



## Regular Council Meeting

<b>To:</b>	Mayor and Council
<b>Date:</b>	February 18, 2025
<b>From:</b>	Jessica Fradley, Water Wastewater Technician
<b>Report Number:</b>	Public Works 2025-02
<b>Subject:</b>	Annual MECP Drinking Water Reports

### Recommendation:

That Council receives Public Works Report 2025-02 Annual MECP Drinking Water Reports for information.

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### Overview:

The purpose of the report is to provide council and members of the public information about the Millbrook Drinking Water System for the 2024 reporting year.

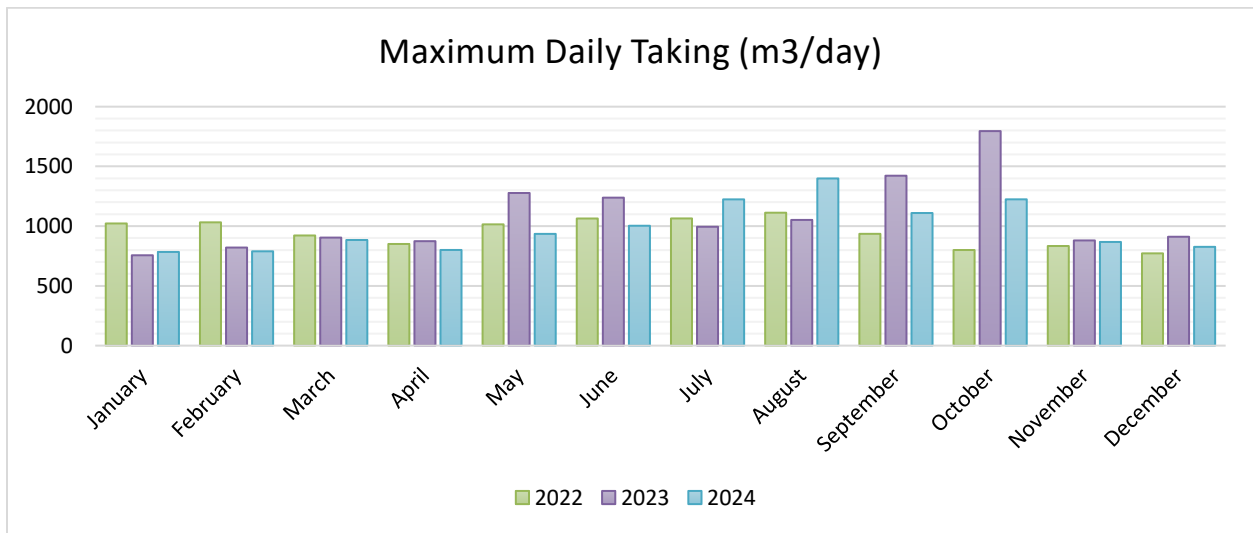
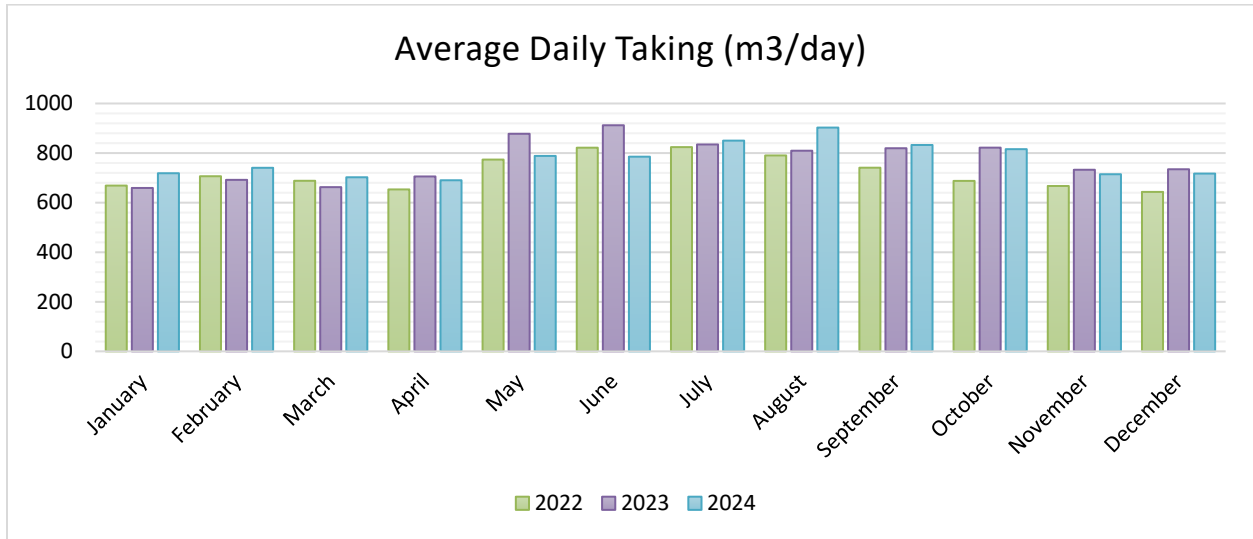
The Ontario Ministry of Environment Conservation and Parks (MECP) regulates and enforces the production and delivery of safe potable water to consumers under the *Safe Drinking Water Act (SDWA), 2002* and associated regulations. Most notably is the *Ontario Drinking Water System Regulation (O. Reg. 170/03)* which outlines treatment and testing parameters.

