



ANNUAL REPORT

Drinking-Water System Number:	210000498
Drinking-Water System Name:	Warkworth Drinking Water System
Drinking-Water System Owner:	Municipality of Trent Hills
Municipal Drinking Water Licence	150-101
Drinking Water Works Permit	150-201
Drinking-Water System Category:	WT III, WD II
Period being reported:	January 1 to December 31, 2025

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Trent Hills Municipal Office 66 Front Street South, Campbellford ON</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Warkworth Drinking Water System	210000498

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?
Yes [X] No []



Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method _____

Describe your Drinking-Water System

The Warkworth water treatment plant is a conventional water treatment system, which draws all of its raw water supply from Burnley Creek. The treatment system consists of a low lift pumping station, one (1) package treatment system consisting of primary and secondary flocculation, sedimentation and two (2) dual-media filters equipped with granular activated carbon for taste, odour and dissolved organic carbon removal, a baffled contact tank connected to the filter discharge providing primary disinfection, and high lift pumping station equipped with secondary disinfection capabilities accomplished by a chlorine injection system located on the plant discharge piping.

A 500 cubic meter off-site storage reservoir provides peak hour demands and fire flow protection. There is a booster pumping station located on Old Hastings Rd. that supplies water to the Old Hastings Rd. area, Percy St. and the Orchard Hills residential development. The booster station is equipped with fire flow capabilities and has emergency back-up power. The water distribution system is comprised of various water main materials of different sizes with two (2) separate pressure zones. The system supplies drinking water to the Village of Warkworth.

List all water treatment chemicals used over this reporting period

1. Poly Aluminum-chloride (SternPAC) - supplied by Kemira
2. Dry Polymer (Magnafloc LT27A) - supplied by Northland Chemical
3. Sodium Hypo-chlorite – supplied by Brenntag Canada

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

- Contracted services \$ 13,025.73
- PLC System Upgrades \$ 56,619.29
- Chemicals \$ 27,106.93
- Equipment repairs \$ 4727.12
- Lab testing \$ 5205.39
- SCADA System Upgrades \$ 22,957.05
- GAC Media replacement \$ 47,257.34

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	52	0 - 320	0 - 1580	0	N/A
Treated	52	0 - 0	0 - 0	52	0 - 18
Distribution	104	0 - 0	0 - 0	56	0 - 200

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	8760	0.018-0.796 NTU
Chlorine	8760	0.98-5.17 mg/l
Fluoride (If the DWS provides fluoridation)	N/A	N/A

NOTE: For continuous monitors use 8760 as the number of samples.

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
Municipal Drinking Water Licence, Issued June 25th, 2021.	Total Suspended Solids	Samples collected monthly. Result = annual average concentration.	5.58	mg/L

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	07/01/2025	0.6<MDL	Micrograms	0
Arsenic	07/01/2025	0.2<MDL	Micrograms	0
Barium	07/01/2025	51.4	Micrograms	0



Boron	07/01/2025	7	Micrograms	0
Cadmium	07/01/2025	0.005	Micrograms	0
Chromium	07/01/2025	0.16	Micrograms	0
*Lead				
Mercury	07/01/2025	0.01<MDL	Micrograms	0
Selenium	07/01/2025	0.06	Micrograms	0
Sodium	07/01/2025	10.6	Milligrams	0
Uranium	07/01/2025	0.015	Micrograms	0
Fluoride	07/01/2025	0.06<MDL	Milligrams	0
Nitrite	10/11/2024	0.003<MDL	Milligrams	0
Nitrate	10/11/2024	0.343	Milligrams	0

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)ug/L	Number of Exceedances
Plumbing	N/A	N/A	N/A
Distribution	8	0.02–1.05	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	07/01/2025	0.02<MDL	Micrograms	0
Atrazine + N-dealkylated metabolites	07/01/2025	0.01<MDL	Micrograms	0
Atrazine	07/01/2025	0.01<MDL	Micrograms	0
Desethyl atrazine	07/01/2025	0.01<MDL	Micrograms	0
Azinphos-methyl	07/01/2025	0.05<MDL	Micrograms	0
Benzene	07/01/2025	0.32<MDL	Micrograms	0
Benzo(a)pyrene	07/01/2025	0.004<MDL	Micrograms	0
Bromoxynil	07/01/2025	0.33<MDL	Micrograms	0
Carbaryl	07/01/2025	0.05<MDL	Micrograms	0
Carbofuran	07/01/2025	0.01<MDL	Micrograms	0
Carbon Tetrachloride	07/01/2025	0.17<MDL	Micrograms	0
Chlorpyrifos	07/01/2025	0.02<MDL	Micrograms	0
Diazinon	07/01/2025	0.02<MDL	Micrograms	0
Dicamba	07/01/2025	0.20<MDL	Micrograms	0
1,2-Dichlorobenzene	07/01/2025	0.41<MDL	Micrograms	0
1,4-Dichlorobenzene	07/01/2025	0.36<MDL	Micrograms	0
1,2-Dichloroethane	07/01/2025	0.35<MDL	Micrograms	0
1,1-Dichloroethylene(vinylidene chloride)	07/01/2025	0.33 <MDL	Micrograms	0
Dichloromethane	07/01/2025	0.35<MDL	Micrograms	0
2-4 Dichlorophenol	07/01/2025	0.15<MDL	Micrograms	0
2,4-Dichlorophenoxy acetic acid (2,4-D)	07/01/2025	0.19<MDL	Micrograms	0
Diclofop-methyl	07/01/2025	0.40<MDL	Micrograms	0
Dimethoate	07/01/2025	0.06<MDL	Micrograms	0
Diquat	07/01/2025	1<MDL	Micrograms	0



Diuron	07/01/2025	0.03<MDL	Micrograms	0
Glyphosate	07/01/2025	1<MDL	Micrograms	0
Malathion	07/01/2025	0.02<MDL	Micrograms	0
MCPA	07/01/2025	0.00012<MDL	Milligrams	0
Metolachlor	07/01/2025	0.01<MDL	Micrograms	0
Metribuzin	07/01/2025	0.02<MDL	Micrograms	0
Monochlorobenzene	07/01/2025	0.30<MDL	Micrograms	0
Paraquat	07/01/2025	1<MDL	Micrograms	0
Pentachlorophenol	07/01/2025	0.15<MDL	Micrograms	0
Phorate	07/01/2025	0.01<MDL	Micrograms	0
Picloram	07/01/2025	1<MDL	Micrograms	0
Polychlorinated Biphenyls(PCB)	07/01/2025	0.04<MDL	Micrograms	0
Prometryne	07/01/2025	0.03<MDL	Micrograms	0
Simazine	07/01/2025	0.01<MDL	Micrograms	0
THM (NOTE: show latest annual average)		51.5	Micrograms	0
Terbufos	07/01/2025	0.01<MDL	Micrograms	0
Tetrachloroethylene	07/01/2025	0.35<MDL	Micrograms	0
2,3,4,6-Tetrachlorophenol	07/01/2025	0.20<MDL	Micrograms	0
Triallate	07/01/2025	0.01<MDL	Micrograms	0
Trichloroethylene	07/01/2025	0.44<MDL	Micrograms	0
2,4,6-Trichlorophenol	07/01/2025	0.25<MDL	Micrograms	0
Trifluralin	07/01/2025	0.02<MDL	Micrograms	0
Vinyl Chloride	07/01/2025	0.17<MDL	Micrograms	0

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample