



**The Corporation of the City of Belleville,
Environmental Services Department**

2025 Summary and Annual Reports for Belleville and Point Anne Hamlet Drinking Water Systems

January 1st, 2025 to December 31st, 2025

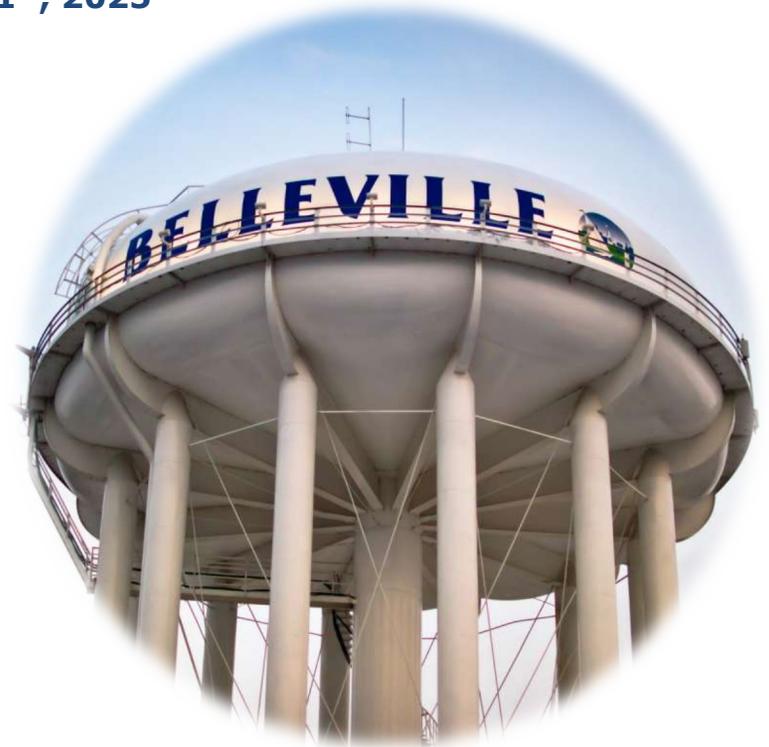


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2025 Summary Report – Belleville

Drinking Water System Number: 220001628

Drinking Water System Name: Belleville Drinking Water System

Drinking Water System Owner: The Corporation of the City of Belleville

Drinking Water System Category: Large Municipal Residential

Ontario's Safe Drinking Water Act sets the framework for safe drinking water in the Province of Ontario. Further, Ontario Regulation 170 / 03 (O. Reg. 170 / 03) sets requirements for public waterworks for sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

This summary report has been prepared in accordance with Schedule 22 of Ontario Regulation 170 / 03. Free copies are available on our website and in person at the Water Operations Centre. We will post notice of availability on our website and / or through the local newspapers.

For further information about provincial drinking water requirements visit the [Ministry of Environment Conservation and Parks \(MECP\) website](#) and select "Drinking Water".

Ontario Regulation 170 / 03, Schedule 22 – Summary Reports for Municipalities

This section outlines the requirements of Schedule 22 and how we are achieving them.

- **Section 22-1** states that this Schedule applies to both large and small municipal residential systems.
 - The Belleville Drinking Water System is a large municipal residential system and as such we will complete and submit a summary report. This summary report is prepared in accordance with Schedule 22 of O. Reg. 170 / 03.
- **Section 22-2 (1)** requires that we complete a Summary Report by March 31st of each year and submit it to council members.
 - Each year we prepare a Summary Report to fulfill this requirement. This report covers January 1st to December 31st, 2025 and was submitted to council prior to March 31st, 2026.
- **Section 22-2 (2) (a) and (b)** requires that we provide a list of any requirements that we did not meet at any time during the period covered by the annual report.
 - The Belleville Drinking Water System met all requirements for the period of January 1st to December 31st, 2025
 - O. Reg 170 / 03, Section 11 (6) (b) and (d) requires that we prepare any details about adverse water quality incidents and share this with the public. Details about adverse water quality incidents are included as part of every annual report.
- **Section 22-2 (3)** requires us to submit flow summaries and comparisons in relation to the rated flow capacities stated in the system approvals.
 - This report includes the flow summary and flow rate comparisons, found on page 10.
- **Section 22-2 (4)** requires us to provide a copy of this summary report to any municipality that the drinking water system supplies water to.

- The Belleville Drinking Water System supplies water to the Rossmore / Fenwood Gardens Distribution System (WW# 260005008) and we will provide a copy of this summary report to them.
- **Section 22-3** states that we do not have to submit a compliance report for any drinking water systems that comply with Section 22-2.
 - We are compliant with Section 22-2 and therefore, we have not submitted a compliance report.

Quantities and Flow Rates of Water Taken and Supplied

Table 1: Raw Water

Values in Mega Litres (M.L), unless otherwise noted

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (M.L per day)	Peak Instantaneous Flow Rate (Litres per minute)
January	794.570	25.631	29.600	22.660	48.960	34000
February	681.390	24.335	27.110	22.610	41.540	28847
March	701.610	22.633	24.540	20.590	38.690	26868
April	662.700	22.090	24.130	19.690	42.050	29201
May	707.410	22.820	25.090	20.120	47.840	33222
June	772.270	25.742	29.220	22.180	48.330	33563
July	887.260	28.621	32.570	23.280	59.800	41528
August	872.180	28.135	23.330	23.080	45.340	31486
September	742.810	24.760	27.020	22.550	48.000	33333

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (M.L per day)	Peak Instantaneous Flow Rate (Litres per minute)
October	707.420	22.820	25.900	20.890	41.250	28646
November	661.600	22.053	23.480	20.590	48.970	34007
December	734.980	23.709	26.500	20.120	41.590	28882

Annual Totals:

- Total Annual Volume = 8926.200 (total sum of January to December values)
- Average Daily Volume overall = 24.446 (total sum of January to December values divided by 12)
- Maximum Daily Value reached = 34.330 (August)
- Minimum Daily Value reached = 19.690 (April)
- Highest Peak Instantaneous Flow Rate (M.L per day) reached = 59.800 (July)
- Highest Peak Instantaneous Flow Rate (Litres per minute) = 41528 (July)

Table 2: Treated Water

Values in Mega Litres

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value
January	700.250	22.589	23.790	20.530
February	613.930	21.926	23.760	20.490
March	629.730	20.314	21.340	18.410
April	589.330	19.644	21.420	17.370
May	626.150	20.198	22.310	17.650
June	686.900	22.897	25.970	19.780
July	765.390	24.690	28.030	20.610
August	740.950	23.902	28.590	20.410
September	654.020	21.801	23.940	19.550
October	621.140	20.037	23.250	18.160
November	578.760	19.292	20.610	17.760
December	638.500	20.597	23.140	17.370

Annual Totals:

- Total Annual Volume = 7845.050 (total sum of January to December values)
- Average Daily Volume overall = 21.490 (total sum of January to December values divided by 12)
- Maximum Daily Value reached = 28.590 (August)
- Minimum Daily Value reached = 17.370 (April & December)

Water Flow Comparisons

Raw Water Comparisons

- Maximum daily volume allowed under the current Permit to Take Water (P-300-6285254088) = **72.640 Mega Litres**
- Peak instantaneous flow rate allowed under the current Permit to Take Water (P-300-6285254088) = **50444 Litres per minute**

The Belleville Drinking Water System Actuals for the Year 2025:

- Maximum daily volume = **34.330 Mega Litres**
- Peak instantaneous flow rate = **41528 Litres per minute**

The Belleville Drinking Water System did not exceed the approved maximum daily volume or peak instantaneous flow rate stipulated in the current Permit to Take Water.

