

## **Attachment-2**

### **2025 Water Services' Summary Report**

January 1, 2025 to December 31, 2025

#### **Guelph Drinking Water System**

Corporation of the City of Guelph

#### **Gazer Mooney Subdivision Distribution System**

Township of Guelph/Eramosa



Water Services  
Environmental Services Department

Last Revision: 0

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# Water Services' Summary Report

## Purpose

This report is intended to provide Guelph City Council, as "Owners" of the drinking water system, an understanding of the status of the City of Guelph's Drinking Water System for the reporting period of January 1, 2025, to December 31, 2025.

Second, the Safe Drinking Water Act (SDWA) (2002) mandates that it is the responsibility of the municipality to:

- Recognize that the people of Ontario are entitled to expect their drinking water to be safe; and,
- Provide for the protection of human health and the prevention of drinking water health hazards through the control and regulation of drinking water systems and drinking water testing.

Finally, this report has also been prepared to satisfy the requirements of Schedule 22, O. Reg. 170/03 (Summary Reports for Municipalities).

For the 2025 reporting period, a separate Annual Report, which contains data related to annual testing and sampling parameters, was prepared to fulfill Section 11 of O. Reg. 170/03. This report will be posted on the City's website by February 28, 2026.

## Scope

This Water Services Summary Report includes information from both the **Guelph Drinking Water System** and the **Gazer Mooney Subdivision Distribution System** for the period of January 1, 2025, to December 31, 2025, unless otherwise noted. The information is required to be reported to the following:

- the Drinking Water System Owners:
- Guelph City Council
- Township of Guelph/Eramosa (Council and CAO).
- Senior officials of Guelph Environmental Services and Township of Guelph/Eramosa; and
- the general public and interested stakeholders.

A copy of this report is available for viewing at:

- **Online** at [guelph.ca/water-testing](https://guelph.ca/water-testing)
- <https://guelph.ca/plans-and-strategies/performance-reporting/>

Please consider the environment - review the digital copy of the report, instead of printing it.

Any inquiries can be made to:

- **City of Guelph Water Services** by e-mailing [waterservices@guelph.ca](mailto:waterservices@guelph.ca) or by calling 519-837-5627.
- **Township of Guelph/Eramosa Public Works – Water/Wastewater** by e-mailing [general@get.on.ca](mailto:general@get.on.ca) or by calling 519-856-9596.

## Notice

Please note that every reasonable effort is made to ensure the accuracy of this report. This report is published with the best available information at the time of publication. In the event that errors or omissions occur, the online report will be updated. Please refer to the online version of the report for the most current version.

## Systems Overview

### Guelph Drinking Water System

Water Services at the City of Guelph is committed to providing consumers with a safe, consistent supply of high-quality drinking water while meeting or exceeding, and continually improving on legal, operational, and quality management system requirements. Water Services strives to provide reliable and cost-effective water treatment and distribution systems for the safe production and delivery of high-quality water. Established in 1879, Water Services is a municipally owned and operated water utility.

The Guelph Drinking Water System is classified as a Class II Water Treatment Subsystem and a Class IV Water Distribution Subsystem. All necessary licences have been obtained by staff to operate the Guelph Drinking Water System. As of December 31, 2025, 31 team members held drinking water certificates to operate and maintain the water system.

Water Services continues to maintain full accreditation to the Drinking Water Quality Management Standards (DWQMS) Version 2.0 after a successful on-site verification audit, conducted by the third-party accreditation body - NSF International Strategic Registrations.

This accreditation satisfies part of the requirements under the Municipal Drinking Water Licensing Program, the accreditation certification is valid through January 3, 2027.

## **Water Distribution System**

The distribution system (including watermains, valves, fire hydrants, water services, and meters) serves a population of approximately 150,000<sup>1</sup> within the City of Guelph. All new system components meet NSF 61<sup>2</sup> and NSF 372<sup>3</sup> requirements, or approved equivalents, and are installed and maintained in accordance with approved industry standards. Water system customers are fully metered and billed in accordance with the Water and Wastewater Customer Rates and Charges by-law. For more information on water rates, please refer to [My water bill and rates](#) on the City of Guelph website.

The Guelph Drinking Water System distribution system is comprised of the following infrastructure:

- 6.47 kilometres of a 900-1,050 mm diameter water supply aqueduct,
- five underground storage reservoirs with a combined approximate capacity of 48,000 cubic metres (48 million litres),
- three water towers with a combined approximate capacity of 11,200 cubic metres (11.2 million litres),
- approximately 562.0 kilometres of in service buried watermain with a diameter < 900 mm,
- 4,399 watermain valves,
- 2,896 fire hydrants; and
- approximately 45,488 water services connections and water meters.

## **Guelph Source Water and Treatment Facilities**

There are currently 19 groundwater wells connected to Guelph's drinking water system, along with a shallow groundwater collector system. The drinking water sources consist primarily of true groundwater, with some "groundwater under the direct influence of surface

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<sup>1</sup> City of Guelph Planning and Building Services census population estimate without under coverage (2024)

<sup>2</sup> NSF/ANSI Standard 61: Drinking Water System Components – Health Effects

<sup>3</sup> NSF/ANSI Standard 372: Drinking Water System Components – Lead Content

water with effective in-situ filtration” (GUDI-WEF) sources. The GUDI-WEF sources include Carter Well 1 and 2; Arkell 1; Arkell 15; and the Arkell Springs Glen Collector System.

### **Gazer Mooney Subdivision Distribution System**

The Gazer Mooney Subdivision Distribution System (SDS) is a Class 1 Distribution Subsystem that serves approximately 209<sup>4</sup> people and is owned by the Township of Guelph/Eramosa. The system is operated by Guelph Water Services through a legal agreement that was signed by representatives of the City of Guelph and the Township of Guelph/Eramosa. The current agreement came into effect on March 1, 2019 is renewed and extended to February 28, 2029, unless terminated earlier.

All of the water for the Gazer Mooney Subdivision Distribution System is supplied from the Guelph Drinking Water System. All water is treated to provincial standards in the Guelph Drinking Water System and no further treatment chemicals are added to the Gazer Mooney Subdivision Distribution System.

The Gazer Mooney Subdivision Distribution System is comprised of the following infrastructure:

- approximately 650 metres of 200mm diameter watermain.
- approximately 600 metres of 150mm diameter watermain.
- six watermain valves.
- six fire hydrants.
- one sampling station; and
- approximately 72 water services and water meters.

### **Quality Management System**

#### **Management Review**

At least once every calendar year, Water Services’ Management and other key members from Water Services’ support teams meet to evaluate the adequacy and effectiveness of Water Services’ Quality Management System (QMS). Key information reviewed at the meeting, includes, but is not limited to incidences of regulatory non-compliance and

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<sup>4</sup> Estimated, based on 72 water connections multiplied by 2.9 people per household (as per Statistics Canada for low density residential).

corrective actions taken. The results of the meeting, including decisions or action items to prompt changes and improvements in Water Services' QMS are communicated to City of Guelph (owner of the Guelph Drinking Water System) and Township of Guelph/Eramosa Council (owner of the Gazer Mooney Subdivision Distribution System) by inclusion in this report, see Appendix A: Management Review Minutes.

The review provides evidence of continued endorsement and commitment to the QMS from Water Services Management and other key members from Water Services' support teams.

## **Regulatory Compliance**

### **Compliance with Terms and Conditions of System Approval and Other Orders**

The City of Guelph fulfilled the requirements of the Safe Drinking Water Act, its regulations and the terms and conditions of the Municipal Drinking Water Licences and Drinking Water Works Permit for the Guelph Drinking Water System and the Gazer Mooney Subdivision Distribution System; exceptions, if any, are detailed in Table 1: Summary of non-compliance events and actions taken. Note: the non-compliances identified did not result in any improperly treated water reaching customers.

As the Operating Authority for both the Guelph Drinking Water System and the Gazer Mooney Subdivision Distribution System, Guelph Water Services is inspected annually by the Ministry of the Environment, Conservation and Parks (MECP) (Ministry) for compliance with regulatory requirements.

Table 1: Summary of non-compliance events and actions taken, includes non-compliance events that were self-identified to the Ministry in the 2025-2026 drinking water inspection of the Guelph Drinking Water System and Gazer Mooney Subdivision Distribution System (see Table 1 below).

The annual MECP Inspection for 2025-2026 for the Guelph Drinking Water System began September 17, 2025, and on October 1, 2025 for Gazer Mooney distribution system. The final Gazer Mooney Inspection Report was issued by the MECP on December 19, 2025. The final Inspection Report for the Guelph Drinking Water System (DWS) has not yet been issued, although a draft has been received.

## **Guelph Drinking Water System**

There were two (2) incidents of non-compliance associated with the Guelph DWS for the 2025-2026 inspection period. NOTE: the non-compliances identified did not result in any improperly treated water reaching customers. For details, please refer to Table 1: Summary of non-compliance events and actions taken.

## **Gazer Mooney Subdivision Distribution System**

There were zero (0) incidents of non-compliance in the Gazer Mooney SDS for 2025-2026 inspection period.

