

**Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03**

***MODIFIED* OPTIONAL ANNUAL REPORT TEMPLATE**

Drinking-Water System Number: 260003227
Drinking-Water System Name: **Aurora Drinking 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, 2022 to December 31, 2022

Town of Aurora's drinking water system is registered as Large Municipal Residential Systems

The Aurora Drinking Water System serves more than 10,000 people.

This annual report is available to the public at no charge on the Town's web site and upon request.

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

The Corporation of the Town of Aurora
100 John West Way, Box 1000
Aurora Ontario L4G 6J1

www.aurora.ca

List all Drinking Water Systems which receive their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|-----------------------------------|-------------------------------------|
| | |
| | |

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.

System users were notified that Town of Aurora's annual report is available free of charge by public access and notice through:

- Town's website
- Municipal Government Office
- Public Request at any time

Town of Aurora Drinking Water Distribution System

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Description of the Aurora Drinking Water Distribution 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 seven 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 five pressure districts with pressures varying between 40-100 psi.

The Town's system is comprised of approximately 250 kilometers of watermain, located typically on local roads. The watermain pipe materials consist of ductile iron (48%), cast iron (5%), and PVC (45%).

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

Brief description and breakdown of monetary expenses incurred

| | |
|-----------------------------------|--------------|
| Hydrant maintenance | = \$36,250 |
| Valves exercised | = 472 |
| Water Booster Station maintenance | = \$ 24,550 |
| Waterbox repairs | = \$37,880 |
| Emergency repairs | = \$ 300,000 |

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

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| Incident Date and Location | Parameter | Result | Unit of Measure | Corrective Action and Result | Corrective Action Date |
|------------------------------------|------------------|---------------|------------------------|-------------------------------------|-----------------------------------|
| March 28, 2022 (AWQI # 158092) | Sodium | 21.5 | mg/L | Flush main and resample | Resampling on April 1, 2022 |
| June 13, 2022 (AWQI # 158687) | Total Coliforms | P | P/A | Flush main and resample | Resampling on June 14, 2022 |
| July 11, 2022 (AWQI # 159109) | Total Coliforms, | P | P/A | Flush main and resample | Resampling on July 12, 2022 |
| July 12, 2022 (AWQI # 159140) | Total Coliforms | P | P/A | Flush main and resample. | Resampling on July 13, 15, 2022 |
| July 18, 2022 (AWQI # 159211) | Total Coliforms | P | P/A | Flush main and resample. | Resampling on July 20, 2022 |
| August 8, 2022 (AWQI # 159490) | Total Coliforms | P | P/A | Flush main and resample. | Resampling on August 10, 2022 |
| August 8, 2022 (AWQI # 159491) | Total Coliforms | P | P/A | Flush main and resample. | Resampling on August 10, 2022 |
| August 10, 2022 (AWQI # 159530) | Total Coliforms | P | P/A | Flush main and resample. | Resampling on August 12, 13, 2022 |

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 | N/A |
| Treated | N/A | N/A | N/A | N/A | N/A |
| Distribution | 961 | 0-P | 0-P | 457 | 0-16 |

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during this reporting period

| | Number of Grab Samples | Range of Results (min #)-(max #) | Unit of Measure | NOTE: For continuous monitors use 8760 as the number of samples. |
|--|-------------------------------|---|------------------------|---|
| Turbidity (treated) | Not Applicable | | | |
| Chlorine (combined) | 1125 | Free: 0.00-0.19 Total: 0.73-2.3 | mg/L | |
| Fluoride (If the DWS provides fluoridation) | Not Applicable | | | |

Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03

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 |
|-----------|--------------|--------------|-----------------|------------|
| Antimony | | | | |
| Arsenic | | | | |
| Barium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Chromium | | | | |
| *Lead | | | | |
| Mercury | | | | |
| Selenium | | | | |
| Sodium | | | | |
| Uranium | | | | |
| Fluoride | | | | |
| Nitrite | Oct 31, 2022 | <0.05 | mg/L | No |
| Nitrate | Oct 31, 2022 | <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 – 0.0006 | mg/L | 0 |

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

**Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03**

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|----------------------|-------------|--------------|-----------------|------------|
| HAA (annual average) | quarterly | 8.00 | ug/l | No |
| THM (annual average) | quarterly | 17.30 | ug/l | No |

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 |
|-----------|--------------|-----------------|----------------|
| N/A | | | |

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 |
|-----------|--------------|-----------------|----------------|
| N/A | | | |