Treated Water Comparisons

- Maximum allowable daily volume entering the distribution system under Municipal Drinking Water License 151-101 = **72.700 Mega Litres**

The Belleville Drinking Water System Actuals for the Year 2025:

- Maximum daily volume = **28.590 Mega Litres**

The Belleville Drinking Water System did not exceed the maximum daily plant volume stipulated in the Municipal Drinking Water License.

Belleville Drinking Water System 2025 Annual Report

Waterworks number 220001628, January 1st, 2025 to December 31st, 2025

This report is prepared in accordance with Section 11 of Ontario Regulation 170 / 03. O. Reg. 170 / 03 sets requirements for public waterworks with regards to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

The Belleville Drinking Water System also supplies drinking water to the Rossmore / Fenwood Gardens Distribution System. In accordance with Section 11 (2.1) a copy of this report is provided to the Rossmore / Fenwood Gardens Operating Authority.

Ontario Regulation 170/03, Section 11 – Annual Reports

This section outlines the requirements of Section 11 and how we are achieving them.

- **Section 11 (1):** the owner of a drinking water system must ensure that an annual report is prepared in accordance with this section.
 - This annual report fulfils the requirements of Section 11.
- **Section 11 (2):** “The owner of a drinking water system, other than a large municipal residential system or a small municipal residential system . . .”
 - The Belleville Drinking Water System is a large municipal residential system and therefore section 11 (2) does not apply to us.
- **Section 11 (2.1):** if a drinking water system is connected to and receives all of its water from another drinking water system, the owner of the system from which the water is obtained shall ensure that,

when the annual report for the system is prepared, a copy of the report is given to the owner of the system that obtains the water.

- The Belleville Drinking Water System supplies water to the Rossmore / Fenwood Gardens Distribution System (WW# 260005008). A copy of this annual report will be provided to them.
- **Section 11 (3):** as a large municipal residential drinking water system, our annual report must cover the period from January 1 to December 31 and be prepared not later than February 28 of the following year.
 - This annual report covers the period from January 1st – December 31st, 2025 and was prepared prior to February 28th, 2026.
- **Section 11 (4):** Applies to non-municipal seasonal residential systems and large non-municipal non-residential systems.
 - The Belleville Drinking Water System is classified as a large municipal residential system and therefore this subsection does not apply.
- **Section 11 (5):** Applies to small non-municipal non-residential systems
 - The Belleville Drinking Water System is classified as a large municipal residential system and therefore this subsection does not apply.
- **Section 11 (6)(a):** Our annual report must contain a brief description of the drinking water system, including a list of water treatment chemicals the system uses during the period covered by the report.
 - A description of the Belleville Drinking Water System can be found in this report beginning on page 16.
- **Section 11 (6)(b):** Our annual report must summarize any reports made to the Ministry under Section 18 (1) of the Act or Section 16-4 of Schedule 16 during the period covered by the report.
 - A chart showing all Adverse Water Quality Incidents and corrective actions can be found on page 21 of this report.

- **Section 11 (6)(c):** Our annual report must summarize the results of the tests required under this Regulation, an approval, or a municipal drinking water license or order (including an OWRA order) during the period covered by the report. If tests regularly required under this Regulation were not required during the current reporting period, summarize the most recent results of those tests.
 - Test results for the Belleville Drinking Water System can be found in this report beginning on page 22.
- **Section 11 (6)(d):** Our annual report must describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report.
 - All corrective actions taken by the Belleville Drinking Water System under Schedule 17 can be found in the chart located on page 21.
- **Section 11 (6)(e):** Our annual report must describe any major expenses incurred during the period covered by the report to install, repair, or replace equipment.
 - A description of major expenses incurred during the period of this report can be found on page 32.
- **Section 11 (6)(f):** Our annual report must include a statement of where a report prepared under Schedule 22 will be available for inspection under Subsection 12 (4).
 - The Belleville Drinking Water System Summary Report, prepared under Schedule 22, can be found on-line at www.belleville.ca and at the Water Operations Centre.
- **Section 11 (7):** The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy.
 - Copies of the Belleville Drinking Water System annual report are available to the public, upon request and free of charge, at the Water Operations Centre.
- **Section 11 (8):** If a drinking water system is connected to and receives all of its drinking water from another drinking water system, the owner of the system that obtains the water shall ensure that a copy

of an annual report for the system from which the water is obtained is given, without charge, to every person who requests a copy.

- The Rossmore / Fenwood Gardens Distribution System (WW# 260005008) obtains water from the Belleville Drinking Water System and as such is responsible for this subsection. A copy of the City of Belleville's report is provided to Prince Edward County in accordance with section 11 (2.1).
- **Section 11 (9): Subsections (7) and (8) do not apply to an annual report that is more than two years old.**
 - Annual reports dating back to 2008 for the Belleville Drinking Water System are available to the public, upon request and free of charge, by contacting the Water Operations Centre.
- **Section 11 (9.1):** Every time that an annual report is prepared for a drinking water system, the owner of the system shall ensure that effective steps are taken to advise the users of water from the system that copies are available, without charge, and how a copy may be obtained.
 - The Belleville Drinking Water System utilizes both the local newspaper and the City of Belleville website (www.belleville.ca) to inform the public when the annual report is available.
- **Section 11 (10):** If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet.
 - The Belleville Drinking Water System Annual and Summary Reports are available on-line at www.belleville.ca.
- **Section 11 (11):** Applies to designated facilities under subsection (2)
 - Subsection (2) does not apply to the Belleville Drinking Water System and therefore Section 11 (11) is also not applicable.
- **Section 11 (12) to (17) have been revoked.**

- **Section 11 (18):** If section 12 of Ontario Regulation 459/00 and Section 15 of Ontario Regulation 505/01 did not apply to the owner of a system to which Subsection (5) applies, no report is required to be prepared under Subsection (5) until May 31, 2006 and, despite that subsection, the report required to be prepared not later than May 31, 2006 shall cover the period from June 1, 2005 to March 31, 2006.
 - Subsection (5) does not apply to the Belleville Drinking Water System and therefore this section does not apply.
- **Section 11 (19) has been revoked.**

Belleville Plant Description and Water Treatment Process

Raw Water Intake Facilities

The source of water for the City of Belleville is the Bay of Quinte south of Sidney Street. A 750mm diameter intake pipe extends 430 metres into the Bay, to a depth of 5.5 metres. A 900mm diameter intake pipe also extends 490 metres into the Bay, to a depth of 5.5 metres. Potassium permanganate is added in the intake for taste and odour control, and as a deterrent to zebra mussels.

