

# SUMMARY REPORT 2019

## For the Town of Lakeshore Water Supply System

### Lakeshore Water Service Area

(Made under Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002)

#### **Explanation**

Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002 requires that a large municipal residential drinking-water system must provide to its board members a Summary Report on various aspects of the system before March 31 of the following year. The Lakeshore Water Service Area is classed as a large municipal residential drinking-water system and is therefore subject to Schedule 22.

The Summary Report must list the following:

- The requirements of the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- The requirements of the regulations made under the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- The drinking-water systems approval that the system failed to meet during the period covered by the Summary Report
- Any order that the system failed to meet during the period covered by the Summary Report, the duration of any such failure and any measures that were taken to correct such failure
- A summary of the quantities and flow rates of water supplied by the drinking-water system by monthly average and maximum daily flow rates and instantaneous peak flow rates
- A comparison of actual flow rates with rated capacity and flow rates in the systems approval
- Minutes of the Management Review meeting held by the Operating Authority

A drinking-water system that supplies water to a municipality must provide a copy of the Summary Report to the municipality by March 31 of the year following the year covered in the Summary Report.

**Failure to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders**

The table below lists the occasions on which the Lakeshore Water Service Area failed to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders in 2019.

There were **no** occasions in 2019 when the Lakeshore Water Service Area was not in compliance with the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders.

**Lakeshore Water Service Area**

| <b>Drinking Water Legislation</b>                             | <b>List the requirement(s) the system failed to meet</b> | <b>Specify the duration of the failure (i.e. date(s))</b> | <b>Describe the measures taken to correct the failure</b> | <b>Status (complete or outstanding)</b> |
|---|--|---|---|---|
| Safe Drinking Water Act                                       | <b>None</b>  |   |   |   |
| Ontario Regulations   | <b>None</b>  |   |   |   |
| System Certificate of Approval or Drinking Water Works Permit | <b>None</b>  |   |   |   |
| Provincial Officer's Order                                    | <b>None</b>  |   |   |   |

**A Summary of the Quantities and Flow Rates of Water Supplied During the Period Covered by The Report, Including Monthly Average and Maximum Daily Flows, and Daily Instantaneous Peak Flow Rates**

The Lakeshore Water Service Area operated under the following listed Permits to Take Water:

(PTTW) Number 3648-B3EQWX issued on July 25, 2018 has the following flow conditions:

- Maximum Allowable Amount Taken per Minute (Litres/Min) **34,722**
- Maximum Allowable Amount Taken Per Day (Litres/Day) **30,000,000**

**The maximum amounts of raw water taken during 2019 (see Table 1 below) are as follows:**

- Maximum Amount Taken per Minute in 2019 (Litres/Min) **22,326 (July 4, 2019)**

- Maximum Amount Taken Per Day in 2019 (Litres/Day) **17,229,000 (July 15, 2019)**

**The system did not exceed the PTTW limits in 2019.**

The Lakeshore Water Service Area operated under Drinking Water Works Permit #031-201 and Municipal Drinking Water Licence #031-101 during 2019:

The DWWL has the following flow conditions:

- The maximum daily volume of treated water that flows from the treatment subsystem to the distribution subsystem shall not exceed **36,400 m<sup>3</sup>/day**.
- The maximum daily volume of water pumped into the distribution system in 2019 was **15, 969 m<sup>3</sup>/day**

The following tables (Table 1 & Table 2) give the monthly average, maximum and peak flows for the Lakeshore Water Service Area.

**Table 1: Raw Flow Data (flow into the treatment system) in 2019**

| Month     | Maximum Allowed Flow Rate (m <sup>3</sup> /Day) | Average Flow (m <sup>3</sup> /Day) | Maximum Flow (m <sup>3</sup> /Day) | Maximum Allowed Flow Rate (Litres/minute) | Peak Flow (Litres/Minute) |
|-----------|---|------------------------------------|------------------------------------|---|---------------------------|
| January   | 30,000  | 8,566                              | 9,285                              | 34,722                                    | 15,438                    |
| February  | 30,000  | 8,896                              | 9,953                              | 34,722                                    | 16,026                    |
| March     | 30,000  | 8,363                              | 9,335                              | 34,722                                    | 15,840                    |
| April     | 30,000  | 7,930                              | 8,587                              | 34,722                                    | 15,288                    |
| May       | 30,000  | 8,868                              | 10,415                             | 34,722                                    | 11,262                    |
| June      | 30,000  | 10,189                             | 13,341                             | 34,722                                    | 17,118                    |
| July      | 30,000  | 13,374                             | 17,279                             | 34,722                                    | 22,326                    |
| August    | 30,000  | 13,035                             | 16,241                             | 34,722                                    | 18,162                    |
| September | 30,000  | 10,179                             | 11,552                             | 34,722                                    | 22,272                    |
| October   | 30,000  | 8,098                              | 9,077                              | 34,722                                    | 15,786                    |
| November  | 30,000  | 7,845                              | 12,820                             | 34,722                                    | 15,816                    |
| December  | 30,000  | 7,566                              | 8,100                              | 34,722                                    | 9,210                     |

**Table 2: Treated Flow Data (flow into the distribution system) in 2019**

| Month     | Maximum Allowed Flow Rate (m <sup>3</sup> /Day) | Average Daily Flow (m <sup>3</sup> /Day) | Maximum Daily Flow (m <sup>3</sup> /Day) | Peak Flow (Litres/Minute) |
|-----------|---|--|--|---------------------------|
| January   | 36,400  | 8,460                                    | 9,143                                    | 11,711                    |
| February  | 36,400  | 8,773                                    | 9,703                                    | 11,790                    |
| March     | 36,400  | 8,272                                    | 9,139                                    | 19,463                    |
| April     | 36,400  | 7,877                                    | 8,361                                    | 11,678                    |
| May       | 36,400  | 8,770                                    | 10,573                                   | 11,678                    |
| June      | 36,400  | 9,995                                    | 13,321                                   | 11,835                    |
| July      | 36,400  | 12,983                                   | 15,969                                   | 24,503                    |
| August    | 36,400  | 12,655                                   | 15,201                                   | 11,869                    |
| September | 36,400  | 10,009                                   | 11,634                                   | 11,678                    |
| October   | 36,400  | 8,015                                    | 8,932                                    | 11,576                    |
| November  | 36,400  | 7,775                                    | 11,007                                   | 12,195                    |
| December  | 36,400  | 7,536                                    | 8,081                                    | 11,633                    |

**A Summary of 2019 Management Review Meeting Minutes as held by the Operating Authority**