



CLEARVIEW
TOWNSHIP



Buckingham Woods 2025 Drinking Water Compliance Report

Period Covering: January 1 to December 31, 2025

Annual and Municipal Summary Reports

(Prepared in accordance with Section 11 and Schedule 22 of Ontario Regulation 170/03)

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INTRODUCTION

This report has been prepared by the Township of Clearview to satisfy the requirements of Section 11: Annual Report and Schedule 22: Summary Reports for Municipalities of Ontario Regulation 170/03 (O. Reg 170/03).

The report covers the period from January 1 to December 31, 2025, for the following municipally owned and operated drinking water system:

- Buckingham Woods Drinking Water System

Drinking Water System Information

Drinking Water System Number:	250001420
Drinking Water System Category:	Small Municipal Residential
Drinking Water System Classification:	Water Supply and Distribution Class 1
Municipal Drinking Water Licence Number:	099-104, Issued June 11, 2025
Drinking Water Works Permit Number:	099-204, Issued June 11, 2025
Permit to Take Water:	P-300-9059763831, Issued January 11, 2020

Report Content

Under Section 11 of O. Reg 170/03, the Owner of a drinking water system is required to prepare an annual report covering the period of January 1 to December 31 by February 28th of the following year.

The annual report must contain the following information:

- A brief description of the drinking water system, including a list of water treatment chemicals used.
- A summary of any reports made to the Ministry of Environment, Conservation and Parks (MECP) pertaining to Adverse Water Quality Incidents (AWQI).
- A summary of test results required under O. Reg. 170/03, or by an approval, the municipal drinking water licence or an order, including an Ontario Water Resources Act order, if tests were not required during this period, a summary of the most recent test results.
- A description of corrective actions taken in accordance with Schedule 17 or 18 of O. Reg. 170/03.
- A description of any major expenses incurred to install, repair or replaced required equipment.
- A statement of where a report prepared under Schedule 22 will be available for inspection by the public, without charge.

Schedule 22 of O. Reg 170/03 requires that an Annual Summary Report for Municipalities be provided to Council by March 31st each year. The report summarizes at a high level, the regulatory activity of the drinking water system for the preceding year. It must contain the following information:

- List of requirements of the Act, regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report and specify the duration of the failure and describe the measures taken to correct the failure.
- A summary of quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- A comparison of the summary of quantities and flow rates to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence.

Report Format

This report provides details on measures taken by staff to ensure compliance with Terms and Conditions of the control documents, Act, Regulations, or any orders the system may have been under during the reporting period.

Rated capacities and flows approved in the system's certificates are summarized. There are discrepancies between the capacities allowed in some control documents. Exceeding the Drinking Water Licence or Permit to Take Water flow rates can be considered a contravention of legislation. For this reason, we strive to keep the flow rates below the lower of the control document limits.

A summary of quantities and flow rates including monthly averages and maximum daily flows are included. This flow comparison is to allow for a basic overview of the system's performance and allows for review and planning of possible future expansions if required. The actual pumping capacity has been used to calculate the percentage of overall capacity because in some cases actual capacity has decreased over time and is not represented realistically by the system control documents.

Report Availability

In accordance with Section 11 of O. Reg. 170/03, a copy of the report is available to the public, free of charge, at the following locations:

- Township of Clearview's website www.clearview.ca

- By request at the Township Administration Building, located at 217 Gideon St., Stayner.
- By request at the Township Public Works Building, located at 5833 County Road 96, Stayner.

The public is advised of the report's availability, without charge, and how a copy may be obtained via local newspaper ads, the Township of Clearview's website and social media feeds by February 28th.

QUALITY MANAGEMENT SYSTEM

Quality Management System Policy

Township of Clearview Water Department Quality Management System Policy Statement

It is Clearview Township's aim to ensure safe drinking water to the end user within all Township - operated water systems. Through this policy the Township commits to follow all applicable legislation & regulations that are associated with the safety and the delivery of Drinking Water. Through maintenance and continual improvement to the Quality Management System the Township is identifying, measuring, controlling and improving the various core water works processes that will ultimately lead to improved water works performance.

