



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

## OPTIONAL ANNUAL REPORT TEMPLATE

**Drinking-Water System Number:**  
**Drinking-Water System Name:**  
**Drinking-Water System Owner:**  
**Drinking-Water System Category:**  
**Period being reported:**

|                                  |
|----------------------------------|
| 220001888                        |
| Minto Water Treatment Plant      |
| District Municipality of Muskoka |
| Large Municipal Residential      |
| 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 [x]

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 [x]

**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 their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|----------------------------|------------------------------|
| N/A                        | N/A                          |

**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 its drinking water?**

Yes ☐ 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 water treatment plant serving the community of Bala was constructed in 1994. The treatment process consists of chemically assisted coagulation-flocculation, sedimentation and filtration using multi-media filters with a combination of gravel, sand and anthracite coal. Disinfection in a post-treatment chlorine contact chamber is followed by final pH adjustment and fluoridation before the treated water is pumped to our customers. Our waterworks currently serve a population of approximately 1000 persons. The rated water production capacity of the plant is 1942 cubic meters per day. Our raw water source is Lake Muskoka, and the intake is located two meters above the lakebed at a depth of 18 meters and about 500 meters from shore.

### **List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite, Polyaluminum Chloride, Sodium Hydroxide, Carbon Dioxide, Hydrated Lime, Potassium Permanganate, 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**

N/A

**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           | N/A       | N/A    | N/A             | N/A               | 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 #) |
|---------------------|-------------------|--------------------------------------------------|-------------------------------------------------|-----------------------|--------------------------------------|
| <b>Raw</b>          | 52                | 0 – 6                                            | 0 - 47                                          | N.A.                  | N.A.                                 |
| <b>Treated</b>      | 52                | 0 - 0                                            | 0 - 0                                           | 52                    | 0 - 2                                |
| <b>Distribution</b> | 168               | 0 - 0                                            | 0 - 0                                           | 119                   | 0 - 2                                |

**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 | <b>NOTE:</b><br>For continuous monitors use 8760 as the number of samples. |
|------------------------------------------------------|------------------------|----------------------------------|------------------------|----------------------------------------------------------------------------|
| <b>Turbidity</b>                                     | 8760                   | 0.02 - 0.25 NTU                  | 0.04 NTU               |                                                                            |
| <b>Chlorine</b>                                      | 8760                   | 1.56 – 2.27 mg/l                 | 1.96 mg/l              |                                                                            |
| <b>Fluoride</b> (If the DWS provides fluoridation) * | 8760                   | 0.00 - 0.87 mg/l                 | 0.54 mg/l              |                                                                            |

**\*NOTE:** Fluoride results included above for Geometric Mean Average are only reflective of the days when fluoride was injected into the drinking water system. There was a period of days where fluoridation did not occur, and these days are not included in the Geometric Mean Average results. The days where fluoridation did not occur, resulted in a 0mg/l result.

**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                             | N/A       | N/A          | N/A    | 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 05/2025 | 0.6           | µg/L            | No         |
| Arsenic   | May 05/2025 | 0.2           | µg/L            | No         |
| Barium    | May 05/2025 | 9.83          | µg/L            | No         |
| Boron     | May 05/2025 | 5             | µg/L            | No         |
| Cadmium   | May 05/2025 | 0.004         | µg/L            | No         |
| Chromium  | May 05/2025 | 0.20          | µg/L            | No         |
| *Lead     |             | Summary below | µg/L            | No         |
| Mercury   | May 05/2025 | 0.01          | µg/L            | No         |
| Selenium  | May 05/2025 | 0.04          | µg/L            | No         |
| Sodium    | May 05/2025 | 10.9          | mg/L            | No         |
| Uranium   | May 05/2025 | 0.002         | µg/L            | No         |
| Fluoride  | May 05/2025 | 0.48          | mg/L            | No         |
| Nitrite   | Feb 10/2025 | 0.003         | mg/L            | No         |
| Nitrate   | Feb 10/2025 | 0.178         | mg/L            | No         |
| Nitrite   | May 05/2025 | 0.003         | mg/L            | No         |
| Nitrate   | May 05/2025 | 0.188         | mg/L            | No         |
| Nitrite   | Aug 11/2025 | 0.003         | mg/L            | No         |
| Nitrate   | Aug 11/2025 | 0.177         | mg/L            | No         |
| Nitrite   | Nov 24/2025 | 0.003         | mg/L            | No         |
| Nitrate   | Nov 24/2025 | 0.071         | 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      | N/A               | N/A                                    | N/A                    | N/A             | N/A                   |
| Distribution  | 4                 | 0.01-0.09                              | 0.017                  | µg/L            | No                    |