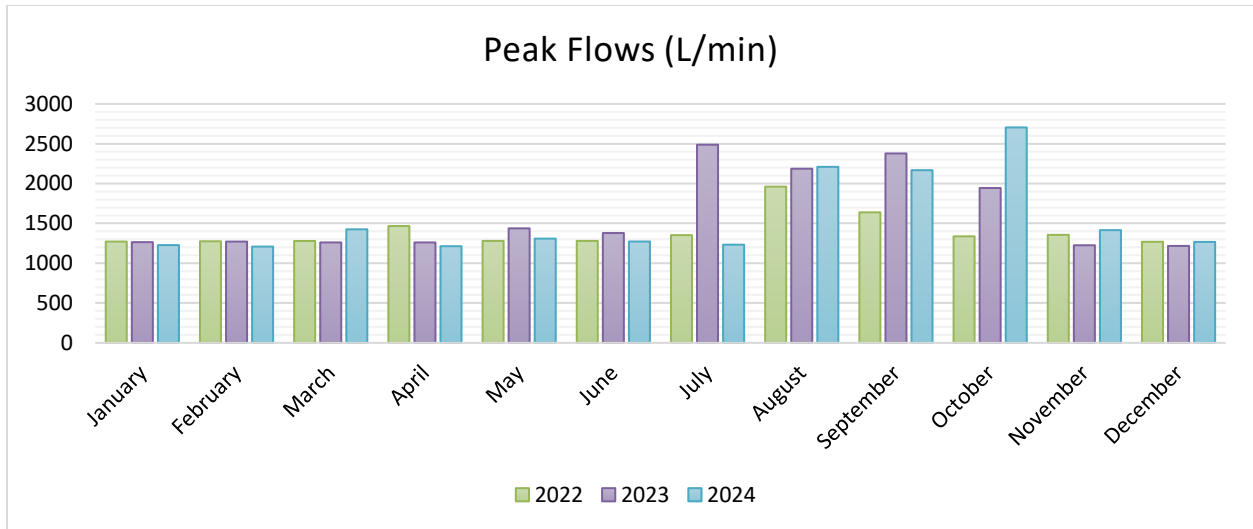
Each year it is a requirement under *O. Reg. 170/03 – Schedule 22* that the Owner of a Drinking Water Subsystem produce a Summary Report. The purpose of this summary report is to keep Council (the Owner) and the public informed regarding the quality of their drinking water. This report must be presented to Council no later than March 31, for the previous year. Contained within the report is a summary of quantities and flow rates for the water supplied during the reporting period including monthly averages, maximum daily flow, and instantaneous peak flow rates with a comparison to the Permit to Take Water and the Municipal Drinking Water License.

Additionally, under *O. Reg. 170/03 - Section 11*, it requires owners of Drinking Water systems to ensure an Annual Report is also prepared. The Annual Report must contain a brief description of the system including the treatment chemicals used, summarizes the test results from samples taken, describe any corrective actions taken, and any major expenses incurred during the reporting period.

The City of Peterborough has completed the Summary Report and Annual Report on behalf of the Township as they are presently the Operating Authority of the Millbrook Drinking Water System. In 2024 the Township and Operating Authority were in full compliance with the SDWA.

Below are graphs comparing the water usage from 2022-2024:





The reports are available for the public on the Township website.

**Financial Impact:**

Not applicable.

**Attachments:**

1. 2024 Summary Report – Millbrook Drinking Water System
2. 2024 Annual Report – Millbrook Municipal Well House

Respectfully Submitted by,

Jessica Fradley,  
Water Wastewater Technician

Wayne Hancock  
Director of Public Works

Reviewed by,

Yvette Hurley  
Chief Administrative Officer

**2024**

**SUMMARY REPORT  
FOR MUNICIPALITIES**

**Millbrook Municipal Well House**

**PERIOD: JANUARY 1, 2024 – DECEMBER 31, 2024**



**Municipal Drinking Water Licence: 136-101, Issue No. 7**

**Municipal Waterworks No: 220000781**

February 17th, 2025

## Executive Summary

The Ontario Ministry of Environment Conservation and Parks (MECP) regulates and enforces the production and delivery of safe potable water to consumers under the *Safe Drinking Water Act, (SDWA) 2002* and associated regulations. Most notably is the *Ontario Drinking Water System Regulation (O. Reg.) 170/03* which outlines treatment and testing parameters.

Each year it is a requirement under *O. Reg. 170/03 – Schedule 22* that the owner of a Drinking Water Subsystem produce a summary report. The purpose of this summary report is to keep Municipal Council (the Owner) and the public informed regarding the quality of their drinking water.

This report is submitted annually for the previous calendar year and is required to contain the following information:

- Council must receive the report no later than March 31<sup>st</sup> for the previous calendar year.
- List the requirements of the SDWA, the regulations, and the system's approval.
- Any order(s) from the MECP that the system failed to meet at any time during the period covered by the report, specify the duration of the failure and describe the measures that were taken to correct the failure.
- Summary of quantities and flow rates of the water supplied during the period covered including monthly averages, maximum daily flows and daily instantaneous peak flow rates.
- A comparison of the summary of quantities and flow rates to the system's approved Permit to Take Water and Municipal Drinking Water Licence.
- Any additional data or other information that may be useful for Council.

## **1.0 Introduction**

This summary report is a requirement of the Drinking Water Systems Regulation; O. Reg. 170/03 specifically Schedule 22. This report must be submitted no later than March 31<sup>st</sup> to members of the Municipal Council. The contents must list the requirements of the Safe Drinking Water Act, 2002, the regulations, the system's approval, drinking water works permit, municipal drinking water Licence and any orders that the system failed to meet at any time during the reporting period covered along with specifying the duration of the failure and the correct measures taken to correct the failure.

The report will include a summary of the quantities and the flow rates of the water supplied during the reporting period, including monthly averages, maximum daily flows and daily instantaneous peak flows. The summary shall be compared to the rated capacity and flows provided in the system's Permit To Take Water (PTTW) and Municipal Drinking Water Licence (MDWL).

This summary report is for the period from January 1<sup>st</sup> to December 31<sup>st</sup>, 2024. This report is available to the public free of charge. It is available on the Township of Cavan Monaghan web site (<https://www.cavanmonaghan.net>). A copy can also be obtained from the Cavan Monaghan Municipal Office upon request.

### **1.1 Plant Description and Treatment Process**

The Millbrook Drinking Water System consists of three (3) wells, a pump house with treatment and control facilities, chlorine contact pipe, water storage tank, booster pumping station and approximately 9.554 kilometers of distribution water mains with diameters of 150mm, 200mm and 250mm.

### **1.2 Source Water (Raw Water)**

The raw water source for the Millbrook Drinking Water System consists of three (3) drilled wells (30m deep). These wells are non-GUDI wells, meaning the raw well water quality is not influenced by surface waters.

### **1.3 Raw Water Intake Facilities**

Raw water is drawn from the three wells via submersible vertical turbine pump (one per well) rated at 1,500 Litres per minute. The three pumps discharge into a common discharge header and the pumping rate of each pump is controlled by a variable frequency drive.

## 1.4 Disinfection

### Primary Disinfection – Pre-contact pipe

At the common discharge header sodium hypochlorite is added prior to the oversized chlorine contact pipe. Sodium Hypochlorite is added to ensure that any potential harmful organisms (pathogens) are destroyed prior to distribution.

The contact pipe ensures sufficient contact time to achieve the pathogen destruction. Free Available Chlorine (FAC) residual is continuously measured after the contact pipe to ensure that the required residual is being discharged to the distribution system.