**Table 1: Summary of non-compliance events and actions taken**

#	Drinking Water System	Legislative Requirement	Statement of Non-compliance	Corrective Action
1	Guelph Drinking Water System	The owner did not ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.	The City had started construction at the F.M. Woods site, specifically the modification of Reservoir 3 (reduced capacity) to accommodate a new pumping station (addition), without prior issuance of a Schedule C approval under the Drinking Water Works Permit (DWWP). Several upgrades are underway or planned at the F.M. Woods site. The City's engineering consultant contacted the MECP approvals engineer early in the project to confirm the approval requirements. Based on those initial discussions, the consultant understood that the proposed work met the criteria for preauthorized minor modifications under the DWWP and that only	A Schedule C application was submitted and a draft copy of the approval has been reviewed by the City.

			Forms 2 and 3 would be required. After additional project information was provided to the ministry, it was determined and communicated to the consultant that the project did not qualify as a minor modification and a Schedule C amendment was therefore required prior to construction. A Schedule C amendment is to be received prior to construction as this document provides the authority to alter the system.	
2	Guelph Drinking Water System	Organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 were not met.	Regulation 170/03, Schedule 13-4 requires that Schedule 24 sampling be conducted at the FM Woods point of entry (POE) once every 12 months, and that each sample collected be analyzed for all parameters listed in Schedule 24. Schedule 24 samples were collected at FM Woods on June 18, 2025, as required; however, the Semi Volatile Organic Compounds	Resampling for the outstanding SVOC parameters was completed on October 20, 2025. All reported results were less than the method detection limit.

			<p>(SVOC) portion of the analysis could not be completed.</p> <p>On June 19, 2025, the City's laboratory notified Water Services that, due to an error, the City had been provided with two unpreserved 1L amber bottles for SVOC sampling instead of the required two 1L amber bottles preserved with sodium thiosulfate. As a result, the lab was unable to process the submitted SVOC samples and advised that resampling would be necessary. Water Services did not complete the required resampling at that time.</p>	
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## Operational Performance

The following section describes Operational Performance statistics of Guelph's Water Services that includes:

- 2025 Totalized Pumpages as per the Municipal Drinking Water Licence and Permits to Take Water;
- 2025 Instantaneous Flows as per Permit to Take Water;
- Water Production, Consumption and Population; and
- Water Supply Capacity.

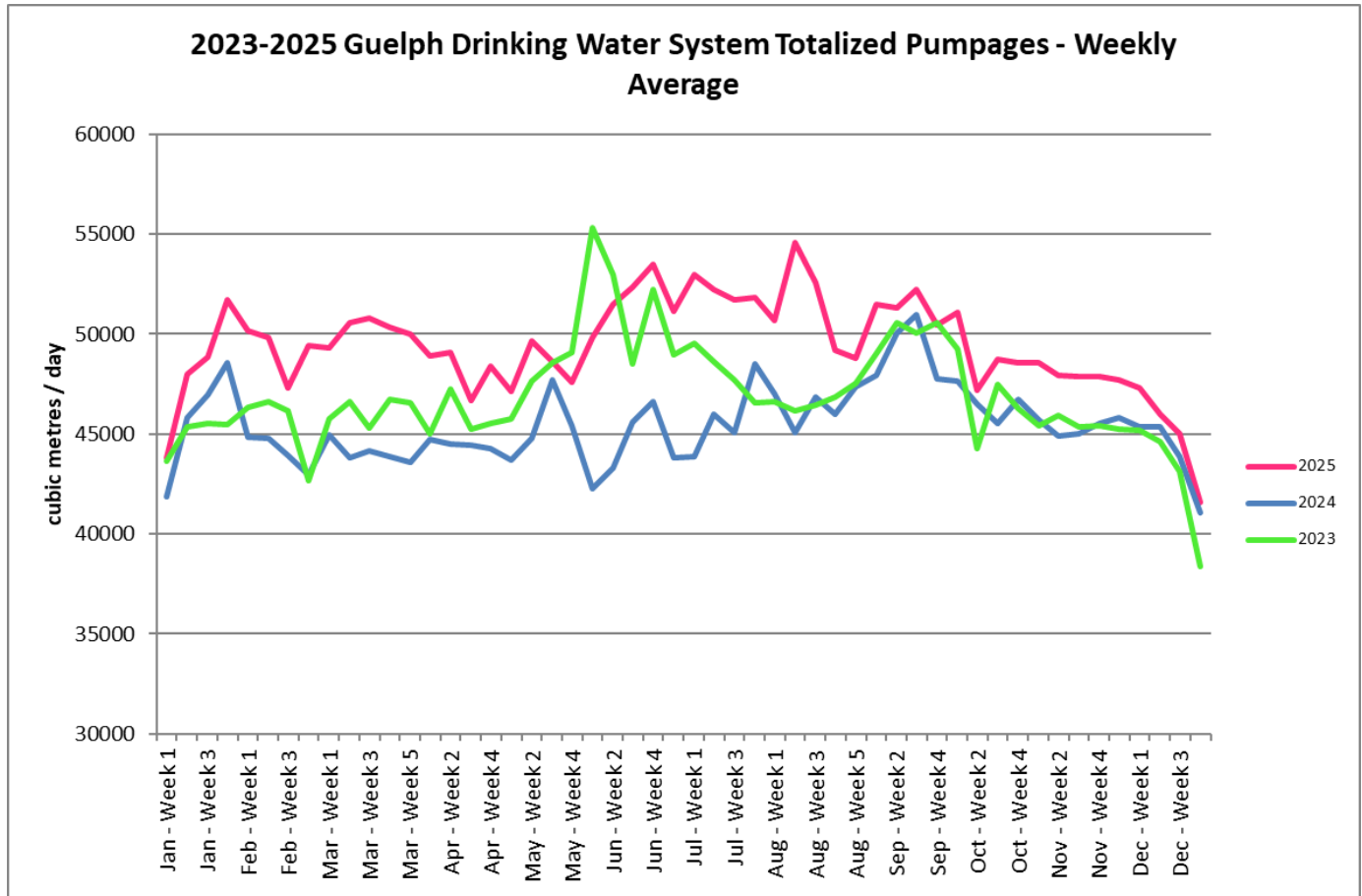
### 2025 Totalized Pumpages and Instantaneous Flows

The Ontario Water Resources Act and the Safe Drinking Water Act, each require that operating authorities record and report both water takings as governed by Permits to Take Water and treated water supplied to the City of Guelph.

Summaries of total water pumped, instantaneous flows and capacity (flows and volumes compared to rated capacities) by the City of Guelph can be found in Appendix B: Total Water Pumped and Instantaneous Flows.

Figure 1: Totalized Treated Water Pumpages, depicts the Guelph Drinking Water System treated water pumpages in cubic metres as a weekly average. Using a weekly average allows for less data points resulting in a simplified graph for the purpose of this report.

**Figure 1: Totalized Treated Water Pumpages, 2022-2025**



Water Services processed 18,030,005 cubic metres (18.03 billion litres) of water to the distribution system in 2025. This represents 8.5 per cent more water being supplied to the distribution system in 2025 as compared to 2024.

The 2025 average daily water demand was 49,397 cubic metres (49.397 million litres). The maximum daily production of water in 2025 was 62,738 cubic metres (62.738million litres) and occurred on June 23, 2025. The minimum daily production of water in 2025 was 36,767 cubic metres (36.76 million litres) and occurred on December 26, 2025.

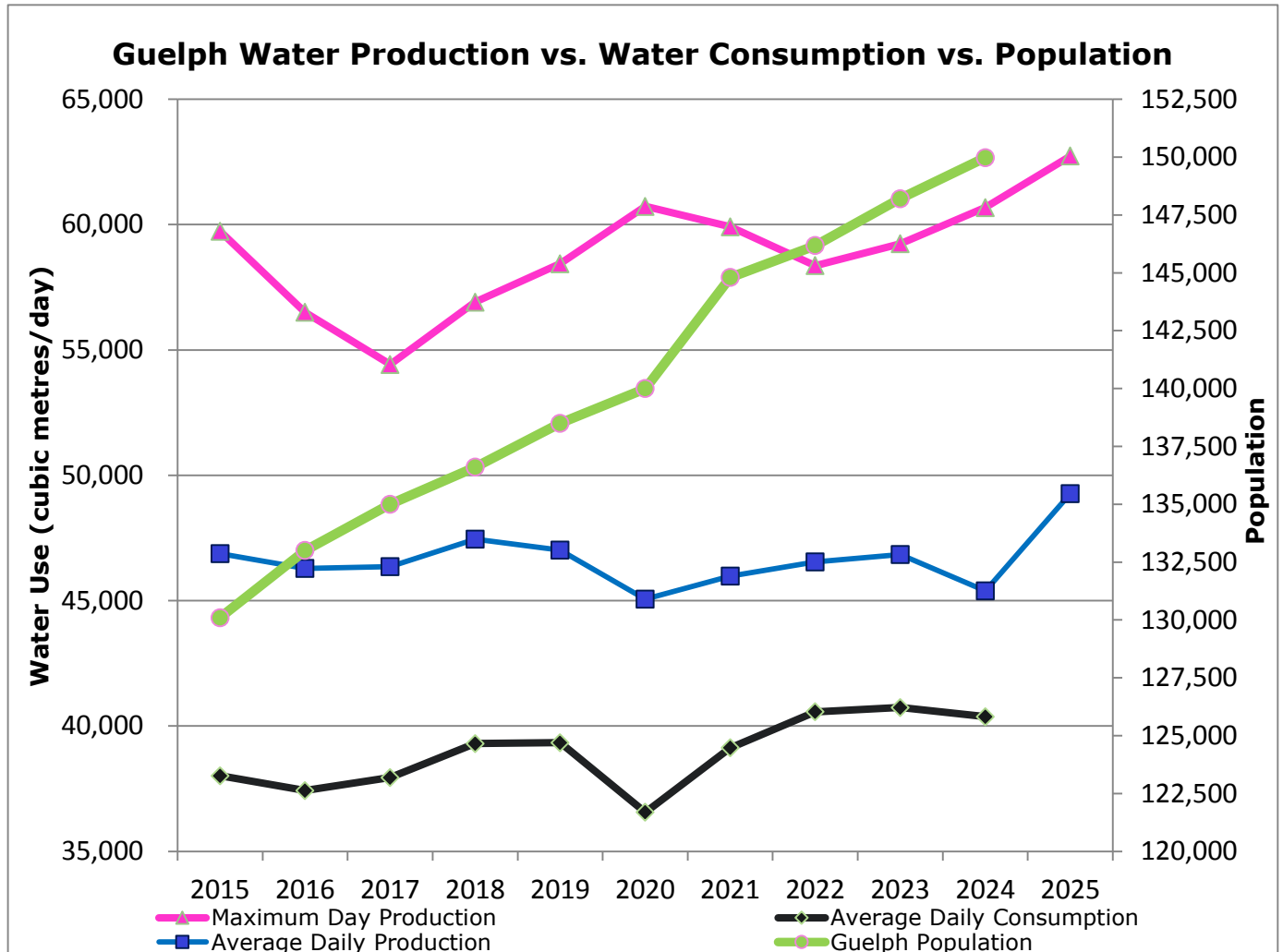
### **Water Production, Consumption and Population**