Quality Management System Summary

Clearview's Quality Management System (QMS) is legislated under the Drinking Water Quality Management Standard (DWQMS) through the Safe Drinking Water Act. It utilizes a set of coordinated activities to direct and control the department to continually improve the effectiveness of its performance.

The annual Management Review meeting was held to evaluate the continuing suitability, adequacy, and effectiveness of the QMS. The meeting occurred on February 26, 2025, and a subsequent report to council was prepared and submitted for information.

Internal audits were conducted by trained waterworks employees to ensure that the QMS conforms to the requirements of the Township's Operational Plan and the DWQMS. These requirements include ensuring that the QMS has been effectively implemented and properly maintained. The 2025 audit was conducted on February 25th, February 27th, and March 13th, 2025. Five Opportunities for Improvement (OFI) were noted in the report.

Since 2012, Intertek - SAI Global has been retained to provide external auditing services of the DWQMS for Clearview. Having successfully passed a re-accreditation audit in 2023, and a subsequent 12 month Surveillance in 2024, a new external audit cycle began in 2025 with an additional 12 Month Surveillance Audit. The audit for the six drinking water systems was completed on April 4, 2025, with no OFIs or corrective action requirements being noted in the 11-page report. The purpose of this audit was to determine whether the drinking water QMS conforms to the requirements of the DWQMS Version 2, that it has been effectively implemented and maintained, and that accreditation can continue to be offered to the Township as the operating authority for the drinking water systems. The result was that The Corporation of the Township of Clearview's QMS is considered effectively implemented and meets all the requirements of the standard relative to the scope of certification and it was recommended that certification as an operating authority be continued. The current Certificate of Registration for conforming with the requirements of Drinking Water Quality Management Standard Version 2 – 2017 was issued to the Township on November 3, 2023 and is considered still valid.

The Safe Drinking Water Act and regulations call for water works owners to continually monitor water works performance, and review levels of treatment versus current standards. The public expects that responsible owners will be diligent in their duty to care for public water supplies.

Section 19 of the Safe Drinking Water Act (Standard of Care) became effective December 31, 2012. After election of a new Council, members are invited to attend a facilitated training session to understand their responsibilities under the Act. This was conducted at a Special Council Meeting on March 16, 2023, with the Walkerton Clean Water Centre presenting their Responsibilities Under the Statutory Standard of Care – Safe Drinking Water Act course.

The Township is well organized to manage the water works system. Further, staff have been proactive to ensure all necessary measures are taken to achieve compliance with Regulations and various control documents.

BUCKINGHAM WOODS DRINKING WATER SYSTEM

System Description

The Buckingham Woods Drinking Water System is located at 1254 County Road 32 in the northwest corner of the Township. The facility is owned and operated by the Corporation of the Township of Clearview in accordance with the licence and permits issued by the Ontario Ministry of Environment, Conservation and Parks (MECP) and all other applicable legislation.



Source water for the Buckingham Woods drinking water system is provided from three groundwater wells (only two of which are currently in use). Water is drawn from the wells and transported to the pumphouse where it is treated with sodium hypochlorite for primary and secondary disinfection. Sodium silicate is also added to the water for iron sequestering. It is then stored in an approx. 100 m³ two-celled underground concrete water storage reservoir. Three high lift pumps provide the distribution system with water from the reservoir, based on system demand. The distribution system is comprised of approx. 2.3 km of various sized watermain, with 13 fire hydrants for flushing purposes. This system does not support fire protection. At the end of 2025, there were 54 active service connections translating to an approx. population of 150 people. When full buildout of the subdivision is complete, 62 residential properties will be served by the water system.

A computerized Supervisory Control and Data Acquisition (SCADA) system is used to continuously monitor the drinking water system and alert a certified operator should it detect a potential problem. A 35 kW standby generator provides backup power to the pumphouse and treatment equipment in the event of a power failure.

