. A license is valid for five years, the most recent was issued in June 2021 and will expire in June 2026. City Utilities submitted a renewal application for the license in December 2025. The DWWP does not expire, but a new permit may be issued by the Ministry if the provincial permit template is updated. The most recent permit was issued in June 2021. The MDWL authorizes the City of Waterloo to operate the distribution system and sets conditions for the maintenance of the system and drinking water quality, while the Drinking Water Works Permit sets the description of the distribution system and allows for pre-authorization to add, modify, replace and extend the system in certain cases.

Per the requirements of Ontario Regulation 453/07 and the MDWL, a financial plan must be approved and submitted. Financial Plan #112-301 was updated and approved via Council Report IPPW2025-046 in December 2025, in tandem with the license renewal application.

Further to these requirements, the City must maintain an accredited Drinking Water Quality Management System (DWQMS) Operational Plan against the provincial Drinking Water Quality Management Standard v2.0. The DWQMS demonstrates the City's commitment to the provision of safe drinking water and continual improvement, as all compliance preventative and corrective measures are documented through the DWQMS. Council receives information on an annual basis on updates to the DWQMS Operational Plan and the results of the DWQMS Management Review; the most recent report was IPPW2025-043.

### 4.0 Statement of Compliance

The Ministry of the Environment, Conservation and Parks (MECP) aims to inspect every drinking water system annually. The MECP conducted a remote inspection, with an onsite component, of the drinking water distribution system from February 22 to March 25, 2025. The primary focus of this inspection was to confirm compliance with MECP legislation as well as evaluate conformance with ministry drinking water policies and guidelines during the inspection period. The Ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management practices. The inspection covered the period of February 1, 2024 to February 15, 2025.

There were no non-compliances with regulatory requirements, nor did the Ministry identify any best management practices. All past inspection recommendations have been addressed. The City of Waterloo received a final inspection rating of 100%.

The inspection for the 2025 year has not commenced as of the date of preparation of this report.

