



CLEARVIEW  
TOWNSHIP



# Nottawa 2024 Drinking Water Compliance Report

Period Covering: January 1 to December 31, 2024

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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, 2024, for the following municipally owned and operated drinking water system:

- Nottawa Drinking Water System

## Drinking Water System Information

Drinking Water System Number:	260005411
Drinking Water System Category:	Large Municipal Residential
Drinking Water System Classification:	Water Supply and Distribution Class 2
Municipal Drinking Water Licence Number:	099-102, Issued June 25, 2020
Drinking Water Works Permit Number:	099-202, Issued June 25, 2020
Permit to Take Water:	P-300-7059566293, Issued May 12, 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 28<sup>th</sup> 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 31<sup>st</sup> 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](http://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 28<sup>th</sup>.

## 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 March 22, 2024, 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 2024 audit was conducted between February 22<sup>nd</sup> and February 27<sup>th</sup>, 2024. Six 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, a new external audit cycle began in 2024 with a 12 Month Surveillance Audit. The audit for the six drinking water systems was completed on March 25, 2024, 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.

# NOTTAWA DRINKING WATER SYSTEM

## System Description

The Nottawa Drinking Water System is located at 15 Wagner Road in the northwest corner of the Township of Clearview. 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 Nottawa drinking water system is provided from three groundwater wells. Water is drawn from the wells and transported to the pumphouse where it is treated with sodium hypochlorite for primary and secondary disinfection. ClearHib5, blended polyphosphate, is also added to the water for iron sequestering. It is then stored in an approx. 388 m<sup>3</sup> two-celled underground concrete water storage reservoir. Four high lift pumps provide the distribution system with water from the reservoir, based on system demand. The distribution system is comprised of approx. 3.3 km of various sized watermain, with 24 fire hydrants for minimal fire protection. The system has been fully built out with 138 active service connections, including an elementary school, community centre and fire hall, translating to an approx. population of 350 people.

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 60 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
- ClearHib 5 polyphosphate

## Major Expenses Incurred within the Drinking Water System

- SCADA and Historian computer upgrades - \$2,000



# 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	0.34	1.25	NTU
Raw Turbidity – Well # 2	12	0.49	1.85	NTU
Raw Turbidity – Well # 3	12	0.11	1.34	NTU
Treated Water Free Chlorine	8760*	0.60	2.63	mg/L
Distribution Water Free Chlorine	420	0.33	1.87	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 10 of O. Reg. 170/03 for large municipal residential drinking water systems. Raw water samples from each production well, a treated water sample and two 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 indicated the presence of bacteria. Table 2 below summarizes the microbiological and bacteriological sample results for the reporting period.

**Table 2: Schedule 10 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	53	0	0	0	0	NR	-	-
Raw – Well # 2	53	0	0	0	0	NR	-	-
Raw – Well # 3	53	0	0	0	1	NR	-	-
Treated	53	0	0	0	0	53	< 10	10
Distribution	106	0	0	0	0	29	< 10	10

## 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 36 months
Schedule 24 - Organics	Every 36 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	51.3	100	ug/L	No
HAAs	35.6	80	ug/L	No

**Table 5: Nitrite and Nitrate**

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Nitrite	22 Jan 2024	< 0.003	1	mg/L	No
	16 Apr 2024	< 0.003	1	mg/L	No
	15 Jul 2024	< 0.003	1	mg/L	No
	21 Oct 2024	< 0.003	1	mg/L	No
Nitrate	22 Jan 2024	0.232	10	mg/L	No
	16 Apr 2024	0.292	10	mg/L	No
	15 Jul 2024	0.333	10	mg/L	No
	21 Oct 2024	0.389	10	mg/L	No

**Table 6: Sodium and Fluoride**

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Sodium	9 Sept 2024	30.9	20, 200	mg/L	Yes
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	6 Dec 2022	< 0.0001	0.006	mg/L	No
Arsenic	6 Dec 2022	0.0002	0.01	mg/L	No
Barium	6 Dec 2022	0.101	1	mg/L	No
Boron	6 Dec 2022	0.046	5	mg/L	No
Cadmium	6 Dec 2022	< 0.000010	0.005	mg/L	No
Chromium	6 Dec 2022	< 0.002	0.05	mg/L	No
Mercury	6 Dec 2022	< 0.00002	0.001	mg/L	No
Selenium	6 Dec 2022	< 0.001	0.05	mg/L	No
Uranium	6 Dec 2022	0.00174	0.02	mg/L	No

