

THE CORPORATION OF THE TOWN OF GEORGINA

REPORT NO. OI-2021-0004

FOR THE CONSIDERATION OF  
COUNCIL

FEBRUARY 24, 2021

SUBJECT: ANNUAL DRINKING WATER SYSTEM SUMMARY REPORTS FOR THE TOWN OF GEORGINA DRINKING WATER SYSTEM & ANNUAL MANAGEMENT REVIEW OF THE TOWN DRINKING WATER SYSTEM

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1. **RECOMMENDATION:**

1. That Council receive Report No. OI-2021-0004 prepared by the Operations and Infrastructure Department dated February 24, 2021, including the following attached reports;
  - i) Annual Water Quality Summary Report for the Keswick-Sutton Water Distribution System as required by *Section 11 of Regulation 170/03*, under the *Safe Drinking Water Act* (Attachment 1);
  - ii) Annual Summary Report for Municipal Council as required by *Schedule 22 of Regulation 170/03*, under the *Safe Drinking Water Act* (Attachment 2);
  - iii) Annual Management Review Report as required by *Element 20 of the Drinking Water Quality Management Standard* (Attachment 3).

2. **PURPOSE:**

The purpose of this report is to present to Council three reports as mandated by the *Safe Drinking Water Act (SDWA)*, its Regulations and the Town of Georgina Operational Plan for the Keswick-Sutton Water Distribution System.

3. **BACKGROUND:**

3.1 Standard of Care for Municipal Officials

**Section 19; Standard of Care – Municipal Drinking Water System**, under the *SDWA*, requires those with oversight and decision making authority for Municipal drinking water systems (Council and Top Management) to apply a ‘Statutory Standard of Care’ to their oversight of the Drinking Water System. Under the *SDWA*, it is Council’s responsibility to:

- “exercise the level of care, diligence and skill in respect of a municipal drinking water system that a reasonably prudent person would be expected to exercise in a similar situation”, and to
- “act honestly, competently and with integrity, with a view to ensuring the protection and safety of the users of the municipal drinking water system”.

The reports provided as attachments support Council, and Top Management, as the decision makers of the drinking water system to understand the performance of the drinking water system and to help them exercise a necessary due diligence in the process of delivering reliable, clean, and safe drinking water to the public.

### **3.2 Keswick-Sutton Drinking Water Subsystem**

Within the Regional Municipality of York, the Region owns and operates water treatment, transmission and storage facilities; and the local municipalities own and operate the water distribution systems and deliver the water to the end user.

The Region owns and operates the Keswick Water Treatment Plant and the Georgina Water Treatment Plant. These water treatment facilities obtain raw water from Lake Simcoe. In addition, the Region also owns and operates the four (4) water storage towers.

The Town of Georgina owns and operates the local water distribution system. This system is comprised of two pumping stations, watermains, service connections (up to the property line), ancillary valves, hydrants, meters and connected appurtenances.

The Region also follows the requirements of the *SDWA* and its Regulations by preparing separate Summary Reports for Regional Council. The reports related to the Georgina system can be found on the Region’s Website. [Drinking Water Quality and Monitoring | York Region](#).

#### **3.2.1 Annual Water Quality Summary Report**

**Section 11 - Annual Water Quality Summary Reports under O.Reg 170/03** of the *SDWA*, requires that the Owner of a Drinking Water System prepare a Drinking Water Quality Report, which includes information related to the quality of drinking water and covers the period from January 1 to December 31 of the previous year. The report must be made available to the public no later than February 28 of the following year.

The Summary Report per Section 11 has been prepared and posted to the Town’s website (Attachment #1), at the following Town’s [Drinking Water Reports webpage](#).

### **3.2.2 Annual Summary Report for Municipal Council**

**Schedule 22 - Annual Summary Report for Municipal Council under O.Reg 170/03** of the *SDWA* requires that the Owner of the drinking water system prepare an Annual Summary Report for Municipal Council. The objective of this report is to ensure that the members of Council regularly review compliance with the terms and conditions of the drinking water system's Approvals, Licences, Permits, and with the requirements of the *SDWA* and its Regulations. This report must also include a summary of any orders applicable to the drinking water system that were not met at any time during the period covered within the report. The summary report for Municipalities must be prepared and presented to Municipal Council no later than March 31 of each year.