Low Lift Pumping Station

The raw water flows through the intake pipes to the traveling intake screen (10mm mesh) located in the raw water well. This removes large debris such as fish, weeds, and shells. Four low lift pumps (rated for 290 L/s) lift the water from the Bay level to the rapid mix tanks. From the rapid mix tanks, the water will flow by gravity through the various plant processes.

Pre-Treatment Facility

The coagulant is mixed with the raw water flowing through the two trains of two-cell up-flow rapid mix tanks, each with a volume of 245 m³ and a 5.6 kW propeller type mixer. From the rapid mix tanks, the water will flow by gravity to the coagulation / flocculation process. The pre-treatment process consists of 2 parallel trains.

Coagulation

Aluminum sulphate (alum) is added at the rapid mix tanks, as a coagulant to form a 'floc'. This floc is made up of alum and suspended particles (dirt, colour, organics) which are found in raw water. This is the first stage of the coagulation/flocculation process.

The coagulated water/alum solution gently flows by gravity to the three-stage spiral up-flow flocculation tanks, each cell having a volume of 184 m³, to a common discharge channel. This water, with floc forming in it, flows by gravity to either the dissolved air flotation process (spring, summer, fall) or the sedimentation process (winter). The flocculation process consists of 3 parallel trains.

Dissolved Air Flotation Facility

The Dissolved Air Flotation process is used when the Bay of Quinte is free of ice. Daily changing weather conditions, such as wind and rain, cause increases in raw water turbidity. Summer and fall weather promote organic growth, such as algae. The dissolved air flotation process handles these changing conditions very well, with minimal coagulant dose adjustment.

In this process, two separate two-cell dissolved air flotation tanks receive the water from the coagulation/flocculation process. Here, an aerated water solution is bubbled gently through this water, causing the floc to attach to air bubbles and rise to the surface. The cleaner water remains at the bottom of the tank. This cleaner water then flows, by gravity, to the filtration process. The 'float', or residual, is comprised of dirt, organics, some colour, bacteria, viruses, and other particulate. It is removed on a scheduled basis and pumped to the on-site waste treatment facility.

The aerated solution is produced on-site by forcing compressed air into treated water, in two 13.5 m³ saturation tanks. The dissolved air flotation process consists of two parallel trains.

Sedimentation

Sedimentation is used as an alternate to the dissolved air flotation process when the Bay is covered with ice. With ice cover, the raw water quality is relatively constant, and the normal sedimentation process works well. It is also less energy intensive than the dissolved air flotation process.

During the winter months, the flocculated water flows, by gravity, from the coagulation/flocculation process directly to two separate inclined plate settlers, where the floc adheres to the plates, and

eventually becomes heavy enough to slide down the plates as the volume of settled material increases. The cleaner water rises to the top of the plate settler and flows by gravity to the filtration process.

The settled material contains dirt, organics, some colour, bacteria, viruses, and other particulate. This waste material is slowly removed from the bottom by a vacuum and pumped to the on-site waste treatment facility.

The sedimentation process consists of two parallel trains.

Filtration

The filtration process consists of twelve (12) parallel granular activated carbon (GAC) gravity filters. These filters receive the water from the dissolved air flotation or sedimentation process. This water arrives on the top of the filter, and then settles through the GAC and sand media by gravity, and any remaining particulate is trapped in this media. The GAC also removes tastes and odours by adsorption. The water settles through the sand media, into the underdrains, and then falls to the chlorine contact chamber. The filters operate in a parallel design and can each filter 6 Mega Litres (ML) of water per day. The filters each have a surface area of 38.5 m² and contain a layer of GAC over a layer of sand, supported by stainless steel or clay tile underdrains. The filters are monitored for effluent turbidity, head loss and flow. The filters are cleaned by backwashing every 48 hours using treated city water.

Disinfection

Sodium hypochlorite (hypo) is used to post-disinfect the filtered water in the chlorine contact chamber. A very small amount of hypo is also added at the rapid mixers to maintain plant hygiene. Dosage varies based on the biological demand. This chlorinated water is held for a prescribed time to ensure thorough oxidation of any pathogens. The 'CT' free chlorine residual is monitored.

Fluoridation

After disinfection, fluoride is added to the water to provide dental health protection for consumers.

High Lift Pumping Station

At this point, the treatment process is complete, and the water is safe for consumer use.

Five vertical turbine-type high lift pumps, each rated at 240 L/s, pump the treated water to the consumer via the distribution system. Alternatively, two transfer pumps rated at 81 L/s can be used to pump treated water directly to the Water Treatment Plant Reservoir.

Waste Treatment Facility

The water used to backwash filters, the 'float' from the dissolved air flotation process and the sediment from the plate settlers, is dewatered, and concentrated in the on-site waste treatment facility. The thickened sludge is pumped to the City sewage treatment plant for further treatment. The liquid residual, or supernatant, flows by gravity back to the Bay.

Computer/SCADA

Computer technology is used to monitor operations and record data. A Supervisory Control and Data Acquisition (SCADA) system provides communication with, and control of, all plant and reservoir/pumping station operations. Experienced, certified water treatment operators use this technology to operate the Belleville Water Treatment facility.

Distribution

The treated water pumped into the distribution system from the High Lift pumping station may go directly to a consumer, or may go to the elevated storage tower, or one of three storage reservoirs (Water Treatment Reservoir, North Park Reservoir, or Pine Street Reservoir).

The Distribution System is comprised of approximately 266 kilometers of water main, 1549 hydrants, 14,345 service connections, two bulk water filling stations and 1,649 ICI customers.

The City of Belleville also supplies water to the County of Prince Edward for the Rossmore / Fenwood Gardens Distribution System (DWSN# 260005008).

Chemicals Used During This Reporting Period

- Sodium Hypochlorite
- Aluminum Sulphate
- Hydrofluorosilicic Acid
- Potassium Permanganate
- Sodium Bisulphite

O. Reg. 170 / 03 Compliance Tests and Reports - Belleville

Notifications and Corrective Actions – Belleville

In accordance with Schedule 16 and Schedule 17 (O. Reg 170 / 03).

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
May 28 th 2025 AWQI 168384	Total Coliform	9	cfu/100 mL	Flushed and resampled	May 28 th 2025
July 10 th 2025 AWQI 168920	Chlorine	Above 4.00	mg/L	Decreased chlorine dosage and confirmed CT free chlorine reading. Flushed and tested chlorine residual at multiple points in distribution system.	July 10 th 2025

Operational Testing – Belleville

In accordance with Schedule 7 (O. Reg. 170 / 03).

Notes:

- Number of samples:
 - 8760 denotes results from continuous monitoring
 - Free chlorine is measured in the distribution system using continuous analyzers at the City’s reservoirs and grab samples taken from hydrants at various locations. 8760 denotes continuous monitoring and 926 denotes grab samples from hydrants.
- N.T.U refers to Nephelometric Turbidity Units
- mg/L represents milligrams per litre

Parameter	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure
Turbidity	8760	0.02 to 2.00	N.T.U
Free Chlorine at CT Location	8760	1.71 to 5.00	mg/L
Free Chlorine in Distribution	8760 + 926	0.26 to 4.22	mg/L
Fluoride	8760	0.10 to 1.08	mg/L

Microbiological Testing – Belleville

In accordance with Schedules 10 and 17 (O. Reg. 170 / 03) and with the Belleville Municipal Drinking Water License.

