



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

February 27, 2026

John Yungblut
Director of Public Works
Township of Huron-Kinloss
21 Queen Street
Ripley, ON, N0G 2R0

Re: Requirement under the Safe Drinking Water Act for a Summary Report

Dear Mr. Yungblut;

Attached is the 2025 Summary Report for the Lakeshore Drinking Water System for January 1st to December 31st, 2025. This report has been completed in accordance with Section 11 and Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of council by March 31st, 2026.

Section 12 of O. Reg. 170/03, requires the Annual Report required under Section 11 of O. Reg. 170/03 to be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the Township, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 519-441-0441.

Sincerely,

Katelyn Barrowcliffe
Process and Compliance Technician
Midwest Region
Ontario Clean Water Agency

cc. Geoff Aitken, Township of Huron-Kinloss, Manager of Environment Services
Sam Smith, OCWA Regional Hub Manager
Paul Sherban, OCWA Senior Operations Manager
Maegan Garber, OCWA Safety, Process and Compliance Manager

Lakeshore Drinking Water System

Waterworks # 220000425
System Category – Large Municipal Residential

Annual Drinking Water Report

Prepared For: The Township of Huron-Kinloss

Reporting Period of January 1 – December 31, 2025

Issued: February 27, 2026

Revision: 0

Operating Authority:



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Overview

This report fulfills requirements of Ontario Regulation 170/03 Section 11 and Schedule 22. The report must be made available to anyone that requests a copy of the report. By March 31, 2026 the report must be provided to members of municipal council.

Report Availability

This system does not serve more than 10 000 residences. The annual reports will be available to residents at the Township Office as well as on the Township’s website. Notification will be at the Township Office and copies provided free of charge, if requested. The Township Office is located at 21 Queen Street, Ripley, Ontario, N0G 2R0.

System Process Description

The Lakeshore Drinking Water System serves the communities of Lakeshore located in the Township of Huron-Kinloss. The approximate population served is 6327. The Township of Huron-Kinloss has an agreement with The Township of Ashfield-Colborne-Wawanosh, where the Courtney/Amberley Beach Subdivision is treated as part of the Lakeshore Drinking Water System. The Township of Huron-Kinloss also has an agreement with the Municipality of Kincardine under which Kincardine serves as the Operating Authority for a small area of Huron-Kinloss known as the Huronville Subdivision Distribution System (Plan M28). This subdivision receives all of its water from the Municipality of Kincardine Water System. An interconnecting valve exists between the Lakeshore DWS, the Huronville Subdivision Distribution System, and the Municipality of Kincardine. This valve remains normally closed and is used solely for emergency purposes.

The Lakeshore Drinking Water System (DWS) is supplied by five drilled bedrock wells, classified as secure groundwater sources. Potable water is distributed through four well houses, which service the Lakeshore communities extending from Point Clark in the south to Huronville in the north, as well as the Courtney/Amberley Beach subdivision in the Township of Ashfield-Colborne-Wawanosh. Under an existing agreement between the Township of Huron-Kinloss and the Township of Ashfield-Colborne-Wawanosh, the Courtney/Amberley Beach subdivision is operated as part of the Lakeshore DWS. The four well houses are located in Point Clark, Blairs Grove, Huronville South, and Murdoch Glen.

A standpipe is located in the Point Clark area at 3405 Concession 2 and is constructed of bolted steel. The standpipe provides an effective storage capacity of approximately 1,500 m³. The high-lift pumps at both the Point Clark and Blairs Grove pumphouses are automatically controlled based on the water level within the standpipe.

The distribution system consists of 94.4 km of PVC and polyethylene piping, ranging in diameter from 50 mm to 250 mm. It also includes a pressure sustaining valve and eight (8) pressure relief valves (PRV) along Lake Range Dr. The system includes 181 hydrants, 46 blow-offs, and one (1) automatic flushing device. For sampling purposes, there are six (6) sample stations, two (2) of which are located in ACW on Amberley Beach Road.

The Lakeshore DWS operations are monitored and controlled through a Supervisory Control and Data Acquisition (SCADA) system, which communicates with the main controller, autodialer, and server at the Ripley Town Office. As an added redundancy, each site is equipped with an independent autodialer to ensure alarms are communicated in the event of SCADA or communications failure. The SCADA system provides operators with real-time monitoring of supply and treatment equipment and allows remote operational control throughout the water system.

Point Clark

Wells 2 and 3, located at 603 Tuscarora Road, pump to a single-cell contact tank with a capacity of 68.2 m³. The tank is equipped with baffle curtains to optimize disinfection using sodium hypochlorite (12%) and provides the required contact time for both primary and secondary disinfection. Well 2 is constructed with a 200 mm diameter casing, is approximately 75.6 m deep, and is equipped with a submersible pump rated at 18.95 L/s at 41.0 m TDH. Well 3 is constructed with a 250 mm diameter casing, is 82.3 m deep, and is equipped with a submersible pump rated at 18.95 L/s at 37.0 m TDH.

Each production well is equipped with two chlorine chemical feed pumps (one duty and one standby) with automatic switchover and alarm functions, as well as a chemical storage tank with secondary containment. Chlorine residuals are continuously monitored by an online treated water analyzer to ensure that the pumphouse is supplying safe, adequately disinfected water to the system. The pumphouse is also equipped with a two sodium silicate chemical feed pumps, one for each well. A chemical storage tank, complete with secondary containment, for iron sequestering. While this process does not remove iron, it prevents dissolved iron from precipitating, thereby reducing the potential for staining of plumbing fixtures and visible water discoloration.

Additional on-site equipment includes two high-lift pumps (HLPs) that supply water to Pressure Zone 1. Each HLP is capable of pumping 18.9 L/s at 45.0 m TDH. The site is also equipped with a combined raw flow meter, a reservoir level sensor, and a 150 W natural gas generator to provide backup power to the pumphouse.

Blairs Grove

Well 3, located at 28 Cathcart Street, pumps to a single-cell contact tank with a capacity of 83.1 m³. The tank is equipped with baffle curtains to facilitate disinfection using sodium hypochlorite (12%). This contact tank provides the required retention time to achieve both primary and secondary disinfection. Well 3 is constructed with a 200 mm diameter casing, is approximately 74.1 m deep, and is equipped with a submersible pump rated at 30.3 L/s at 15.4 m TDH.

The disinfection system is equipped with two chlorine chemical feed pumps (one duty and one standby) with automatic switchover and alarm capabilities, along with a chemical storage tank equipped with secondary containment. Chlorine residuals are continuously monitored by online instrumentation. The pumphouse is also equipped with a sodium silicate chemical feed pump and a chemical storage tank, complete with secondary containment, for dosing sodium silicate used for iron sequestering. While this process does not remove iron, it prevents dissolved iron from precipitating, thereby reducing the potential for staining of plumbing fixtures and visible water discoloration.

Additional on-site equipment includes a high-lift pump (HLP) that supplies water to Pressure Zone 1. The HLP is capable of pumping 30.3 L/s at 51.0 m TDH. The site is also equipped with a raw flow meter, and a reservoir level sensor.