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

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| Parameter                          | Sample Date | Result Value | Unit of Measure | Exceedance |
|------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor                           | May 05/2025 | 0.02         | µg/L            | No         |
| Atrazine+N-dealkylated Metabolites | May 05/2025 | 0.01         | µg/L            | No         |
| Azinphos-methyl                    | May 05/2025 | 0.05         | µg/L            | No         |
| Benzene                            | May 05/2025 | 0.32         | µg/L            | No         |
| Benzo(a)pyrene                     | May 05/2025 | 0.004        | µg/L            | No         |
| Bromoxynil                         | May 05/2025 | 0.33         | µg/L            | No         |
| Carbaryl                           | May 05/2025 | 0.05         | µg/L            | No         |
| Carbofuran                         | May 05/2025 | 0.01         | µg/L            | No         |
| Carbon Tetrachloride               | May 05/2025 | 0.17         | µg/L            | No         |
| Chorpyrifos                        | May 05/2025 | 0.02         | µg/L            | No         |
| Diazinon                           | May 05/2025 | 0.02         | µg/L            | No         |
| Dicamba                            | May 05/2025 | 0.2          | µg/L            | No         |
| 1,2 Dichlorobenzene                | May 05/2025 | 0.41         | µg/L            | No         |
| 1,4 Dichlorobenzene                | May 05/2025 | 0.36         | µg/L            | No         |
| 1,2 Dichloroethane                 | May 05/2025 | 0.35         | µg/L            | No         |
| 1,1 Dichloroethylene               | May 05/2025 | 0.33         | µg/L            | No         |
| Dichloromethane                    | May 05/2025 | 0.35         | µg/L            | No         |
| 2,4 Dichlorophenol                 | May 05/2025 | 0.15         | µg/L            | No         |
| 2,4-D                              | May 05/2025 | 0.19         | µg/L            | No         |
| Diclofop-Methyl                    | May 05/2025 | 0.4          | µg/L            | No         |
| Dimethoate                         | May 05/2025 | 0.06         | µg/L            | No         |
| Diquat                             | May 05/2025 | 1            | µg/L            | No         |
| Diuron                             | May 05/2025 | 0.03         | µg/L            | No         |
| Glyphosate                         | May 05/2025 | 1            | µg/L            | No         |
| Malathion                          | May 05/2025 | 0.02         | µg/L            | No         |
| MCPA                               | May 05/2025 | 0.00012      | µg/L            | No         |
| Metolachlor                        | May 05/2025 | 0.01         | µg/L            | No         |
| Metribuzin                         | May 05/2025 | 0.02         | µg/L            | No         |
| Monochlorobenzene                  | May 05/2025 | 0.3          | µg/L            | No         |
| Paraquat                           | May 05/2025 | 1            | µg/L            | No         |
| Pentachlorophenol                  | May 05/2025 | 0.15         | µg/L            | No         |
| Phorate                            | May 05/2025 | 0.01         | µg/L            | No         |
| Picloram                           | May 05/2025 | 1            | µg/L            | No         |
| PCB                                | May 05/2025 | 0.04         | µg/L            | No         |
| Prometryne                         | May 05/2025 | 0.03         | µg/L            | No         |
| Simazine                           | May 05/2025 | 0.01         | µg/L            | No         |

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|                                                                         |                             |      |      |    |
|-------------------------------------------------------------------------|-----------------------------|------|------|----|
| <b>THM</b><br>(NOTE: Annual average of 4 samples – Distribution system) | Feb 10/2025-<br>Nov 24/2025 | 63.0 | µg/L | No |
| <b>HAA</b><br>(NOTE: Annual average of 4 samples – Distribution system) | Feb 10/2025-<br>Nov 24/2025 | 50.0 | µg/L | No |
| <b>Terbufos</b>                                                         | May 05/2025                 | 0.01 | µg/L | No |
| <b>Tetrachloroethylene</b>                                              | May 05/2025                 | 0.35 | µg/L | No |
| <b>2,3,4,6 - Tetrachlorophenol</b>                                      | May 05/2025                 | 0.20 | µg/L | No |
| <b>Triallate</b>                                                        | May 05/2025                 | 0.01 | µg/L | No |
| <b>Trichloroethylene</b>                                                | May 05/2025                 | 0.44 | µg/L | No |
| <b>2,4,6,- Trichlorophenol</b>                                          | May 05/2025                 | 0.25 | µg/L | No |
| <b>Trifluralin</b>                                                      | May 05/2025                 | 0.02 | µg/L | No |
| <b>Vinyl Chloride</b>                                                   | May 05/2025                 | 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 |
|-----------|--------------|-----------------|----------------|
| THM       | 56           | µg/L            | May 05/2025    |
| THM       | 93           | µg/L            | Aug 11/2025    |
| THM       | 64           | µg/L            | Nov 24/2025    |
| HAA       | 53.3         | µg/L            | May 05/2025    |
| HAA       | 56.6         | µg/L            | Aug 11/2025    |
| HAA       | 61.5         | µg/L            | Nov 24/2025    |