

Drinking-Water Systems Regulation O. Reg. 170/03
ANNUAL WATER QUALITY SUMMARY REPORT FOR MECP

Drinking-Water System Number:	260062686
Drinking-Water System Name:	Keswick-Sutton Distribution System
Drinking-Water System Owner:	The Corporation of the Town of Georgina
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2018 to December 31, 2018

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [x] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Office of the Clerk Town of Georgina 26557 Civic Centre Road Keswick, Ontario L4P 3G1 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; margin: 5px 0;">N/A</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No [] N/A [x]</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; margin: 5px 0;">N/A</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No [] N/A [x]</p>
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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 of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
None	

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 [] N/A [x]

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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

This distribution system receives its water supply from the Keswick and Georgina Water Treatment Plants, owned by York Region. As of December 31, 2018, the distribution system serves a population of approximately 38,454 customers or approximately 13,193 water accounts.

List all water treatment chemicals used over this reporting period

None

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

None

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
Jan. 15, 2018	TC (Total Coliform)	P	P/A	Resample, flush, & spot-check chlorine residuals in accordance with O.Reg. 170/03	Jan 17, 2018

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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					
Treated					
Distribution	737	Range: (Absent)	Range: <1 - 1 (Present)	210	Range: 0 – 260

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			
Chlorine	4743	0.06 – 2.02	mg/L
Fluoride (If the DWS provides fluoridation)			

***NOTE:** For continuous monitors use 8760 as the number of samples.*

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

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				
Arsenic				
Barium				
Boron				
Cadmium				

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Chromium				
*Lead	See attached MOE Report Lead, Alkalinity, pH Results 2018.pdf			
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential 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 #)	Unit of Measure	Number of Exceedances
Plumbing	N/A			
Distribution	8 (4 – Keswick) (4 – Sutton) See attached MOE Report Lead, Alkalinity, pH Results 2018.pdf	<0.0005 – 0.0030	mg/L	N/A

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				

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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				

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THM (NOTE: show latest annual average) Keswick/Sutton Distribution System Latest annual average as of December 3, 2018 is 58.18 ug/L.	Jan 3/18	55.79	ug/L	NO
	Feb 5/18	55.66	ug/L	NO
	Mar 5/18	55.51	ug/L	NO
	Apr 4/18	55.09	ug/L	NO
	May 2/18	54.09	ug/L	NO
	June 4/18	53.53	ug/L	NO
	July 4/18	54.16	ug/L	NO
	Aug 1/18	55.25	ug/L	NO
	Sept 5/18	56.70	ug/L	NO
	Oct 1/18	58.42	ug/L	NO
	Nov 5/18	58.18	ug/L	NO
Dec 3/18	58.18	ug/L	NO	
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				

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
See attached - MOE Report THM Results 2018.pdf			



GEORGINA

CORPORATION OF THE TOWN OF GEROGINA
DISTRIBUTION SYSTEM LEAD, ALKALINITY AND pH TESTING (3rd YEAR RESULTS)
KESWICK & SUTTON WATER DISTRIBUTION SYSTEM DWS#260062686