Murdoch Glen

Well 2, located at 815 Parkplace, pumps to a chlorine contact watermain with a volume of 19.5 m³ used to achieve disinfection with sodium hypochlorite (12%). The contact watermain provides the required retention time to meet both primary and secondary disinfection requirements. Well 2 is constructed with a 200 mm diameter casing, is approximately 80.5 m deep, and is equipped with a submersible pump rated at 21.0 L/s at 46.0 m TDH.

The disinfection system is equipped with two chlorine chemical feed pumps (one duty and one standby) with automatic switchover and alarm functionality, along with a chemical storage tank equipped with secondary

containment. Chlorine residuals are continuously monitored by online instrumentation. The pumphouse is also equipped with a sodium silicate chemical feed pump and a chemical storage tank, complete with secondary containment, for dosing sodium silicate used for iron sequestering. While this process does not remove iron, it prevents dissolved iron from precipitating, thereby reducing the potential for staining of plumbing fixtures and visible water discoloration.

Additional on-site equipment includes four high-lift pumps (HLPs), two that supply water to Zone 2 and two that supply Zone 3. The site is also equipped with a raw water flow meter, two treated water flow meters one for Zone 1 and one for Zone 2, and a storage reservoir with a capacity of 400 m³, along with a reservoir level transmitter. Stand by power is provided by a 130 kW diesel generator with 1110L capacity fuel storage tank.

Huronville South

Well 2, located at Pentangore Row South, pumps to a single-cell contact tank with a capacity of 68.2 m³. The tank is equipped with baffle curtains for disinfection using 12% sodium hypochlorite. This tank provides the required contact time for both primary and secondary disinfection. Well 2 is constructed with a 200 mm diameter casing, is approximately 93.3 m deep, and is equipped with a submersible pump rated at 45.5 L/s at 26.0 m TDH.

The disinfection system consists of two chlorine chemical feed pumps (one duty and one standby) with automatic switchover and alarm functionality, as well as a chemical storage tank with secondary containment. Chlorine residuals are continuously monitored by online instrumentation. The pumphouse is also equipped with a sodium silicate chemical feed pump and a chemical storage tank with secondary containment for the addition of sodium silicate for iron sequestering. While this process does not remove iron, it prevents dissolved iron from precipitating, thereby reducing the potential for staining of plumbing fixtures and visible water discoloration.

Additional on-site equipment includes two high-lift pumps (HLPs) that supply water to Pressure Zone 2. Each HLP is capable of pumping 27.7 L/s at 52.5 m TDH. The site is also equipped with a treated water flow meter and a reservoir level sensor.

Treatment Chemicals

Sodium hypochlorite (12%) is used to provide both primary and secondary disinfection, and sodium silicate is used for iron sequestering in the Lakeshore Drinking Water System. During the reporting period, approximately 1800 L of sodium hypochlorite was used per month and approximately 435 L of sodium silicate was used per month. Refer to Table 1 below for supplier information.

Table 1: *Treatment Chemicals in the Lakeshore Drinking Water System*

Chemical Name	Use	Supplier
Sodium Hypochlorite 12%	Primary Treatment	Jutzi Water Technologies
Sodium Silicate	Iron Sequestering	Jutzi Water Technologies

Summary of Non-Compliance

Adverse Water Quality Incidents

Under the Safe Drinking Water Act, O. Reg 170/03, any adverse water quality incidents (AWQI) are required to be reported to the Ministry of the Environment, Conservation and Parks (MECP) and corrective action taken. Refer to Table 2 below for a summary of AWQI incidents in 2025.

Table 2: Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
There were no AWQI’s reported during the reporting period.						

Non-Compliance

Under the Safe Drinking Water Act, O. Reg 170/03, any events where legislative requirements were not met are required to be reported to the MECP and corrective actions taken. Refer to Table 3 below for a summary of non-compliance incidents in 2025.

Table 3: Summary of Non-Compliance Incidents

Legislation	Requirement(s) system failed to meet	Duration of the failure (ie. Dates(s))	Corrective Action
O.Reg 170/03 s. 6-5 (1) 3	Continuous monitoring test results must be examined within 72 hours after tests are conducted. Results were not monitored by an operator in this time frame due to the Statutory Holiday and the certified operator not reviewing the test results during their holiday coverage.	October 10, 2025, 13:53 – October 14, 2025, 07:40	A discussion was held with Operators about the importance and requirement of the 72-hour trending review and to obtain back up from another operator if they are unable to fulfill their duties.

Non-Compliance Identified in a Ministry Inspection

The routine MECP Inspections have an Inspection Rating Record. This record evaluates the system to provide information for the owner/operator on areas that need to be improved. The particular areas that were evaluated for the Lakeshore Drinking Water System were: Capacity Assessment, Certification and Training, Logbooks, Operations Manuals, Reporting and Corrective Actions, Source, Treatment Processes, and Water Quality Monitoring. The Lakeshore Drinking Water System inspection was conducted on October 29th, 2025 by Robert Graham of the Ministry of the Environment, Conservation and Parks (MECP). The inspection review period was October 3, 2024 to October 29, 2025. An inspection rating of 97.67% was received. Refer to Table 4 below for non-compliances identified in the report.

Table 4: Non-compliance identified in a Ministry inspection

Item #	Issue Identified in Report/Order	Required Action Identified in Report	Comply by Date as per the Report	Status
NC-1	Operators were not examining continuous monitoring test results or they did not examine the results within 72 hours of the test.	On October 14, 2025 the MECP received OCWA notification of non-compliance with O.Reg 170/03, Schedule 6-5. (1) 3 for the Lakeshore DWS, whereby operators did not undertake examination of the continuous monitoring test results recorded within 72 hours after the tests were conducted. No further action required.	N/A	N/A