Water Treatment Chemicals

Chemicals used for drinking water treatment include:

- 12% Sodium Hypochlorite
- Sodium Silicate

Major Expenses Incurred within the Drinking Water System

- Well # 1 ASCO valve replacement - \$800
- Well # 3 ASCO valve replacement - \$1,500
- Treated Water Chlorine Analyzer - \$10,000

OPERATIONAL CHECKS, SAMPLING AND TESTING

All operational checks and sampling were conducted at the required frequency and locations as per Schedule 6 of O. Reg. 170/03 during the reporting period. All samples were collected by certified operators and analysis performed by accredited laboratories. No additional testing and sampling were necessary due to any requirements of an approval, order, or other legal instrument.

Operational Checks

Operational checks including, treated water and distribution water free chlorine residuals, as well as source water raw turbidity are required under Schedule 7 of O. Reg. 170/03. Raw water turbidity samples are collected and analyzed monthly from each production well. The free chlorine residual in the treated water leaving the pumphouse is continuously monitored by an online analyzer connected to the SCADA system for data logging and alarming. Grab samples from various locations in the distribution system are collected twice a week and analyzed for free chlorine. Table 1 below summarizes the results for the reporting period.

Table 1: Schedule 7 Operational Checks Summary

Parameter	Number of Samples	Min.	Max.	Unit
Raw Turbidity – Well # 1	12	0.25	1.41	NTU
Raw Turbidity – Well # 3	12	0.19	1.26	NTU
Treated Water Free Chlorine	8760*	0.39	1.98	mg/L
Distribution Water Free Chlorine	105	0.40	0.97	mg/L

*8760 is the number used for continuous monitoring equipment.

Microbiological Testing

Microbiological testing of raw source water and distribution water samples is required by Schedule 11 of O. Reg. 170/03 for small municipal residential drinking water systems. Raw water samples from each production well are collected monthly, while distribution samples are collected on a weekly basis. Laboratory results for all samples analyzed for E. coli, Total Coliforms, Background and Heterotrophic Plate Count (HPC) met the requirements and did not exceed the applicable standards set out in O. Reg. 169/03. On rare occasions, untreated raw water samples may indicate the

presence of bacteria. Table 2 below summarizes the microbiological and bacteriological sample results for the reporting period.

Table 2: Schedule 11 Microbiological Testing Results

Sample Type / Source	Number of Samples	E.coli CFU/100 mL		Total Coliform CFU/100 mL		Number of HPC Samples	HPC CFU/100 mL	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw – Well # 1	14	0	0	0	2	NR	-	-
Raw – Well # 3	14	0	0	0	0	NR	-	-
Distribution	60	0	0	0	6	54	< 10	40

Chemical Testing

Testing performed under Schedule 13 of O. Reg. 170/03. The tables 4 through 8 below summarize the sample results for the reporting period or provide the most recent results if samples were not required to be collected during the reporting period. All sampling is of treated drinking water leaving the pumphouse, except for THM and HAA samples that are collected from the distribution system.

Table 3: Chemical Sampling Frequency

Parameter	Required Sampling Frequency
THMs	Every Calendar Quarter, calculated as running annual average
HAAs	Every Calendar Quarter, calculated as running annual average
Nitrite & Nitrate	Every 3 months
Sodium	Every 60 months
Fluoride	Every 60 months
Schedule 23 – Inorganics	Every 60 months
Schedule 24 - Organics	Every 60 months

ODWS MAC – Ontario Drinking Water Standard Maximum Allowable Concentration. Where two numbers are listed in this column the first is the aesthetic objective and the second is the maximum allowable under O. Reg. 169/03.