### Secondary Disinfection – Distribution System and Standpipe

Secondary disinfection is accomplished by adding sufficient sodium hypochlorite at the pumphouse to maintain an appropriate chlorine residual in the distribution system and storage tank. This residual is intended to control microbiological re-contamination, bacterial regrowth, biofilm formation and serve as an indicator of system integrity. FAC residual is routinely measured at the storage tank inlet and outlet to ensure that the required residual is being maintained and applied to the distribution system. There are also four sampling stations throughout the distribution system that are routinely checked for adequate FAC residual.

## 1.5 Standpipe and Booster Pumping Station

A 2,600 m<sup>3</sup> glass-fused-to-steel standpipe located at 988 County Road 10 (behind the Township Municipal Office) provides storage and maintains pressure in the distribution network. The site contains a bulk water loading station for truck filling, and a booster pumping station that provides water to a separate pressure zone in Millbrook (north of Brookside Street and west of County Road 10). The Booster station serviced by three (3) vertical in-line centrifugal booster pumps each with a capacity of 11 Litres per second and two (2) vertical in-line centrifugal high flow pumps each with a capacity of 120 litres per second.

## 1.6 Sample Analysis

Provincial regulations and the current Municipal Drinking Water Licence (MDWL), dictate the sampling and monitoring requirements for the system. Water quality is tested throughout the treatment process from four dedicated sampling locations throughout the distribution system. Distribution system samples are collected once per week from each location. Where required by regulation, samples are submitted to an accredited laboratory for analyses.

## 2.0 Compliance

The Ministry conducted the annual Drinking Water System Inspection (Event Number 1-377444183) on July 25, 2024, with the final inspection report being received September 25, 2024. No compliance issues were noted in the inspection and the drinking water system received an Inspection Report Rating (IRR) of 100%.

## 3.0 Summary of Flows and Quantities

In 2024 the DWS was operated under two different Permits to Take Water (PTTW). The existing permit (Number 7704- AW7HJF) had an expiration date of March 31, 2024, and was replaced by a new permit (Number 1150-CZXQTQ) on March 22, 2024.

Both permits allow for a maximum water taking of 3,000m<sup>3</sup>/day and a peak flow rate of 1,500 L/minute. The volume of water delivered in 2024 was within the limits stipulated in the Municipal Drinking Water Licence and the PTTW.

In August, September and October, due to a combination of flow and pressure testing of hydrants and other maintenance activities, the peak flow rate exceeded the PTTW limit. However, paragraph 3.4 of the PTTW (Number: 1150-CZXQTQ) allows for the temporary exceedance of the peak flow rate when necessary for maintenance activities.

Table 1 provides a summary of the volume of water delivered to the Millbrook Drinking Water System in 2024.

**Table 1 – Volumer of Water Delivered**

Month	Average Daily (m <sup>3</sup> /day)	Maximum Daily (m <sup>3</sup> /day)	Peak Flows (L/min)
January	718.55	783.99	1227.00
February	740.47	789.30	1208.40
March	702.31	884.05	1425.00
April	690.20	800.60	1213.20
May	788.37	935.15	1308.45
June	785.35	1003.30	1272.13
July	850.12	1224.05	1232.57
August	902.76	1399.16	2209.44*
September	832.52	1109.92	2167.62*
October	815.66	1224.39	2704.60*
November	714.50	867.64	1415.25
December	717.19	826.66	1267.26



**Table 2 – Licence and Permit Limits**

	Maximum Daily (m <sup>3</sup> /day)	Peak Flows (L/min)
Municipal Drinking Water Licence: Number: 136-101 Expires June 24, 2026	3,000 m <sup>3</sup> /day	----
Permit to Take Water Number: 7704-AW7HJF (Jan. 1 thru Mar. 22, 2024)	3,000 m <sup>3</sup> /day	1,500 L/min
Permit to Take Water Number: 1150-CZXQTQ Expires March 22, 2034	3,000 m <sup>3</sup> /day	1,500 L/min

#### 4.0 Annual Report

Raw and Finished water are sampled and tested for chemical, physical and microbiological parameters in accordance with the requirements of O. Reg. 170/03. This annual report must be completed for the previous year by February 28<sup>th</sup> and also made available to the public free of charge. The annual report will be posted to the Township website by February 17<sup>th</sup>, 2025, along with a public notice indicating where the report can be located.