Flows

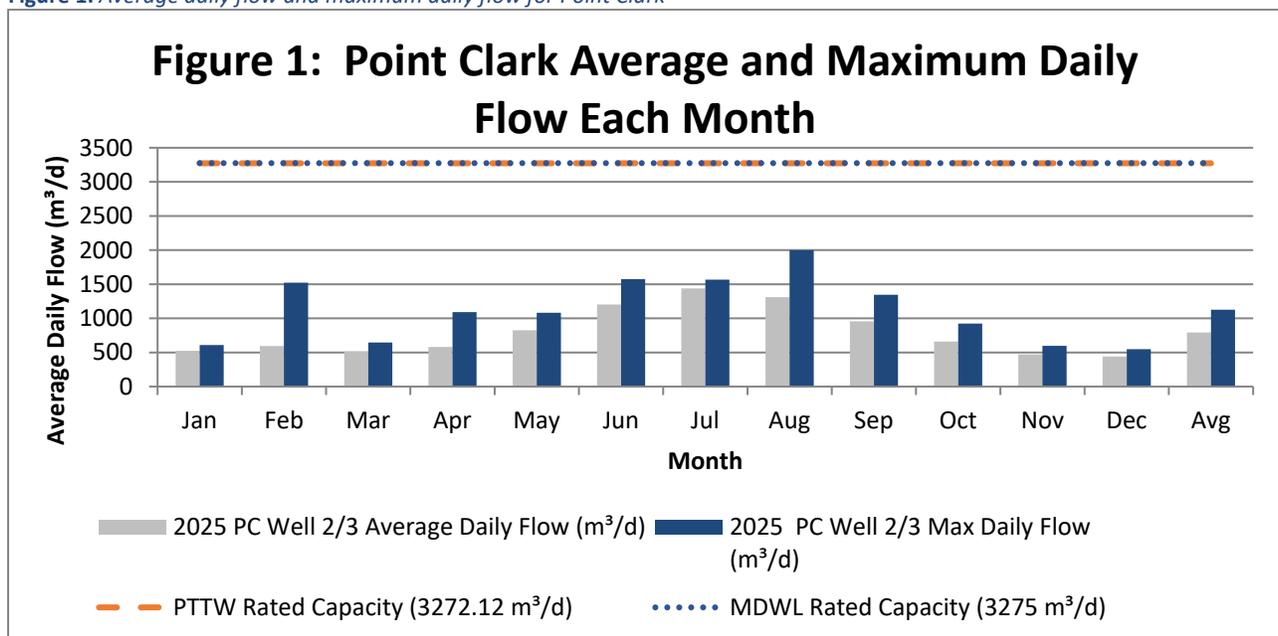
The raw and treated water flows are authorized under four individual Permits to Take Water (PTTWs), one for each well house. Point Clark (PTTW #P-300-9309653095), Blairs Grove (PTTW #5776-BW6SKS), Murdoch Glen (PTTW #P-300-1358100104), and Huronville South (PTTW #P-300-1300819462), as well as Municipal Drinking Water Licence (MDWL #087-102). The 2025 daily raw water flows for each well were submitted electronically to the Ministry in accordance with the requirements of their respective PTTWs. A copy of the submitted data is provided in Appendix A.

Point Clark Well 2 and 3 Combined

The total volume of treated water produced in 2025 was 289,997.28 m³, compared to 287,842.10 m³ reported by the previous operating authority in 2024. The Point Clark Wellhouse pumps water from the onsite wells. The flows from each well are measured using the raw water totalizer located inside the well house, making the well flows a combined volume. This measurement represents the raw water volume for the Permit to Take Water (PTTW) and the treated water for the rated capacity for the Municipal Drinking Water Licence (MDWL). The PTTW limits the flow to 3272.12 m³/d where as the MDWL limits the flow to 3275 m³/d.

In 2025, the average daily flow for Well 2/3 was 792.9 m³, compared to 786.45 m³ reported in 2024. The max daily flow for Well 2/3 in 2025 was 1997.86 m³, compared to 2333.29m³ reported in 2024. Figure 1 below details the average daily flow and maximum daily flow from Well 2/3 during the reporting period. At no time did the flow exceed the limits established under the PTTW or the MDWL. The system operated at 24.2% of its rated capacity, which is consistent with last year.

Figure 1: Average daily flow and maximum daily flow for Point Clark

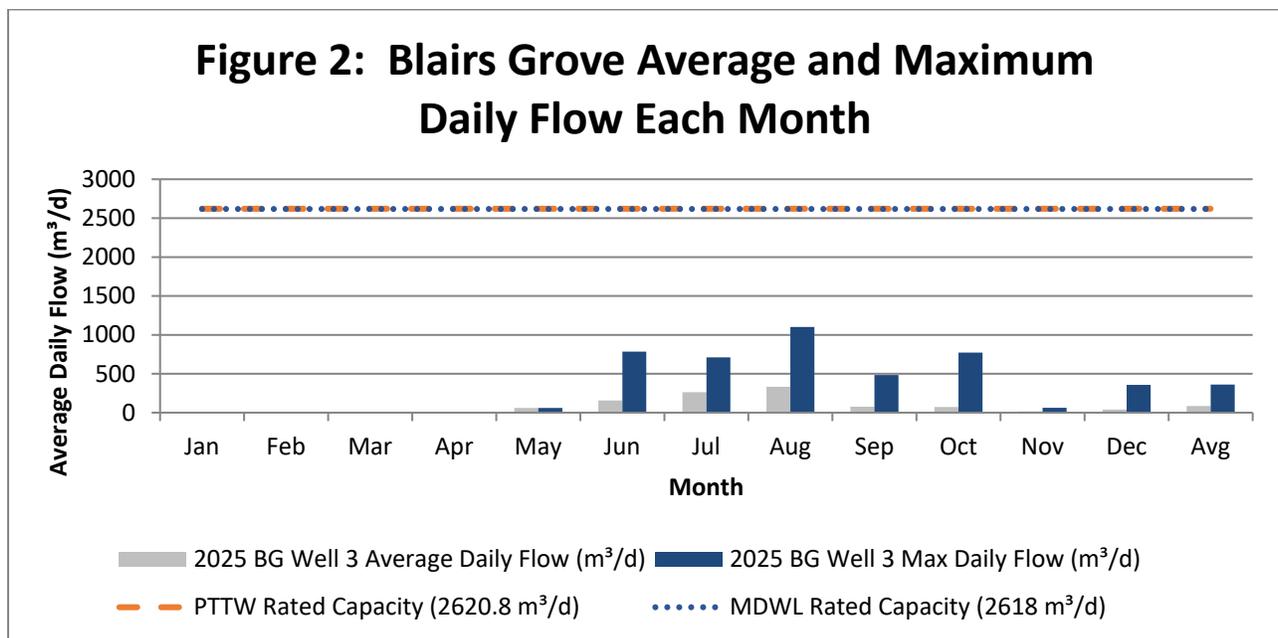


Blairs Grove

The total volume of treated water produced in 2025 was 29,536.17 m³, compared to 700.19 m³ reported by the previous operating authority in 2024. This significant increase is primarily due to OCWA keeping Blairs Grove operational due to required maintenance at the Point Clark Wellhouse during the months of June – August. Blairs Grove has also remained in operation to ensure the reservoir water remains fresh. The Wellhouse pumps water from the onsite well, and the flow is measured using the raw water totalizer. This measurement represents the raw water volume reported under the Permit to Take Water (PTTW) as well as the treated water volume used for the rated capacity under the Municipal Drinking Water Licence (MDWL). The PTTW limits the maximum allowable flow to 2,620.8 m³/day, while the MDWL specifies a rated capacity of 2,618 m³/day.

In 2025, the average daily flow for Well 3 was 84.98 m³, compared to 1.91 m³ reported by the previous operating authority in 2024. The max daily flow for Well 3 in 2025 was 1101.13 m³, compared to 216.02 m³ reported in 2024. Figure 2 below details the average daily flow and maximum daily flow from Well 3 during the reporting period. At no time did the flow exceed the limits established under the PTTW or the MDWL. The system operated at 3.24% of its rated capacity.