Table 4: Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

Parameter	Running Annual Average	ODWS MAC	Unit	Exceedance
THMs	8.9	100	ug/L	No
HAAs	< 5.3	80	ug/L	No

Table 5: Nitrite and Nitrate

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Nitrite	21 Jan 2025	<0.003	1	mg/L	No
	28 Apr 2025	< 0.003	1	mg/L	No
	18 Jul 2025	< 0.003	1	mg/L	No
	23 Oct 2025	< 0.003	1	mg/L	No
Nitrate	21 Jan 2025	< 0.006	10	mg/L	No
	28 Apr 2025	< 0.006	10	mg/L	No
	18 Jul 2025	< 0.006	10	mg/L	No
	23 Oct 2025	< 0.006	10	mg/L	No

Table 6: Sodium and Fluoride

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Sodium	9 Sept 2024	11.1	20, 200	mg/L	No
Fluoride	18 Jul 2022	<0.1	1.5	mg/L	No

Table 7: Schedule 23 - Inorganics

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Antimony	21 Oct 2024	< 0.0006	0.006	mg/L	No
Arsenic	21 Oct 2024	0.0006	0.01	mg/L	No
Barium	21 Oct 2024	0.225	1	mg/L	No
Boron	21 Oct 2024	0.031	5	mg/L	No
Cadmium	21 Oct 2024	< 0.000003	0.005	mg/L	No
Chromium	21 Oct 2024	0.00016	0.05	mg/L	No
Mercury	21 Oct 2024	< 0.00001	0.001	mg/L	No
Selenium	21 Oct 2024	< 0.00004	0.05	mg/L	No
Uranium	21 Oct 2024	0.000097	0.02	mg/L	No

Table 8: Schedule 24 – Organics

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Alachlor	15 Mar 2021	< 0.3	5	ug/L	No
Atrazine + N-dealkylated metabolites	15 Mar 2021	< 0.5	5	ug/L	No
Azinphos-methyl	15 Mar 2021	< 1	20	ug/L	No

Benzene	15 Mar 2021	< 0.5	1	ug/L	No
Benzo(a)pyrene	15 Mar 2021	< 0.006	0.01	ug/L	No
Bromoxynil	15 Mar 2021	< 0.5	5	ug/L	No
Carbaryl	15 Mar 2021	< 3	90	ug/L	No
Carbofuran	15 Mar 2021	< 1	90	ug/L	No
Carbon Tetrachloride	15 Mar 2021	< 0.2	2	ug/L	No
Chlorpyrifos	15 Mar 2021	< 0.5	90	ug/L	No
Diazinon	15 Mar 2021	< 1	20	ug/L	No
Dicamba	15 Mar 2021	< 10	120	ug/L	No
Dichlorobenzene, 1,2-	15 Mar 2021	< 0.5	3, 200	ug/L	No
Dichlorobenzene, 1,4-	15 Mar 2021	< 0.5	1, 5	ug/L	No
Dichloroethylene, 1,1-	15 Mar 2021	< 0.5	14	ug/L	No
Dichloroethane, 1,2-	15 Mar 2021	< 0.5	5	ug/L	No
Dichloromethane (Methylene Chloride)	15 Mar 2021	< 5	50	ug/L	No
Dichlorophenol, 2,4-	15 Mar 2021	< 0.2	0.3, 900	ug/L	No
Dichlorophenoxy acetic acid, 2,4- (2,4-D)	15 Mar 2021	< 10	100	ug/L	No
Diclofop-methyl	15 Mar 2021	< 0.9	9	ug/L	No
Dimethoate	15 Mar 2021	< 1	20	ug/L	No
Diquat	15 Mar 2021	< 5	70	ug/L	No
Diuron	15 Mar 2021	< 5	150	ug/L	No
Glyphosate	15 Mar 2021	< 25	280	ug/L	No
Malathion	15 Mar 2021	< 5	190	ug/L	No
MCPA	15 Mar 2021	< 10	100	ug/L	No
Metolachlor	15 Mar 2021	< 3	50	ug/L	No
Metribuzin	15 Mar 2021	< 3	80	ug/L	No
Monochlorobenzene (Chlorobenzene)	15 Mar 2021	< 0.5	80	ug/L	No
Paraquat	15 Mar 2021	< 1	10	ug/L	No
Pentachlorophenol	15 Mar 2021	< 0.2	30, 60	ug/L	No
Phorate	15 Mar 2021	< 0.3	2	ug/L	No
Picloram	15 Mar 2021	< 15	190	ug/L	No
Poly-Chlorinated Biphenyls (PCB's)	15 Mar 2021	< 0.05	3	ug/L	No
Prometryne	15 Mar 2021	< 0.1	1	ug/L	No
Simazine	15 Mar 2021	< 0.5	10	ug/L	No
Terbufos	15 Mar 2021	< 0.5	1	ug/L	No
Tetrachloroethylene	15 Mar 2021	< 0.5	10	ug/L	No
Tetrachlorophenol, 2,3,4,6-	15 Mar 2021	< 0.2	1, 100	ug/L	No
Triallate	15 Mar 2021	< 10	230	ug/L	No
Trichloroethylene	15 Mar 2021	< 0.5	5	ug/L	No