**Table 8: Schedule 24 – Organics**

Parameter	Date Sampled	Result	ODWS MAC	Unit	Exceedance
Alachlor	5 Feb 2024	< 0.02	5	ug/L	No
Atrazine + N-dealkylated metabolites	5 Feb 2024	< 0.01	5	ug/L	No
Azinphos-methyl	5 Feb 2024	< 0.05	20	ug/L	No
Benzene	5 Feb 2024	< 0.32	1	ug/L	No
Benzo(a)pyrene	5 Feb 2024	< 0.004	0.01	ug/L	No

Bromoxynil	5 Feb 2024	< 0.33	5	ug/L	No
Carbaryl	5 Feb 2024	< 0.05	90	ug/L	No
Carbofuran	5 Feb 2024	< 0.01	90	ug/L	No
Carbon Tetrachloride	5 Feb 2024	< 0.17	2	ug/L	No
Chlorpyrifos	5 Feb 2024	< 0.02	90	ug/L	No
Diazinon	5 Feb 2024	< 0.02	20	ug/L	No
Dicamba	5 Feb 2024	< 0.20	120	ug/L	No
Dichlorobenzene, 1,2-	5 Feb 2024	< 0.41	3, 200	ug/L	No
Dichlorobenzene, 1,4-	5 Feb 2024	< 0.36	1, 5	ug/L	No
Dichloroethylene, 1,1-	5 Feb 2024	< 0.33	14	ug/L	No
Dichloroethane, 1,2-	5 Feb 2024	< 0.35	5	ug/L	No
Dichloromethane (Methylene Chloride)	5 Feb 2024	< 0.35	50	ug/L	No
Dichlorophenol, 2,4-	5 Feb 2024	< 0.15	0.3, 900	ug/L	No
Dichlorophenoxy acetic acid, 2,4- (2,4-D)	5 Feb 2024	< 0.19	100	ug/L	No
Diclofop-methyl	5 Feb 2024	< 0.40	9	ug/L	No
Dimethoate	5 Feb 2024	< 0.06	20	ug/L	No
Diquat	5 Feb 2024	< 1	70	ug/L	No
Diuron	5 Feb 2024	< 0.03	150	ug/L	No
Glyphosate	5 Feb 2024	< 1	280	ug/L	No
Malathion	5 Feb 2024	< 0.02	190	ug/L	No
MCPA	5 Feb 2024	< 0.00012	100	ug/L	No
Metolachlor	5 Feb 2024	< 0.01	50	ug/L	No
Metribuzin	5 Feb 2024	< 0.02	80	ug/L	No
Monochlorobenzene (Chlorobenzene)	5 Feb 2024	< 0.3	80	ug/L	No
Paraquat	5 Feb 2024	< 1	10	ug/L	No
Pentachlorophenol	5 Feb 2024	< 0.15	30, 60	ug/L	No
Phorate	5 Feb 2024	< 0.01	2	ug/L	No
Picloram	5 Feb 2024	< 1	190	ug/L	No
Poly-Chlorinated Biphenyls (PCB's)	5 Feb 2024	< 0.04	3	ug/L	No
Prometryne	5 Feb 2024	< 0.03	1	ug/L	No
Simazine	5 Feb 2024	< 0.01	10	ug/L	No
Terbufos	5 Feb 2024	< 0.01	1	ug/L	No
Tetrachloroethylene	5 Feb 2024	< 0.35	10	ug/L	No
Tetrachlorophenol, 2,3,4,6-	5 Feb 2024	< 0.20	1, 100	ug/L	No
Triallate	5 Feb 2024	< 0.01	230	ug/L	No
Trichloroethylene	5 Feb 2024	< 0.44	5	ug/L	No
Trichlorophenol 2,4,6-	5 Feb 2024	< 0.25	2, 5	ug/L	No
Trifluralin	5 Feb 2024	< 0.02	45	ug/L	No

Vinyl Chloride	5 Feb 2024	< 0.17	1	ug/L	No
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**Table 9: Other Sampling Conducted Outside O. Reg. 170/03**

Parameter	Date Sampled	Result	Unit
Chloride	9 Sep 2024	52	mg/L
Hardness	28 Aug 2019	373	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	0	-	-	0.010	mg/L
Alkalinity	2	242	268	30 - 500*	mg/L as CaCO <sub>3</sub>
pH	2	7.2	8.4	6.5 - 8.5*	-

\*Operational Guidelines

## Adverse Water Quality Incidents

There was one Adverse Water Quality Incident (AWQI) in 2024.

