Township of Oro-Medonte
Drinking Water Compliance Report 2025

Warminster Drinking Water System

Annual and Municipal Summary Reports

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

Period Covering: January 1 to December 31, 2025

February 11, 2026

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1 Introduction

The Township of Oro-Medonte has prepared this report to satisfy the requirements of Section 11: Annual Report and Schedule 22: Summary Reports for Municipalities of Ontario Regulation (O.Reg.) 170/03.

This report covers the period of January 1 to December 31, 2025, and applies to the following municipally owned and operated drinking water system:

- Warminster Drinking Water System (DWS #220005125)

2 Reporting Requirements

2.1 Requirements under Section 11: Annual Report

Section 11 of O.Reg. 170/03 requires that the Owner of a drinking water system shall ensure that an annual report, covering the period from January 1 to December 31 in a year, be prepared no later than February 28 of the following year. The report must include the following information relating to the period covered by the report:

- Include a statement of where a report prepared under Schedule 22 will be available for inspection by any member of the public during normal business hours without charge;
- Contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system;
- Describe any major expenses incurred to install, repair or replace required equipment;
- Summarize any reports made to the Ministry of Environment, Conservation and Parks (MECP) for Adverse Water Quality Incidents (AWQIs);
- Summarize the results of tests required under O.Reg. 170/03, or under an approval, municipal drinking water licence or order, including an Ontario Water Resources Act order, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter; and,
- Describe any corrective actions taken.

2.2 Requirements under Schedule 22: Summary Report for Municipalities

Schedule 22 of O.Reg. 170/03 requires that the report be prepared no later than March 31 of the following year, and include the following information relating to the period covered by the report:

- List the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report with specifics to the duration and measures that were taken to correct the failure.
- The report must also include the following information to enable the Owner of the system to assess the capability of the system to meet existing and planned uses of the system:
    - Summarize the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows; and,
    - Compare the aforementioned summary of quantities and flow rates to the rated capacity and flow rates approved in the system's approval, drinking water works permit, or municipal drinking water licence.

3 Compliance Reporting Requirement

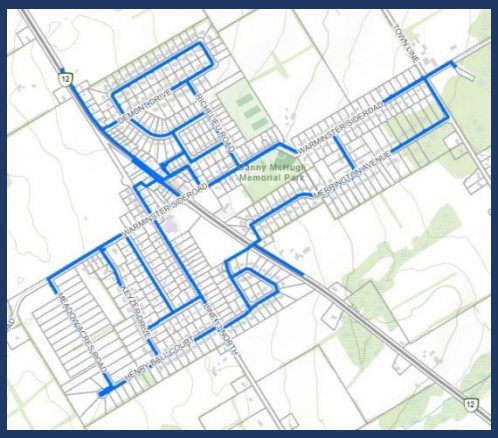
3.1 Availability of the Drinking Water Compliance Report

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

- Township of Oro-Medonte's website (www.oro-medonte.ca); and,
- Public request at the Municipal Office, located at 148 Line 7 South, Oro-Medonte.

The public is advised of the report's availability and how to obtain a copy, without charge, on the Township of Oro-Medonte's website through annual public reporting to Council and on the drinking water dedicated landing pages.

4 Warminster Drinking Water System



WARMINSTER

Drinking Water System Number: 220005125

Raw Water Source: Groundwater

Drinking Water System Category: Large Municipal Residential

Drinking Water System Classification: Water Supply & Distribution Class 2

Population Served: Approx. 1,439 persons

4.1 Municipal Drinking Water System Description

The Warminster Drinking Water System (DWS # 220005125) is located at 2093 Warminster Sideroad (Well house) and 1 Georgian Drive (Booster Station and Reservoir) in Warminster. The facility is owned and operated by the Corporation of the Township of Oro-Medonte in accordance with its specific MDWL, DWWP, PTTW, and all other applicable legislation.

This groundwater facility incorporates two production wells, process piping, one (1) booster pumping station, and one (1) reservoir. Raw water is conveyed to the well house, where treatment includes chlorination with sodium hypochlorite. Primary disinfection is achieved through the CT disinfection concept using the combination of a disinfectant residual concentration and effective contact time by means of a contact main running from the well house directly to the booster station. Additional contact time can be achieved at the two-celled 636 m³ reservoir at the booster station. Two (2) high lift pumps and one (1) fire pump supply the distribution system based on system demand.