Trichlorophenol 2,4,6-	15 Mar 2021	< 0.2	2, 5	ug/L	No
Trifluralin	15 Mar 2021	< 0.5	45	ug/L	No
Vinyl Chloride	15 Mar 2021	< 0.2	1	ug/L	No

Table 9: Other Sampling Conducted Outside O. Reg. 170/03

Parameter	Date Sampled	Result	Unit
Chloride	6 Sep 2025	25	mg/L
Hardness	28 Aug 2019	354	mg/L

Community Lead Testing Program

Historical low level lead sample results have qualified Clearview for the reduced sampling program under Schedule 15.1 of O. Reg. 170/03. Clearview is exempt from sampling private residences as less than 10% of plumbing samples exceeded the standard for two consecutive periods. Samples from the distribution system are collected during two sampling periods. Winter (Dec. 15 to Apr. 15) and Summer (June 15 to Oct. 15). Alkalinity and pH samples are analyzed in each sampling period, while lead is only required to be tested for every 3 years. Table 10 below summarizes the lead testing program sample results for the reporting period.

Table 10: Schedule 15.1 - Lead

Parameter	Number of Samples	Min	Max	ODWS MAC	Unit
Lead	2	0.00004	0.00004	0.010	mg/L
Alkalinity	2	281	290	30 - 500*	mg/L as CaCO ₃
pH	2	7.8	7.8	6.5 - 8.5*	-

*Operational Guidelines

Adverse Water Quality Incidents

There were two Adverse Water Quality Incidents (AWQIs) in 2025.

- AWQI number 168091 occurred on May 02, 2025. A loss of pressure to the distribution system occurred following a problem with the high lift pumping system. Corrective actions included the restoration of distribution system pressure, flushing of the distribution system, testing of the free chlorine level at various locations in the distribution system and collection of bacteriological samples from four locations in the distribution system. Free chlorine residuals

were at levels consistent with normal operations and the bacteriological results verified that the distribution system was free of contamination.

- AWQI number 170212 occurred on October 03, 2025. A loss of pressure to the distribution system occurred following a problem with the high lift pumping system. Corrective actions included the restoration of distribution system pressure, flushing of the distribution system, testing of the free chlorine level at various locations in the distribution system and collection of bacteriological samples from three locations in the distribution system. Free chlorine residuals were at levels consistent with normal operations and the bacteriological results verified that the distribution system was free of contamination.

REGULATORY COMPLIANCE SUMMARY

Safe Drinking Water Act & Associated Regulations

No non-compliances were identified during this reporting period.

Municipal Drinking Water Licence & Drinking Water Works Permit

No non-compliances were identified during this reporting period.

Permit to Take Water

No exceedances were identified during this reporting period.

Provincial Orders

No provincial orders were issued during this reporting period.

SYSTEM CAPACITY

Allowable Capacities

Allowable capacities are imposed on the drinking water system by several legal instruments issued by the Ministry of Environment, Conservation and Parks. They are summarized in Table 11 below.

Table 11: Allowable Capacities

Instrument	Unit	Well # 1	Well # 2	Well # 3
Permit to Take Water	L/min	91	91	85
	m ³ /day	131.04	131.04	121.68
	Total from all wells m ³ /day	252.72		
Drinking Water Works Permit	L/sec	1.5	1.5	1.4
Municipal Drinking Water Licence	Total supplied to distribution system m ³ /day	252		

2025 Flow Summary

The table and charts below summarize the 2025 flow data for the Buckingham Woods drinking water system. This data is a general overview and can be utilized to analyze system performance and the potential need for upgrades.