- AWQI number 166305 was reported on September 13, 2024. The routine 60-month sodium sample had a result of 30.9 mg/L. A resample was collected on September 17, 2024, and confirmed the initial sample. The Simcoe Muskoka District Health Unit was informed of the elevated sodium levels, but no further actions were required. The Township proactively collects sodium samples on an annual basis to monitor trends within the drinking water.

## **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 non-compliances 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.

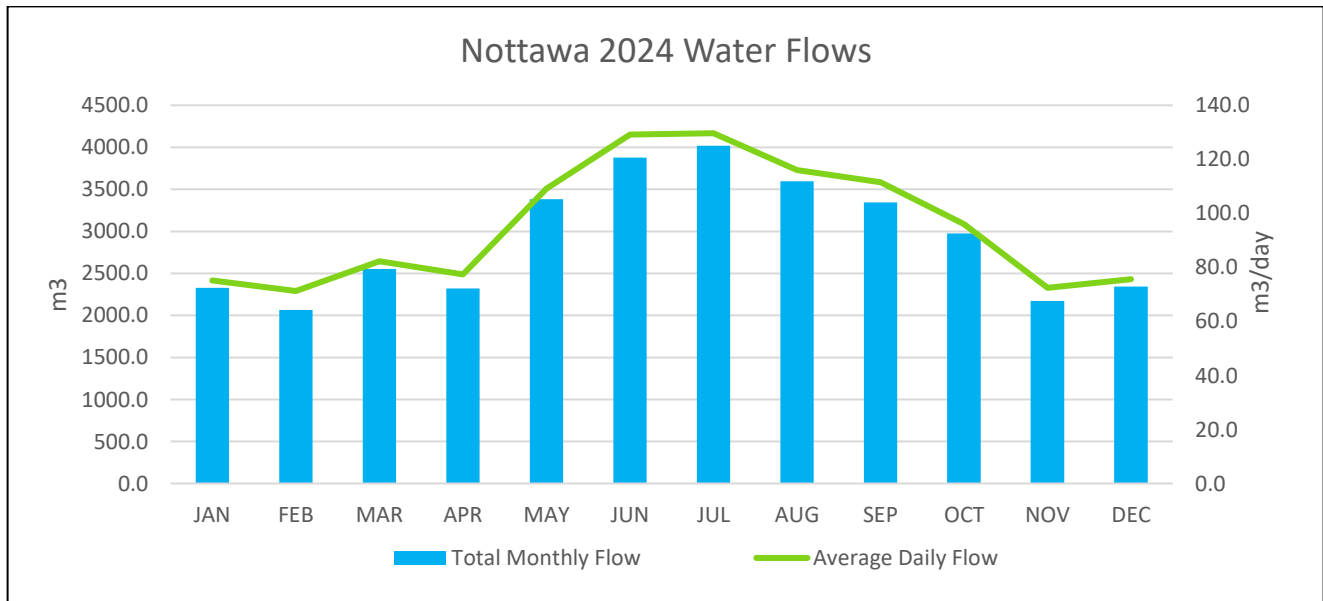
**Table 11: Allowable Capacities**

Instrument	Unit	Well # 1	Well # 2	Well # 3
Permit to Take Water	L/min	163	114	456
	m <sup>3</sup> /day	234	164	657
	Total from all wells m <sup>3</sup> /day	1,055		
Drinking Water Works Permit	L/sec	2.7	1.9	7.58
Municipal Drinking Water Licence	Total supplied to distribution system m <sup>3</sup> /day	1,055		

## 2024 Flow Summary

The table and charts below summarize the 2024 flow data for the Nottawa drinking water system. This data is a general overview and can be utilized to analyze system performance and the potential need for upgrades.

