



## TOWN OF GEORGINA

26657 Civic Centre Rd., R.R.#2, Keswick, Ontario L4P 3G1

### **SAFE DRINKING WATER ACT 2013 ANNUAL REPORT**

Regulations passed under the *Safe Drinking Water Act* require owners of municipal water systems to publish annual reports describing the operation of the water system and the results of testing required to ensure that residents are provided with safe drinking water. This report covers the period from January 1<sup>st</sup> to December 31<sup>st</sup>, 2013.

Effective December 31, 2012, Section 19 of the *Safe Drinking Water Act* requires specific legal responsibility for decision-makers with authority over the Town's municipal drinking water system. Those with oversight responsibility including Municipal Councillors, Mayors and Municipal Officials are legally responsible.

Georgina is a part of a two-tier system where the upper tier (Regional Municipality of York) provides treatment of the potable water, storage and wastewater disposal.

The source of supply for the Keswick-Sutton system is Lake Simcoe. The Region of York owns and operates a water treatment plant at Clarlyn Drive and Metro Road and another plant on Kennedy Road in Willow Beach. Water is taken from Lake Simcoe at each plant and undergoes a complete treatment process consisting of screening, filtration, taste and odor control, disinfection and fluoridation before being supplied to the water distribution system. The Region carries out extensive testing at each plant and residents may wish to obtain a copy of the annual report for these plants by contacting the Region at 905-895-1200, extension 3000, accessing their web site at <http://www.york.ca/> or obtaining a copy at the Operations Centre of Town of Georgina located at 3182 Baseline Road, Sutton, Ontario. The York Region reports describe the treatment process in more detail and the chemicals used in the process. The Region also owns and operates four water storage tanks located on Westpark Heights, Woodbine Avenue just north of Old Homestead Road, one at Deer Park Drive in Keswick and a fourth tank on Dalton Road in Sutton.

The Town of Georgina owns and operates the water distribution system that receives water from the Region of York treatment plants. The Town is responsible for operating and maintaining the watermains, valves, booster pumping stations, hydrants, meters and service connections that comprise the distribution system. The Town does not add chemicals to the water flowing through the distribution systems.

Licensed Town Operators take water samples from various premises serviced by the Keswick- Sutton system every week. Each sample is delivered to the York-Durham Laboratory in Pickering to test for the presence of bacteria. This certified laboratory is owned jointly by the Regions of York and Durham and is staffed by employees of the Region of Durham.

### **Microbiology Testing from January 1 to December 31, 2013**

A total of six hundred and seventy-three (673) samples from the Keswick-Sutton distribution system were analyzed for the presence of coliform bacteria between January 1<sup>st</sup> and December 31<sup>st</sup>, 2013. All samples tested negative for the presence of coliforms (bacteria) and ecoli.

Two hundred and eighty-eight (288) samples were analyzed by using the heterotrophic plate count method to check for background colonies within the water which determines the quality of water in terms of bacterial content. This test is used as a supplement to the routine analysis for coliform bacteria.

Results from two hundred and thirty-three (233) heterotrophic plate count (HPC) samples showed readings of less than one. Fifty-four (54) HPC samples showed low readings from 1 to 8 units and one (1) sample showed a reading of 100, all well within the maximum allowable HPC count of 500 units.

### **Chlorine Residual**

The Town is also required to monitor chlorine residual concentrations to ensure that bacteria does not develop within the systems. Four thousand eight hundred and sixty-nine (4869) samples were analyzed. All samples had sufficient chlorine residual levels.

### **Lead Testing**

In 2013 the The Town was exempt from lead sampling within the plumbing system but must continue to sample within the distribution system. The table below sets out our sampling requirements.

<b>YEAR</b>	<b>1<sup>st</sup> Round</b>	<b>Date of Sampling</b>	<b>2<sup>nd</sup> Round</b>	<b>Date of Sampling</b>	<b># of Samples</b>	<b>Sampling Requirements</b>
1	Dec 15/12 to Apr 15/13	March 13, 2013	Jun 15/13 to Oct 5/13	September 11, 2013	4	Alkalinity and pH
2	Dec 15/13 to Apr 15/14	March 2014	Jun 15/14 to Oct 5/14	September 2014	4	Alkalinity and pH
3	Dec 15/14 to Apr 15/15	March 2015	Jun 5/15 to Oct 5/15	September 2015	4	Alkalinity, pH and Lead

After three consecutive years of sampling as set out above, the three year cycling begins again unless otherwise notified by the Director of the Ministry of the Environment.

A total of 8 distribution samples were taken in 2013 within our distribution system. No exceedances occurred. The range of these samples was 102mg/l to 125mg/l. The maximum allowable unit for alkalinity is 500mg/l.

### **Other Testing**

Twelve (12) samples were tested for trihalomethanes in the Keswick and the Sutton areas with the average levels being 71.6ug/L and 63.1ug/L respectively compared to a maximum allowable of 100ug/L.

Detailed lab reports are available for review at the Operations Centre located at 3182 Baseline Road.

The *Safe Drinking Water Act* requires that a Summary Report listing the requirements of the Act, the Regulations, the system's approval and any order that the system failed to meet at any time during 2013 be given to the members of Municipal Council prior to March 31, 2014. This report will be submitted as required and will be available in the Office of the Clerk on April 1, 2014.

### **Private Wells**

Residents that obtain water from private wells are encouraged to take samples periodically to determine if their water is safe to drink. Sample bottles may be obtained at the Civic Centre and returned to the same location for testing by the Ministry of Health laboratory at no cost.

### **Further Information**

If you have any questions or concerns with respect to this Report, please contact Dan Pisani, P.Eng., Director of Operations and Engineering 905-722-6889 extension 3530.

DATED: February 19, 2014