Figure 2: Average daily flow and maximum daily flow for Blairs Grove Well 3

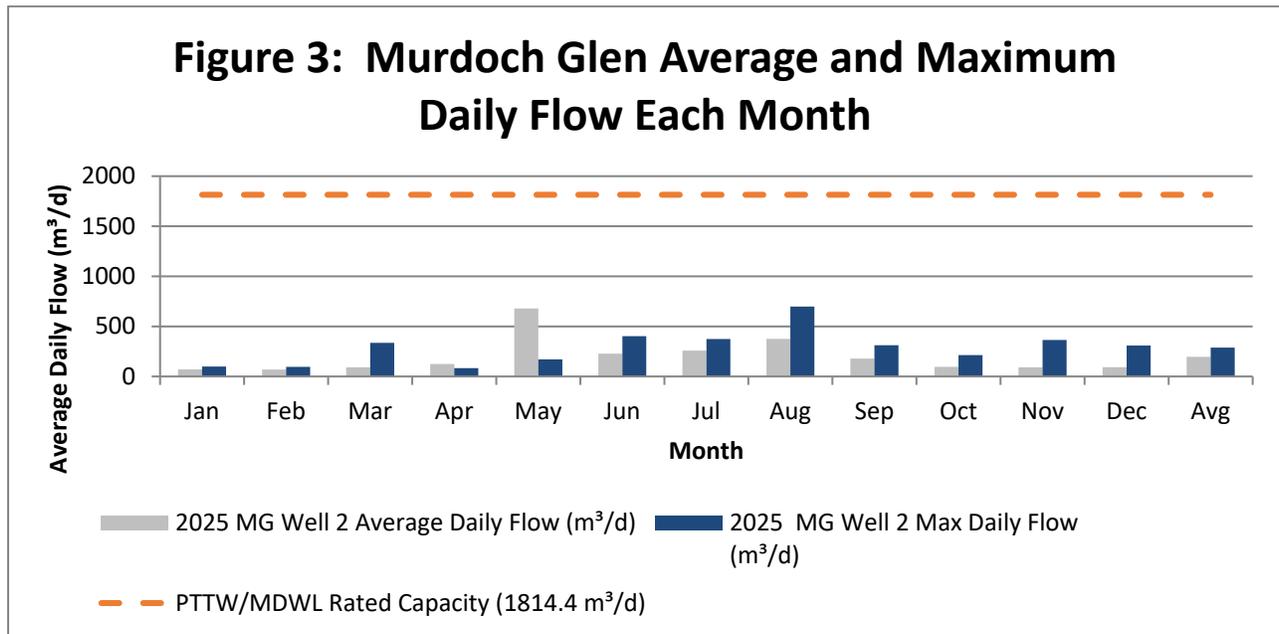


Murdoch Glen

The total volume of treated water produced in 2025 was 55 076.36 m³, compared to 46 543.18 m³ reported by the previous operating authority in 2024. The Wellhouse pumps water from the onsite well, and the flow is measured using the raw water totalizer. This measurement represents the raw water volume reported under the Permit to Take Water (PTTW) as well as the treated water volume used for the rated capacity under the Municipal Drinking Water Licence (MDWL). Both of these (PTTW and MDWL) limit the flow to 1814.4 m³/d.

In 2025, the average daily flow for Well 2 was 195.37 m³, compared to 127.52 m³ reported by the previous operating authority in 2024. The maximum daily flow for Well 2 in 2025 was 697.79 m³, compared to 519.70 m³ reported in 2024. Figure 3 below details the average daily flow and maximum daily flow from Well 2 during the reporting period. At no time did the flow exceed the limits established under the PTTW or the MDWL. The system operated at 10.8% of its rated capacity.

Figure 3: Average daily flow and maximum daily flow for Murdoch Glen

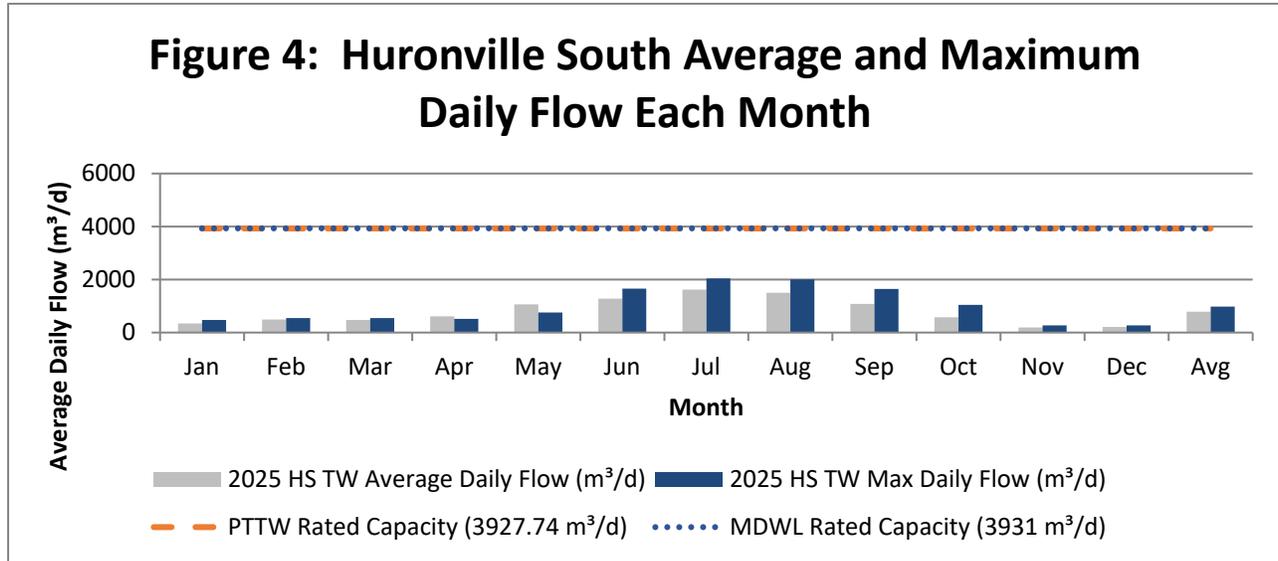


Huronville South

The total volume of treated water produced in 2025 was 275 921 m³, compared to 209 458.67 m³ reported by the previous operating authority in 2024. The Wellhouse pumps water from the onsite well, and the flow is measured using the treated water totalizer. This measurement represents the raw water volume reported under the Permit to Take Water (PTTW) as well as the treated water volume used for the rated capacity under the Municipal Drinking Water Licence (MDWL). The PTTW limits the maximum allowable flow to 3927.74 m³/day, while the MDWL specifies a rated capacity of 3931m³/day.

In 2025, the average daily flow was 787.26 m³, compared to 571.16 m³ reported in 2024. The maximum daily flow in 2025 was 2043.51 m³, compared to 2449.34 m³ reported in 2024. Figure 4 below details the average daily flow and maximum daily flow of Treated Water during the reporting period. At no time did the flow exceed the limits established under the PTTW or the MDWL. The system operated at 20.0% of its rated capacity compared to 14.6% reported in 2024.

Figure 4: Average daily flow and maximum daily flow for Huronville South



The total volume of water used in the Lakeshore DWS in 2025 was 650,530 m³. Based on the 2021 Census, the total per capita water use, which includes residential, industrial, commercial and other uses of water provided by public utilities averaged 0.401 m³ per day, equating to approximately 926,986 m³ per year. This indicates that the system’s treated water volume remains below the estimated per capita water use and is consistent with reasonable usage for the population served.