This Summary Report per Schedule 22 has been prepared and is attached (Attachment #2)

### **3.2.3 Annual Management Review Report**

**Section 13 of the SDWA** requires that the Owner of a Municipal drinking water system ensure that an accredited Operating Authority is in charge of the system at all times. To become an Accredited Operating Authority a Municipality must prepare an Operational Plan in conformance with the Drinking Water Quality Management Standard (DWQMS). *Element 20 – Management Review*, of the DWQMS requires Top Management of the Operating Authority to:

- Review the drinking water system performance at least once per calendar year to evaluate the continuing suitability, adequacy, and effectiveness of the *Quality Management System (QMS)*.
- Consider the results of the management review and identify deficiencies and actions items to address the deficiencies,
- Provide a record of any decisions and action items related to the management review including the personnel responsible for delivering the action items and the proposed timelines for their implementation, and
- Report the results of the management review, the identified deficiencies, decisions and action items to the Owner.

The Minutes of the Top Management Review Meeting for the 2020 calendar year are provided. (Attachment #3)

## **ANALYSIS:**

### **4.1 MECP Inspection**

The *Compliance and Enforcement Regulation (O. Reg. 242/05)* of the *SDWA* requires the MECP to carry out a number of specific activities such as taking mandatory actions and conducting inspections of municipal residential drinking water systems.

The Ministry of Environment, Conservation and Parks (MECP) performed an inspection of the Town of Georgina drinking water distribution system on November 4, 2019. The MECP Inspector performed an off-site desktop audit, and an on-site inspection of processes, operations manuals, standard operating procedures, logbooks, operator certification and training credentials, water quality, water quality monitoring processes, reporting procedures, and corrective actions. Resulting from the Inspection, the Town was provided with zero (0) non-conformities, and one (1) Best Management Practice (BMP).

The Town received an inspection rating of 100%. This score indicates the lowest possible risk rank and highest possible inspection rating for drinking water systems. The inspection rank indicates that there were no instances of non-compliance with the requirements of the Safe Drinking Water Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system.

Due to the unforeseen and unprecedented circumstances brought about by COVID-19 restrictions and limitations, the MECP provided information to the Town of Georgina Environmental Services Division that Inspectors will not be completing the annual inspection of the Drinking Water Distribution System in the 2020 Calendar Year. The 2020 inspection will instead be completed as soon as feasible in the 2021 calendar year, however, will still only cover the Operation of the system through the 2020 calendar year.

## 4.2 Water Quality

### Top Requested Water Quality Parameters

<b>Chlorine</b>	<b>Lead</b>	<b>Sodium*</b>	<b>Fluoride*</b>
Range 0.00 – 2.14 mg/L	Range <0.0005 mg/L – 0.0009 mg/L	33.2 mg/L	0.56 mg/L
		*Data provided by York Region	*Data provided by York Region

Water Quality in the Keswick – Sutton drinking water distribution system remains excellent.

During 2019 and 2020 there was considerable public interest in the amount of Lead (Pb) found in samples of drinking water taken in schools. The Town is currently only required to test for Lead (Pb) in the distribution system, not in private plumbing. The Regulatory Limit for Lead (Pb) is 0.010 mg/L. All test for Lead sample results in the distribution system since 2007 (previous 14 years) are significantly below the regulatory limit, as such, the drinking water quality remains excellent.

**4. RELATIONSHIP TO STRATEGIC PLAN:**

**Priority 4: Deliver exceptional Service**

The Town of Georgina continues to provide safe drinking water to its residential and commercial customers while striving to optimize the stability and costs associated with operating and maintaining the drinking water distribution system.

**5. FINANCIAL AND BUDGETARY IMPACT:**

There is no financial or budgetary impact resulting from this report.

**6. PUBLIC CONSULTATION AND NOTICE REQUIREMENTS:**

The ***Annual Water Quality Summary Report for MECP*** must be made available to the public via the Town's web site or the Office of Clerk on or before February 28, 2021. The ***Annual Water Summary Report for Municipal Officials*** must be prepared and delivered to Council no later than March 31, 2020. Notice to the public will be published on the Town Page of the Georgina Advocate.

**Prepared by:**

**Reviewed by:**

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*Talal Latif*  
*DWQMS Compliance Officer / QMS Rep.*

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*Edgar Tovilla, P.Eng.*  
*Manager of Environmental Services*

**Recommended by:**

**Approved by:**

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*Rob Flindall, P.Eng.*  
*Director of Operations & Infrastructure*

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*Dave Reddon*  
*Chief Administrative Officer (CAO)*

*Attachment 1: 2020 Annual Water Quality Summary Report For MECP*  
*Attachment 2: 2020 Annual Water Quality Summary Report For Municipal Officials*  
*Attachment 3: DWQMS Element 20 - 2020 Management Review Summary*