

Township of Oro-Medonte Drinking Water Compliance Report 2024

Maplewood Drinking Water System

Annual and Municipal Summary Reports

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



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O Township of Medonte Proud Heritage, Exciting Future

DRINKING WATER COMPLIANCE REPORT 2024

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

Maplewood Drinking Water System (DWS #220004135)

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 of 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 Maplewood Drinking Water System



MAPLEWOOD

Drinking Water System Number: 220004135
Raw Water Source: Groundwater

Drinking Water System Category: Small Municipal Residential

Drinking Water System Classification: Water Supply & Distribution Class 2

Population Served: Approx. 196 persons

4.1 Municipal Drinking Water System Description

Maplewood Drinking Water System (DWS # 220004135) is located at 40 Maplewood Parkway, Concession 15, Oro-Medonte. The facility is owned and operated by the Corporation of the Township of Oro-Medonte in accordance with its specific MDWL, DWWP, and PTTW and all other applicable legislation.

This groundwater facility consists of two production wells, process piping, and an inground reservoir. Raw water is conveyed to the pumphouse, where treatment includes aeration for the removal of naturally occurring hydrogen sulphide and 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 an in-ground dual celled 91m³ reservoir. Two (2) high lift pumps distribute treated water into the distribution system based on system demand.

The distribution system consists of approximately 1.1km of watermain (ranging in size from 50mm to 150mm), six (6) valves, three (3) sample stations servicing 56 detached residential units.

Monitoring of the drinking water system's operation is 24 hours a day, seven days a week continuously 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 natural gas generator.



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 or 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
Well 1 Flowmeter Replacement	\$10,000

4.4 Ontario Regulation (O.Reg) 170/03: 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 2024 due to any requirements of an approval, order or other legal instrument.

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DRINKING WATER COMPLIANCE REPORT 2024

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 small 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	0.14/0.53/0.98
Raw Turbidity (NTU) – Well 2	12	0.19/0.44/0.88
Chlorine (mg/L)	8760*	0.41/1.35/2.66**
Fluoride	N/A	N/A

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

4.4.2 Schedule 11: Microbiological Sampling and Testing (O.Reg 170/03)

Raw, treated and distribution water samples were collected and analyzed for microbiological parameters specified in Section 11-2, 11-3 and 11-4 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 be indicative of 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 on the following page for reference.

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





Table 3: Schedule 11 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)
Bow	Well 1	26	0 - 0	0 – 5	0 -> 200	N/A
Raw	Well 2	26	0 - 0	0 - 0	0 -> 200	N/A
Treated		26	0 – 0	0 – 0	0 – 0	N/A
Distribution	-	26	0 – 0	0 – 0	0 – 0	<10 – 40

Note: Total coliform results in raw drinking water samples are prior to treatment.

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 Section 13-2 and 13-4, sampling requirements for inorganics and organics are once every 60 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.

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

Parameter	Date Sampled	Results	Units	Exceedance			
Schedule 23: Inorganics							
Antimony	2021/06/16	0.9 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No			
Arsenic	2021/06/16	0.6	ug/L	No			
Barium	2021/06/16	165	ug/L	No			
Boron	2021/06/16	38	ug/L	No			
Cadmium	2021/06/16	0.003 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No			
Chromium	2021/06/16	0.33	ug/L	No			
Mercury	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No			
Selenium	2021/06/16	0.04 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No			
Uranium	2021/06/16	0.101	ug/L	No			
Schedule 24: Organics							
Alachlor	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No			





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

Atrazine + N-dealkylated metabolites	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Azinphos-methyl	2021/06/16	0.05 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Benzene	2021/06/16	0.32 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Benzo(a)pyrene	2021/06/16	0.004 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Bromoxynil	2021/06/16	0.33 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbaryl	2021/06/16	0.05 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbofuran	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbon Tetrachloride	2021/06/16	0.17 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Chlorpyrifos	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diazinon	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dicamba	2021/06/16	0.20 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,2-Dichlorobenzene	2021/06/16	0.41 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,4-Dichlorobenzene	2021/06/16	0.36 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,2-Dichloroethane	2021/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/06/16	0.33 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dichloromethane	2021/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2-4 Dichlorophenol	2021/06/16	0.15 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/06/16	0.19 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diclofop-methyl	2021/06/16	0.40 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dimethoate	2021/06/16	0.06 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diquat	2021/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diuron	2021/06/16	0.03 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Glyphosate	2021/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Malathion	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Metolachlor	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Metribuzin	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Monochlorobenzene	2021/06/16	0.3 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
MCPA	2021/06/16	0.00012 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Paraquat	2021/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Pentachlorophenol	2021/06/16	0.15 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Phorate	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Picloram	2021/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Polychlorinated Biphenyls (PCB)	2021/06/16	0.04 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Prometryne	2021/06/16	0.03 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Simazine	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Terbufos	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Tetrachloroethylene	2021/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,3,4,6-Tetrachlorophenol	2021/06/16	0.20 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No