The distribution system consists of approximately 11.6 km watermain, (ranging in diameter from 25 to 200mm), seventy-two (72) valves, seventy-five (75) hydrants, and twelve (12) sample stations servicing approximately 411 residential homes, several commercial properties and the Warminster Elementary School.

The drinking water system's operation is continuously monitored 24 hours a day, seven days a week through a computerized SCADA system, equipped with alarming for a certified water operator dispatch when operational issues arise. Emergency backup power is fulfilled through a 20 kW diesel generator (located at the wellhouse) and a 60 kW natural gas generator (located at Booster Station).

4.2 Water Treatment Chemicals

The following water treatment chemicals were utilized during the reporting period:

- Sodium Hypochlorite (12%)

4.3 Major Expenses Incurred within the Drinking Water System

The Township of Oro-Medonte has determined expenses over $25,000 to be considered a 'major expense'. A brief summary of the major or notable expenses incurred during the reporting period to install, repair, or replace required equipment, and the value of each, is included in the Table below.

Table 1: Major or Notable Expense Summary

Expense	Cost Incurred
Communication Upgrades (cost share for project across all municipal drinking water systems)	~ $14,000
Well house Piping Upgrades	$11,200
Flow Meter Repair	$11,100

4.4 Operational Checks, Sampling and Testing

O.Reg. 170/03 outlines specific operational checks and sampling requirements for drinking water systems, while O.Reg. 169/03 specifies drinking water quality standards and maximum allowable concentrations of analytical parameters.

During the reporting period, the required operational checks were completed and drinking water samples were collected in accordance with O.Reg. 170/03. All accredited laboratory results for analyzed samples met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

No additional testing and sampling was required in 2025 due to any requirements of an approval, order, or other legal instruments.

4.4.1 Schedule 7: Operational Checks (O.Reg. 170/03)

Operational checks of measurements of free chlorine residuals and raw water turbidity were conducted in accordance with the large municipal residential drinking water system requirements as prescribed by O.Reg.170/03, Schedule 7. No data is reported for fluoride as the Township of Oro-Medonte does not fluoridate any of its drinking water systems.

Table 2: Schedule 7 - Operational Checks Summary

Parameter	Sample Count	Range of Results (min/avg/max))
Raw Turbidity (NTU) – Well 1	12	0.09/0.21/0.36
Raw Turbidity (NTU) – Well 3	12	0.10/0.33/0.72
Chlorine (mg/L)	8760*	0.81/1.30/1.52**
Fluoride	N/A	N/A

* 8760 is the number of samples used for continuous monitoring.

** The range of chlorine results incorporates maintenance activities and operational testing. It does not necessarily reflect residuals within the distribution system.

4.4.2 Schedule 10: Microbiological Sampling and Testing (O.Reg. 170/03)

Raw, treated and distribution water samples were collected and analyzed for microbiological parameters specified in Schedule 10-2, 10-3, and 10-4 of O.Reg. 170/03. All accredited laboratory results for samples analyzed for microbiological parameters met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03, unless otherwise stated in Section 4.5.1 'Schedule 16: Reporting of Adverse Test Results and Other Problems' of this report.

Raw, treated and distribution drinking water samples were analyzed for bacteriological health-related parameters including E.coli, total coliform, background bacteria (background,) and heterotrophic plate count (HPC). The presence of HPC and background bacteria when measured in counts greater than 200 CFU per 100 mL, may indicate a deterioration in water quality within the drinking water system and initiate additional maintenance activities, such as flushing. The results for microbiological and bacteriological parameters during this reporting period are summarized below for reference.

Table 3: Schedule 10 - Microbiological Sampling and Testing Summary

Source		Sample Count	E.coli (CFU/100 mL)	Total Coliform (CFU/100 mL)	Background (CFU/100 mL)	HPC (CFU/1 mL)
			(min-max)	(min-max)	(min-max)	(min-max)
Raw	Well 1	52	0 – 0	0 – 0	0 – 0	N/A
	Well 3	52	0 – 0	0 – 0	0 – 0	N/A
Treated	-	52	0 – 0	0 – 0	0 – 0	<10 – 20
Distribution	-	156	0 – 0	0 – 0	0 – >200	<10 – 850

4.4.3 Schedule 13: Chemical Testing (O.Reg. 170/03)

Drinking water samples were collected from the drinking water system and analyzed for all parameters in accordance with O.Reg. 170/03, Schedule 13. All samples analyzed met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

If chemical analysis under O.Reg. 170/03 was not required during this reporting period; the most recent analytical results for that parameter have been summarized in the tables below for reference, in accordance with O.Reg. 170/03, Section 11.

