



Come for a visit. Stay for a lifestyle.

The Municipality of Trent Hills

## **SUMMARY REPORT**

# Warkworth Drinking-Water System 2022

Municipal Drinking Water License 150-101

Drinking Water Works Permit 150-201

Prepared by  
Water Operations Division  
March 2023

The following summary report is prepared as legislated by the **Safe Drinking Water Act, 2002** under Ontario Regulation 170, Schedule 22 - Summary Reports for Municipalities.

**SAFE DRINKING WATER ACT**  
**(O. Reg. 170/03, Sched. 22)**

The following provides details of the sections and sub-sections found under **Schedule 22 - Summary Reports for Municipalities** of O. Reg. 170/03. This information has been included for your reference.

**SCHEDULE 22**

**SUMMARY REPORTS FOR MUNICIPALITIES**

Municipal: Large Residential, Small Residential

Application

**22-1.** This Schedule applies to the following drinking-water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

**22-2.**

(1) The owner of a drinking-water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking-water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act 2001*, the members of the municipal service board; or
- (c) in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a), that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary 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 daily instantaneous peak flow rates.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) REVOKED: O. Reg. 253/05, s. 18.

### **Report Summary**

In reference to the above legislation, the following details how this relates to the Trent Hills drinking water systems:

#### **Application**

**22-1.** The Warkworth Drinking Water System is classified as  
“Large municipal residential”

#### **Report**

**22-2.**

Sub-section (1)

This section refers to this report submission.

Sub-section (2)

#### **Warkworth Drinking Water System (January 2022) Drinking Water System Inspection Report 1-54448528**

Observation/Corrective Action(s)

1. During the inspection it was identified that the owner/operator is only verifying the continuous turbidity analyzers for the filter effluent on a quarterly basis. As the manufacturer’s instructions do not indicate how often to verify, the regulation requires as often as necessary to ensure that the test results are within a margin of error of 0.1 NTU.

It is recommended that at a minimum the owner/operator verify and document a verification weekly on each analyzer. If the verification is outside the margin of error a calibration must be completed.

3. The owner/operator does not have a formal procedure to detail the cleaning and inspection frequency of the onsite chlorine contact chamber and clearwell or offsite reservoir. It is recommended that a formal cleaning frequency procedure be created and included into current procedures.

4. It was identified during the inspection that the owner/operator is currently not using No Trespassing signs to deter members of the public from loitering around the treatment plant. As a best practice it is recommended that such signage be utilized.

**Final Inspection Rating 100%**

#### **Warkworth Drinking Water System (September 2022) Drinking Water System Inspection Report 1-127937542**

Observation/Corrective Action(s)

Nothing to report.

There were no known occurrences of non-compliance with applicable act, regulations, drinking water works permit or municipal drinking water license, and no orders were issued to Trent Hills, Campbellford Drinking Water System during this reporting period.

Sub-section (3)

This information is included in Appendix A which provides flow data for the Warkworth water system. The data included in those tables under Treated water details average and maximum flows to assess actual flow demands compared with the approved capacities of each facility. The data included under the raw water heading displays peak flow demands compared to the approved capacity. This data would also indicate if a facility exceeded the rated operational capacity.

Sub-section (4)

This section does not apply to the Warkworth Drinking Water System.

Any questions regarding the information contained in this report should be directed to the undersigned at 705-653-8569.

Scott White  
General Manager of Infrastructure Renewal and Public Works Administration,  
Municipality of Trent Hills

# **APPENDIX A**

## ***WARKWORTH WATER TREATMENT PLANT***

*2022 Flow Summary Data*

**ANNUAL FLOW SUMMARY 2022**

**WARCKWORTH WATER TREATMENT PLANT**

**Service Population: 660**

**Design Capacity: 900 M<sup>3</sup>/Day, 10.4 l/s**

<b>Treated Water</b>							<b>Raw Water</b>				
Month	Total Monthly Flow <b>M<sup>3</sup></b>	Average Daily Flow <b>M<sup>3</sup></b>	Minimum Daily Flow <b>M<sup>3</sup></b>	Maximum Daily Flow <b>M<sup>3</sup></b>	Approved Daily Plant Capacity <b>M<sup>3</sup></b>	Maximum Daily Flow vs. Plant Capacity <b>%</b>	Total Monthly Flow <b>M<sup>3</sup></b>	Maximum Daily Flow <b>M<sup>3</sup></b>	Maximum Peak Flow Rate <b>l/s</b>	Approved Maximum Flow Rate <b>l/s</b>	Max. Peak Flow Rate vs. Rated Flow Rate <b>%</b>
January	4,925	159	124	225	900	25	5,256	210	3.6	10.4	35
February	4,415	158	137	191	900	21	4,759	180	5.5	10.4	53
March	5,069	164	135	202	900	22	5,474	213	5.2	10.4	50
April	5,684	189	140	336	900	37	5,974	339	5.8	10.4	56
May	6,358	205	171	245	900	27	6,783	280	3.8	10.4	37
June	5,693	190	145	249	900	28	6,066	309	4.2	10.4	40
July	5,805	187	151	305	900	34	6,331	262	4.7	10.4	45
August	5,392	174	106	235	900	26	5,738	240	5.8	10.4	56
September	5,442	181	146	313	900	35	5,808	310	6.2	10.4	60
October	5,047	163	107	297	900	33	5,378	299	4.8	10.4	46
November	4,445	148	106	187	900	21	4,759	180	4.7	10.4	45
December	4,565	147	129	180	900	20	4,844	180	4.6	10.4	44
<b>Total</b>	<b>62,840</b>						<b>67,170</b>				
<b>Average</b>		<b>172</b>									
<b>Minimum</b>			<b>106</b>								
<b>Maximum</b>				<b>336</b>		<b>37</b>		<b>339</b>	<b>6.2</b>		<b>60</b>