Figure 1: Monthly Flow Totals

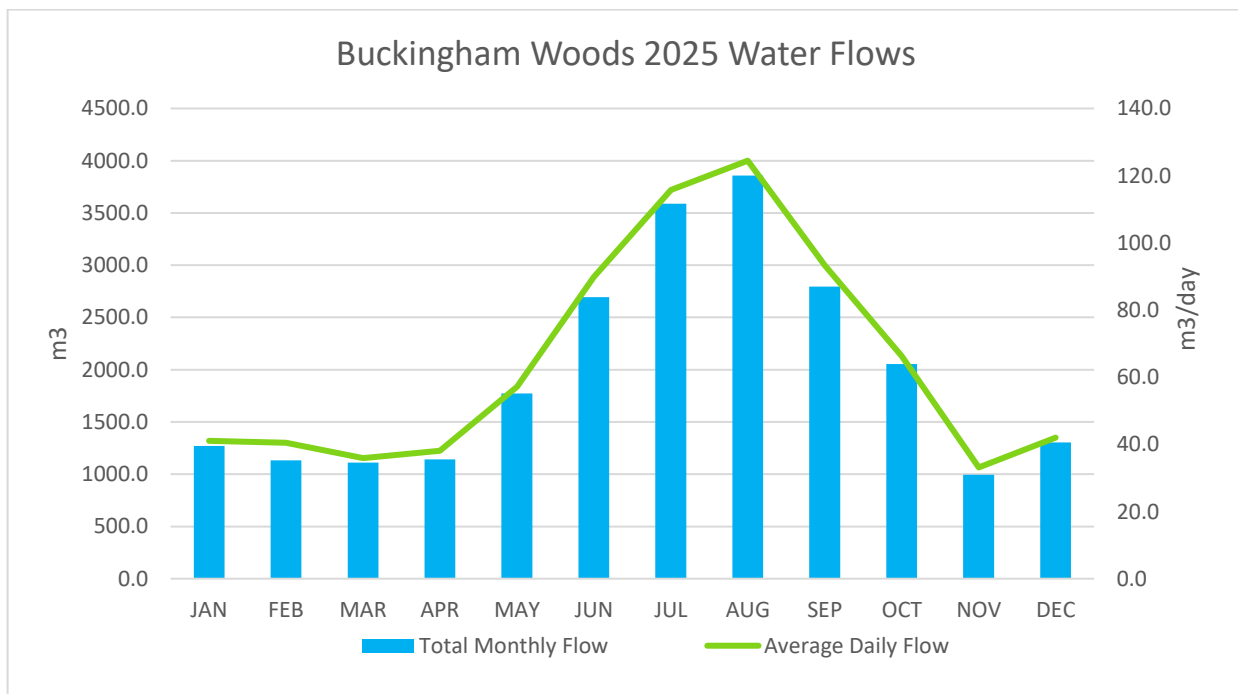
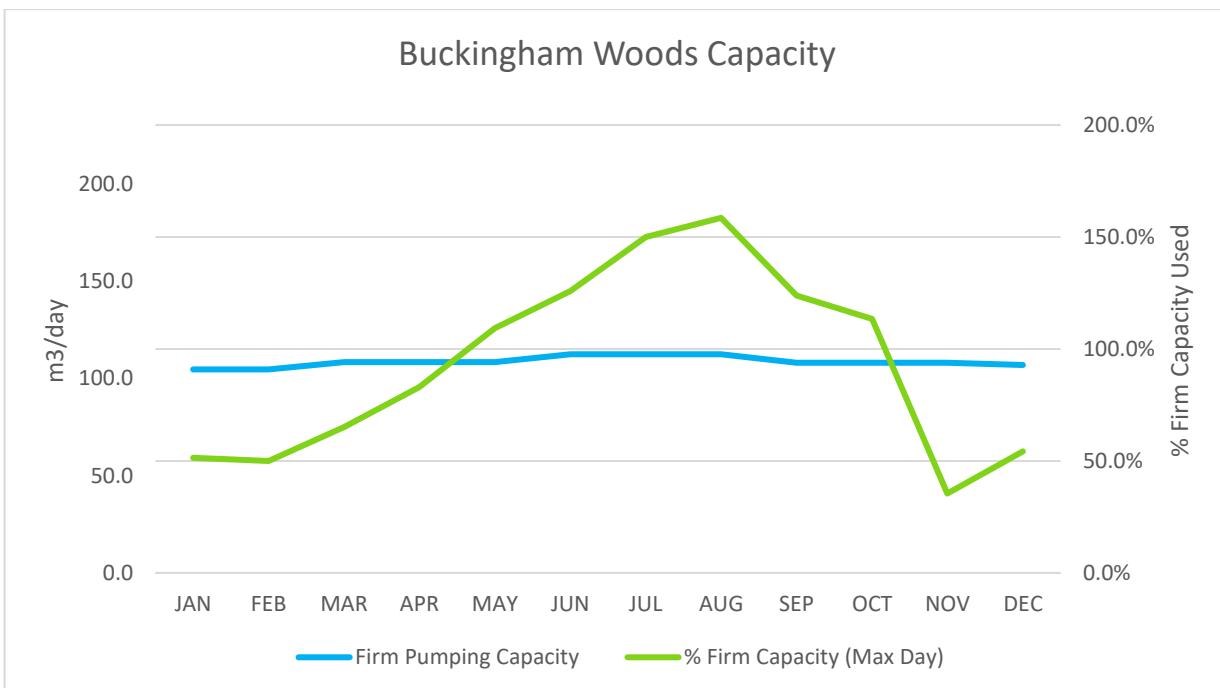