Under Schedule 13-2 and 13-4, sampling requirements for inorganics and organics are once every 36 months and tested for every parameter listed in O.Reg 170/03, Schedules 23 and 24. Results indicated that all parameters were below half the maximum allowable concentration in Schedule 2 in the Ontario Drinking Water Quality Standards. The most recent chemical parameter results are summarized in the table below for reference. The next sampling will be due in 2027.

Table 4: Schedule 23 - Inorganic and Schedule 24 Organic Results Summary

Parameter	Date Sampled	Results	Units	Exceedance
Schedule 23: Inorganics				
Antimony	2024/07/24	0.6 <MDL	ug/L	No
Arsenic	2024/07/24	0.2 <MDL	ug/L	No
Barium	2024/07/24	253	ug/L	No
Boron	2024/07/24	17	ug/L	No
Cadmium	2024/07/24	0.004	ug/L	No
Chromium	2024/07/24	1.74	ug/L	No
Mercury	2024/07/24	0.01 <MDL	ug/L	No
Selenium	2024/07/24	0.24	ug/L	No
Uranium	2024/07/24	0.419	ug/L	No
Schedule 24: Organics				
Alachlor	2024/07/24	0.02 <MDL	ug/L	No
Atrazine	2024/07/24	0.01 <MDL	ug/L	No
Atrazine + N-dealkylated metabolites	2024/07/24	0.01 <MDL	ug/L	No
Azinphos-methyl	2024/07/24	0.05 <MDL	ug/L	No
Benzene	2024/07/24	0.32 <MDL	ug/L	No
Benzo(a)pyrene	2024/07/24	0.004 <MDL	ug/L	No
Bromoxynil	2024/07/24	0.33 <MDL	ug/L	No
Carbaryl	2024/07/24	0.05 <MDL	ug/L	No
Carbofuran	2024/07/24	0.01 <MDL	ug/L	No
Carbon tetrachloride	2024/07/24	0.17 <MDL	ug/L	No
Chlorpyrifos	2024/07/24	0.02 <MDL	ug/L	No
Desethyl atrazine	2024/07/24	0.01 <MDL	ug/L	No
Diazinon	2024/07/24	0.02 <MDL	ug/L	No

Table 4: Schedule 23 - Inorganic & Schedule 24 Organic Results Summary (continued)

Parameter	Date Sampled	Results	Units	Exceedance
Schedule 24: Organics (continued)				
Dicamba	2024/07/24	0.20 <MDL	ug/L	No
1,2-Dichlorobenzene	2024/07/24	0.41 <MDL	ug/L	No
1,4-Dichlorobenzene	2024/07/24	0.36 <MDL	ug/L	No
1,2-Dichloroethane	2024/07/24	0.35 <MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	2024/07/24	0.33 <MDL	ug/L	No
Dichloromethane	2024/07/24	0.35 <MDL	ug/L	No
2,4-dichlorophenol	2024/07/24	0.15 <MDL	ug/L	No
2,4-dichlorophenoxyacetic acid (2,4-D)	2024/07/24	0.19 <MDL	ug/L	No
Diclofop-methyl	2024/07/24	0.40 <MDL	ug/L	No
Dimethoate	2024/07/24	0.06 <MDL	ug/L	No
Diquat	2024/07/24	1 <MDL	ug/L	No
Diuron	2024/07/24	0.03 <MDL	ug/L	No
Glyphosate	2024/07/24	1 <MDL	ug/L	No
Malathion	2024/07/24	0.02 <MDL	ug/L	No
MCPA	2024/07/24	0.00012 <MDL	mg/L	No
Metolachlor	2024/07/24	0.01 <MDL	ug/L	No
Metribuzin	2024/07/24	0.02 <MDL	ug/L	No
Monochlorobenzene	2024/07/24	0.3 <MDL	ug/L	No
Paraquat	2024/07/24	1 <MDL	ug/L	No
Pentachlorophenol	2024/07/24	0.15 <MDL	ug/L	No
Phorate	2024/07/24	0.01 <MDL	ug/L	No
Picloram	2024/07/24	1 <MDL	ug/L	No
Polychlorinated Biphenyls (PCBs) - Total	2024/07/24	0.04 <MDL	ug/L	No
Prometryne	2024/07/24	0.03 <MDL	ug/L	No
Simazine	2024/07/24	0.01 <MDL	ug/L	No
Terbufos	2024/07/24	0.01 <MDL	ug/L	No
Tetrachloroethylene (perchloroethylene)	2024/07/24	0.35 <MDL	ug/L	No
2,3,4,6-tetrachlorophenol	2024/07/24	0.20 <MDL	ug/L	No
Triallate	2024/07/24	0.01 <MDL	ug/L	No
Trichloroethylene	2024/07/24	0.44 <MDL	ug/L	No
2,4,6-trichlorophenol	2024/07/24	0.25 <MDL	ug/L	No
Trifluralin	2024/07/24	0.02 <MDL	ug/L	No
Vinyl Chloride	2024/07/24	0.17 <MDL	ug/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