#### 5.0 Drinking Water Quality Management Standard

This section provides an up-date on the Drinking Water Quality Management Standard (DWQMS).

##### Licence and Permit

The current Municipal Drinking Water Licence (MDWL) and Drinking Water Works Permit (DWWP) were issued on June 25<sup>th</sup>, 2021, and are valid until June 24<sup>th</sup>, 2026, with the application for renewal due December 21<sup>st</sup>, 2025.

In 2024 a new Permit to Take Water (PTTW) was issued and is valid until March 22, 2034.

##### Accreditation 3<sup>rd</sup> Party –Certification Audit:

The objective of the certification audit is to determine whether the Drinking Water Quality Management System (QMS) is conforming to the requirements of the MECP DWQMS. The audit of the Millbrook Drinking Water System Operational Plan was conducted by an NSF auditor on August 16, 2024. This audit found that there was a minor non-conformance in relation to how the internal audit was performed. Specifically, the internal audit records did not show that two elements of the DWQMS were included in the internal audit. To rectify this a new audit

checklist was developed to ensure all elements were documented in the internal audit.

**Risk Assessment (Element 7) and Risk Assessment Outcomes (Element 8):**

The 12-month risk assessment review was conducted August 6, 2024. The team reviewed the previous risk assessment table and found it suitable for the current date.

**Internal Audit (Element 19):**

An internal audit was conducted July 10-11, 2024 for the period of June 23, 2023 to July 1, 2024. There were two (2) opportunities for improvement noted which will be included on the next Operational Plan review and update.

**Management Review (Element 20):**

A Management Review was conducted on August 6, 2024, for the period of January 1 to August 5, 2024, with top management, which included the Manager, Laboratory and Water Services Operations Foreman and Manager, Environmental Protection Services.

## Appendix A – Legislative Requirements and Applicable Legislation

## **A.0 Legislated Requirements**

### **A.1 Acts and Regulations**

Systems regulated in Ontario must meet the requirements of the *Safe Drinking Water Act, 2002* and its regulations. Most notably, the *Drinking Water Systems Regulation* which sets out the treatment and testing requirements for all categories of regulated water systems.

In Part Two of the Walkerton Inquiry Report, Justice Dennis O'Connor recommended that the Ontario government enact a *Safe Drinking Water Act, 2002* to deal with matters related to treatment and distribution of drinking water. As expressed by Justice O'Connor, the purpose of the *Safe Drinking Water Act, 2002* is to gather in one place all legislation and regulations relating to the treatment and distribution of drinking water.

As recommended by Justice O'Connor, the government passed the *Safe Drinking Water Act, 2002* which expands on existing policy and practice and introduces new features to protect drinking water in Ontario. The act's purpose is to protect human health through the control and regulation of drinking water systems and drinking water testing. The act also provides legislative authority to implement 50 of the 93 recommendations made in Justice O'Connor's Part Two Report.

### **A.2 Safe Drinking Water Act, 2002**

The SDWA states that the people of Ontario are entitled to expect their drinking water to be safe. It provides for the protection of human health and prevents drinking water health hazards through the control and regulation of drinking water systems and drinking water testing.

The SDWA along with its associated regulations specifies the requirements for drinking water systems, testing services, and certification of system operators. It also sets out quality standards and mechanisms for compliance and enforcement.

The two sections of the SDWA that are important for Municipal Councilors and Top Managers/Directors are Section 11: Duties of Owners and Operating Authorities and Section 19: Statutory Standard of Care, Municipal Drinking Water Systems.

### **A.3 Safe Drinking Water Act, 2002 Section 11 Duties of Owners and Operating Authorities**

Section 11 of the Act describes the legal responsibilities of the owners and operating authorities of regulated drinking water systems.

Owners and operating authorities are responsible for ensuring their drinking water system:

1. Provides water that meets all the prescribed drinking water quality standards.
2. Operate in accordance with the Act, regulations and are kept in a fit state of repair.
3. Appropriately staffed and supervised by qualified persons.
4. Comply with all sampling, testing, and monitoring requirements.
5. Meet all reporting requirements.