Water Type	Number of Samples	Range of E. Coli or Fecal Results (minimum to maximum)	Range of Total Coliform Results (minimum to maximum)	Number of H.P.C Samples	Range of H.P.C Results (minimum to maximum)
Raw	52	0 to 52	2 to 300	52	Less than 10 to greater than 2000
Treated	52	0 to 0	0 to 0	52	Less than 10 to 50
Distribution	979	0 to 0	0 to 9	413	Less than 10 to 490

Note: H.P.C. refers to heterotrophic plate count

Chemical Testing – Belleville

In accordance with Schedule 13 (O. Reg. 170 / 03). Sample results for Schedule 23 and Schedule 24 can be found on starting on page 26 of this report.

Notes:

- µg/L represents micrograms per litre
- mg/L represents milligrams per litre

Parameter	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure
Trihalomethane	4	39 to 82	µg/L
Haloacetic Acids	4	31.5 to 56.0	µg/L
Nitrate and Nitrite	4	less than 0.05 to 0.51	mg/L
Sodium	4	12.6 to 16.0	mg/L

Lead Testing Summary – Belleville

In accordance with Schedule 15.1 (O. Reg. 170 / 03).

Location Type	Number of Samples	Range of Results (minimum to maximum)	Number of Exceedances
Lead - Plumbing	0	Not Applicable	0
Lead - Distribution	4	0.00005 to 0.00012	0
Alkalinity - Distribution	8	75 to 89	0
pH - Plumbing	0	Not Applicable	0
pH - Distribution	8	6.79 to 7.47	0

The Belleville Drinking Water System has reached exemption status regarding the Lead Sampling Program. Following the Winter Lead Sampling Period (December 2012 to April 2013) the Belleville Drinking Water System satisfied the requirements of Sections 15.1 to 15.5(9) of Ontario Regulation 170 / 03, and as such began sampling in accordance with Sections 15.1 to 15.5(10).

Inorganic Testing – Belleville

In accordance with Schedule 23 (O. Reg. 170 / 03)

Notes:

- µg/L represents micrograms per litre

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	May 28 th 2025	less than 0.6	µg/L	No
Arsenic	May 28 th 2025	less than 0.2	µg/L	No
Barium	May 28 th 2025	32.0	µg/L	No
Boron	May 28 th 2025	8	µg/L	No
Cadmium	May 28 th 2025	0.005	µg/L	No
Chromium	May 28 th 2025	0.19	µg/L	No
Mercury	May 28 th 2025	less than 0.01	µg/L	No
Selenium	May 28 th 2025	0.05	µg/L	No
Uranium	May 28 th 2025	0.037	µg/L	No

Organic Testing – Belleville

In accordance with Schedule 24 (O. Reg. 170 / 03).

Notes:

- µg/L represents micrograms per litre
- mg/L represent milligrams per litre
- < represents “less than” the value that follows it

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachor	May 28 th 2025	<0.02	µg/L	No
Atrazine + N-dealkylated metabolites	May 28 th 2025	<0.01	µg/L	No
Azinphos-methyl	May 28 th 2025	<0.05	µg/L	No
Benzene	May 28 th 2025	<0.32	µg/L	No
Benzo(a)pyrene	May 28 th 2025	<0.004	µg/L	No
Bromoxynil	May 28 th 2025	<0.33	µg/L	No
Carbaryl	May 28 th 2025	<0.05	µg/L	No
Carbofuran	May 28 th 2025	<0.01	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Carbon Tetrachloride	May 28 th 2025	<0.17	µg/L	No
Chlorpyrifos	May 28 th 2025	<0.02	µg/L	No
Diazinon	May 28 th 2025	<0.02	µg/L	No
Dicamba	May 28 th 2025	<0.20	µg/L	No
1,2-Dichlorobenzene	May 28 th 2025	<0.41	µg/L	No
1,4-Dichlorobenzene	May 28 th 2025	<0.36	µg/L	No
1,2-Dichloroethane	May 28 th 2025	<0.35	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	May 28 th 2025	<0.33	µg/L	No
Dichloromethane	May 28 th 2025	<0.35	µg/L	No
2,4-Dichlorophenol	May 28 th 2025	<0.15	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	May 28 th 2025	<0.19	µg/L	No
Diclofop-methyl	May 28 th 2025	<0.40	µg/L	No
Dimethoate	May 28 th 2025	<0.06	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Diquat	May 28 th 2025	<1	µg/L	No
Diuron	May 28 th 2025	<0.03	µg/L	No
Glyphosate	May 28 th 2025	<1	µg/L	No
Malathion	May 28 th 2025	<0.02	µg/L	No
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	May 28 th 2025	<0.00012	mg/L	No
Metolachlor	May 28 th 2025	<0.01	µg/L	No
Metribuzin	May 28 th 2025	<0.02	µg/L	No
Monochlorbenzene	May 28 th 2025	<0.3	µg/L	No
Paraquat	May 28 th 2025	<1	µg/L	No
Pentachlorophenol	May 28 th 2025	<0.15	µg/L	No
Phorate	May 28 th 2025	<0.01	µg/L	No
Picloram	May 28 th 2025	<1	µg/L	No
Polychlorinated Biphenyls (PCB)	May 28 th 2025	<0.04	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Prometryne	May 28 th 2025	<0.03	µg/L	No
Simazine	May 28 th 2025	<0.01	µg/L	No
Terbufos	May 28 th 2025	<0.01	µg/L	No
Tetrachloroethylene	May 28 th 2025	<0.35	µg/L	No
2,3,4,6-Tetrachlorophenol	May 28 th 2025	<0.20	µg/L	No
Triallate	May 28 th 2025	<0.01	µg/L	No
Trichloroethylene	May 28 th 2025	<0.44	µg/L	No
2,4,6-Trichlorophenol	May 28 th 2025	<0.25	µg/L	No
Trifluralin	May 28 th 2025	<0.02	µg/L	No
Vinyl Chloride	May 28 th 2025	<0.17	µg/L	No

Inorganic or Organic Parameters – Belleville

Inorganic or organic parameters that exceeded half the standard prescribed in Schedule 2 of the Ontario Drinking Water Quality Standards.

Based on quarterly samples taken January 28th, April 16th, July 15th, and October 7th 2025, our annual average concentration for Trihalomethane is 52.5 µg/L. This exceeds one-half of the Schedule 2 standard, but does not exceed the regulated limit of 100 µg/L.

Based on quarterly samples taken January 28th, April 16th, July 15th, and October 7th 2025, our annual average concentration for Haloacetic acids is 40.4 µg/L. This exceeds one-half of the Schedule 2 standard, but does not exceed the regulated limit of 80 µg/L.

Wastewater Sampling – Belleville

As per Municipal Drinking Water License 151-101.

