



GEORGINA

Town of Georgina

2023 Annual Water Quality Summary Report

Regulatory Reporting for Municipal Drinking Water Systems

Drinking-Water System Number:	260062686
Drinking-Water System Name:	Keswick-Sutton Distribution System
Drinking-Water System Owner:	Town of Georgina
Drinking-Water System Category:	Large Municipal Residential Distribution
Period being reported:	January 1, 2023 - December 31, 2023

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

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

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

- Web Site: www.georgina.ca
- Civic Centre, 26557 Civic Centre Road. Ground Floor.
- Water and Wastewater Operations Centre, 26817 Civic Centre Road.
- Library, Keswick Branch, 90 Wexford Drive. Main Desk

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

2. 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

3. 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 Public Request
- Public access/notice via a Public Library

4. Describe your Drinking-Water System

The Keswick-Sutton Distribution System (The System) is owned and operated by the Corporation of the Town of Georgina (The Town) and serves a population of approximately 39,527. The Town is responsible for operating and maintaining watermains, valves, two booster pumping stations, hydrants, meters, and service connections.

5. List all water treatment chemicals used over this reporting period

The System receives treated surface water from the Georgina and Keswick Water Treatment Plants (WTP). The Georgina WTP is a surface water plant which uses membrane microfiltration technology, UV and chlorine disinfection. The Keswick WTP is a surface water plant which uses chemically assisted filtration and chlorine disinfection. The Keswick WTP and the Georgina WTP are operated and maintained by the Regional Municipality of York (The Region) and are inspected separately from the Keswick-Sutton Distribution System.

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

- Repair and Maintenance of the distribution System: \$1,225,496
- Replacement of Water Mains/Services: \$3,045,924.47 (Capital Replacements Projects)

7. 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
2023/07/28	Total Coliforms	P	PA	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. E7 Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards.	2023/08/02
2023/09/21	High Sodium Content	36	MG/L	Flushed, re-sample. Update Website.	2023/09/27
2023/09/21	High Sodium Content	34	MG/L	Flushed, re-sample. Update Website.	2023/09/27
2023/09/21	High Sodium Content	35	MG/L	Flushed, re-sample. Update Website.	2023/09/27
2023/09/21	High Sodium Content	36	MG/L	Flushed, re-sample. Update Website.	2023/09/27

- * - Multiple samples were collected to fulfill requirements of corrective action
- P – present
- P/A – presence/absence
- CFU – colony forming unit
- MG/L – milligrams per liter

8. 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		N/A	N/A	N/A	N/A
Treated		N/A	N/A	N/A	N/A
Distribution	721	Absent	Absent	210	0 - 170

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 #)	Unit of Measure
Turbidity	N/A	N/A	N/A
Chlorine	5531	0.05 - 1.93	MG/L
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

10. 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 #)	Unit of Measure	Number of Exceedances
Plumbing	N/A	N/A	N/A	N/A
Distribution	6	<0.005 – 0.0028	MG/L	0

11. Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of approval.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	February 1, 2023; May 1, 2023; August 2, 2023, November 1, 2023	59.39	UG/L	0
HAA (NOTE: show latest annual average)	February 1, 2023; May 1, 2023; August 2, 2023, November 1, 2023	39.25	UG/L	0
Sodium	September 21, 2023	36	MG/L	4
		34		
		35		
		36		
	September 25, 2023	35	MG/L	4
		35		
		36.3		
		35.1		

12. Summary of Inorganic (Schedule 23 of O. Reg. 170/03) parameters tested during this reporting period or the most recent sample results.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	*Refer to Regional Municipality of York Annual Report O. Reg. 170/03 requires these parameters to be tested at the point where water enters the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.			
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				

13. Summary of Organic (Schedule 24 of O. Reg. 170/03) parameters sampled during this reporting period or the most recent sample results.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				*Refer to Regional Municipality of York Annual Report O. Reg. 170/03 requires these parameters to be tested at the point where water enters the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: see table below)				
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				

Triallate	
Trichloroethylene	
2,4,6-Trichlorophenol	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	
Trifluralin	
Vinyl Chloride	

14. Organic and inorganic parameter(s) that exceeded half the standard prescribed in Schedule 2 of O. Reg. 169/03 Ontario Drinking Water Quality Standards

Test	Date of Samples	Running Annual Average (µg/L)	Value exceeded over half of the regulatory standard
Trihalomethanes (THMs) <i>(ODWS Standard 100 µg/L)</i>	February 1, 2023	54.80	Yes
	May 1, 2023	57.45	
	August 2, 2023	60.43	
	November 1, 2023	59.39	