Regulatory Sample Results Summary

Microbiological Testing

To meet regulatory requirements, raw water (RW) is sampled weekly and tested for E.coli and Total Coliforms. There are no regulatory limits for raw water samples; however, concentrations for Total Coliform and E. coli are expected to be zero for the groundwater source. Treated water (TW) and distribution water (DW) are sampled weekly to test for E. coli, Total Coliforms and heterotrophic plate count (HPC). The regulatory limit for Total Coliform and E. coli is zero; heterotrophic plate count (HPC) does not have a limit. Refer to Table 5 below for a summary of testing results.

Table 5: Microbiological Testing Summary

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform		No. of HPC Samples Collected	Range of HPC Results (cfu/mL)	
		Min	Max	Min	Max		Min	Max
Point Clark – RW Well 2	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Point Clark – RW Well 3	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Blairs Grove - RW	*36	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Murdoch Glen - RW	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Huronville South - RW	52	0.00	0.00	0.00	0.00	N/A	N/A	N/A
Point Clark – TW	52	0.00	0.00	0.00	0.00	52	10	10
Blairs Grove - TW	*39	0.00	0.00	0.00	0.00	39	10	200
Murdoch Glen - TW	52	0.00	0.00	0.00	0.00	52	10	80
Huronville South - TW	52	0.00	0.00	0.00	0.00	52	10	2000
Distribution Water	207	0.00	0.00	0.00	0.00	207	10.00	30.00

*Well house offline from March - May

Operational Testing

As per the Safe Drinking Water Act, O. Reg 170/03, raw water turbidity is required to be monitored monthly with an objective of less than 1 NTU. Free chlorine residuals are required to be continuously monitored using point of entry treated water online chlorine analyzers located at each well house. All chlorine residual results were within regulatory compliance during the reporting period. Free chlorine levels were monitored throughout the distribution system to ensure adequate secondary disinfection. The regulatory requirement for free chlorine residual is a minimum of 0.05 mg/L with an objective of 0.20 mg/L throughout the distribution system, and all results met the required standards. Refer to Table 6 for turbidity and free chlorine residual results.

Table 6: Turbidity and Free Chlorine Residual Monitoring

Parameter	No. of Samples Collected	Range of Results		Minimum Required Residual (mg/L)
		Minimum	Maximum	
Turbidity, grab (NTU) – Point Clark RW Well 2	13	0.15	0.47	
Turbidity, grab (NTU) – Point Clark RW Well 3	14	0.18	0.49	
Turbidity, grab (NTU) – Blairs Grove RW	*10	0.25	0.57	
Turbidity, grab (NTU) – Murdoch Glen RW	13	0.20	0.39	
Turbidity, grab (NTU) – Huronville South RW	13	0.12	0.33	
Free Chlorine Residual, On-Line (mg/L) – Point Clark TW	8760	0.61	2.95	0.38
Free Chlorine Residual, On-Line (mg/L) – Blairs Grove TW	8760	0.56	2.43	0.29
Free Chlorine Residual, On-Line (mg/L) – Murdoch Glen TW	8760	0.94	3.00	0.26
Free Chlorine Residual, On-Line (mg/L) –Huronville South TW	8760	0.59	3.00	0.42
Free Chlorine Residual, grab (mg/L) - DW	366	1.03	2.17	0.05

*Well house offline from March - May

Inorganic Parameters

Inorganic parameters for the system are required to be sampled every 36 months in accordance with O. Reg. 170/03. Sodium and fluoride are sampled every 60 months, while nitrate and nitrite must be analyzed quarterly, as outlined in O.Reg 170/03. All results were found to be within compliance limits.

The arsenic concentration at the Point Clark system exceeded the Half-Maximum Allowable Concentration (half-MAC). When any inorganic parameter (excluding sodium and fluoride) exceeds the half-MAC, quarterly sampling for that parameter is required.

All inorganic parameters, except sodium and fluoride, were last sampled on June 17, 2024. Inorganics are scheduled to be resampled in June, 2027. Sodium was last sampled on July 27, 2021, and is due for resampling in 2026. All sodium results exceeded 20 mg/L and were reported to the Grey Bruce Health Unit and the Ministry’s Spills Action Centre (AWQI #154967–154970). Fluoride was last sampled on September 6, 2022. All fluoride results exceeded the MAC due to naturally occurring concentrations within the aquifer. These exceedances were reported to the Grey Bruce Health Unit and the Ministry’s Spills Action Centre (AWQI #159912–159915). Fluoride sampling is scheduled again for 2027. Refer to Table 7 below for further details.

Table 7: Inorganic Parameter Testing

Treated Water (TW) Parameter	Sample Date	Sample Results – Point Clark	Sample Results - Blairs Grove	Sample Results – Murdoch Glen	Sample Results – Huronville South	MAC (µg/L)	Number of Exceedances	
							MAC	½ MAC
Antimony: Sb (ug/L) - TW	2024/06/17	<0.6	<0.6	<0.6	<0.6	6	0	0
Arsenic: As (ug/L) - TW	2024/06/17	5.6	2.6	1.6	0.5	10	0	1
Barium: Ba (ug/L) - TW	2024/06/17	22.3	4.62	26.3	24.4	1000	0	0
Boron: B (ug/L) - TW	2024/06/17	67	136	135	160	5000	0	0
Cadmium: Cd (ug/L) - TW	2024/06/17	0.005	0.003 < MDL	0.015	0.005	5	0	0
Chromium: Cr (ug/L) - TW	2024/06/17	0.08 <MDL	0.21	0.13	0.13	50	0	0
Mercury: Hg (ug/L) - TW	2024/06/17	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	1	0	0
Selenium: Se (ug/L) - TW	2024/06/17	0.08	0.18	0.14	0.01 < MDL	50	0	0
Uranium: U (ug/L) - TW	2024/06/17	0.497	0.397	1.51	0.313	20	0	0

Additional Inorganics

Fluoride (mg/L) - TW	2022/09/06	2.19	1.87	2.05	2.28	1.5	4	n/a
Nitrite (mg/L) - TW	2025/02/03	0.003	0.003	0.003	0.003	1	0	0
Nitrite (mg/L) - TW	2025/04/14	0.003	0.003	0.003	0.003	1	0	0
Nitrite (mg/L) - TW	2025/07/14	0.003	0.003	0.003	0.003	1	0	0
Nitrite (mg/L) - TW	2025/10/20	0.003	0.003	0.003	0.003	1	0	0
Nitrate (mg/L) - TW	2025/02/03	0.006	0.006	0.006	0.006	10	0	0
Nitrate (mg/L) - TW	2025/04/14	0.006	0.006	0.006	0.006	10	0	0
Nitrate (mg/L) - TW	2025/07/14	0.006	0.006	0.006	0.006	10	0	0
Nitrate (mg/L) - TW	2025/10/20	0.006	0.006	0.006	0.006	10	0	0
Sodium: Na (mg/L) - TW	2021/07/27	21.8 / 25.3	100 / 96.9	63.2 / 62.6	54.3 / 54.2	20*	N/A	n/a

MAC = Maximum Allowable Concentration as per O.Reg 169/03

MDL = Below the laboratory method detection level

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 20 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium-restricted diets

Summary of Lead Testing

Schedule 15.1 Sampling is required under O. Reg 170/03. This includes sampling for lead, alkalinity and pH. The Lucknow Drinking Water System is under reduced sampling. As such, no residential plumbing samples are required to be collected. Monitoring the pH and alkalinity in the distribution system is essential to ensure adequate buffering for corrosion control and to minimize exposure to metals such as lead. Refer to Table 8 below.