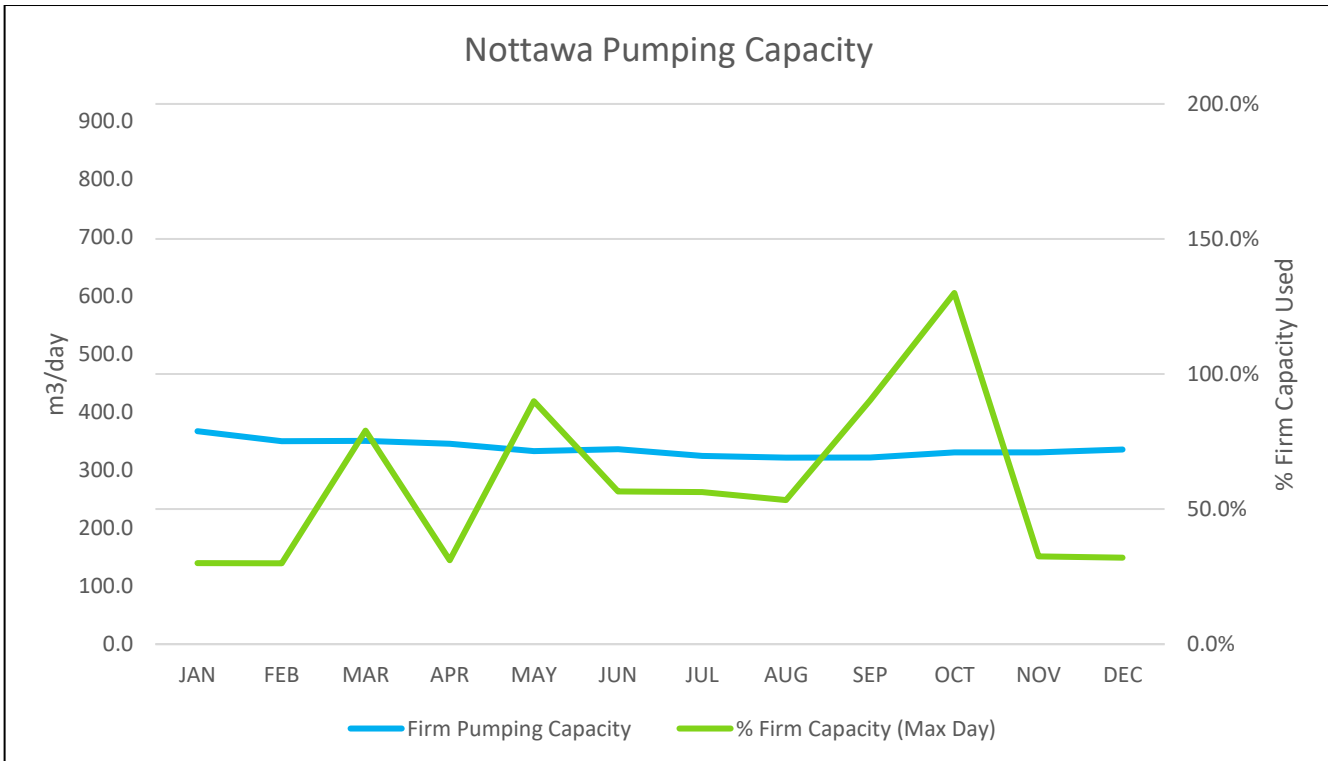
**Figure 1: Monthly Flow Totals**



**Table 12: Monthly Flows**

2024	Total Flow m <sup>3</sup>	Average Daily Flow m <sup>3</sup> /d	Maximum Daily Flow m <sup>3</sup> /d	Firm Pumping Capacity m <sup>3</sup> /d	Actual Pumping Capacity m <sup>3</sup> /d	% Firm Capacity (MDD)	% Capacity (MDD)
JAN	2329.0	75.1	110.2	366.6	949.4	30.0%	11.6%
FEB	2066.5	71.3	104.7	349.6	925.6	29.9%	11.3%
MAR	2551.5	82.3	276.6	350.1	929.5	79.0%	29.8%
APR	2321.2	77.4	107.3	345.2	922.8	31.1%	11.6%
MAY	3383.3	109.1	298.9	332.4	893.7	89.9%	33.4%
JUN	3876.1	129.2	189.8	335.5	887.0	56.6%	21.4%
JUL	4019.6	129.7	182.3	324.0	867.7	56.3%	21.0%
AUG	3597.4	116.0	171.2	321.1	860.0	53.3%	19.9%
SEP	3344.5	111.5	290.2	321.4	855.1	90.3%	33.9%
OCT	2976.3	96.0	429.1	330.0	857.7	130.0%	50.0%
NOV	2173.4	72.4	107.2	330.0	860.0	32.5%	12.5%
DEC	2344.9	75.6	107.1	335.2	870.3	32.0%	12.3%
<b>Total/ Yr.</b>	<b>34983.6</b>	<b>95.8</b>	<b>429.1</b>				