Table 12: Monthly Flows

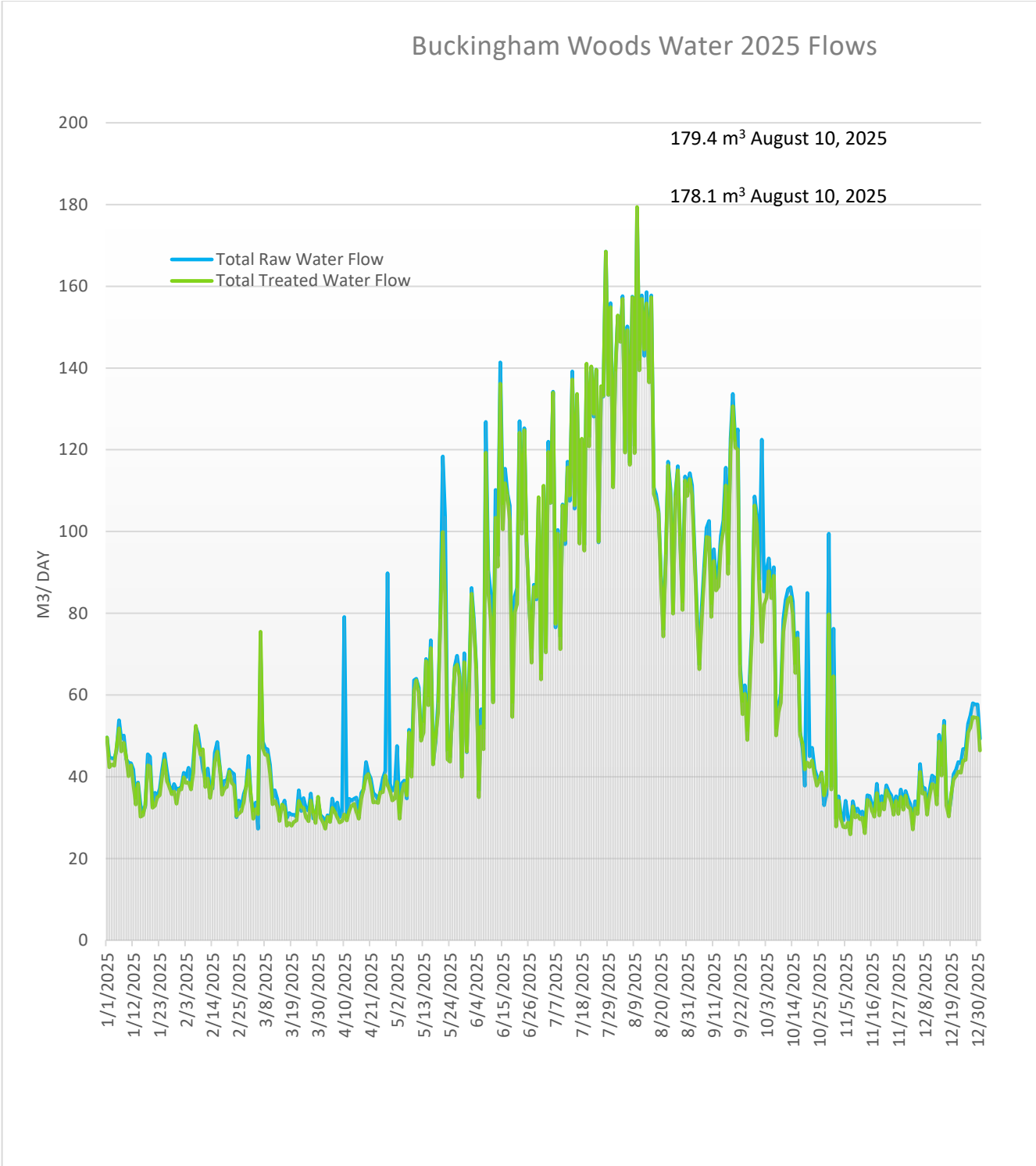
2025	Total Flow m ³	Average Daily Flow m ³ /d	Maximum Daily Flow m ³ /d	Firm Pumping Capacity m ³ /d	Actual Pumping Capacity m ³ /d	% Firm Capacity (MDD)	% Capacity (MDD)
JAN	1271.7	41.0	53.8	104.5	238.8	51.5%	22.5%
FEB	1133.3	40.5	52.2	104.5	238.8	49.9%	21.9%
MAR	1111.9	35.9	70.6	108.3	224.1	65.2%	31.5%
APR	1143.2	38.1	89.8	108.3	224.1	82.9%	40.1%
MAY	1772.5	57.2	118.4	108.3	224.1	109.3%	52.8%
JUN	2694.9	89.8	141.4	112.3	229.0	125.9%	61.8%
JUL	3588.7	115.8	168.5	112.3	229.0	150.0%	73.6%
AUG	3858.1	124.5	178.1	112.3	229.0	158.6%	77.8%
SEP	2796.3	93.2	133.7	108.0	224.6	123.8%	59.5%
OCT	2055.0	66.3	122.5	108.0	224.6	113.4%	54.5%
NOV	993.9	33.1	38.3	108.0	224.6	35.5%	17.0%
DEC	1303.4	42.0	58.0	106.8	229.8	54.3%	25.2%
Total/ Yr.	23722.9	65.0	178.1				

Note: All capacity values used are based on actual pump outputs and flow rates. Firm pumping capacity is the available flow with the largest pump out of service.

Figure 2: System Capacity


In 2025, the day with the largest volume of water produced was August 10th with 178.1 m³. August 10th also saw the largest volume of water consumed by the distribution system at 179.4 m³. Figure 3 below depicts the total daily raw water flow and treated water flow for the system.

Figure 3: 2025 Daily Flows



From 2024 to 2025 there was a 22.76% increase in flows for the Buckingham Woods drinking water system. Three new houses were connected to the system during 2025, bringing the total number of serviced residences to 54. As more new homes have been added to the system over the last number of years, water usage has substantially increased. Since the beginning of 2021, the number of system users has increased over 50%, while the volume of water used annually has increased by 100% over the same period. In 2025, the maximum day demand was 71% of total water production capacity. 8 lots remain that are either vacant or at various stages of construction. The system will serve 62 houses at full build out. Figure 4 below shows the total annual flow trend for the drinking water system over the last five years.

Figure 4: Five-year Total Flow Comparison