From 2015 to 2024, Guelph’s population increased by 15.3 per cent, whereas the annual average consumption increased by only 6.2 per cent overall.

Fluctuation in water production and consumption is anticipated to occur, year to year, based on a number of factors, including seasonal temperatures and annual precipitation, system demands (including planned and unplanned maintenance) and steady population growth; however, the steady-to-reduced water consumption (and production) rates year over year can likely be attributed to Guelph's Water Efficiency Strategy, Guelph's Water Loss Management Strategy, and resulting programming, as described later in this section. Further, the impacts to consumption (and production) across sectors varied throughout 2020 and onward, which can likely be attributed to changes in societal behaviour as a result of the pandemic. Despite residential water use increasing in 2020 during the COVID pandemic, values have continued to decrease to 164 litres per person per day (2024), similar to 2019, pre-pandemic.

Figure 2: Guelph Water Production vs. Water Consumption vs. Population, 2014 - 2025, below, shows the City of Guelph's annual average daily water production, annual average daily consumption, annual peak day demand, and population from 2014 to 2025<sup>5</sup>.

**Figure 2: Guelph Water Production vs. Water Consumption vs. Population, 2014-2025<sup>5</sup>**



### Water Supply Capacity

Water Services staff uses source-specific calculated firm capacity values in order to aid planning of scheduled shutdowns and maintenance of the water supply wells. Staff hold monthly meetings to review project and programming activities that affect firm capacity.

<sup>5</sup> 2025 Consumption and Population data was not available when Figure 4: Guelph Water Production vs. Water Consumption vs. Population, 2013 – 2024 was prepared for consumption and population.

The purpose of the monthly meetings are to ensure adequate servicing capacity is available to meet the City’s water demands while maintenance and capital upgrades are undertaken to ensure the operates in a fit state of repair.

Values used for permitted pumping rate and firm capacity calculations, by well, are provided below in Table 2: Permitted Rates and Point of Entry Firm Capacities of Water Supply Wells (includes only wells that were in-use for production/supply in 2025). The permitted pumping rate is the rate of pumping allowed as identified in the Permits to Take Water. The firm capacity rate is the actual rate of pumping that can be sustainably achieved at each well.

**Table 2: Permitted Rates and Point of Entry Firm Capacities of Water Supply Wells**

<b>Well Name</b>	<b>Permitted Daily Maximum (m3/day)</b>	<b>Permitted Rate (L/s)</b>	<b>Point of Entry Firm Capacity<sup>6</sup> (m3/day)</b>	<b>Point of Entry Firm Capacity<sup>6</sup> (L/s)</b>
Arkell 1	<b>3,273</b>	<b>37.9</b>	<b>1,640</b>	<b>19.0</b>
Arkell Springs Wellfield <sup>7</sup>	<b>28,800</b>	<b>333.3</b>	<b>28,800</b>	<b>333.3</b>
Arkell Infiltration Gallery (Glen Collector)	<b>25,000</b>	<b>290.0</b>	<b>5,908</b>	<b>59.0</b>
Burke	<b>6,546</b>	<b>75.8</b>	<b>5,790</b>	<b>60.0</b>
Carter 1 and Carter 2	<b>6,547</b>	<b>75.8</b>	<b>5,184</b>	<b>60.0</b>
Membro	<b>6,050</b>	<b>78.0</b>	<b>3,200</b>	<b>37.0</b>
Water St.	<b>3,400</b>	<b>44.4</b>	<b>1,702</b>	<b>19.7</b>
Dean	<b>2,300</b>	<b>34.6</b>	<b>1,500</b>	<b>17.4</b>
University	<b>3,300</b>	<b>46.2</b>	<b>1,500</b>	<b>17.4</b>

<sup>6</sup> The firm capacity rate is the actual rate of pumping that can be achieved at each well.

<sup>7</sup> The Arkell Springs Wellfield consists of five (5) municipal drinking water production wells: Arkell 6, Arkell 7, Arkell 8, Arkell 14 and Arkell 15. All of the aforementioned Arkell Wells are contained within the same Permit to Take Water. Notwithstanding the specified maximum permitted taken per day, any combination of these wells can be used to obtain the permitted rate.

<b>Well Name</b>	<b>Permitted Daily Maximum (m3/day)</b>	<b>Permitted Rate (L/s)</b>	<b>Point of Entry Firm Capacity<sup>6</sup> (m3/day)</b>	<b>Point of Entry Firm Capacity<sup>6</sup> (L/s)</b>
Downey	<b>5,237</b>	<b>60.6</b>	<b>2,592</b>	<b>30.0</b>
Park 1 and Park 2	<b>10,300</b>	<b>127.2</b>	<b>9,500</b>	<b>110.0</b>
Emma	<b>3,100</b>	<b>40.8</b>	<b>2,330</b>	<b>27.0</b>
Helmar	<b>3,273</b>	<b>37.9</b>	<b>804</b>	<b>9.3</b>
Paisley	<b>3,200</b>	<b>42.0</b>	804	9.3
Calico	<b>5,237</b>	<b>60.6</b>	<b>1,040</b>	<b>12.0</b>
Queensdale	<b>5,237</b>	<b>60.6</b>	<b>501</b>	<b>5.8</b>

While Permits to Take Water (PTTWs) for each well indicate the maximum permitted water takings for a well, the firm capacities are based on operational limitations and what production is achievable based on the design of each facility.

Note: Wells Admiral, Edinburgh, Sacco, Smallfield, Calico, and Helmar are currently not connected to the drinking water system. All of these wells have been issued a Permit to Take Water.

## Appendix A: Management Review Minutes

Meeting: **Management Review for 2025 Calendar Year**

Date: February 10, 2026

Time: 1:00 p.m. – 3:30 p.m.

Location: WS Boardroom and MS Teams (Hybrid option)

Present: Kelly Beirnes, Matt Bender, Ryan Costello, Anindita Datta, Wayne Galliher, Leah Kane, Kelly Laforet, Deigh Madejski, Mathew Newman, Tim Spence, Emily Stahl, Lindsay Tayler, Jason Wallace, Heather Yates

Regrets: Nathan Siniowski

### Meeting Minutes

ID	Discussion Items	Actions
-	Introduction <ul style="list-style-type: none"> <li>• Reviewed the purpose of Management Review.</li> <li>• The review focused on 2025 data, with multi-year data included where needed for context.</li> </ul>	No action required.
a.)	Incidents of regulatory non-compliance <ul style="list-style-type: none"> <li>• Reviewed the non-compliances raised in the 2025-2026 Ministry of the Environment, Conservation and Parks (MECP) Inspection Reports for the Guelph Drinking Water System (DWS) and Gazer Mooney Subdivision Distribution System (DS).</li> <li>• Guelph DWS:</li> </ul>	No new actions arising from this discussion.