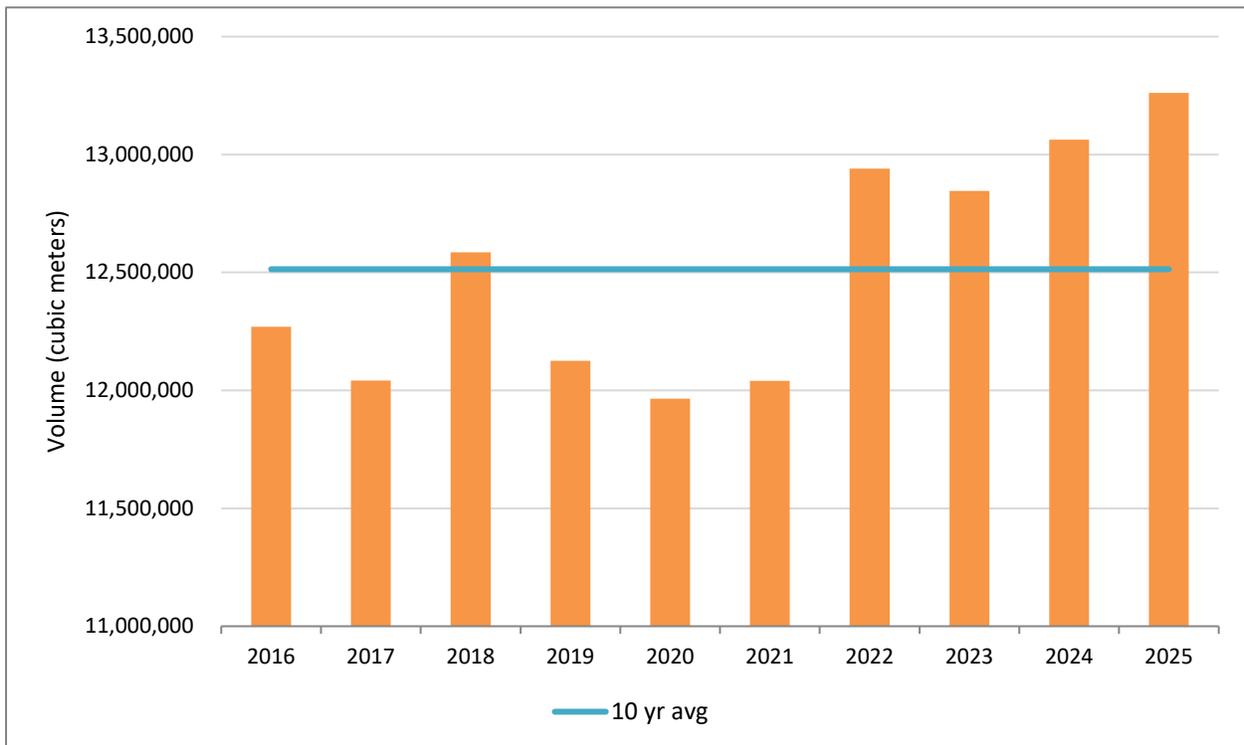
## 5.0 Summary of Water Consumption

### 5.1 Total Water Consumption

From January 1 to December 31, 2025, the City received 13,261,070 cubic meters of water from the Region of Waterloo, a 1.52% increase from 2024. This could be attributed to population growth and development within the City, as there is a marked trend for the past four years of record high consumption. Based on available statistics from the Region of Waterloo Year End Population reports, population growth within the City from 2023-2024 was 0.7%, from 2022-2023 was 3.9%, and from 2021-2022 was 2.7%, while the previous five-year increases ranged from 0.1% to 2.1%. 2025 Year-End Population data is not yet available.

Figure 2 depicts the last ten years of total consumption against the average.

**Figure 2: Total Water Consumption for the Past Ten Years**

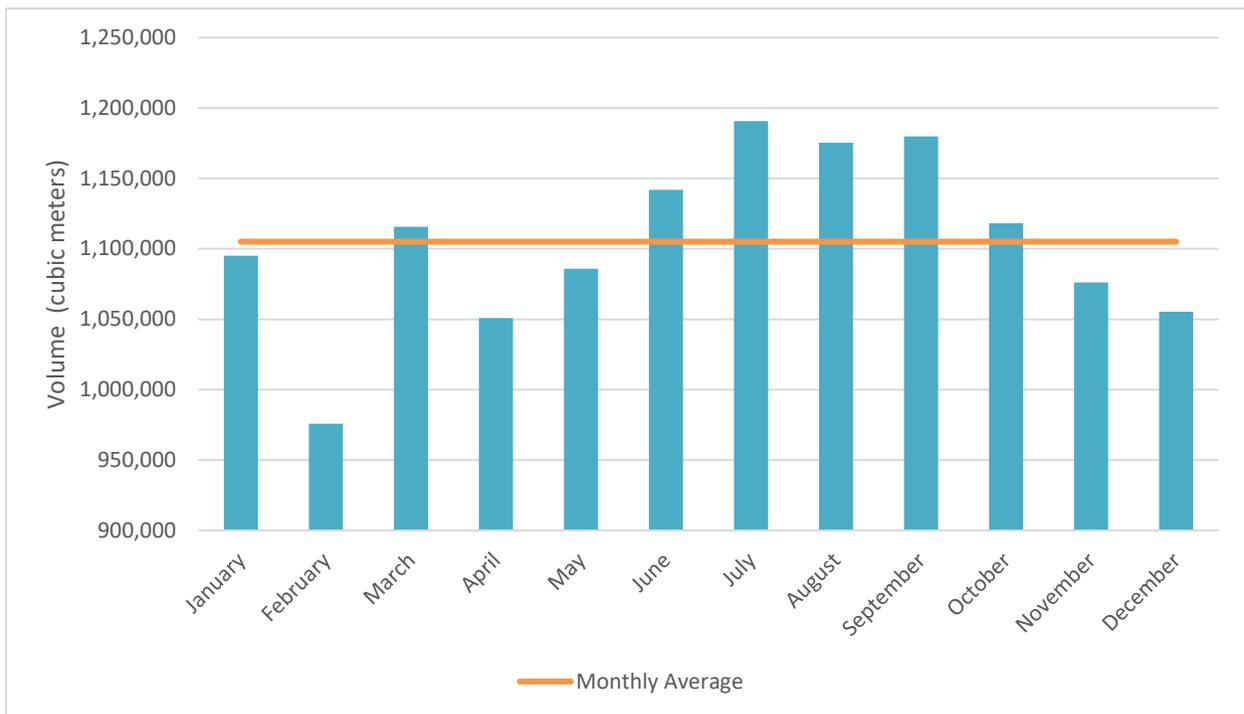


## 5.2 Monthly Water Consumption

The average monthly consumption in 2025 was 1,105,089 cubic meters, an increase from the monthly average of 1,088,922 cubic meters in 2024. July saw the highest consumption for the year, which was 7.8% above the monthly average. February saw the lowest consumption of 2025; February’s consumption was 11.7% below the monthly average.

Figure 3 shows the City’s actual water consumption by month.