SAMPLE NO.	SAMPLE TYPE	DATE SAMPLED	SAMPLING LOCATION	911 STREET ADDRESS	SAMPLE TYPE	Re-Sample?	LEAD RESULTS mg/L	ALKALINITY RESULT mg/L	pH RESULT	AWQI #	CORRECTIVE ACTION	CORRECTIVE ACTION	ADDITIONAL COMMENTS	TOTAL DISTRIBUTION SAMPLES
1	Distribution	07-Mar-18	PS # 11	2 Burke Street	Lead, Alkalinity, pH	N/A	0.0005	113	7.09					1
2	Distribution	07-Mar-18	PS # 12	45 Lorne Street	Lead, Alkalinity, pH	N/A	0.0009	112	7.84					1
3	Distribution	07-Mar-18	PS # 1	104 Lake Drive N	Lead, Alkalinity, pH	N/A	0.0005	111	7.67					1
4	Distribution	07-Mar-18	PS # 7	517 Lake Drive S	Lead, Alkalinity, pH	N/A	<0.0005	113	6.74					1
1	Distribution	19-Sep-18	PS # 2	52 Metropolitan Crescent	Lead, Alkalinity, pH	Y	0.0027	96	6.72				First set of samples were taken using improper techniques. Values showed false positives for lead. Re-samples taken at all sites using proper sampling techniques. MECP inspectors are informed, and ToG is notified by MECP to use re-sample values as final results. [AWQI# for lead false positive 142612]	1
2	Distribution	19-Sep-18	PS # 12	45 Lorne Street	Lead, Alkalinity, pH	Y	0.0030	106	6.80					1
3	Distribution	19-Sep-18	Tap	36 High Street	Lead, Alkalinity, pH	Y	<0.0005	106	6.92					1
4	Distribution	19-Sep-18	Blow-Off	5 Bruce Avenue	Lead, Alkalinity, pH	Y	0.0008	110	6.65					1



CORPORATION OF THE TOWN OF GERGINA
THM RESULTS
RUNNING ANNUAL AVERAGE - KESWICK & SUTTON WATER DISTRIBUTION SYSTEM DWS#260062686

Sample Date	Area	YD #	Lab Report #	Bromodichloromethane	Bromoform	Chloroform	Dibromochloromethane	THM's Total	Annual Running Average ug/L
				ug/L	ug/L	ug/L	ug/L	ug/L	
January 3, 2018	Keswick	281865	16078	12.3	0.2	33.6	3.3	49.3	45.30
January 3, 2018	Sutton	281865	16078	10.9	0.2	27.3	3	41.3	
February 5, 2018	Keswick	281875	17358	12.2	0.2	35.8	3.3	51.3	46.48
February 5, 2018	Sutton	281875	17358	12.6	0.2	27.8	3.5	44	
March 5, 2018	Keswick	281735	18369	13.6	0.2	35.7	3.5	52.9	46.92
March 5, 2018	Sutton	281735	18369	12.6	0.2	26.6	3.4	42.7	
April 4, 2018	Keswick	281749	19601	15	0.2	40.8	3.5	59.4	48.95
April 4, 2018	Sutton	281749	19601	14.6	0.2	32.4	3.7	50.7	
May 2, 2018	Keswick	281759	20891	13.8	0.2	38.8	3.2	55.8	49.34
May 2, 2018	Sutton	281759	20891	12.7	0.2	30.2	3.1	46	
June 4, 2018	Keswick	281771	22284	15.2	0.2	46.6	3.6	65.5	50.71
June 4, 2018	Sutton	281771	22284	12.5	0.2	33.8	3.2	49.6	
July 4, 2018	Keswick	281884	23971	15.7	0.2	51.3	3.9	71	52.25
July 4, 2018	Sutton	281884	23971	13.2	0.02	35.1	3.5	52	
August 1, 2018	Keswick	281893	25620	16.2	0.2	63.4	3.8	83.4	54.63
August 1, 2018	Sutton	281893	25620	14.6	0.2	40.9	3.6	59.1	
September 5, 2018	Keswick	281907	27441	19.2	0.2	66.8	4.7	90.7	57.01
September 5, 2018	Sutton	281907	27441	15.5	0.2	41.9	4.1	61.4	
October 1, 2018	Keswick	281927	28937	18.8	0.2	69.2	4.9	93	59.50
October 1, 2018	Sutton	281927	28937	17	0.2	49	4.6	70.8	
November 5, 2018	Keswick	281938	30824	13.5	0.2	44.2	3.6	61.3	59.20
November 5, 2018	Sutton	281938	30824	13.1	0.2	34	3.9	51.2	
December 3, 2018	Keswick	309387	32011	11.6	0.2	37.18	2.8	52.2	58.18
December 3, 2018	Sutton	309387	32011	10.6	0.2	28.5	2.8	41.8	