Parameter	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure	Average
Total Suspended Solids	12	less than 3 to 18	mg/L	6.42
BOD5	12	less than 3 to 9	mg/L	3.92
Total Phosphorus	12	Less than 0.01 to 0.04	mg/L	0.02

Monetary Expenses – Belleville

Significant monetary expenditures in 2025 include:

- Replacement of granular activated carbon in 3 Filters
- Intake inspections
- Fuel storage tank installation and commissioning
- Analytical equipment replacements
- Chemical feedline replacements

W.D water main replacement projects (with our Engineering department):

- Bay Drive Area Watermain Interconnections and Dundas St E Watermain Decommissioning
- Octavia and Henry Streets Reconstruction Phase 1

W.D subdivision water main installation projects (with our Engineering department):

- Riverstone Phase 6
- Riverstone Phase 5
- Setter's Ridge East Phase 3 and Towncentre Drive

Site Plan Large water service installation projects (greater than 50 mm and water main extensions):

- 500 College Street East – Yaya Foods
- 163 Sienna Avenue – Skydev Apartment Development
- 17 Prince of Wales Drive
- 403 Farley Avenue – MAC FIVE Servicing

2025 Summary Report – Point Anne

Drinking Water System Number: 220004359

Drinking Water System Name: Point Anne Hamlet Drinking Water System

Drinking Water System Owner: The Corporation of the City of Belleville

Drinking Water System Category: Small Municipal Residential

Ontario's Safe Drinking Water Act sets the framework for safe drinking water in the Province of Ontario. Further, Ontario Regulation 170 / 03 (O. Reg. 170 / 03) sets requirements for public waterworks for sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

This summary report has been prepared in accordance with Schedule 22 of Ontario Regulation 170 / 03. Free copies are available on our website and in person at the Water Operations Centre. We will post notice of availability on our website and / or through the local newspapers.

For further information about provincial drinking water requirements visit the Ministry of Environment, [Conservation and Parks website](#) And select "Drinking Water".

Ontario Regulation 170/03, Schedule 22 – Summary Reports for Municipalities

This section outlines the requirements of Schedule 22 and how we are achieving them.

- **Section 22-1** states that this Schedule applies to both large and small municipal residential systems.
 - The Point Anne Hamlet Drinking Water System is a small municipal residential system and as such we will complete and submit a summary report. This summary report is prepared in accordance with Schedule 22 of O. Reg. 170 / 03.
- **Section 22-2 (1)** requires a Summary Report to be completed by March 31st of each year and given to members of council.
 - This summary report covers the period from January 1st to December 31st, 2025 and was prepared and submitted to council prior to March 31st, 2026.
- **Section 22-2 (2) (a) and (b)** requires us to provide a list of any requirements that we did not meet any time during the period covered by this report.
 - The Point Anne Hamlet Drinking Water System met all requirements for the period of January 1st to December 31st, 2025.
 - As per O. Reg 170 / 03 Section 11(6) (b) and (d), details on adverse water quality incidents can be found in the Point Anne Hamlet Drinking Water System Annual Report.
- **Section 22-2 (3)** requires that we submit flow summaries and comparisons of flow to rated capacities stated in system approvals.
 - The required flow information can be found beginning on page 36 of this report.
 - The comparison of flow rates versus approved rated capacities can be found on page 41.
- **Section 22-2 (4)** requires that a copy of this summary report be given to any municipality that the Drinking Water System supplies water.

- The Point Anne Hamlet Drinking Water System does not supply water to any other system.
- **Section 22-3** states that compliance reports are not required for drinking water systems that comply with Section 22-2.
 - We are compliant with Section 22-2 and therefore, we have not submitted a compliance report.

Quantities and Flow Rates of Water Taken and Supplied

Table 1: Raw Water

Values in Cubic Metres (C.M), unless otherwise noted

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (C.M per day)	Peak Instantaneous Flow Rate (Litres per minute)
January	320.13	10.33	14.36	7.42	26.88	18.67
February	241.40	8.62	12.68	6.04	47.04	32.67
March	268.50	8.66	12.57	5.98	47.28	32.83
April	254.86	8.50	10.58	6.06	26.88	18.67
May	295.36	9.53	13.65	7.52	27.74	19.27
June	397.37	13.25	20.38	8.90	39.36	27.33
July	521.22	16.81	22.96	11.85	30.72	21.33
August	361.43	11.66	16.97	9.31	31.20	21.67
September	328.12	10.94	16.15	8.61	30.96	21.50

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (C.M per day)	Peak Instantaneous Flow Rate (Litres per minute)
October	329.55	10.63	15.40	8.38	30.72	21.33
November	374.53	12.48	19.53	8.64	32.64	22.67
December	296.21	9.56	12.04	6.71	61.68	42.83

Annual Totals:

- Total Annual Volume = 3988.68 (total sum of January to December values)
- Average Daily Volume overall = 10.91 (total sum of January to December values divided by 12)
- Maximum Daily Value reached = 22.96 (July)
- Minimum Daily Value reached = 5.98 (March)
- Highest Peak Instantaneous Flow Rate (M.L per day) reached = 61.68 (December)
- Highest Peak Instantaneous Flow Rate (Litres per minute) = 42.83 (December)

Table 2: Filtered Water

Values in Cubic Metres (C.M), unless otherwise noted

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (C.M per day)	Peak Instantaneous Flow Rate (Litres per minute)
January	303.80	9.96	14.02	7.25	29.76	20.67
February	230.97	8.25	12.08	5.76	27.36	19.00
March	234.69	7.57	9.48	5.24	26.64	18.50
April	241.39	8.05	9.76	5.91	25.44	17.67
May	275.57	8.89	12.81	7.06	25.92	18.00
June	307.37	10.25	15.50	6.96	28.08	19.50
July	399.96	12.90	16.78	8.84	28.56	19.83
August	305.28	9.85	14.41	7.89	28.56	19.83
September	278.44	9.28	13.03	7.63	29.04	20.17
October	290.83	9.38	13.45	7.59	28.56	19.83

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value	Peak Instantaneous Flow Rate (C.M per day)	Peak Instantaneous Flow Rate (Litres per minute)
November	324.51	10.82	15.16	7.43	28.80	20.00
December	254.22	8.20	10.19	6.25	35.28	24.50

Annual Totals:

- Total Annual Volume = 3452.03 (total sum of January to December values)
- Average Daily Volume overall = 9.45 (total sum of January to December values divided by 12)
- Maximum Daily Value reached = 16.78 (July)
- Minimum Daily Value reached = 5.24 (March)
- Highest Peak Instantaneous Flow Rate (M.L per day) reached = 35.28 (December)
- Highest Peak Instantaneous Flow Rate (Litres per minute) = 24.50 (December)

Table 3: Treated Water

All values in Cubic Metres

Month	Total Monthly Volume	Average Daily Volume	Maximum Daily Value	Minimum Daily Value
January	129.88	4.19	8.64	3.04
February	182.92	6.53	19.86	2.80
March	151.48	4.89	7.06	3.43
April	166.27	5.54	7.29	3.79
May	126.36	4.08	7.86	2.99
June	138.91	4.63	9.37	2.11
July	228.49	7.37	11.96	3.82
August	121.41	3.92	7.55	2.52
September	109.05	3.64	5.22	2.70
October	111.58	3.60	7.77	2.00
November	150.12	5.00	8.12	2.53
December	102.48	3.31	5.15	2.01