#### **A.4 Safe Drinking Water Act, 2002 Section 19 Statutory Standard of Care**

Section 19 of the Act, requires that anyone in a position of oversight to the municipal water system applies a statutory standard of care to their oversight activities. This section extends the legal responsibilities to those who are in the position to oversee the municipal drinking water systems. Specifically, the people with decision making authority over the drinking water system. This section requires they exercise the level of care, diligence, and skill with regard to a municipal drinking water system that a reasonably sensible person would be expected to exercise in a similar situation and that they exercise this due diligence honestly, competently and with integrity.

Section 19 Standard of Care applies to the owner of the system, where the drinking water system is owned by a municipality this includes:

- Every person who oversees the accredited operating authority (Millbrook Drinking Water System) for the system.
- Every person who exercises decision making authority over the system.

This does not require that everyone involved in the oversight be an expert, but they must exercise a level of care, diligence and skill in respect of the drinking water system. Part of this diligence would include engaging persons who would have the expertise to operate a drinking water system.

Failure to comply with the SDWA, Section 19 of the Act or its regulations is an offense and has serious consequences for non-compliance which could result in the prosecution of an individual, corporation, or both.

A conviction under Section 19 could result in financial penalties worth \$20,000 per each day or part day the offence occurred, imprisonment or both. If the breach of section 19 is severe enough a fine as much as \$4,000,000 for each day or part day the offence occurred, or imprisonment or both could occur.

To better meet the responsibilities of the Standard of Care everyone in a position of oversight should become and stay informed. Staying informed is best done by:

- Becoming acquainted with drinking water legislation and regulations,

- Understanding the roles and responsibilities of councilors, senior management and other officials who exercise decision making authority,
- Becoming familiar with your drinking water system,
- Hire competent senior management,
- Reading and asking questions about any reports or information,
- Being satisfied that appropriate steps are taken to address any issues and hiring industry experts when required.

### **A.5 Summary of Provincial Drinking Water Legislation**

ACT	REGULATIONS
<i>Water Opportunities Act, 2010</i> <ul style="list-style-type: none"> <li>• Water Technology Acceleration Project</li> </ul>	O. Reg. 40/11
<i>Clean Water Act, 2006</i> <ul style="list-style-type: none"> <li>• Source Protection Areas and Regions</li> <li>• Source Protection Committee</li> <li>• General</li> <li>• Service of Documents</li> </ul>	O. Reg. 284/07 O. Reg. 288/07 O. Reg. 287/07 O. Reg. 231/07
<i>Safe Drinking Water Act, 2002</i> <ul style="list-style-type: none"> <li>• Municipal Residential Drinking Water Systems in Source Protection Areas</li> <li>• Financial Plans</li> <li>• Schools, private schools and day nurseries</li> <li>• Service of Documents</li> <li>• Licensing of Municipal Drinking Water Systems</li> <li>• Compliance and Enforcement</li> <li>• Certification of Drinking Water System Operators and Water Quality Analysts</li> <li>• Drinking Water Testing Services</li> <li>• Definitions of Deficiency and Municipal Drinking Water Systems</li> <li>• Definitions of Words and Expressions Used in the Act</li> <li>• Drinking Water Systems</li> <li>• Ontario Drinking Water Quality Standards</li> </ul>	O. Reg. 205/18 O. Reg. 453/07 O. Reg. 243/07 O. Reg. 229/07 O. Reg. 188/07 O. Reg. 242/05 O. Reg. 128/04  O. Reg. 248/03 O. Reg. 172/03 O. Reg. 171/03 O. Reg. 170/03 O. Reg. 169/03
<i>Ontario Water Resources Act, 1990</i> <ul style="list-style-type: none"> <li>• Charges For Taking Ground Water to Produce Bottled Water</li> <li>• Taking Ground Water to Produce Bottled Water</li> <li>• Experimental Lakes Area (Water Resources)</li> </ul>	O. Reg. 176/17 O. Reg. 463/16 O. Reg. 61/14

**2024 Millbrook Drinking Water System Summary Report**

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<ul style="list-style-type: none"> <li>• Charges for Industrial and Commercial Water Users</li> <li>• Service of Documents</li> <li>• Environmental Penalties</li> <li>• Water Taking and Transfer</li> <li>• Secured Creditors, Receivers, Trustees in Bankruptcy</li> <li>• Approval Exemptions</li> <li>• Transitional Provisions Relating to the Repeal of Part VIII of the Environmental Protection Act</li> <li>• Additional Charges</li> <li>• Wells</li> </ul>	<p>O. Reg. 450/07  O. Reg. 226/07  O. Reg. 223/07  O. Reg. 387/04  O. Reg. 299/02  O. Reg. 525/98    O. Reg. 155/98  O. Reg. 157/93  R.R.O. 1990, Reg. 903</p>
<p><i>Environmental Protection Act, 1990</i>  <i>Along with 81 supporting regulations</i></p> <ul style="list-style-type: none"> <li>• Applications for Environmental Compliance Approvals</li> <li>• Environmental Compliance Approvals – Exemptions from Section 9 of the Act</li> </ul>	<p>O. Reg. 255/11  O. Reg. 524/98</p>

