



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260003227
Drinking-Water System Name:	Aurora Water Distribution System
Drinking-Water System Owner:	The Corporation of The Town of Aurora
Drinking-Water System Category:	Large Municipal Residential System
Period being reported:	January 1, 2018 to December 31, 2018

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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;"> <p>The Town of Aurora 100 John West Way, Box 1000 Aurora Ontario L4G 6J1</p> <p>www.aurora.ca</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px;">Not Applicable</div></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; padding: 2px;">Not Applicable</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
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This annual report is available to the public at no charge on Town of Aurora’s web site and upon request.

A copy of Town of Aurora’s annual report was provided to York Region Drinking Water System owner from which the drinking water is obtained.

**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

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 [ ] Not Applicable [x]

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**

The Town of Aurora's water supply is a blended combination of ground water and surface water. York Region is the wholesale supplier of water to The Town of Aurora. York Region is responsible for the water supply, production, treatment, storage and trunk distribution.

In regards to the ground water, York Region operates six production wells in Aurora, which range in depth from 98 to 104 meters. In respect to the surface water portion of the supply, the Town currently receives Lake Ontario surface water from two supply sources, the City of Toronto supply and the Region of Peel feed.

The Town owns and operates the distribution network, which includes the watermain piping, booster station, fire hydrants, bulk water filling station, service connections and meters. Aurora's distribution network, which provides water to the consumer, is divided into six pressure districts with pressures varying between 40-100 psi.

The Town's system is comprised of approximately 233 kilometers of watermain, located typically on local roads. The watermain pipe materials consist of ductile iron (55%), cast iron (5%), and PVC (40%).

**List all water treatment chemicals used over this reporting period**

Not applicable; Treatment chemicals are introduced at various sources by the City of Toronto, Peel Region and York Region only.

**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

Watermain repairs	= \$ 627,545
Hydrant maintenance	= \$ 46,056
Water Booster Station maintenance	= \$ 19,550
Water Box repairs	= \$ 46,267
Emergency repairs	= \$ 50,570

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
June 25, 2018 (AWQI # 140058)	Total coliforms	P	P/A	Flush main and resample	June 26, 2018
June 25, 2018 (AWQI # 140060)	Total coliforms	P	P/A	Flush main and resample	June 26, 2018
July 30, 2018 (AWQI # 141235)	Total coliforms	P	P/A	Flush main and resample	July 31, 2018
Aug 7, 2018 (AWQI # 141453)	Total coliforms	P	P/A	Flush main and resample	Aug 8, 2018
Aug 8, 2018 (AWQI # 141547)	Total coliforms	P	P/A	Flush main and resample	Aug 10, 2018 Aug 13, 2018
Sept 10, 2018 (AWQI # 142695)	Total coliforms	P	P/A	Flush main and resample	Sept 11, 2018
sept 17, 2018 (AWQI # 142900)	Total coliforms	P	P/A	Flush main and resample	Sept 18, 2018
Sept 17, 2018 (AWQI # 142912)	Total coliforms	P	P/A	Flush main and resample	Sept 18, 2018
Oct 1, 2018 (AWQI # 143337)	Total coliforms	P	P/A	Flush main and resample	Oct 3, 2018
Oct 3, 2018 (AWQI # 143377)	Total coliforms	P	P/A	Flush main and resample	Oct 4, 2018
Dec 10, 2018 (AWQI # 144291)	Total coliforms	P	P/A	Flush main and resample	Dec 11, 2018

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)
<b>Raw</b>					
<b>Treated</b>					
<b>Distribution</b>	929	0-P	0-P	450	0-220



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
<b>Turbidity</b>			
<b>Chlorine</b>	1173	F: 0.00-0.20 T: 0.60-3.5	mg/L
<b>Fluoride</b> (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
Not Applicable				

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>				
<b>Arsenic</b>				
<b>Barium</b>				
<b>Boron</b>				
<b>Cadmium</b>				
<b>Chromium</b>				
<b>*Lead</b>				
<b>Mercury</b>				
<b>Selenium</b>				
<b>Sodium</b>				
<b>Uranium</b>				
<b>Fluoride</b>				
<b>Nitrite</b>	Oct 15, 2018	<0.05	mg/L	No
<b>Nitrate</b>	Oct 15, 2018	<0.5	mg/L	No

\*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	0	NA	mg/L	0
Distribution	16	<0.0005	mg/L	0

**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				
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				



<b>Glyphosate</b>				
HAA (annual average)	Oct 15, 2018	<0.020	mg/L	No
<b>Heptachlor + Heptachlor Epoxide</b>				
<b>Lindane (Total)</b>				
<b>Malathion</b>				
<b>Methoxychlor</b>				
<b>Metolachlor</b>				
<b>Metribuzin</b>				
<b>Monochlorobenzene</b>				
<b>Paraquat</b>				
<b>Parathion</b>				
<b>Pentachlorophenol</b>				
<b>Phorate</b>				
<b>Picloram</b>				
<b>Polychlorinated Biphenyls(PCB)</b>				
<b>Prometryne</b>				
<b>Simazine</b>				
THM (NOTE: show latest annual average)	Oct 15, 2018	0.022	mg/L	No
<b>Temephos</b>				
<b>Terbufos</b>				
<b>Tetrachloroethylene</b>				
<b>2,3,4,6-Tetrachlorophenol</b>				
<b>Triallate</b>				
<b>Trichloroethylene</b>				
<b>2,4,6-Trichlorophenol</b>				
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>				
<b>Trifluralin</b>				
<b>Vinyl Chloride</b>				

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