Ontario

Ministry of the Environment | Ministère de l'Environnement

Drinking-Water Systems Regulation O. Reg. 170/03

As amended 2025-02-27

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260001669
Drinking-Water System Name:	Lone Pine Water Treatment Plant – Port Severn
Drinking-Water System Owner:	District Municipality of Muskoka
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01 to December 31, 2025

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

District Municipality of Muskoka
70 Pine Street
Bracebridge, Ontario
P1L 1N3
(705) 645-6764
www.muskoka.on.ca

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [ ]

Number of Interested Authorities you report to: N/A

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [ ] No [ ]

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

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 [ ] No [ ]

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

- **[X] Public access/notice via the web**
- **[X] Public access/notice via Government Office**
- **[ ] Public access/notice via a newspaper**
- **[X] Public access/notice via Public Request**
- **[ ] Public access/notice via a Public Library**
- **[ ] Public access/notice via other method**

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Describe your Drinking-Water System

The water treatment plant serving the community of Port Severn was constructed in 1997. The treatment process consists of chemically assisted coagulation-flocculation, sedimentation, filtration, disinfection by chlorination and then fluoridation and final pH adjustment. The system currently serves a population of approximately 750 persons. The capacity of the plant is 1,900 cubic meters per day. The raw water source is Little Lake, and the intake is 225 meters from shore.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite, Aluminum Sulphate, Sodium Hydroxide, Fluoride.

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

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 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 - NDOGT	0 - NDOGT	N/A	N/A
Treated	52	0 - 0	0 - 0	52	0 - 2
Distribution	156	0 - 0	0 - 0	105	0 - 9

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 #)	Geometric Mean Average
Turbidity	8760	0.05 – 0.9 NTU	0.12 NTU
Chlorine	8760	1.25 - 2.38 mg/l	1.91 mg/l
Fluoride (If the DWS provides fluoridation)	8760	0.51 – 0.73 mg/l	0.62 mg/l

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

***NOTE**: Record the unit of measure if it is **not** milligrams per litre.*
MDL = Method Detection Limit

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
N/A				

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	May 12/2025	0.6	µg/L	No
Arsenic	May 12/2025	0.2	µg/L	No
Barium	May 12/2025	18.9	µg/L	No
Boron	May 12/2025	10	µg/L	No
Cadmium	May 12/2025	0.004	µg/L	No
Chromium	May 12/2025	0.20	µg/L	No
***Lead**	May 12/2025	Summary Below	µg/L	No
Mercury	May 12/2025	0.01	µg/L	No

Selenium	May 12/2025	0.04	µg/L	No
Sodium	May 12/2025	24.7	mg/L	No
Uranium	May 12/2025	0.003	µg/L	No
Fluoride	May 12/2025	0.53	mg/L	No
Nitrite	Feb 10/2025	0.003	mg/L	No
Nitrate	Feb 10/2025	0.069	mg/L	No
Nitrite	May 12/2025	0.003	mg/L	No
Nitrate	May 12/2025	0.079	mg/L	No
Nitrite	Aug 11/2025	0.003	mg/L	No
Nitrate	Aug 11/2025	0.029	mg/L	No
Nitrite	Nov 24/2025	0.003	mg/L	No
Nitrate	Nov 24/2025	0.013	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal nonresidential 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 #)	Geometric Mean Average	Unit of Measure	Number of Exceedances
Plumbing	0	N.A.	N.A.	µg/L	N.A.
Distribution	4	0.01 – 0.07	0.02	µg/L	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	May 12/2025	0.02	µg/L	No
Atrazine+N-dealkylated Metabolites	May 12/2025	0.01	µg/L	No
Azinphos-methyl	May 12/2025	0.05	µg/L	No
Benzene	May 12/2025	0.32	µg/L	No
Benzo(a)pyrene	May 12/2025	0.004	µg/L	No
Bromoxynil	May 12/2025	0.33	µg/L	No
Carbaryl	May 12/2025	0.05	µg/L	No
Carbofuran	May 12/2025	0.01	µg/L	No
Carbon Tetrachloride	May 12/2025	0.17	µg/L	No
Chorpyrifos	May 12/2025	0.02	µg/L	No
Diazinon	May 12/2025	0.02	µg/L	No

Dicamba	May 12/2025	0.2	µg/L	No
1,2 Dichlorobenzene	May 12/2025	0.41	µg/L	No
1,4 Dichlorobenzene	May 12/2025	0.36	µg/L	No
1,2 Dichloroethane	May 12/2025	0.35	µg/L	No
1,1 Dichloroethylene	May 12/2025	0.33	µg/L	No
Dichloromethane	May 12/2025	0.35	µg/L	No
2,4 Dichlorophenol	May 12/2025	0.15	µg/L	No
2,4-D	May 12/2025	0.19	µg/L	No
Diclofop-Methyl	May 12/2025	0.4	µg/L	No
Dimethoate	May 12/2025	0.06	µg/L	No
Diquat	May 12/2025	1	µg/L	No
Diuron	May 06/2024	0.03	µg/L	No
Glyphosate	May 12/2025	1	µg/L	No
Malathion	May 12/2025	0.02	µg/L	No
MCPA	May 12/2025	0.00012	µg/L	No
Metolachor	May 12/2025	0.01	µg/L	No
Metribuzin	May 12/2025	0.02	µg/L	No
Monochlorobenzene	May 12/2025	0.3	µg/L	No
Paraquat	May 12/2025	1	µg/L	No
Pentachlorophenol	May 12/2025	0.15	µg/L	No
Phorate	May 12/2025	0.01	µg/L	No
Picloram	May 12/2025	1	µg/L	No
PCB	May 12/2025	0.04	µg/L	No
Prometryne	May 12/2025	0.03	µg/L	No
Simazine	May 12/2025	0.01	µg/L	No
THM (NOTE: Annual average of 4 samples – Distribution system)	Feb 10/2025 - Nov 24/2025	35.75	µg/L	No
HAA (NOTE: Annual average of 4 samples – Distribution system)	Feb 10/2025 - Nov 24/2025	26.6	µg/L	No
Terbufos	May 12/2025	0.01	µg/L	No
Tetrachloroethylene	May 12/2025	0.35	µg/L	No
2,3,4,6 - Tetrachlorophenol	May 12/2025	0.2	µg/L	No
Triallate	May 12/2025	0.01	µg/L	No
Trichloroethylene	May 12/2025	0.44	µg/L	No
2,4,6,- Trichlorophenol	May 12/2025	0.25	µg/L	No

Trifluralin	May 12/2025	0.02	µg/L	No
Vinyl Chloride	May 12/2025	0.17	µg/L	No

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
Sodium	24.7	mg/L	May 12/2025