	<ul style="list-style-type: none"> <li>• Two (2) non-compliances were identified and resolved through immediate corrective measures.</li> <li>• One item underwent additional review (root cause analysis), resulting in identified corrective actions: one completed and one in progress, with status tracked in the internal Action Tracking Log.</li> <li>• The Guelph DWS report is currently in draft. No changes to the identified non-compliances are anticipated in the final report.</li> </ul> <ul style="list-style-type: none"> <li>• Gazer Mooney Subdivision DS:             <ul style="list-style-type: none"> <li>• No non-compliances were identified.</li> </ul> </li> <li>• <b>Note:</b> Non-compliances do not indicate that the drinking water is unsafe; they highlight areas for operational improvement.</li> </ul>	
b.)	<p>Incidents of Adverse Drinking Water Tests</p> <ul style="list-style-type: none"> <li>• Reviewed three (3) drinking water samples that resulted in four (4) adverse test results. Mandatory immediate notifications to the Public Health Unit and MECP were completed, along with all required mandatory corrective actions. In-house QMS procedures supported the response, and one improvement need identified during their use has since been addressed.</li> <li>• There were no adverse test results for the Gazer Mooney Subdivision DS.</li> <li>• Details of adverse drinking water tests are provided in the 2025 Annual Reports for each drinking water system, which will be made publicly available on the City’s website.</li> </ul>	No action required.
c.)	<p>Deviations from Critical Control Point (CCP) and limits (CCL) and response actions</p> <ul style="list-style-type: none"> <li>• No Critical Control Limit (CCL) deviations were identified in 2025.</li> <li>• Reviewed the established Critical Control Points (CCPs), primary disinfection, secondary disinfection and backflow</li> </ul>	No new actions arising from this discussion.

	<p>prevention, and discussed the need to clarify how backflow prevention is represented within the CCP framework, given that certain elements are not directly controlled by the Operating Authority.</p> <ul style="list-style-type: none"> <li>• Discussed opportunities to improve how CCL deviations are documented and summarized for Management Review.</li> <li>• No new actions were assigned during this meeting. However, overall improvements to CCP/CCL processes were flagged, with status tracked in the internal Action Tracking Log.</li> </ul>	
d.)	<p>The effectiveness of the risk assessment process</p> <ul style="list-style-type: none"> <li>• Internal teams met to review and assess drinking water system risks for 2025.</li> <li>• The assessment confirmed that the existing risk profile remains current, with several updates based on system changes and operational experience: <ul style="list-style-type: none"> <li>• Updated hazardous event descriptions for two (2) events, allowing the risk assessment to be evaluated in a way that better reflects our system and resulting in more appropriate risk ratings.</li> <li>• One (1) new risk was added based on an event that occurred in 2025.</li> <li>• Certain previously high-priority risks were reduced to lower levels following completed capital works, demonstrating measurable system improvement.</li> </ul> </li> <li>• Overall, risk assessment process was determined to be effective.</li> <li>• No new actions were assigned during this meeting. However, an improvement related to clarifying Critical Control Points (CCPs) within the risk assessment process is acknowledged with status tracked in the internal Action Tracking Log.</li> </ul>	No new actions arising from this discussion.

<p>e.)</p>	<p>Internal DWQMS audit results</p> <ul style="list-style-type: none"> <li>• The internal DWQMS audit was completed by Water Services staff (report dated June 26, 2025).</li> <li>• Results included one (1) minor non-conformance and several opportunities for improvement, with themes related to documentation, training alignment and administrative processes.</li> <li>• Reviewed the resulting actions and their current status (open/closed). Items are being monitored, with status tracked in the internal Action Tracking Log.</li> <li>• No new decisions or actions were assigned during this meeting.</li> </ul> <p>External DWQMS audit results</p> <ul style="list-style-type: none"> <li>• The external DWQMS audit was completed by NSF International Strategic Registrations on September 17-19, 2025 (report issued September 26, 2025).</li> <li>• Results included one (1) minor non-conformance and a few opportunities for improvement, with themes related to roles, responsibilities and authorities, communication with system Owners, and continual improvement management.</li> <li>• Reviewed the related actions and their current status (open/closed). Items are being monitored, with status tracked in the internal Action Tracking Log.</li> <li>• No new decisions or actions were assigned during this meeting.</li> </ul>	<p>No new actions arising from this discussion.</p>
<p>f.)</p>	<p>Results of emergency response testing</p> <ul style="list-style-type: none"> <li>• An emergency response test exercise was conducted on November 14, 2025.</li> <li>• A summary of the exercise and supporting documentation were provided to management outside of the Management Review (via meeting materials and email).</li> <li>• The Quality Management Specialist reviewed the exercise results and entered the identified improvement items into the internal continual improvement tracking process. These</li> </ul>	<p>No new actions arising from this discussion.</p>

	<p>items relate to developing a new procedure and updating existing procedures.</p> <ul style="list-style-type: none"> <li>• No new decisions or actions were assigned during this meeting. The related improvement items are acknowledged, with status tracked in the internal Action Tracking Log.</li> </ul>	
g.)	<p>Operational performance</p> <ul style="list-style-type: none"> <li>• Reviewed key high-level operational performance indicators for 2025, including MECP inspection results (inspection risk rating), overall treated water production trends, summaries of maintenance activities completed during the reporting year, and a list of system alterations for which the required authorization forms (MECP Form 1 and Form 2) were completed in 2025.</li> <li>• MECP inspection results for the 2025-2026 period were reviewed as a high-level indicator of system performance. The Guelph DWS inspection report remains in draft form, while the Gazer Mooney Subdivision DS received 100% inspection rating, indicating no non-compliances. Inspection ratings reflect how well each system meets regulatory requirements. Any non-compliances identified through the inspection process were discussed under the Incidents of Regulatory Non-compliance section of the Management Review.</li> <li>• Discussed that Water Services continues to hold regular meetings outside of Management Review to review system capacity and performance, with supporting information compiled as need to support operational decision-making.</li> <li>• Reviewed high-level treated water production information for 2025, noting seasonal variability in demand and an approximately 8.6% increase in total production compared to 2024.</li> <li>• Reviewed a summary of maintenance activities completed in 2025, noting the work undertaken to support ongoing system operation.</li> </ul>	No action required.

	<ul style="list-style-type: none"> <li>Reviewed Form 1 and Form 2 records completed in 2025, noting that the associated system modifications may or may not occur in the same year.</li> </ul>	
<p>h.)</p>	<p>Raw water supply and drinking water quality trends</p> <ul style="list-style-type: none"> <li>Reviewed raw water microbiological (e. coli and total coliforms) test results for 2025. All sources had no detections except two (2) Groundwater Under Direct Influence of Surface Water with Effective Filtration (GUDI-WEF) sources where occasional detections are expected and effectively managed through approved treatment.</li> <li>Identified that water quality database alerts are being triggered for non-actional items. <b>See Action Item #1.</b></li> <li>Reviewed incoming raw water turbidity grab sample results for 2025 for F.M. Woods (GUDI-WEF and groundwater sources) and confirmed average values remained consistent with normal operating conditions.</li> <li>Reviewed treated water microbiological (e. coli and total coliforms) results for 2025. No adverse results for treated water. Four (4) adverse test results occurred in distribution samples (addressed under Adverse Test Results section of the Management Review).</li> <li>Reviewed O. Reg. 170/03 Schedule 23 (inorganic) and Schedule 24 (organic) treated water parameters for the Guelph Drinking Water System (2023-2025). All results were below regulatory limits.</li> <li>Reviewed maximum nitrate and nitrite treated water sample results for Guelph Drinking Water System (2023-2025). Results remained consistent and below the regulatory limit.</li> <li>Reviewed 2023-2025 sodium results for all raw water sources. Higher concentrations continue in urban wells compared to rural wells, and while no health-based limit applies, required notifications for treated water results are completed in accordance with O. Reg. 170/03.</li> <li>Reviewed treated water fluoride sample results for the Guelph Drinking Water System from 2014, 2019 and 2024 sampling periods (the last 3 required sampling periods); all results remained below regulatory limits.</li> </ul>	<p><b>Action Item #1:</b> Review alert thresholds in the water quality database to ensure alignment with current operational practices and verify which role is accountable for keeping these thresholds up to date. <b>Responsibility:</b> Supervisor, Compliance <b>Target Date:</b> June 30, 2026</p>

	<ul style="list-style-type: none"> <li>Reviewed the 2025 Lead Reduction Program results, noting sampling showed no health-based exceedance.</li> <li>Treated water for both the Guelph Drinking Water System and Gazer Mooney Subdivision Distribution Systems continued to meet Ontario’s health-based drinking water quality standards. Adverse distribution sample results were appropriately managed, with disinfection maintained and repeat sampling confirming no concerns.</li> </ul>	
i.)	<p>Follow-up action items from previous Management Reviews</p> <ul style="list-style-type: none"> <li>No action items were raised in the previous management review held on February 18, 2025.</li> </ul>	No action required.
j.)	<p>The status of management action items identified between reviews</p> <ul style="list-style-type: none"> <li>26 management items were opened between February 2025-February 2026, and 10 have been closed with none overdue.</li> <li>A backlog of older action items remains, as noted in both internal and external audits.</li> <li>All management action items are logged and tracked in the Continual Improvement Tracker Log.</li> <li>A meeting was held with Compliance to review the open action items and identify which items will be the focus for 2026, as part of ongoing work to clean up and organize the action item backlog.</li> <li>The 2026 focus areas relate to action items supporting improvements in document and records control, essential suppliers/service providers, critical control points/critical control limits, and sampling.</li> </ul>	No new actions arising from this discussion.