4.4.3 Schedule 13: Chemical Testing (O.Reg. 170/03) (continued)

Under Schedule 13-6 and 13-6.1, sampling requirements for trihalomethanes (THMs) and haloacetic acids (HAAs) are quarterly and expressed as a running annual average (RAA), which is updated continually as quarterly sample results are received.

Regulatory reporting requirements for HAAs and its associated calculated RAA of quarterly results commenced January 1, 2020, although Environmental Services has been actively calculating RAA since 2017 as a best management practice to evaluate the status of the parameter within the drinking water system. The 2025 THMs and HAAs results are summarized in the table below for reference.

Table 5: Trihalomethanes and Haloacetic Acids Results Summary

Parameter	Running Annual Average (RAA)	Unit	Exceedance
Trihalomethanes (THMs)	8.18	ug/L	No
Haloacetic Acid (HAAs)	5.3<MDL	ug/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Schedule 13-7, sampling requirements for nitrate and nitrite are quarterly. The 2025 nitrate and nitrite results are summarized in the table below for reference.

Table 6: Nitrate and Nitrite Results Summary

Parameter	Date Sampled	Results	Unit	Exceedance
Nitrate	2025/02/26	5.71	mg/L	No
	2025/05/28	5.79	mg/L	No
	2025/08/27	5.94	mg/L	No
	2025/11/26	5.92	mg/L	No
Nitrite	2025/02/26	0.003<MDL	mg/L	No
	2025/05/28	0.003<MDL	mg/L	No
	2025/08/27	0.003<MDL	mg/L	No
	2025/11/26	0.003<MDL	mg/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Schedule 13-8 and 13-9, sampling requirements for sodium and fluoride are once every 60 months. Sodium and fluoride sampling was completed in 2023, and the results are summarized in the table on the following page for reference. The next sampling will be due in 2028.

Table 7: Sodium and Fluoride Results Summary

Parameter	Date Sampled	Results	Unit	Exceedance
Sodium	2023/08/29	85.2*	mg/L	Yes
Fluoride	2023/08/29	0.06<MDL	mg/L	No

*Sodium exceedance and corrective actions were summarized in the 2023 Annual Report.
Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

4.4.4 Schedule 15.1: Lead Testing (O.Reg. 170/03)

Lead samples are required to be collected from the drinking water system during the prescribed sampling periods of 'Winter' (December 15 to April 15) and 'Summer' (June 15 to October 15) in accordance with Schedule 15.1. The Warminster Drinking Water System has met the eligibility criteria for a reduction in sampling requirements as prescribed in Schedule 15.1-5. The distribution system sampling is required as follows:

- Alkalinity and pH each year, every "Winter" and "Summer" period
- Lead once every 3 years, "Winter" and "Summer" period

The 2025 alkalinity and pH results are summarized in Table 8 below for reference. Lead sampling was last required in 2024, and those results can be found in the annual Drinking Water Compliance Report for that year. The next alkalinity and pH sampling is scheduled for 2026, with the next round of lead sampling due in 2027.