Table 8: Schedule 15.1 Sampling Results

Distribution System	Number of Sampling Points	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
			Minimum	Maximum		
Alkalinity (mg/L)	5	10	161.0	193.0	n/a	n/a
pH	5	10	7.18	7.94	n/a	n/a
Lead (ug/l)	5	10	0.02	0.56	10	0

Organic Parameters

Organic parameters for the system are tested every 36 months as a requirement under O. Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly. All organics were last sampled on June 18, 2024. Organics are scheduled to be sampled again June 2027. Organic parameter test results for treated water are listed below in Table 9.

Disinfection byproducts including Trihalomethane and Haloacetic acids are tested quarterly in the distribution system. Results are listed in Table 9 below.

Table 9: Organic Parameter Testing

Treated Water (TW)	Sample Date	Sample Results – Point Clark	Sample Results - Blairs Grove	Sample Results – Murdoch Glen	Sample Results – Huronville South	MAC (ug/L)	Number of Exceedances	
							MAC	1/2 MAC
Benzene	2024/06/18	0.32 < MDL	0.32 < MDL	0.32 < MDL	0.32 < MDL	1	0	0
Carbon Tetrachloride	2024/06/18	0.17 < MDL	0.17 < MDL	0.17 < MDL	0.17 < MDL	2	0	0
1,2-Dichlorobenzene	2024/06/18	0.41 < MDL	0.41 < MDL	0.41 < MDL	0.41 < MDL	200	0	0
1,4-Dichlorobenzene	2024/06/18	0.36 < MDL	0.36 < MDL	0.36 < MDL	0.36 < MDL	5	0	0
1,1-Dichloroethylene	2024/06/18	0.33 < MDL	0.33 < MDL	0.33 < MDL	0.33 < MDL	14	0	0
1,2-Dichloroethane	2024/06/18	0.35 < MDL	0.35 < MDL	0.35 < MDL	0.35 < MDL	5	0	0
Dichloromethane	2024/06/18	0.35 < MDL	0.35 < MDL	0.35 < MDL	0.35 < MDL	50	0	0
Monochlorobenzene	2024/06/18	0.3 < MDL	0.3 < MDL	0.3 < MDL	0.3 < MDL	80	0	0
Tetrachloroethylene	2024/06/18	0.35 < MDL	0.35 < MDL	0.35 < MDL	0.35 < MDL	10	0	0
Trichloroethylene	2024/06/18	0.44 < MDL	0.44 < MDL	0.44 < MDL	0.44 < MDL	5	0	0
Vinyl Chloride	2024/06/18	0.17 < MDL	0.17 < MDL	0.17 < MDL	0.17 < MDL	1	0	0
Diquat	2024/06/18	1 < MDL	1 < MDL	1 < MDL	1 < MDL	70	0	0
Paraquat	2024/06/18	1 < MDL	1 < MDL	1 < MDL	1 < MDL	10	0	0
Glyphosate	2024/06/18	1 < MDL	1 < MDL	1 < MDL	1 < MDL	280	0	0
Polychlorinated Biphenyls	2024/06/18	0.04 < MDL	0.04 < MDL	0.04 < MDL	0.04 < MDL	3	0	0

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Benzo(a)pyrene	2024/06/18	0.004 < MDL	0.004 < MDL	0.004 < MDL	0.004 < MDL	0.01	0	0
Alachlor	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	5	0	0
Atrazine+N-dealkylated	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	5	0	0
Atrazine	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	--	0	0
Desethyl Atrazine	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	--	0	0

Treated Water (TW)	Sample Date	Sample Results – Point Clark	Sample Results - Blairs Grove	Sample Results – Murdoch Glen	Sample Results – Huronville South	MAC (ug/L)	Number of Exceedances	
							MAC	1/2 MAC
Azinphos-methyl	2024/06/18	0.05 < MDL	0.05 < MDL	0.05 < MDL	0.05 < MDL	20	0	0
Carbaryl	2024/06/18	0.05 < MDL	0.05 < MDL	0.05 < MDL	0.05 < MDL	90	0	0
Carbofuran	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	90	0	0
Chlorpyrifos	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	90	0	0
Diazinon	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	20	0	0
Dimethoate	2024/06/18	0.06 < MDL	0.06 < MDL	0.06 < MDL	0.06 < MDL	20	0	0
Diuron	2024/06/18	0.03 < MDL	0.03 < MDL	0.03 < MDL	0.03 < MDL	150	0	0
Malathion	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	190	0	0
Metolachlor	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	50	0	0
Metribuzin	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	80	0	0
Phorate	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	2	0	0
Prometryne	2024/06/18	0.03 < MDL	0.03 < MDL	0.03 < MDL	0.03 < MDL	1	0	0
Simazine	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	10	0	0
Terbufos	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	1	0	0
Triallate	2024/06/18	0.01 < MDL	0.01 < MDL	0.01 < MDL	0.01 < MDL	230	0	0
Trifluralin	2024/06/18	0.02 < MDL	0.02 < MDL	0.02 < MDL	0.02 < MDL	45	0	0
2,4-Dichlorophenoxyacetic	2024/06/18	0.19 < MDL	0.19 < MDL	0.19 < MDL	0.19 < MDL	100	0	0
Bromoxynil	2024/06/18	0.33 < MDL	0.33 < MDL	0.33 < MDL	0.33 < MDL	5	0	0
Dicamba	2024/06/18	0.20 < MDL	0.20 < MDL	0.20 < MDL	0.20 < MDL	120	0	0
Diclofop-methyl	2024/06/18	0.40 < MDL	0.40 < MDL	0.40 < MDL	0.40 < MDL	9	0	0
MCPA	2024/06/18	0.00012 <	0.00012 <	0.00012 <	0.00012 <	0.1	0	0
Picloram	2024/06/18	1 < MDL	1 < MDL	1 < MDL	1 < MDL	190	0	0
2,4-Dichlorophenol	2024/06/18	0.15 < MDL	0.15 < MDL	0.15 < MDL	0.15 < MDL	900	0	0
2,4,6-Trichlorophenol	2024/06/18	0.25 < MDL	0.25 < MDL	0.25 < MDL	0.25 < MDL	5	0	0
2,3,4,6-Tetrachlorophenol	2024/06/18	0.20 < MDL	0.20 < MDL	0.20 < MDL	0.20 < MDL	100	0	0
Pentachlorophenol	2024/06/18	0.15 < MDL	0.15 < MDL	0.15 < MDL	0.15 < MDL	60	0	0
Distribution Water								
Trihalomethane: Total (ug/L) Annual Average	2025	12.97				100.0	0	0
Haloacetic Acid: Total (ug/L) Annual Average	2025	5.3				80.0	0	0

MAC = Maximum Allowable Concentration as per O. Reg 169/03 MDL = Below the laboratory method detection level

Additional Legislated Samples

In accordance with O. Reg. 170/03, if any inorganic parameter (excluding sodium and fluoride) exceeds half of the Maximum Acceptable Concentration (MAC), quarterly sampling is required. Arsenic levels at the Point Clark system continue to be monitored quarterly due to the half-MAC exceedance on June 18, 2024. All results remain below the MAC of 10 µg/L. Arsenic will continue to be sampled quarterly. The 2025 arsenic results are summarized in Table 10 below

Table 10: 2025 Point Clark Arsenic Results

Point Clark TW	# Samples	Arsenic (µg/L)	Half MAC (µg/L)
Q1	1	6.3	5
Q2	1	5.8	
Q3	1	5.8	
Q4	1	5.7	

Major Maintenance and Capital Summary

The Lakeshore Drinking Water System completed repairs and replacements as listed below in Table 11. These represent the major expenses incurred in 2025.