Annual Totals:

- Total Annual Volume = 1718.95 (total sum of January to December values)
- Average Daily Volume overall = 4.72 (total sum of January to December values divided by 12)
- Maximum Daily Value reached = 19.86 (February)
- Minimum Daily Value reached = 2.00 (October)

Water Flow Comparisons

Raw Water Comparisons

- Maximum daily volume allowed under the current Permit to Take Water (6206-AVJR89) = **108.00 Cubic Metres**
- Peak instantaneous flow rate allowed under the current Permit to Take Water (6206-AVJR89) = **91.00 Litres per minute**

The Point Anne Hamlet Drinking Water System Actuals for the Year 2025:

- Maximum daily volume = **22.96 Cubic Metres**
- Peak instantaneous flow rate = **42.83 Litres per minute**

The Point Anne Hamlet Drinking Water System did not exceed the approved maximum daily volume or peak instantaneous flow rate stipulated in the current Permit to Take Water.

Treated Water Comparisons

- Maximum allowable daily volume entering the distribution system under Municipal Drinking Water License 151-102 = **108 Cubic Metres**

The Point Anne Hamlet Drinking Water System Actuals for the Year 2025:

- Maximum daily volume = **19.86 Cubic Metres**

The Point Anne Hamlet Drinking Water System did not exceed the maximum daily volume stipulated in the Municipal Drinking Water License.

Filtered Water Comparisons

- Maximum allowable flow rate entering the Package Treatment Plant Subsystem Component under Municipal Drinking Water License 151-102 = **75.00 Litres per Minute**
- Maximum allowable flow rate entering the Cartridge Filters Subsystem Component under Municipal Drinking Water License 151-102 = **24.30 Litres per Minute**

The Point Anne Hamlet Drinking Water System Actuals for the Year 2025:

- Package Treatment Plant Maximum Flow Rate = **24.50 Litres per Minute**
- Cartridge Filters Maximum Flow Rate = **20.67 Litres per Minutes**

The Point Anne Hamlet Drinking Water System did not exceed the maximum flow rates stipulated in the Municipal Drinking Water License.

Point Anne Hamlet Drinking Water System 2025 Annual Report

Waterworks number 220004359, January 1st, 2025 to December 31st, 2025

This report has been prepared in accordance with Section 11 of Ontario Regulation 170 / 03. Regulation 170 / 03 sets requirements for public waterworks with regards to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Ontario Regulation 170 / 03, Section 11 – Annual Reports

This section outlines the requirements of Section 11 and how we are achieving them.

- **Section 11 (1)** requires the owner of a drinking water system to prepare an annual report in accordance with this section.
 - This annual report fulfils the requirements of Section 11.
- **Section 11 (2):** “The owner of a drinking water system, other than a large municipal residential system or a small municipal residential system . . .”
 - The Point Anne Hamlet Drinking Water System is a small municipal residential system and therefore Section 11 (2) does not apply.
- **Section 11 (2.1)** states that if a drinking water system is connected to and receives all of its water from another drinking water system, the owner of the system from which the water is obtained shall ensure that, when the annual report for the system is prepared, a copy of the report is given to the owner of the system that obtains the water.
 - There are no drinking water systems connected to the Point Anne Hamlet Drinking Water System.

- **Section 11 (3)** as a small municipal residential drinking water system, our annual report must cover the period from January 1 to December 31 and be prepared not later than February 28 of the following year.
 - This annual report covers the period from January 1st – December 31st, 2025 and was prepared prior to February 28th, 2026.
- **Section 11 (4):** “In the case of non-municipal seasonal residential systems and large non-municipal non-residential systems”
 - The Point Anne Hamlet Drinking Water System is classified as a small municipal residential system and therefore this section does not apply.
- **Section 11 (5):** “In the case of small non-municipal non-residential systems”
 - The Point Anne Hamlet Drinking Water System is classified as a small municipal residential system and therefore this section does not apply.
- **Section 11 (6)(a)** requires our annual report to contain a brief description of the drinking water system, including a list of water treatment chemicals the system uses during the period covered by the report.
 - A description of the Point Anne Hamlet Drinking Water System can be found in this report beginning on page 48.
- **Section 11 (6)(b)** requires our annual report to include summaries of any reports we made to the Ministry under Section 18 (1) of the Act or Section 16 (4) of Schedule 16 during the period covered by the report.
 - A chart showing all Adverse Water Quality Incidents and corrective actions can be found on page 53 of this report.
- **Section 11 (6)(c)** requires our annual report to include summaries of the test results that are required under this Regulation, an approval, or a municipal drinking water licence or order (including

an OWRA order) during the period covered by the report. If tests required under this Regulation were not required during the reporting period, we must summarize the most recent results of tests of that parameter.

- Required test results for the Point Anne Hamlet Drinking Water System can be found in this report beginning on page 54.
- **Section 11 (6)(d)** states that our annual report must describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report.
 - All corrective actions taken by the Point Anne Hamlet Drinking Water System under Schedule 18 can be found in the chart located on page 53.
- **Section 11 (6)(e)** states that our annual report must describe any major expenses incurred during the period covered by the report to install, repair, or replace equipment.
 - A description of major expenses incurred during the period of this report can be found on page 65.
- **Section 11 (6)(f)** requires that, in the case of a large or small municipal residential system, the annual report must include a statement of where a report prepared under Schedule 22 will be available for inspection under Subsection 12(4).
 - The Point Anne Hamlet Drinking Water System Summary Report, prepared under Schedule 22, is available on our website or at the Water Operations Centre.
- **Section 11 (7)** requires the owner of a drinking water system to ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy.
 - Copies of the Point Anne Hamlet Drinking Water System annual report are available to the public, upon request and free of charge, at the Water Operations Centre.
- **Section 11 (8)** states that if a drinking water system is connected to and receives all of its drinking water from another drinking water system, the owner of the system that obtains the water shall ensure

that a copy of an annual report for the system from which the water is obtained is given, without charge, to every person who requests a copy.

- There are no drinking water systems connected to the Point Anne Hamlet Drinking Water System.
- **Section 11 (9)** states that Subsections (7) and (8) do not apply to an annual report that is more than two years old.
 - Annual Reports dating back to 2008 for the Point Anne Hamlet Drinking Water System are available to the public by contacting the Water Operations Centre.
- **Section 11 (9.1)** states that every time an annual report is prepared for a drinking water system, the owner of the system shall ensure that effective steps are taken to advise users of water from that system that copies are available, without charge, and how a copy may be obtained.
 - The Point Anne Hamlet Drinking Water System utilizes both the local newspaper and the City of Belleville website (www.belleville.ca) to inform the public of Annual Report availability.
- **Section 11 (10)** states that if a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet.
 - Although the Point Anne Hamlet Drinking Water System serves less than 10,000 people, our Annual and Summary Reports are available on our website.
- **Section 11 (11)** “The obligation to ensure that a report be given to the interested authority for a designated facility under Subsection (2) . . .”
 - Subsection (2) does not apply to the Point Anne Hamlet Drinking Water System and therefore Section 11 (11) does not apply.
- **Section 11 (12) to (17) have been revoked.**
- **Section 11 (18)** states that if Section 12 of Ontario Regulation 459 / 00 and Section 15 of Ontario Regulation 505 / 01 did not apply to the owner of a system to which Subsection (5) applies, no report

is required under Subsection (5) until May 31, 2006. Further, despite Subsection (5), the report required not later than May 31, 2006 shall cover the period from June 1, 2005 to March 31, 2006.