Table 8: Alkalinity, pH and Lead Sampling Results Summary

Location Type	Sample Count	Date Sampled	Lead (ug/L)	Alkalinity (mg/L as $CaCo_3$)	pH	Exceedance
Plumbing	N/A	N/A	N/A	N/A	N/A	N/A
Distribution	2	2025/03/26	N/A	301 – 317	7.5 – 7.6	No
	2	2025/10/08	N/A	311 – 314	7.5 – 7.6	No

4.5 Reporting and Corrective Actions

4.5.1 Schedule 16: Reporting of Adverse Test Results and Other Problems

In accordance with O.Reg. 170/03, Schedule 16, notifications of adverse water quality incidents and other observations that indicate the potential of improperly disinfected water has been directed to users are provided to the MECP Spills Action Centre (SAC) and local Medical Officer of Health (Simcoe Muskoka District Health Unit (SMDHU)). During this reporting period, there were zero (0) incidents in the drinking water system.

4.5.2 Schedule 17: Corrective Actions

As no adverse test results or other reportable observations requiring reporting to the MECP occurred, no corrective actions were required.

Table 9: Adverse Water Quality Incidents (AWQIs) & Corrective Actions Summary

AWQI Number:
There were no AWQIs to report during this reporting period.
Incident Details:
N/A
Corrective Action:
N/A

4.6 Municipal Summary Report

4.6.1 Schedule 22, Section 1

The following table summarizes the requirements of the Act, the Regulations, the system's approval, the municipal drinking water licence, the drinking water works permit, and any orders applicable to the system that were not met during the reporting period, including the duration and description of the corrective action(s) taken.

Table 10: Regulatory Compliance Summary

Safe Drinking Water Act (SDWA) & Associated Regulations
The 2024 MECP Inspection Report was received after the completion of the 2024 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified, and a final inspection rating of 100% was received. At the time of this report's compilation, the 2025 MECP Inspection Report for this system had not yet been received.
Municipal Drinking Water Licence & Drinking Water Work Permit
At the time of this report's compilation, the 2025 MECP Inspection Report for this system had not yet been received.
Provincial Orders
At the time of this report's compilation, the 2025 MECP Inspection Report for this system had not yet been received.

Table 10: Regulatory Compliance Summary (continued)

Best Practice Issues and Recommendations
At the time of this report's compilation, the 2025 MECP Inspection Report for this system had not yet been received.

4.6.2 Schedule 22, Section 2

In order to assist the Township in assessing the capability of the system to meet existing and planned uses of the system, Appendix A and B summarize the quantities of water volumes supplied and offer a visual depiction of permitted water taking compared to drinking water system demands during the reporting period, including monthly average and maximum daily flows.

5 Conclusion

This report satisfies the requirements of Section 11 and Schedule 22 of O.Reg. 170/03. Any questions regarding this report should be directed to Environmental Services.

Appendix A – Well Flow Summary

Warminster Well Flow Summary Table

	Well 1				Well 3			
	Permitted Capacity: 889 m³/day				Permitted Capacity: 889 m³/day			
	Total Flow (m^3)	Average Day (m^3)	Maximum Day (m^3)	Max. Day/ Capacity (%)	Total Flow (m^3)	Average Day (m^3)	Maximum Day (m^3)	Max. Day/ Capacity (%)
January	3022.94	97.51	208.51	23.45	2919.22	94.17	212.67	23.92
February	2509.78	89.64	200.24	22.52	2770.04	98.93	215.20	24.21
March	3088.31	99.62	209.86	23.61	3324.80	107.25	211.68	23.81
April	3666.61	122.22	344.89	38.80	2940.47	98.02	219.00	24.63
May	4361.56	140.70	280.42	31.54	4293.97	138.52	322.37	36.26
June	5226.17	174.21	490.63*	55.19	5550.48	185.02	306.92	34.52
July	6371.92	205.55	312.08	35.10	7059.13	227.71	476.85*	53.64
August	5913.81	190.77	360.40	40.54	5703.09	183.97	359.84	40.48
September	3997.67	133.26	242.87	27.32	4492.78	149.76	294.39	33.12
October	3515.74	113.41	228.41	25.69	3334.25	107.56	230.67	25.95
November	3000.57	100.02	206.29	23.20	3304.51	110.15	213.50	24.02
December	3513.27	113.33	204.56	23.01	3321.98	107.16	220.29	24.78

* Denotes month of maximum day flow for 2025.

Appendix B – Average and Maximum Daily Usage Compared to Permitted Daily Capacity

Average and Maximum Daily Usage Compared to Permitted Daily Capacity