Table 11: Major Maintenance

Item	Description
1	Replaced flow control flow and repaired limit switch on HLP1 in Point Clark.
2	Huronville South and Murdoch Glen electrician on-site to replace Tacmina flow sensor
3	Huronville South HLP1 ground fault error due to loose connection on the motor. Replaced wiring.
4	Blairs Grove raw water Singer Valve replaced
5	Blair’s Grove reservoir drained, re-chlorinated, cycled and put into service
6	Point Clark chlorine pump 1 replaced due to motor burning out
7	Multiple chlorine board leaks repaired at all well houses
8	Failed fuse, relay and capacitor replaced in the Well Pump MCC panel at Blairs Grove
9	Annual third-party analyzer, flow meter and level transmitter calibrations completed
10	Repaired service leak on Albert st
11	Repaired service leak on Huron st
12	Repaired service leak on Tuscarora rd
13	Repaired service leak on Birch Cres
14	Repaired service leak on Cherrywood Crt
15	Watermain break repair on Huroville Rd

16	Murdoch Glen Isolation valve ahead of raw water air relief valve repaired
17	Point Clark chlorine analyzer failed, replaced with rebuilt chlorine analyzer
18	Huronville South Reservoir level transducer replaced due to multiple malfunctions
19	New service installed and inspected on Brue Beach rd
20	Watermain break repaired on Penetangore Rd
21	Repaired service leak on Attawandron St
22	Repaired leaking saddle and mainstop replaced on Bruce Beach Rd
23	Repaired service leak on Tyendinaga Rd
24	Faulty router replaced at Point Clark Standpipe
25	Point Clark new generator commissioned

Revision History

Date	Revision #	Revisionn Notes
2026-02-23	0	Issued Report

Appendix A

Water Taking Reporting System

Point Clark WTRS

2/11/26, 10:37 AM

Water Taking Reporting System



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

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Thank you for submitting your water taking data online.

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version: v5.0.0.01 (build#: 28)
Last modified: 2021/09/22

The WTRS system confirmation of reporting does not provide a table showing daily volumes. During the 2025 reporting period the Permit to Take Water (PTTW) was renewed resulting in water takings being reported across two different systems. For the previous PTTW, reporting was completed through WTRS which only provides a submission confirmation. The 2026 PTTW reporting will be completed entirely through the RSRs system and daily flow values will be available.

Point Clark RSRS

Ontario  Regulatory Self-Reporting System Ministry of the Environment, Conservation and Parks

Client Name: THE CORPORATION OF THE TOWNSHIP OF HURON-KINLOSS Reporting Year: 2025 Service: PTTW Permit Number: P-300-9309653095 Permit Version: 1.0 New or Updated Submission: NEW

Site Name: Point Clark

Source ID: 500000810470 Source Name: Well No. 2 (WWR 146886) Source Type: Well
 UTM(Zone/Easting/Northing): 17/440201.0/4879456.0 Method of Determination: Metered Unit of Measure: Litre

Description: Well No. 2 Purpose Category: Utilities Specific Category: Municipal Supply Activity: Water Supply

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1			555660.0	561980.0	606290.0	1372750.0	1392110.0	1466220.0	1270550.0	830930.0	598390.0	516670.0
2			536050.0	482810.0	600530.0	1248720.0	1411210.0	1481420.0	1105820.0	807320.0	587060.0	445730.0
3			504110.0	611270.0	637980.0	1259940.0	1427150.0	1474970.0	932870.0	891460.0	459230.0	548060.0
4			449040.0	783570.0	614520.0	1086880.0	1483740.0	1567370.0	914180.0	923680.0	409430.0	505920.0
5			502050.0	661840.0	628310.0	997960.0	1474990.0	1467620.0	508940.0	196800.0	422190.0	484960.0
6			519700.0	671360.0	660300.0	1159310.0	1402970.0	1474330.0	836020.0	573260.0	467030.0	218680.0
7			468220.0	595160.0	664180.0	1398220.0	1353570.0	1347610.0	973820.0	674050.0	402340.0	222330.0
8			566640.0	563520.0	655900.0	1473690.0	1453360.0	1555520.0	934290.0	704730.0	551860.0	432720.0
9			490550.0	600950.0	684820.0	1120350.0	1485300.0	1570270.0	674180.0	715690.0	486370.0	454260.0
10			445770.0	644090.0	862660.0	1088910.0	1473190.0	1601470.0	1039340.0	816470.0	471260.0	417490.0
11			452840.0	619130.0	915040.0	1274930.0	1468000.0	1578580.0	1091000.0	841450.0	468160.0	457370.0
12			444850.0	604020.0	818630.0	1302890.0	1458040.0	1579760.0	1154040.0	847320.0	432700.0	415350.0
13			459210.0	621640.0	826370.0	1417180.0	1558460.0	1077640.0	1295950.0	859540.0	453570.0	473030.0
14			499570.0	594630.0	856550.0	1476160.0	1470820.0	1555070.0	1259980.0	626940.0	410330.0	509480.0
15			544820.0	530930.0	976150.0	1573610.0	1492030.0	1997860.0	1109530.0	702320.0	482380.0	393690.0
16			513720.0	463380.0	968020.0	1494990.0	1567100.0	1914980.0	1140910.0	634940.0	585480.0	425120.0
17			463540.0	523790.0	1032530.0	1511190.0	1481180.0	1234540.0	1175030.0	595110.0	476200.0	441940.0
18			457470.0	532890.0	1062690.0	1169470.0	1471970.0	1273390.0	1155810.0	721930.0	375660.0	442900.0
19		508720.0	490870.0	536920.0	1027960.0	858110.0	1497700.0	1038560.0	1209560.0	595330.0	421970.0	361800.0
20		502430.0	478010.0	545630.0	873510.0	1039400.0	1368910.0	940830.0	1345070.0	411390.0	383590.0	464570.0
21		496670.0	475180.0	498030.0	707420.0	652970.0	1405140.0	1125860.0	1126010.0	553700.0	492130.0	485970.0
22		512930.0	535030.0	579110.0	658530.0	640940.0	1464670.0	1303900.0	481000.0	765010.0	506040.0	458310.0
23		527620.0	646640.0	506320.0	698950.0	1471560.0	1432240.0	1165730.0	698280.0	575910.0	483930.0	380980.0
24		445620.0	496350.0	558010.0	868570.0	1307500.0	1352110.0	1150850.0	688430.0	579660.0	435580.0	457370.0
25		472570.0	618010.0	397470.0	758800.0	1382400.0	1300450.0	969410.0	726820.0	589170.0	429780.0	444700.0
26		508120.0	517090.0	40.0	935290.0	989490.0	1367950.0	936150.0	730150.0	689000.0	439330.0	537070.0
27		469980.0	528430.0	829100.0	993080.0	1069360.0	1287670.0	897970.0	884830.0	577420.0	468140.0	508760.0
28		465280.0	574420.0	1091590.0	980270.0	609260.0	1408370.0	1017030.0	975760.0	520300.0	467660.0	476680.0
29			549160.0	595550.0	869510.0	1388650.0	1436650.0	1018140.0	569650.0	569620.0	512850.0	376960.0
30			591590.0	605480.0	1045770.0	1233340.0	1489080.0	1101690.0	648930.0	513280.0	550430.0	407360.0
31			609780.0		1082830.0		1446000.0	743570.0		532440.0		500390.0