- Subsection (5) does not apply to the Point Anne Hamlet Drinking Water System and therefore this section does not apply.
- **Section 11 (19) has been revoked.**

Point Anne Hamlet Plant Description and Water Treatment Process

Raw Water Intake

The source of water for the Point Anne system is a combination of surface water and groundwater.

The surface water is taken from the Bay of Quinte south of the water treatment plant. A 100mm diameter pipe extends approximately 105m from the raw water intake well into the Bay of Quinte at a depth of approximately 2m below the water surface. Water flows by gravity from the Bay into the raw water intake well. Flow of surface water is controlled with a flow control valve on the intake pipe within the raw water intake well.

Groundwater is able to enter the raw well through an opening that is controlled by a 100mm flow control valve.

With these flow control valves, the source water may be groundwater, surface water or a combination of both. Groundwater may also infiltrate the raw well through uncontrolled cracks or joints.

Low Lift Pumping

Two submersible pumps (each rated at 1.26 L/s) located in the raw water intake well along with associated piping deliver water to either the Package Treatment Unit (Waterboy Unit) or the Cartridge Filter System. Back-up pumps are stored at the Belleville Water Treatment Plant.

Cartridge Filter System - Filtration

The cartridge filter system consists of three roughing filters and one finishing filter. All four filters operate in series. The first filter has a pore-size range of 20 to 1 micron rated for 90% removal. The next two filters have a pore-size range of 1.0 to 0.5 microns rated for 99% removal. The MECP-approved finishing filter has an effective pore-size of 0.8 micron and a removal rating of 99.9%.

Pressure sensors and gauges are located on the influent and effluent lines for each cartridge canister. These are used to determine the pressure differential across the filter media allowing operators to monitor the life of the filters.

Water exiting the finishing filter can either go to waste or can go to the chlorine contact tank. The effluent from this process is monitored for turbidity with alarms and controls set to divert to waste if turbidity climbs above operational set points.

The rated capacity for this process is 24.3 L/min.

Package Treatment Unit - Coagulation

A chemical feed system consisting of a 150L storage tank and two flow-paced metering pumps feed aluminum sulphate (alum) to the bottom of the rapid mixer tank. Here, the alum mixes with raw water, by means of a mechanical mixer, to begin the formation of floc.

This is the first of the 2-stage coagulation/flocculation process.

Package Treatment Unit - Flocculation

The coagulated water/alum solution flows through a notched weir into the slow mixer/flocculation tank. Here, a mechanical mixer stirs the water slowly to further the formation of the floc.

This floc consists of alum and suspended particles (dirt, colour, organics) that are found in the raw water.

This is the second of the 2-stage coagulation/flocculation process.

Package Treatment Unit - Sedimentation

The flocculated water flows through piping to the bottom of inclined plate settlers. Here, the floc adheres to the plates, and eventually becomes heavy enough to slide down the plates, as the volume of settled

material increases. The cleaner water rises to the top of the plate settler and flows hydraulically to the filtration process. The settled material, containing dirt, organics, colour, bacteria, viruses, and other particulate, is removed during filter backwashing.

Package Treatment - Filtration

The mixed media filter is used to further remove particulate from the water. The filter consists of sand and anthracite media and is equipped with an under drain system that is connected to two (2) pumps. The first pump is used to deliver water to the chlorine contact tank or to the waste stream. The effluent from this process is monitored for turbidity with alarms and controls set to divert to waste if turbidity climbs above operational set points. The second pump is used to backwash the filter.

Disinfection

Sodium hypochlorite is used to post-disinfect the filtered water in the chlorine contact tank.

The sodium hypochlorite chemical feed system consists of a 20L storage tank and two (2) flow-paced metering pumps, with automatic switch over, to feed hypochlorite to the filtered water as it enters the contact tank. Dosage varies based on the biological demand.

The chlorine contact tank consists of an inlet diffuser, baffles and an overflow effluent collector. The tank volume is 2.2 m³. Here, the chlorinated water is held for a prescribed time period to ensure inactivation of any pathogens. The initial and "CT" free chlorine residuals are monitored and recorded.

High Lift Storage

The high lift clear well is a finished water storage area and has a total volume of 23 m³. This well receives water from the chlorine contact tank and provides a flooded suction for the high lift pumps.

High Lift Pumping

At this point the treatment process is complete and the water is ready for consumer use.

Two (2) high lift pumps, each capable of delivering approximately 27m³/day, deliver water through a common header to the distribution system.

These pumps provide constant positive pressure to the distribution system with the use of controls and automatic starts that are based on pressure control set points.

Controls and measures are in place to provide power, such as Uninterrupted Power Supply (UPS) power, in the event of a power failure.

Computer/SCADA

Computer technology is used to monitor operations and record data. A Supervisory Control and Data Acquisition (SCADA) system provides communication among, and control of, all plant operations. The SCADA system also communicates with the Belleville Water Treatment Plant allowing experienced, certified water treatment operators to monitor and control the Point Anne Water Treatment Plant.

Wastewater

The water used to backwash the filter and the sediment from the plate settlers is discharged overland through a 100mm diameter discharge pipe to a point approximately 15m from the Bay of Quinte shoreline.

Distribution System

The treated water is delivered directly to the consumer through the distribution system from the high lift pumps. The distribution system is comprised of approximately 208m of 100mm diameter water main. It is

a linear network with no looping. There are four (4) service connections to the network that supply eleven (11) residential properties. There are no non-residential properties located on the system.

Chemicals used over this Reporting Period

- Sodium Hypochlorite
- Aluminum Sulphate

O. Reg. 170 / 03 Compliance Tests and Reports – Point Anne

Notifications and Corrective Actions – Point Anne

In accordance with Schedule 16 and Schedule 17 (O. Reg 170 / 03).

The Point Anne Drinking Water System did not make any reports to the Ministry under Schedule 16 and Schedule 18 (O. Reg 170 / 03).

Operational Testing – Point Anne

In accordance with Schedule 7 (O. Reg 170 / 03).

Notes:

- 8760 denotes results from continuous monitoring
- NTU refers to Nephelometric Turbidity Units
- mg/L represent milligrams per litre

Parameter	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure
Turbidity	8760	0.02 to 0.46	NTU
Free Chlorine at C.T Location	8760	0.66 to 3.70	mg/L
Free Chlorine in Distribution	254	0.44 to 1.88	mg/L
Fluoride	0	No fluoridation	Not Applicable

Microbiological Testing – Point Anne

In accordance with Schedule 11 (O. Reg 170 / 03)

Note: HPC refers to Heterotrophic Plate Count

Parameter	Number of Samples	Range of E. Coli or Fecal Results (minimum to maximum)	Range of Total Coliform Results (minimum to maximum)	Number of HPC Samples	Range of HPC Results (minimum to maximum)
Raw	52	0 to 13	1 to 750	52	Less than 10 to more than 2000
Treated	52	0 to 0	0 to 0	52	less than 10 to 30
Distribution	52	0 to 0	0 to 0	52	less than 10 to 220

Chemical Testing – Point Anne

In accordance with Schedule 13 (O. Reg 170 / 03). Sample results for Schedule 23 and Schedule 24 can be found starting on page 58 of this report.