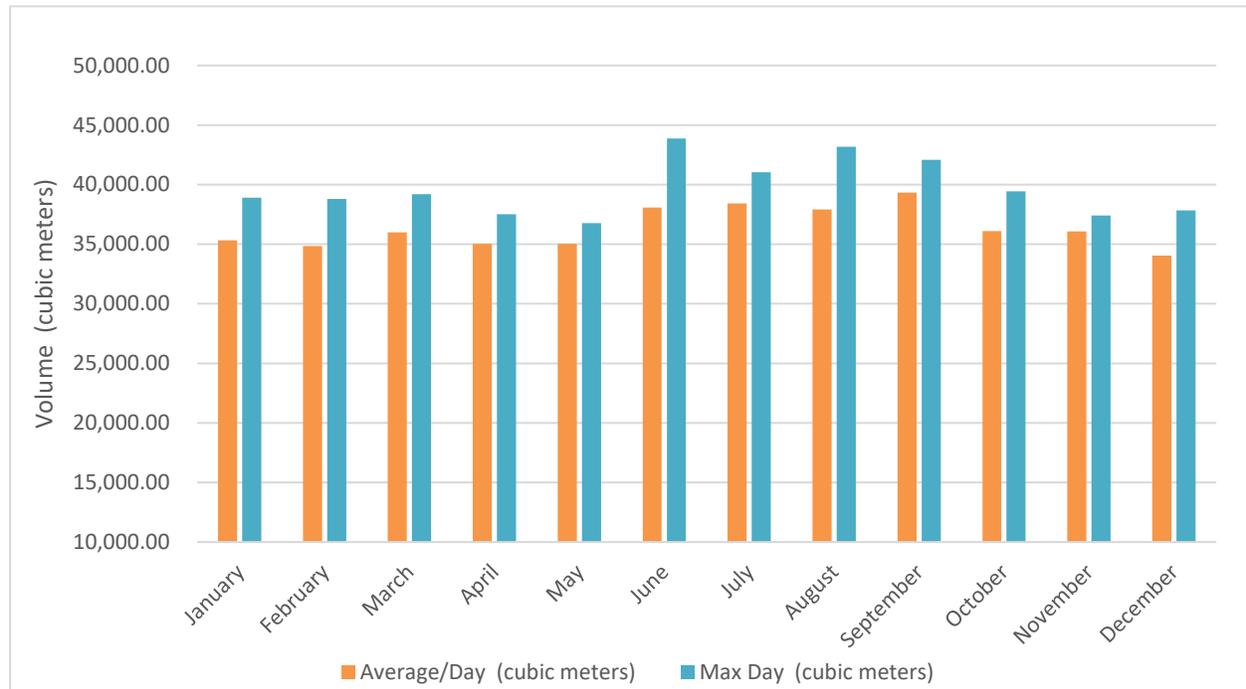
**Figure 3: Monthly Total Water Consumption**



### 5.3 Average Daily and Maximum Daily Usage

Figure 4 shows the average daily and maximum daily usage for each month. September had the highest average day usage, while December had the lowest. June had the highest daily peak (max day), while May had the lowest.

**Figure 4: Average Daily and Maximum Daily Usage per Month**



### 5.4 Water Supply Constraint Advisory (late 2025)

On December 4, 2025, the Region of Waterloo issued an advisory that water supply in the Region’s Mannheim Service area is constrained and impacts the Cities of Waterloo and Kitchener, and Township’s of Woolwich and Wilmot. Several factors have been cited in context of the constraint including aging infrastructure, well impacts, plateauing of conservation efforts, and growth. The advisory stated that water quality was not impacted and continues to be safe for consumption.

The Region of Waterloo communicated that a peer review had been initiated to examine all information at that time and that a new methodology had been developed for calculating remaining supply using a sustainable water supply approach.

The Region of Waterloo requested that planning data be submitted for review and that the municipalities impacted halt Form 1 approval processes for water system alterations.

At the time of report preparation in January 2026, the Region of Waterloo initiated two teams to examine water technical options and planning processes; however, no approved solutions for

the water supply constraint that would allow new development applications to proceed have been shared by the Region of Waterloo.

City staff have been engaged to participate on the various teams and are committed to support continued growth in the City while balancing the safety of the drinking water supply.

## 6.0 Flow Rates

Rated capacity and flow rates refer to treatment subsystems. The City of Waterloo owns and operates the distribution system; therefore, these parameters do not apply. The Region of Waterloo is required to report on the rated capacity and flow rates of the supply system via the Summary Report to Regional Council. As per the regulation, a copy is provided to the City of Waterloo.

## 7.0 Communication

Since the City's distribution system supplies drinking water to portions of the City of Kitchener, and the Township of Woolwich, each municipality will be provided a copy of the 2025 Summary Report. Additionally, the Region of Waterloo will receive a copy for their records. All copies will be provided by March 31, 2026.