The combined total volume was entered under the Well 2 source with approval from the MECP. This was due to an error in the PTTW Table A that lists the wells as two separate sources instead of a combined source. A PTTW amendment to have the table corrected to show the wells as a combined source will be submitted prior to the next reporting period.

Blairs Grove WTRS



Ministry of the Environment,
Conservation and Parks

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WTRS-WT-008

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Murdoch Glen WTRS

2/10/26, 2:03 PM

Water Taking Reporting System



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WTRS-WT-008

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Permit Holder: THE CORPORATION OF THE TOWNSHIP OF HURON-KINLOSS.

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TOWNSHIP OF HURON KINLOSS | 2026/02/10
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Huronville South RSRS

Ontario  Regulatory Self-Reporting System Ministry of the Environment, Conservation and Parks

Client Name: THE CORPORATION OF THE TOWNSHIP OF HURON-KINLOSS Reporting Year: 2025 Service: PTTW Permit Number: P-300-1300819462 Permit Version: 1.0 New or Updated Submission: NEW

Site Name: Huronville

Source ID: 50000783250 Source Name: Huronville South Well #2 Source Type: Well

UTM(Zone/Easting/Northing): 17/447497.0/4889466.0 Method of Determination: Metered Unit of Measure: Litre

Description: WWR 146887 Purpose Category: Utilities Specific Category: Municipal Supply Activity: Water Supply

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	320370.0	471270.0	540490.0	472040.0	588030.0	1087900.0	1515870.0	1619150.0	1644830.0	958490.0	246120.0	
2	302750.0	493920.0	546370.0	471440.0	568530.0	984650.0	1523170.0	1813230.0	1482790.0	857470.0	268030.0	146500.0
3	291860.0	463150.0	509540.0	483010.0	619270.0	1341620.0	1567940.0	1705020.0	1377990.0	985920.0	211890.0	212910.0
4	311020.0	461710.0	524670.0	474020.0	688260.0	1067030.0	1717700.0	2003790.0	1150550.0	944230.0	203430.0	205000.0
5	347050.0	458110.0	520070.0	494250.0	708920.0	970850.0	1793860.0	1697320.0	1241880.0	1042620.0	222630.0	193260.0
6	317920.0	453590.0	516270.0	515540.0	654090.0	1087570.0	1692920.0	1796780.0	1282820.0	913020.0	204690.0	202740.0
7	324130.0	468090.0	507080.0	471130.0	650070.0	1350100.0	1507240.0	1668400.0	1232150.0	749610.0	186510.0	226380.0
8	317050.0	485450.0	536720.0	467360.0	657370.0	1438280.0	1686970.0	1658540.0	1327830.0	764200.0	221600.0	190180.0
9	310510.0	490450.0	526830.0	482060.0	667140.0	1232560.0	1705150.0	1748400.0	1422910.0	796280.0	231480.0	148460.0
10	307160.0	461450.0	484410.0	492050.0	792070.0	1238220.0	1775760.0	1922410.0	1429390.0	713710.0	198270.0	235860.0
11	335430.0	457170.0	450530.0	493490.0	906280.0	1438450.0	1651530.0	1809370.0	1047670.0	764520.0	232190.0	200480.0
12	339950.0	466090.0	454990.0	509430.0	909060.0	1404400.0	1601590.0	1703480.0	1035150.0	728330.0	211640.0	198090.0
13	324100.0	472320.0	454790.0	536300.0	1031520.0	1403700.0	1915600.0	845620.0	1099800.0	830470.0	202250.0	211970.0
14	319740.0	480570.0	460490.0	502880.0	988840.0	1582150.0	1883090.0	1374000.0	1144200.0	660530.0	198950.0	227240.0
15	319240.0	469800.0	485890.0	480460.0	1063020.0	1657130.0	2043510.0	1502630.0	992340.0	642560.0	220360.0	199460.0
16	310900.0	487690.0	379410.0	491880.0	956310.0	1561550.0	1865510.0	1497360.0	1056690.0	584100.0	236030.0	193560.0
17	329980.0	483630.0	464590.0	493880.0	856950.0	1616340.0	1434280.0	1135250.0	1109030.0	506180.0	192640.0	212780.0
18	337810.0	469730.0	452140.0	516300.0	716310.0	1323230.0	1774780.0	1374190.0	1080730.0	578170.0	184160.0	198620.0
19	367170.0	501180.0	456900.0	534300.0	942150.0	976980.0	1710920.0	1282330.0	1084760.0	515390.0	186260.0	205620.0
20	339240.0	518180.0	455010.0	532670.0	895860.0	945310.0	1309650.0	1209350.0	1138190.0	451290.0	191670.0	247410.0
21	342180.0	513560.0	451310.0	538590.0	918810.0	1088980.0	1407070.0	1270060.0	1133090.0	424320.0	178510.0	243200.0
22	321060.0	535510.0	481540.0	497150.0	670710.0	1280050.0	1614380.0	1356880.0	851760.0	326320.0	206420.0	232350.0
23	322820.0	548860.0	495380.0	526080.0	649930.0	1501140.0	1682390.0	1501050.0	779630.0	254640.0	235700.0	225190.0
24	314110.0	530380.0	468130.0	526580.0	623200.0	1401940.0	1519640.0	1386250.0	705250.0	246840.0	205450.0	253900.0
25	345220.0	535380.0	475490.0	535070.0	561860.0	1466860.0	1306690.0	1441840.0	639470.0	260940.0	191440.0	237270.0
26	351560.0	528740.0	467080.0	551530.0	844480.0	1135000.0	1305150.0	1363460.0	673270.0	279740.0	192050.0	242690.0
27	331220.0	522250.0	463720.0	611820.0	997500.0	1074190.0	1427890.0	1310370.0	812000.0	161380.0	160040.0	227960.0
28	474940.0	510440.0	465600.0	612560.0	890620.0	1023410.0	1708840.0	1310830.0	811170.0	176850.0	143990.0	230430.0
29	462470.0		433560.0	609060.0	684760.0	1375820.0	1633310.0	1423430.0	850320.0	335880.0		224520.0
30	446220.0		465250.0	601650.0	370030.0	1365400.0	1569760.0	1509650.0	833860.0	270240.0		269750.0
31	443320.0		248130.0		432190.0		1454580.0	1231690.0		220600.0		259420.0