Notes:

- µg/L represents micrograms per litre
- mg/L represents milligrams per litre

Parameter	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure
Trihalomethane	4	77 to 97	µg/L
Haloacetic Acids	4	39.5 to 90.5	µg/L
Nitrate and Nitrite	4	less than 0.05 to 2.63	mg/L
Sodium	4	15.2 to 51.6	mg/L

Lead Testing Summary – Point Anne

In accordance with Schedule 15.1 (O. Reg 170 / 03)

Notes:

- mg/L represent milligrams per litre

Location Type	Number of Samples	Range of Results (minimum to maximum)	Unit of Measure	Number of Exceedances
Lead – Plumbing	0	Not Applicable	mg/L	0
Lead – Distribution	0	Not Applicable	mg/L	0
Alkalinity – Distribution	2	85 to 207	mg/L	Not Applicable
pH – Plumbing	0	Not Applicable	Not Applicable	0
pH – Distribution	2	7.40 to 7.53	Not Applicable	0

The Point Anne Hamlet Drinking Water System has reached exemption status in the Lead Sampling Program. Following the Winter Lead Sampling Period (December 2011 to April 2012), the Point Anne

Hamlet Drinking Water System satisfied the requirements of Section 15.1-5 (9) of Ontario Regulation 170 / 03 and as such began sampling in accordance with Section 15.1-5 (10).

Inorganic Testing – Point Anne

In accordance with Schedule 23 (O. Reg 170 / 03)

Notes:

- µg/L represents micrograms per litre
- < indicates that the result was “less than” the value that follows it

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Antimony	2	< 0.9 to 1.0	µg/L	No
Arsenic	2	0.4 to 0.8	µg/L	No
Barium	2	37.7 to 51.3	µg/L	No
Boron	2	10 to 53	µg/L	No
Cadmium	2	0.004 to 0.010	µg/L	No
Chromium	2	0.65 to 0.75	µg/L	No
Mercury	2	< 0.01	µg/L	No
Selenium	2	0.06 to 1.12	µg/L	No
Uranium	2	0.063 to 0.449	µg/L	No

As per Section 13-2 (3) of Ontario Regulation 170 / 03, small municipal residential systems are required to be sampled and tested for Schedule 23 parameters at least once every 60 months. As such, the next sampling and testing for Schedule 23 parameters for the Point Anne Hamlet Drinking Water System will occur prior to June 7th, 2026.

Organic Testing – Point Anne

In accordance with Schedule 24 (O. Reg 170 / 03)

As per Section 13-4 (3) of Ontario Regulation 170 / 03, small municipal residential systems are required to be sampled and tested for Schedule 24 parameters at least once every 60 months. Schedule 24 sampling was last conducted in June 2021. As such, the next sampling and testing for Schedule 24 parameters for the Point Anne Hamlet Drinking Water System will occur prior to June 7th, 2026. Captured in the table below are the sample results from 2021.

Notes:

- µg/L represents micrograms per litre
- < indicates that the result was “less than” the value that follows it

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Alachor	2	<0.02	µg/L	No

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Atrazine + N-dealkylated metabolites	2	<0.01 to 0.01	µg/L	No
Azinphos-methyl	2	<0.05	µg/L	No
Benzene	2	<0.32	µg/L	No
Benzo(a)pyrene	2	<0.004	µg/L	No
Bromoxynil	2	<0.33	µg/L	No
Carbaryl	2	<0.05	µg/L	No
Carbofuran	2	<0.01	µg/L	No
Carbon Tetrachloride	2	<0.16	µg/L	No
Chlorpyrifos	2	<0.02	µg/L	No

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Diazinon	2	<0.02	µg/L	No
Dicamba	2	<0.20	µg/L	No
1,2-Dichlorobenzene	2	<0.41	µg/L	No
1,4-Dichlorobenzene	2	<0.36	µg/L	No
1,2-Dichloroethane	2	<0.35	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2	<0.33	µg/L	No
Dichloromethane	2	<0.35	µg/L	No
2,4-Dichlorophenol	2	<0.15	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2	<0.19	µg/L	No

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Diclofop-methyl	2	<0.40	µg/L	No
Dimethoate	2	<0.03	µg/L	No
Diquat	2	<1	µg/L	No
Diuron	2	<0.03	µg/L	No
Glyphosate	2	<1	µg/L	No
Malathion	2	<0.02	µg/L	No
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	2	<0.00012	mg/L	No
Metolachlor	2	<0.01	µg/L	No
Metribuzin	2	<0.02	µg/L	No

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Monochlorbenzene	2	<0.3	µg/L	No
Paraquat	2	<1	µg/L	No
Pentachlorophenol	2	<0.15	µg/L	No
Phorate	2	<0.01	µg/L	No
Picloram	2	<1	µg/L	No
Polychlorinated Biphenyls (PCB)	2	<0.04	µg/L	No
Prometryne	2	<0.03	µg/L	No
Simazine	2	<0.01	µg/L	No
Terbufos	2	<0.01	µg/L	No

Parameter	Number of Samples	Range of Results	Unit of Measure	Exceedance
Tetrachloroethylene	2	<0.35	µg/L	No
2,3,4,6-Tetrachlorophenol	2	<0.20	µg/L	No
Triallate	2	<0.01	µg/L	No
Trichloroethylene	2	<0.44	µg/L	No
2,4,6-Trichlorophenol	2	<0.25	µg/L	No
Trifluralin	2	<0.02	µg/L	No
Vinyl Chloride	2	<0.17	µg/L	No

Inorganic or Organic Parameters – Point Anne

Inorganic or organic parameters that exceeded half the standard prescribed in Schedule 2 of the Ontario Drinking Water Quality Standards.

Based on quarterly samples taken January 28th, April 16th, July 15th, and October 7th 2025, our annual average concentration for Trihalomethane is 72.25 µg / L. This exceeds one-half of the Schedule 2 standard, but does not exceed the regulated limit of 100 µg / L.

Based on quarterly samples taken January 28th, April 16th, July 15th, and October 7th 2025, our annual average concentration for Haloacetic acids is 62.00 µg / L. This exceeds one-half of the Schedule 2 standard, but does not exceed the regulated limit of 80 µg / L.

Monetary Expenses – Point Anne

Relatively significant monetary expenditures in 2025 include:

- Intake inspection
- Analytical equipment replacement
- Alum pump replacement
- Replacement of high lift pump suction piping and valve
- Human Machine Interface (HMI) replacement

Each of these expenditures was included in approved operating or capital budgets.

No significant monetary expenditures occurred in the distribution system in 2025.