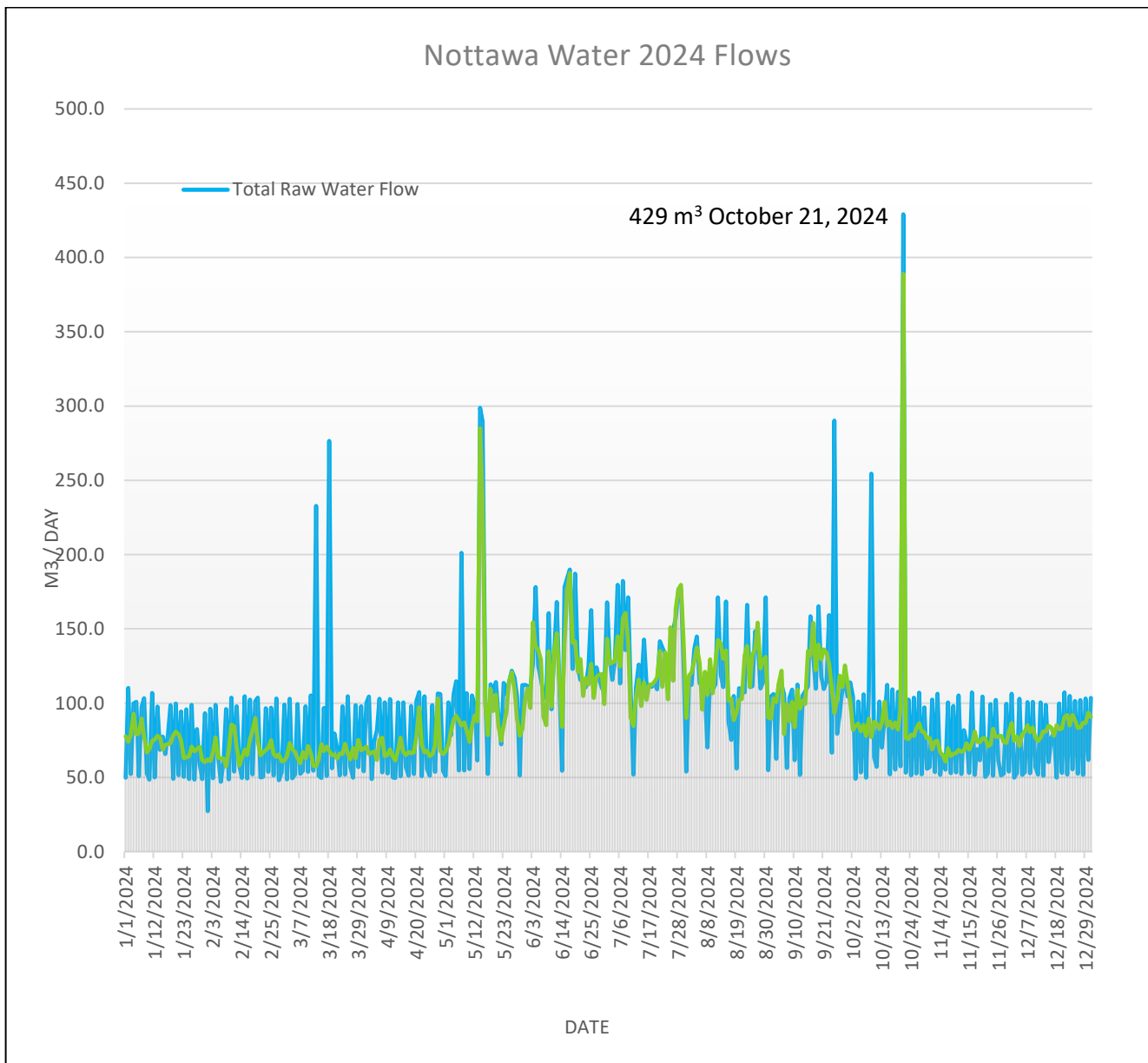
Note: All capacity values used are based on actual pump outputs and flow rates. Firm pumping capacity is the available flow with the largest pump out of service.

**Figure 2: System Capacity**




In 2024, the day with the largest volume of water produced was October 21<sup>st</sup> with 429 m<sup>3</sup>. This is considered a false peak due to scheduled hydrant flushing. When maintenance items that require extra water to be produced such as watermain flushing, reservoir cleaning etc. are not considered, the maximum flow day for the Nottawa water system occurred on June 17<sup>th</sup> when 190 m<sup>3</sup> of water was treated. June 17<sup>th</sup> also saw the largest volume of water consumed by the distribution system at 188 m<sup>3</sup>. Figure 3 below depicts the total daily raw water flow and treated water flow for the system.

**Figure 3: 2024 Daily Flows**



The total amount of water produced in 2024 was in line with the five-year average water production. The system has been fully built out with all 138 service connections in use and water usage is consistent from one year to the next. 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**