<p>k.)</p>	<p>Changes that could affect the drinking water system and the quality management system</p> <ul style="list-style-type: none"> <li>• Discussed that organizational and resource changes, as they occur, may impact QMS roles and responsibilities and will be addressed through updates to relevant QMS documents as needed.</li> <li>• Noted ongoing and planned facility upgrades (e.g., major work at F.M. Woods and Clythe), with related QMS updates to be incorporated as project details and commissioning activities progress.</li> <li>• Acknowledged recent and proposed regulatory and guidance updates relevant to drinking water systems, including:             <ul style="list-style-type: none"> <li>• Drinking Water System Best Management Practices (MECP, October 3, 2025)</li> <li>• Proposed DWQMS Version 3.0 (internal review completed and comments submitted; potential changes expected, including to Element 16)</li> <li>• Director’s Directions for Operational Plans (reviewed outside of the Management Review; no impact to QMS identified)</li> <li>• MECP disinfection procedures (under development through stakeholder consultation, with City staff and other industry representatives participating in the process).</li> <li>• These items may require future QMS updates once finalized.</li> </ul> </li> <li>• Noted new and upcoming licencing and permitting updates (e.g., new MDWL for Gazer Mooney or new PTTW) that may require review and updates to associated QMS documents.</li> <li>• Discussed that updated MECP protocols and sampling/handling guidance may require procedural review and reference updates to ensure continued alignment.</li> <li>• Discussed how some external MECP reference documents stored in Water Services Electronic Document Management System may become outdated when MECP updates them. Management agreed to stop storing these external reference documents in EDMS and instead list where the current</li> </ul>	<p><b>Action Item #2:</b> Update the QMS Document Master List to reference the current locations of external MECP reference documents, remove any external MECP reference documents stored in the document management system, and inform relevant staff of the change.</p> <p><b>Responsibility:</b> Quality Management Specialist.</p> <p><b>Target Date:</b> May 31, 2026</p>
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	<p>versions can be access in the Main Document List. <b>See Action Item #2.</b></p> <ul style="list-style-type: none"> <li>Noted ongoing transition to a new water quality data management system, which will require updates to roles, responsibilities, and relevant QMS procedures as implementation progresses.</li> </ul> <p>Confirmed that the planned routing change for initial customer calls (Service Guelph triage) does not affect current QMS requirements.</p>	
<p>i.)</p>	<p>Consumer Feedback</p> <ul style="list-style-type: none"> <li>Discussed the current process for receiving and managing customer calls and service requests, noting that calls are logged by Business Services and only those requiring operational follow-up result in service requests.</li> <li>Reviewed the 2025 service request summary and identified some service requests remain open administratively even when customer follow-up may have occurred, making resolution status difficult to confirm. <b>See Action Item #3.</b></li> <li>Also noted that reviewing only a single year of service request data limits the ability to identify trends and that presenting multiple years of data would support better analysis during future Management Reviews. <b>See Action Item #4.</b></li> </ul>	<p><b>Action Item #3:</b> Review the service request process and update it based on the short-term solution (ahead of the longer-term Enterprise Asset Management (EAM)).</p> <p><b>Responsibility:</b> Manager, Business Services</p> <p><b>Target Date:</b> June 30, 2026</p> <p><b>Action Item #4:</b> Include multiple years of service request data in the next Management Review to support improved trend analysis.</p> <p><b>Responsibility:</b> Quality Management Specialist (with</p>

		<p>support from Business Services)</p> <p><b>Target Date:</b> January 31, 2027 (aligned with typical annual Management Review schedule)</p>
<p>m.)</p>	<p>Resources needed to the maintain the quality management system</p> <ul style="list-style-type: none"> <li>• Discussed the resources needed to maintain the Quality Management System, noting they remain generally consistent with previous years (e.g., management involvement, trained personnel, operator certification, financial resources, and supporting documentation systems).</li> <li>• Reviewed high-level summary of operator certification, noting continued compliance and recent administrative lessons that will inform ongoing improvements.</li> </ul>	<p>No new actions arose from this discussion.</p>
<p>n.)</p>	<p>Results of the infrastructure review</p> <ul style="list-style-type: none"> <li>• Discussed that Water Services conducts ongoing reviews of both linear and vertical infrastructure required to operate and maintain the Guelph Drinking Water System.</li> <li>• Noted that linear and vertical infrastructure reviews are completed through separate established processes and that the outcomes of these reviews inform recommended needs for inclusion in the City’s budget where applicable.</li> </ul>	<p>No new actions arose from this discussion.</p>

<p>o.)</p>	<p>Operational plan currency, content and updates</p> <ul style="list-style-type: none"> <li>• Noted that Operational Plan remains current, with most recent update completed on August 22, 2025.</li> <li>• Confirmed that existing endorsements by Top Management and system Owners (Council) remain valid.</li> <li>• Discussed that some updates are already planned for the 2026 Operational Plan review, including clarifying when changes require Owner re-endorsement.</li> </ul>	<p>No new actions arising from this discussion.</p>
<p>p.)</p>	<p>Staff suggestions</p> <ul style="list-style-type: none"> <li>• Discussed a staff suggestion raised through the internal audit process that lacked sufficient details for follow-up.</li> <li>• Noted that internal audits are not intended to be used as a channel for staff suggestions and management agreed these types of suggestions should continue to be directed through existing staff-feedback avenues already being reviewed under a current Continual Improvement action.</li> <li>• Management agreed to discontinue collecting staff suggestions through the internal audit process. <b>See Action Item #5.</b></li> </ul>	<p><b>Action Item #5:</b> Update QMS documents to remove reference indicating that staff suggestions may be collected through internal audits. <b>Responsibility:</b> Quality Management Specialist <b>Target Date:</b> May 31, 2026</p>
<p>q.)</p>	<p>Quality Management System (QMS) Policy</p> <ul style="list-style-type: none"> <li>• Noted that Ontario’s Drinking Water Quality Management Standard (DWQMS), Version 3.0 will require the QMS Policy to be reviewed during Management Review.</li> <li>• The policy review was added during the meeting (not on original agenda) but could not be completed due to time constraints.</li> <li>• It will be carried forward to a future meeting or the next Management Review.</li> </ul>	<p>No new actions arising from this meeting.</p>

## **Appendix B: Total Water Pumped and Instantaneous Flows**

This section summarizes the total volume of treated water pumped to the distribution system as well as raw water pumped and corresponding instantaneous flows for all in-service sources in 2025.

Capacity is calculated by comparing the average pumped or flow value against the Municipal Drinking Water Licence (MDWL) allowable volume or Permit to Take Water (PTTW) flow. Capacity is representative of the conditions of pumping for that year which may be influenced by other testing programs, maintenance or special operational conditions. Additionally, the actual capacity of the source may not be achievable due to well performance and/or current infrastructure. Optimization efforts are included as a component of the Water Supply Master Plan, with the intent to match the actual capacity of the water source with the appropriate infrastructure, where possible.

## City of Guelph Water Services – Treated Water Pumpages, January 1, 2025 – December 31, 2025

Table 3 below shows the amount of treated water in cubic metres pumped to the distribution system from each facility in 2025.

**Table 3: Treated Water Pumpages, 2025**

	Facility	Burke	Calico	Dean	Downey	Emma	Helmar	Membro	Paisley Net	Park	Queensdale	University Net	Water Street	F.M. Woods	Total System Discharge
	Units	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>
-	Regulatory Limit	6,546	5,237	2,300	5,237	3,100	3,273	6,050	3,200	10,300	5,273	5,108	3,400	65,000	n/a
Jan	Average	1,868	0	1,239	2,094	1,808	0	2,581	0	5,033	408	1,774	1,361	30,303	48,470
Jan	Maximum	6,301	0	1,269	2,196	2,098	0	2,592	0	7,493	440	2,296	1,471	33,606	54,794
Jan	Total	57,923	0	38,399	64,900	56,039	0	80,015	0	156,025	12,654	54,998	42,204	939,408	1,502,564
Feb	Average	6,281	0	1,128	898	1,814	0	2,585	2	4,471	588	1,773	1,207	28,400	49,146
Feb	Maximum	6,312	0	1,276	2,139	2,038	0	2,592	68	6,200	626	2,273	1,462	31,837	52,498
Feb	Total	175,854	0	31,592	25,145	50,781	0	72,373	68	125,179	16,466	49,648	33,805	795,189	1,376,100
Mar	Average	6,182	0	1,224	0	1,719	0	1,356	2	6,041	650	1,790	1,555	29,578	50,097
Mar	Maximum	6,287	0	1,286	0	1,862	0	2,592	51	8,129	690	2,257	1,913	33,223	53,680
Mar	Total	191,651	0	37,938	0	53,289	0	42,043	51	187,266	20,144	55,501	48,201	916,919	1,553,002
Apr	Average	6,268	0	1,263	0	1,829	0	0	0	5,379	660	2,276	1,870	28,810	48,354
Apr	Maximum	6,303	0	1,325	0	2,017	0	0	0	7,457	707	2,514	2,000	31,380	52,650
Apr	Total	188,042	0	37,896	0	54,857	0	0	0	161,361	19,789	68,288	56,091	864,285	1,450,610
May	Average	6,259	0	1,250	10	1,801	0	3,296	450	4,382	629	2,267	1,449	26,572	48,362
May	Maximum	6,290	0	1,325	119	2,031	0	4,320	898	6,790	689	2,525	1,919	30,043	53,108
May	Total	194,038	0	38,747	229	55,824	0	102,165	13,936	135,845	19,513	70,290	44,912	823,734	1,499,232
Jun	Average	6,287	0	1,250	3,486	2,088	0	3,664	849	2,877	598	2,256	1,530	27,128	52,013
Jun	Maximum	6,301	0	1,352	4,321	2,472	0	3,888	898	3,712	710	2,503	1,796	36,714	62,738