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

Triallate	2021/06/16	0.01 <mdl< th=""><th>ug/L</th><th>No</th></mdl<>	ug/L	No
Trichloroethylene	2021/06/16	0.44 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,4,6-Trichlorophenol	2021/06/16	0.25 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Trifluralin	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Vinyl Chloride	2021/06/16	0.17 <mdl< td=""><td>ug/L</td><td>No</td></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 Section 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), that 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 2024 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)	15.00	ug/L	No	
Haloacetic Acid (HAAs)	5.3 <mdl< td=""><td>ug/L</td><td>No</td></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 Section 13-7, sampling requirements for nitrate and nitrite are quarterly. The 2024 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
	2024/02/15	0.006 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Nitrate	2024/05/29	0.006 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Miliale	2024/08/20	0.006 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
	2024/11/27	0.006 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
	2024/02/15	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Nitrite	2024/05/29	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Millile	2024/08/20	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
	2024/11/27	0.003 <mdl< td=""><td>mg/L</td><td>No</td></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 Section 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 below 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	28.0*	mg/L	Yes
Fluoride	2023/08/29	0.14	mg/L	No

^{*}Sodium exceedance and corrective actions were summarized in the 2023 Annual Report.

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 Maplewood Drinking Water System has met the eligibility criteria for a reduction in sampling requirements as prescribed in Section 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 2024 lead, total alkalinity and pH results are summarized in Table 8 on the following page for reference.

Table 8: Alkalinity, pH and Lead Sampling Results Summary

Location Type	Sample Count	Date Sampled	Lead (ug/L)	Alkalinity (mg/L as CaCo ₃)	рН	Exceedance
Plumbing	N/A	N/A	N/A	N/A	N/A	N/A
Distribution	1	2024/03/21	0.07	245	7.1	No
Distribution	1	2024/09/24	0.06	247	7.5	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 18: Corrective Actions

Due to the non-occurrence of any adverse test or other observations requiring reporting to the MECP, there were no corrective actions 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, municipal drinking water licence, 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

At the time of this report's compilation, the 2024 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 2024 MECP Inspection Report for this system had not yet been received.

Provincial Orders

At the time of this report's compilation, the 2024 MECP Inspection Report for this system had not yet been received.

Best Practice Issues and Recommendations

At the time of this report's compilation, the 2024 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 offers 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





	Well 1				Well 2			
	Permitted Capacity: 164 m ³ /day				Permitted Capacity: 164 m³/day			
	Total Flow (m³)	Average Day (m³)	Maximum Day (m³)	Max. Day/ Capacity (%)	Total Flow (m ³)	Average Day (m³)	Maximum Day (m³)	Max. Day/ Capacity (%)
January	262.22	8.46	22.96	14.00	412.38	13.30	43.77	26.69
February	249.39	8.60	19.72	12.03	265.37	9.15	23.00	14.02
March	281.64	9.09	20.49	12.49	275.48	8.89	17.52	10.68
April	348.52	11.62	39.04	23.81	279.26	9.31	19.58	11.94
May	365.40	11.79	34.13	20.81	381.82	12.32	41.71	25.43
June	359.24	11.97	27.00	16.46	356.98	11.90	22.53	13.74
July	434.32	14.01	35.03	21.36	441.57	14.24	34.75	21.19
August	534.36	17.24	37.03	22.58	537.17	17.33	50.66*	30.89
September	429.50	14.32	41.59	25.36	361.65	12.05	26.67	16.26
October	289.31	9.33	18.17	11.08	355.39	11.46	42.25	25.76
November	286.41	9.55	18.59	11.34	269.52	8.98	17.60	10.73
December	545.05	17.58	50.13*	30.56	231.10	7.45	22.26	13.58

^{*} Denotes month of maximum day flow for 2024.

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