## Appendix B – Acronyms and Definitions



## List of Acronyms

AQWI	Adverse Water Quality Incidents
DWWP	Drinking Water Works Permit
FAC	Free Available Chlorine
GUDI	Ground Water Under Direct Influence of Surface Water
MDWL	Municipal Drinking Water Licence
MECP	Ministry of the Environment Conservation and Parks
MOH	Medical Officer of Health
PTTW	Permit To Take Water
R.R.O	Revised Regulations Ontario (1990)
RWW	Raw Water Well
SDWA	Safe Drinking Water Act
WDS	Water Distribution System
WTP	Water Treatment Plant

## List of Definitions

“Director” - reference to the director appointed under the Safe Drinking Water Act, 2002

“Owner” - Municipal drinking water system is often the municipality as a corporate entity. Members of municipal councils and municipal officials who provide oversight to this corporate entity also provide oversight or exercise decision making authority in respect of the drinking water systems it owns. They are responsible for having policies, management tools and processes in place so that the municipality meets all its legislative and regulatory requirements under the SDWA.

“Operator or Operating Authority” – The Operating Authority is the person or entity that is given responsibility by the owner for the day-to-day operations of the drinking water system, its management, maintenance or alternation. A municipality may take on this operational role through its own staff or it may choose to contract it out to a third party.

# ANNUAL REPORT

FOR

## MILLBROOK DRINKING WATER SYSTEM

**PERIOD: January 1, 2024 – December 31, 2024**

TOWNSHIP OF  
**CAVAN MONAGHAN**



*Have it all. Right here.*

  
peterborough

<b>Drinking-Water System Number:</b>	220000781
<b>Drinking-Water System Name:</b>	Millbrook Drinking Water System
<b>Drinking-Water System Owner:</b>	Township of Cavan Monaghan
<b>Drinking-Water System Category:</b>	Water Distribution and Supply Class II
<b>Period being reported:</b>	January 1, 2024 to December 31, 2024

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X ]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X ] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>Township of Cavan Monaghan 988 County Road 10 Millbrook, ON L0A 1G0 <a href="http://www.cavanmonaghan.net">www.cavanmonaghan.net</a></p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></p>
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**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

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

Drinking Water System Name	Drinking Water System Number
N/A	

**Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?**  
 Yes [ ] No [ ] N/A

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

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method - Social Media (Twitter Facebook or Instagram)

**Describe your Drinking-Water System**

The Millbrook Drinking Water System and distribution system is operated by The City of Peterborough, Environmental Services Division, under contract with the Township of Cavan Monaghan.

The Millbrook Drinking Water System municipal water system consists of the following:

- Three non-GUDI groundwater
- Sodium hypochlorite disinfection feed system with metering pumps
- 71 m of 900 mm oversized contact pipe
- Continuous on-line chlorine analyzers
- Continuous on-line flow meters
- Standpipe with 2,600 m<sup>3</sup> of storage

**List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite (Chlorine)

**Were any significant expenses incurred to?**

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

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

Rehabilitation of Well 2.

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
None					

**Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.**

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw RW1	52	0 – 0	0 – 0	52	0 – 32
Raw RW2	52	0 – 0	0 - 4	52	0 – 105
Raw RW3	52	0 – 0	0 - 0	52	0 – 19
Treated	52	0 – 0	0 - 0	52	0 – 21
Distribution	210	0 – 0	0 - 3	209	0 – 7

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.**

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
<b>Turbidity</b>			
Well 1	52	0.24 – 0.88	NTU
Well 2	51	0.22 – 0.88	
Well 3	52	0.18 – 1.90	
Chlorine - Free Treated Water	8760	1.27 – 2.58	mg/L
Chlorine – Free Distribution	210	1.32 – 2.08	mg/L
Fluoride (If the DWS provides fluoridation)			