	<b>Facility Units Regulator y Limit</b>	<b>Burke m<sup>3</sup> 6,546</b>	<b>Calico m<sup>3</sup> 5,237</b>	<b>Dean m<sup>3</sup> 2,300</b>	<b>Downey m<sup>3</sup> 5,237</b>	<b>Emma m<sup>3</sup> 3,100</b>	<b>Helmar m<sup>3</sup> 3,273</b>	<b>Membro m<sup>3</sup> 6,050</b>	<b>Paisley Net m<sup>3</sup> 3,200</b>	<b>Park m<sup>3</sup> 10,300</b>	<b>Queensdale m<sup>3</sup> 5,273</b>	<b>University Net m<sup>3</sup> 5,108</b>	<b>Water Street m<sup>3</sup> 3,400</b>	<b>F.M. Woods m<sup>3</sup> 65,000</b>	<b>Total System Discharge m<sup>3</sup> n/a</b>
Jun	Total	188,613	0	37,495	104,593	62,650	0	109,915	25,457	86,300	17,926	67,686	45,913	813,849	1,560,398
Jul	Average	6,278	0	1,324	4,737	2,298	0	3,451	854	3,261	604	2,178	1,817	25,618	52,419
Jul	Maximum	6,301	0	1,358	4,830	2,524	0	3,542	897	9,601	700	2,454	1,886	32,541	59,621
Jul	Total	194,608	0	41,046	146,842	71,227	0	106,966	26,472	101,089	18,725	67,523	56,333	794,163	1,624,995
Aug	Average	6,270	0	1,324	4,782	2,412	0	3,256	889	2,695	500	2,255	1,803	24,767	50,953
Aug	Maximum	6,301	0	1,353	4,825	2,511	0	3,407	901	3,347	695	2,467	1,845	32,003	59,441
Aug	Total	194,357	0	41,057	148,240	74,776	0	100,922	27,562	83,540	15,493	69,920	55,896	767,791	1,579,555
Sep	Average	6,263	0	1,208	4,806	2,060	0	3,130	873	2,041	334	2,189	1,735	26,558	51,195
Sep	Maximum	6,304	0	1,272	4,826	2,453	0	3,197	898	2,641	368	2,434	1,818	31,139	55,797
Sep	Total	187,886	0	36,231	144,175	61,807	0	93,888	26,185	61,230	10,024	65,657	52,041	796,741	1,535,865
Oct	Average	6,174	0	1,264	4,794	2,100	0	3,067	880	2,220	331	1,920	1,769	24,389	48,907
Oct	Maximum	6,303	0	1,315	4,811	2,274	0	3,110	901	2,610	362	2,415	1,856	29,226	54,461
Oct	Total	191,381	0	39,178	148,618	65,108	0	95,063	27,281	68,805	10,252	59,527	54,851	756,044	1,516,109
Nov	Average	5,874	0	1,265	4,263	2,067	0	2,888	857	2,230	289	1,825	1,751	24,470	47,781
Nov	Maximum	6,410	0	1,362	4,811	2,227	0	3,060	939	2,611	341	2,063	1,837	28,646	51,283
Nov	Total	176,233	0	37,955	127,904	62,021	0	86,635	25,717	66,899	8,658	54,751	52,527	734,114	1,433,415
Dec	Average	5,996	0	1,294	4,252	2,197	0	2,644	822	2,376	297	1,747	1,032	22,444	45,102
Dec	Maximum	6,252	0	1,325	4,806	2,560	0	2,765	902	4,290	333	2,069	1,777	26,507	51,107
Dec	Total	185,880	0	40,101	131,808	68,108	0	81,960	25,493	73,654	9,216	54,167	31,992	695,779	1,398,159
2025	Average	5,833	0	1,253	2,844	2,016	0	2,660	540	3,584	491	2,021	1,573	26,587	49,397

	Facility Units	Burke	Calico	Dean	Downey	Emma	Helmar	Membro	Paisley Net	Park	Queensdale	University Net	Water Street	F.M. Woods	Total System Discharge
-	Regulatory Limit	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>
-	Regulatory Limit	6,546	5,237	2,300	5,237	3,100	3,273	6,050	3,200	10,300	5,273	5,108	3,400	65,000	n/a
2025	Maximum	6,410	0	1,362	4,830	2,560	0	4,320	939	9,601	710	2,525	2,000	36,714	62,738
2025	Total	2,126,467	0	457,635	1,042,454	736,488	0	971,946	198,224	1,307,193	178,860	737,956	574,766	9,698,016	18,030,005
-	Average Process Capacity	89%	0%	55%	55%	65%	0%	44%	17%	35%	9%	61%	46%	41%	n/a

**City of Guelph Water Services – Permit-to-Take-Water Raw Pumpages, January 1, 2025 – December 31, 2025**

Table 4 and Table 5 presented below, outline the Permit to Take Water Pumpages for 2025. Table 4 includes the following sources: Arkell Well 1, Arkell Well 6, Arkell Well 7, Arkell Well 8, Arkell Well 14, Arkell Well 15, Arkell Recharge Pump, Arkell Springs Glen Collector System, Burke Well, Calico Well, and Carter Well 1 and 2. Table 5 includes the following sources: Dean Well, Downey Well, Emma Well, Helmar Well, Membro Well, Paisley Well, Park Wells 1 and 2, Queensdale Well, University Well and Water Street Well.

**Table 4: Permit-To-Take-Water Raw Pumpages, 2025**

	Facility Units	Arkell Well #1 m <sup>3</sup>	Arkell Well #6 m <sup>3</sup>	Arkell Well #7 m <sup>3</sup>	Arkell Well #8 m <sup>3</sup>	Arkell Well #14 m <sup>3</sup>	Arkell Well #15 m <sup>3</sup>	Arkell Wellfield (#6, 7, 8, 14, 15) Total m <sup>3</sup>	Arkell - Recharge Pump m <sup>3</sup>	Arkell Springs Glen Collector System m <sup>3</sup>	Burke Well m <sup>3</sup>	Calico Well m <sup>3</sup>	Carter Wells #1 & #2 m <sup>3</sup>
-	<b>Regulatory limit</b>	<b>3,273</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>28,800</b>	<b>9,092</b>	<b>25,000</b>	<b>6,546</b>	<b>5,237</b>	<b>6,547</b>
Jan	Average	0	7,167	6,723	5,354	3,285	2,741	25,270	0	5,204	1,973	0	0
Jan	Maximum	0	7,585	7,484	7,355	6,607	5,907	28,375	0	5,550	6,456	0	0
Jan	Total	0	222,169	208,426	165,970	101,839	84,957	783,362	1	161,322	61,158	0	0
Feb	Average	0	6,791	6,400	3,078	3,222	4,455	23,947	0	4,668	6,440	0	0
Feb	Maximum	0	7,279	7,426	7,360	5,950	5,676	27,574	0	4,888	6,456	0	0
Feb	Total	0	190,162	179,206	86,176	90,225	124,743	670,512	1	130,708	180,316	0	0
Mar	Average	0	6,557	6,237	4,760	1,610	4,201	23,366	0	4,587	6,339	0	2,122
Mar	Maximum	0	7,515	7,461	7,726	5,167	5,489	27,647	0	4,838	6,440	0	4,974
Mar	Total	0	203,263	193,342	147,575	49,912	130,246	724,338	0	142,202	196,507	0	65,785
Apr	Average	0	7,106	5,227	1,856	1,215	3,221	18,625	4,068	6,814	6,419	0	3,755
Apr	Maximum	0	7,725	6,940	7,773	4,385	5,796	23,143	8,622	9,170	6,437	0	4,594
Apr	Total	0	213,180	156,814	55,676	36,449	96,642	558,763	122,048	204,421	192,563	0	112,645
May	Average	0	6,218	4,816	668	458	1,674	13,833	8,361	11,350	6,416	0	1,529
May	Maximum	0	7,770	8,085	2,713	1,311	5,450	17,252	8,638	12,470	6,437	0	2,857
May	Total	0	192,752	149,293	20,698	14,183	51,901	428,826	259,181	351,844	198,903	0	47,400

	Facility Units	Arkell Well #1 m <sup>3</sup>	Arkell Well #6 m <sup>3</sup>	Arkell Well #7 m <sup>3</sup>	Arkell Well #8 m <sup>3</sup>	Arkell Well #14 m <sup>3</sup>	Arkell Well #15 m <sup>3</sup>	Arkell Wellfield (#6, 7, 8, 14, 15) Total m <sup>3</sup>	Arkell - Recharge Pump m <sup>3</sup>	Arkell Springs Glen Collector System m <sup>3</sup>	Burke Well m <sup>3</sup>	Calico Well m <sup>3</sup>	Carter Wells #1 & #2 m <sup>3</sup>
-	<b>Regulatory limit</b>	<b>3,273</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>28,800</b>	<b>9,092</b>	<b>25,000</b>	<b>6,546</b>	<b>5,237</b>	<b>6,547</b>
Jun	Average	0	7,470	4,293	534	720	901	13,919	7,935	12,413	6,432	0	1,486
Jun	Maximum	0	7,765	7,847	2,870	4,641	2,900	24,059	8,231	12,524	6,439	0	3,752
Jun	Total	0	224,101	128,804	16,014	21,606	27,035	417,559	238,055	372,396	192,970	0	44,569
Jul	Average	0	5,017	5,682	433	716	1,104	12,952	7,681	12,027	6,427	0	1,397
Jul	Maximum	0	7,713	8,088	1,539	4,078	5,064	23,536	7,761	12,539	6,439	0	3,862
Jul	Total	0	155,530	176,138	13,419	22,201	34,214	401,501	238,117	372,832	199,225	0	43,311
Aug	Average	0	3,563	7,952	366	763	1,989	14,634	4,449	8,930	6,415	0	1,718
Aug	Maximum	0	7,102	8,086	2,987	4,318	5,048	22,043	7,709	11,298	6,439	0	3,532
Aug	Total	0	110,464	246,509	11,346	23,653	61,673	453,646	137,913	276,842	198,875	0	53,268
Sep	Average	0	3,847	7,278	1,164	1,476	2,281	16,045	4,343	8,753	6,412	0	2,030
Sep	Maximum	0	7,564	8,067	4,058	4,578	5,033	21,063	7,726	10,774	6,456	0	3,183
Sep	Total	0	115,416	218,331	34,925	44,265	68,423	481,360	130,298	262,586	192,370	0	60,895
Oct	Average	0	3,839	7,200	372	1,321	2,265	14,996	4,144	7,858	6,315	0	1,716
Oct	Maximum	0	7,458	8,057	3,723	4,340	4,990	19,075	7,791	9,758	6,436	0	2,859
Oct	Total	0	119,004	223,190	11,524	40,956	70,206	464,880	128,451	243,611	195,780	0	53,194
Nov	Average	0	3,007	6,661	1,868	2,041	3,074	16,651	3,682	8,043	6,033	0	266

	Facility Units	Arkell Well #1 m <sup>3</sup>	Arkell Well #6 m <sup>3</sup>	Arkell Well #7 m <sup>3</sup>	Arkell Well #8 m <sup>3</sup>	Arkell Well #14 m <sup>3</sup>	Arkell Well #15 m <sup>3</sup>	Arkell Wellfield (#6, 7, 8, 14, 15) Total m <sup>3</sup>	Arkell - Recharge Pump m <sup>3</sup>	Arkell Springs Glen Collector System m <sup>3</sup>	Burke Well m <sup>3</sup>	Calico Well m <sup>3</sup>	Carter Wells #1 & #2 m <sup>3</sup>
-	<b>Regulatory limit</b>	<b>3,273</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>9,600</b>	<b>28,800</b>	<b>9,092</b>	<b>25,000</b>	<b>6,546</b>	<b>5,237</b>	<b>6,547</b>
Nov	Maximum	0	6,107	7,952	7,808	4,518	4,978	21,310	8,031	10,214	6,547 <sup>8</sup>	0	2,086
Nov	Total	0	90,202	199,821	56,050	61,226	92,223	499,522	110,463	241,298	180,998	0	7,969
Dec	Average	0	4,185	7,557	2,219	1,390	2,978	18,328	0	4,799	6,129	0	0
Dec	Maximum	0	7,101	7,957	5,248	5,628	4,589	24,612	0	5,478	6,397	0	0
Dec	Total	0	129,726	234,261	68,782	43,083	92,320	568,172	1	148,761	189,995	0	0
2025	Average	0	5,386	6,340	1,885	1,506	2,560	17,678	3,738	7,969	5,972	0	1,340
2025	Maximum	0	7,770	8,088	7,808	6,607	5,907	28,375	8,638	12,539	6,547	0	4,974
2025	Total	0	1,965,970	2,314,135	688,155	549,598	934,582	6,452,441	1,364,530	2,908,821	2,179,661	0	489,037
-	Average Pumped	0%	56%	66%	20%	16%	27%	61%	41%	32%	91%	0%	20%

<sup>8</sup> SCADA reporting indicated that water takings on November 2, 2025 exceeded the daily limit of 6,546m<sup>3</sup> by 1m<sup>3</sup>. Upon further investigation, it was confirmed that Daylight Savings time ended on November 2, 2025. This resulted in the system reporting water takings for a 25-hour period, with readings for 1am being taken twice to account for the additional hour. Water takings did not exceed the 6,546m<sup>3</sup> limit in any 24-hour period on November 2, 2025. The situation was reported to the MECP Guelph District Office and Water Taking Reporting System (WTRS) Help Desk and both agencies confirmed that the reported 1m<sup>3</sup>/d water taking exceedance did not result in a non-compliance.

**Table 5: Permit-to-Take-Water Raw Pumpages, 2025**

	<b>Facility</b>										
	<b>Units</b>	<b>Dean Well</b>	<b>Downey Well</b>	<b>Emma Well</b>	<b>Helmar Well</b>	<b>Membro Well</b>	<b>Paisley Well</b>	<b>Park Wells #1 and #2</b>	<b>Queensdale Well</b>	<b>University Well</b>	<b>Water Street Well</b>
	<b>Regulatory limit per day</b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>
		<b>2,300</b>	<b>5,273</b>	<b>3,100</b>	<b>3,273</b>	<b>6,050</b>	<b>3,200</b>	<b>10,300</b>	<b>5,237</b>	<b>3,300</b>	<b>3,400</b>
Jan	Average	1,249	2,151	1,808	0	2,549	1	4,963	420	1,774	1,361
Jan	Maximum	1,293	2,250	2,098	0	2,561	38	7,394	499	2,296	1,471
Jan	Total	38,714	66,692	56,039	0	79,008	38	153,849	13,032	54,998	42,204
Feb	Average	1,137	923	1,814	0	2,552	6	4,390	609	1,773	1,207
Feb	Maximum	1,294	2,190	2,038	0	2,558	90	5,920	698	2,273	1,462
Feb	Total	31,833	25,841	50,781	0	71,443	158	122,932	17,046	49,648	33,805
Mar	Average	1,231	0	1,719	0	1,345	2	5,967	667	1,790	1,555
Mar	Maximum	1,300	0	1,862	0	2,559	51	8,008	748	2,257	1,913
Mar	Total	38,160	0	53,289	0	41,708	56	184,974	20,663	55,501	48,201
Apr	Average	1,274	0	1,829	0	9	0	5,301	674	2,276	1,870
Apr	Maximum	1,339	0	2,017	0	284	0	7,353	759	2,514	2,000
Apr	Total	38,231	0	54,857	0	284	0	159,039	20,221	68,288	56,091
May	Average	1,263	16	1,801	0	3,201	450	4,318	647	2,267	1,449
May	Maximum	1,338	132	2,031	0	4,183	898	6,682	756	2,525	1,919
May	Total	39,152	364	55,824	0	99,242	13,946	133,846	20,045	70,290	44,912
Jun	Average	1,261	3,600	2,088	0	3,561	849	2,838	606	2,256	1,530
Jun	Maximum	1,367	4,467	2,472	0	3,772	898	3,668	768	2,503	1,796
Jun	Total	37,820	107,996	62,650	0	106,843	25,457	85,130	18,175	67,686	45,913
Jul	Average	1,335	4,896	2,298	0	3,354	854	3,215	584	2,178	1,817
Jul	Maximum	1,392	4,996	2,524	0	3,445	897	9,445	722	2,454	1,886
Jul	Total	41,380	151,782	71,227	0	103,985	26,472	99,658	18,095	67,523	56,333
Aug	Average	1,335	4,944	2,412	0	3,166	889	2,659	440	2,255	1,803
Aug	Maximum	1,379	4,989	2,511	0	3,310	901	3,304	674	2,467	1,845

	<b>Facility</b>										
	<b>Units</b>	<b>Dean Well</b>	<b>Downey Well</b>	<b>Emma Well</b>	<b>Helmar Well</b>	<b>Membro Well</b>	<b>Paisley Well</b>	<b>Park Wells #1 and #2</b>	<b>Queensdale Well</b>	<b>University Well</b>	<b>Water Street Well</b>
	<b>Regulatory limit per day</b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>	<b>m<sup>3</sup></b>
		<b>2,300</b>	<b>5,273</b>	<b>3,100</b>	<b>3,273</b>	<b>6,050</b>	<b>3,200</b>	<b>10,300</b>	<b>5,237</b>	<b>3,300</b>	<b>3,400</b>
Aug	Total	41,390	153,274	74,776	0	98,148	27,562	82,422	13,654	69,920	55,896
Sep	Average	1,220	4,973	2,060	0	3,040	873	1,981	346	2,189	1,735
Sep	Maximum	1,285	4,992	2,453	0	3,107	898	2,608	398	2,434	1,818
Sep	Total	36,595	149,187	61,807	0	91,192	26,185	59,440	10,395	65,657	52,041
Oct	Average	1,279	4,964	2,100	0	2,983	880	2,239	341	1,920	1,769
Oct	Maximum	1,338	4,980	2,274	0	3,034	901	2,653	411	2,415	1,856
Oct	Total	39,643	153,879	65,108	0	92,484	27,281	69,416	10,556	59,527	54,851
Nov	Average	1,280	4,417	2,067	0	2,823	857	2,251	301	1,825	1,751
Nov	Maximum	1,376	4,984	2,227	0	2,988	939	2,613	391	2,063	1,837
Nov	Total	38,401	132,523	62,021	0	84,698	25,717	67,523	9,023	54,751	52,527
Dec	Average	1,310	4,407	2,197	0	2,599	822	2,396	308	1,747	1,032
Dec	Maximum	1,365	4,981	2,560	0	2,709	902	4,206	407	2,069	1,777
Dec	Total	40,622	136,625	68,108	0	80,567	25,493	74,281	9,551	54,167	31,992
2025	Average	1,266	3,020	2,018	0	2,602	543	3,541	494	2,022	1,575
2025	Maximum	1,392	4,996	2,560	0	4,183	939	9,445	768	2,525	2,000
2025	Total	461,940	1,078,164	736,488	0	949,603	198,367	1,292,509	180,456	737,956	574,766
	Average Pumped	55%	56%	65%	0%	43%	17%	34%	9%	61%	46%