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

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

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

Parameter	Sample Date	Result Value	nit of Measure	Exceedance
Antimony	Jan 16	0.6<MDL	µg/L	No
Arsenic	Jan 16	0.6	µg/L	No
Barium	Jan 16	130	µg/L	No
Boron	Jan 16	10	µg/L	No
Cadmium	Jan 16	0.003	µg/L	No
Chromium	Jan 16	0.33	µg/L	No
Mercury	Jan 16	0.01<MDL	µg/L	No
Selenium	Jan 16	0.15	µg/L	No
Uranium	Jan 16	0.92	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Fluoride	May 7	0.1<MDL	mg/L	No
Nitrite	Jan 9	0.05<MDL	mg/L	No
	April 9	0.05<MDL		
	July 9	0.05<MDL		
	October 8	0.05<MDL		
Nitrate	Jan 9	1.29	mg/L	No
	April 9	1.09		
	July 9	1.66		
	October 8	1.69		

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

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	0	0	µg/L	0
Distribution	4	0.5<MDL	µg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Jan16	0.02<MDL	µg/L	No
Atrazine + N-dealkylated metabolites	Jan16	0.01<MDL	µg/L	No
Atrazine	Jan16	0.01<MDL	µg/L	No
Azinphos-methyl	Jan16	0.05<MDL	µg/L	No
Benzene	Jan16	0.32<MDL	µg/L	No
Benzo(a)pyrene	Jan16	0.004<MDL	µg/L	No
Bromoxynil	Jan16	0.33<MDL	µg/L	No
Carbaryl	Jan16	0.05<MDL	µg/L	No
Carbofuran	Jan16	0.01<MDL	µg/L	No
Carbon Tetrachloride	Jan16	0.17<MDL	µg/L	No
Chlorpyrifos	Jan16	0.02<MDL	µg/L	No
Diazinon	Jan16	0.02<MDL	µg/L	No
Dicamba	Jan16	0.20<MDL	µg/L	No
1,2-Dichlorobenzene	Jan16	0.41<MDL	µg/L	No
1,4-Dichlorobenzene	Jan16	0.36<MDL	µg/L	No
1,2-Dichloroethane	Jan16	0.35<MDL	µg/L	No
Dichloromethane	Jan16	0.35<MDL	µg/L	No
2-4 Dichlorophenol	Jan16	0.15<MDL	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan16	0.19<MDL	µg/L	No
Diclofop-methyl	Jan16	0.40<MDL	µg/L	No
Dimethoate	Jan16	0.06<MDL	µg/L	No
Diquat	Jan16	1<MDL	µg/L	No
Diuron	Jan16	0.03<MDL	µg/L	No
Glyphosate	Jan16	1<MDL	µg/L	No

Parameter	Sample Date	Results Value	Unit of Measure	Exceedance
HAA (NOTE: show latest annual average)	Average	5.3<MDL	µg/L	No
Malathion	Jan16	0.02<MDL	µg/L	No
Metolachlor	Jan16	0.01<MDL	µg/L	No
Metribuzin	Jan16	0.02<MDL	µg/L	No
Monochlorobenzene	Jan16	0.30<MDL	µg/L	No
Paraquat	Jan16	1<MDL	µg/L	No
Pentachlorophenol	Jan16	0.15<MDL	µg/L	No
Phorate	Jan16	0.01<MDL	µg/L	No
Picloram	Jan16	1<MDL	µg/L	No
Polychlorinated Biphenyls(PCB)	Jan16	0.04<MDL	µg/L	No
Prometryne	Jan16	0.03<MDL	µg/L	No
Simazine	Jan16	0.01<MDL	µg/L	No
THM (NOTE: show latest annual average)	Average	4.688	µg/L	No
Terbufos	Jan16	0.01<MDL	µg/L	No
Tetrachloroethylene	Jan16	0.35<MDL	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan16	0.20<MDL	µg/L	No
Triallate	Jan16	0.01<MDL	µg/L	No
Trichloroethylene	Jan16	0.44<MDL	µg/L	No
2,4,6-Trichlorophenol	Jan16	0.25<MDL	µg/L	No
Trifluralin	Jan16	0.02<MDL	µg/L	No
Vinyl Chloride	Jan16	0.17<MDL	µg/L	No

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

Parameter	Result Value	Unit of Measure	Date of Sample
None			