**City of Guelph Water Services – Permit-to-Take-Water Instantaneous Flows, January 1, 2025 – December 31, 2025**

Table 6 and Table 7 presented below, outline the Instantaneous Flow Summary for 2025. Table 6 includes the following sources: Arkell Well 1, Arkell Well 6, Arkell Well 7, Arkell Well 8, Arkell Well 14, Arkell Well 15, Arkell Recharge Pump, Arkell Springs Glen Collector System, Burke Well, Calico Well, Carter Wells 1 and 2. Table 7 includes the following sources: Dean Well, Downey Well, Emma Well, Helmar Well, Membro Well, Paisley Well, Park Wells 1 and 2, Queensdale Well, University Well and Water Street Well.

**Table 6: Permit-to-Take-Water Instantaneous Flows, 2025**

	Facility	Arkell Well #1	Arkell Well #6	Arkell Well #7	Arkell Well #8	Arkell Well #14	Arkell Well #15	Arkell - Recharge System	Arkell Springs Glen Collector System	Burke Well	Calico Well	Carter Wells
	Units	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s
-	Regulatory limit	37.9	111	111	111	111	111	157.8	290	75.8	60.6	75.8
Jan	Average	0	82.9	78	61.8	38.1	31.7	0	60.2	22.8	0	0
-	Maximum	0	92.2	94	90	87.6	78.2	0	65.8	75.1	0	0
Feb	Average	0	78.6	74.2	35.5	37.3	51.6	0	53.3	74.5	0	0
-	Maximum	0	88.1	93	88.3	87.1	80.5	0	58	75.4	0	0
Mar	Average	0	76	72.4	55	18.7	48.7	0	50.4	73.4	0	25.1
-	Maximum	0	89.8	94.6	92.7	88.7	83.3	0	57.3	75.2	0	60.3
Apr	Average	0	82.2	59.9	21.5	14.1	37.3	50.4	75.9	74.3	0	44.4
-	Maximum	0	91.2	95.8	93	91.7	86.2	111.8	108.9	75.2	0	61.4
May	Average	0	72	55.5	7.7	5.3	19.4	96.6	131.3	74.242	0	18
-	Maximum	0	90.6	95.3	93.3	90.3	84.7	100.3	221.8	75.165	0	59.6

	Facility	Arkell Well #1	Arkell Well #6	Arkell Well #7	Arkell Well #8	Arkell Well #14	Arkell Well #15	Arkell - Recharge System	Arkell Springs Glen Collector System	Burke Well	Calico Well	Carter Wells
	Units	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s
-	Regulatory limit	37.9	111	111	111	111	111	157.8	290	75.8	60.6	75.8
Jun	Average	0	86.5	49.7	6.2	8.3	10.4	91.7	137.7	74.427	0	17.4
-	Maximum	0	90.2	95.1	92.1	89.8	84	95.5	149.2	75.198	0	59.3
Jul	Average	0	58.1	65.5	5	8.3	12.8	88.9	133.2	74.4	0	16.3
-	Maximum	0	90.1	95	92.6	89.9	83.6	89.8	148.9	75.2	0	60.7
Aug	Average	0	41.3	91.6	4.2	8.9	23	51.5	99.9	74.2	0	20
-	Maximum	0	100	93.3	91.2	88.6	82.8	89.5	133.3	75.2	0	59.2
Sep	Average	0	44.5	84.1	13.5	17.1	26.4	50.3	100.2	74.2	0	24
-	Maximum	0	88.9	94.3	100	89.4	82.7	89.9	127.4	75.2	0	59.4
Oct	Average	0	44.4	87	4.3	15.3	26.3	47.9	90.8	73.1	0	20.2
-	Maximum	0	100	95.2	100	87.8	82.2	90.7	115.8	75.3	0	75
Nov	Average	0	34.8	77	21.6	23.6	35.6	39.5	89.6	69.7	0	3.1
-	Maximum	0	88.8	95.6	100	88.7	82.5	89.6	117.3	77.7	0	58.3
Dec	Average	0	48.4	87.6	25.6	16.1	34.5	0	49.6	70.9	0	0

	Facility	Arkell Well #1	Arkell Well #6	Arkell Well #7	Arkell Well #8	Arkell Well #14	Arkell Well #15	Arkell - Recharge System	Arkell Springs Glen Collector System	Burke Well	Calico Well	Carter Wells
	<b>Units</b>	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s
	<b>Regulatory limit</b>	<b>37.9</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>157.8</b>	<b>290</b>	<b>75.8</b>	<b>60.6</b>	<b>75.8</b>
-	Maximum	0	87.8	93.9	100	89.5	81.6	0	133.8	75.5	0	0

Table 7: City of Guelph - Instantaneous Flow Summary, 2025

	Facility	Dean Well	Downey Well	Emma Well	Helmar Well	Membro Well	Paisley Well	Park Wells	Queensdale Well	University Well	Water Street Well
-	Units	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s
	Regulatory limit	34.6	60.6	40.9	37.9	78	42.5	127.2	60.6	46.2	44.4
Jan	Average	15.3	25.8	25.4	0	29.5	0.0	63.0	5.5	20.5	16.4
-	Maximum	19.1	27.2	31.1	0	57.9	24.0	122.7	11.9	28.5	24.7
Feb	Average	14.0	11.0	25.8	0	29.5	0.1	55.3	7.7	20.5	15.1
-	Maximum	20.0	26.0	29.8	0	57.8	23.5	119.4	11.8	28.1	24.5
Mar	Average	15.3	0.0	24.5	0	15.6	0.0	75.6	8.5	20.7	19.6
-	Maximum	18.3	0.0	28.8	0	54.2	10.1	114.7	11.2	28.3	27.5
Apr	Average	15.8	0.0	25.8	0	0.1	0.0	68.9	8.5	26.4	23.2
-	Maximum	18.1	0.0	29.6	0	50.0	0.0	119.3	10.7	29.7	30.2
May	Average	15.8	0.2	25.8	0	37.1	5.2	55.3	8.3	26.3	18
-	Maximum	17.8	52.3	29.7	0	62.2	20.1	120.5	10.3	29.9	26.5
Jun	Average	15.7	41.7	27.3	0	41.2	9.8	35.2	7.7	26.1	18.5
-	Maximum	18.6	59.0	30.2	0	56.8	16.2	121.0	10.2	29.7	25.1
Jul	Average	15.6	56.7	26.7	0	38.8	9.9	37.5	6.8	25.2	16.6

	Facility	Dean Well	Downey Well	Emma Well	Helmar Well	Membro Well	Paisley Well	Park Wells	Queensdale Well	University Well	Water Street Well
-	<b>Units</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>	<b>L/s</b>
	<b>Regulatory limit</b>	<b>34.6</b>	<b>60.6</b>	<b>40.9</b>	<b>37.9</b>	<b>78</b>	<b>42.5</b>	<b>127.2</b>	<b>60.6</b>	<b>46.2</b>	<b>44.4</b>
-	Maximum	18.5	59.3	30.7	0	58.0	15.3	122.2	12.5	29.2	26.2
Aug	Average	15.6	57.2	28.0	0	36.6	10.3	30.8	5.1	26.1	21
-	Maximum	18.0	59.2	30.4	0	58.9	10.5	121.9	11.6	29.2	25.4
Sep	Average	15.5	57.6	28.5	0	35.2	10.1	24.3	4.3	25.3	20.9
-	Maximum	18.1	59.2	30.9	0	59.4	14.8	123.0	12.8	28.8	27.2
Oct	Average	15.6	57.5	28.3	0	34.5	10.2	27.8	4.4	22.2	21.4
-	Maximum	18.2	59.2	30.8	0	60.0	12.3	116.3	13.2	28.6	26
Nov	Average	15.3	51.1	28.2	0	32.6	9.9	27.3	3.9	21.1	21.2
-	Maximum	18.4	59.0	30.6	0	58.9	14.3	115.0	13.3	24.4	25.7
Dec	Average	15.6	51.0	28.0	0	30.1	9.5	28.8	3.9	20.2	12.6
-	Maximum	18.2	59.3	30.5	0	55.6	11.9	116.6	13.5	24.6	26.4