

# 2025 Annual Drinking Water System Quality Report for York DWS

Prepared by The Regional Municipality of York pursuant to Section 11 of O. Reg. 170/03.

**Drinking Water System Number:** 260001929

**Drinking Water System Name:** York DWS

**Drinking Water System Owner:** The Regional Municipality of York

**Drinking Water System Category:** Large Municipal Residential

**Drinking Water System Classification:** Water Distribution IV

**Reporting period:** Jan 1, 2025 - Dec 31, 2025

**The York DWS serves approximately 921,990 people.**

*(Note: Population is based on service area of the DWS and may not align with municipal and political boundaries).*

## **List all Drinking Water Systems which receive their drinking water from the York DWS:**

York DWS is the primary water source for: Markham Distribution System (220004162); Richmond Hill Distribution System (260001968); Vaughan Distribution System (260003097). The following systems are connected to or are sub-systems of the York DWS: York Drinking Water sub-system - Aurora (220002440); York Drinking Water sub-system - Holland Landing (220004046); King City Drinking Water System (220002299); Kleinburg Drinking Water System (220002360); York Drinking Water sub-system - Newmarket (220002413); York Drinking Water sub-system - Queensville (260001955); York Drinking Water sub-system - Stouffville (220002333); Town Of Aurora Distribution System (260003227); Town of Newmarket Distribution System (260003188)

This annual report is available to the public at no charge on York Region's website ([york.ca/drinkingwater](http://york.ca/drinkingwater)) and upon request. Accessible formats or communication supports are also available upon request. Please contact [AccessYork@york.ca](mailto:AccessYork@york.ca) or call 1-877-464-9675.

**A copy of York Region's annual report was provided to all Drinking Water System owners that are connected to and receive drinking water from York Region.**

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

- Media (internet, social media)
- Public requests at any time

**Summary report required under O. Reg. 170/03 Schedule 22 will be available for inspection at:**

The Regional Municipality of York  
Administrative Centre  
Public Works Department  
17250 Yonge Street, Newmarket ON L3Y 6Z1

## Description of the York DWS

### **Introduction:**

The cities of Vaughan, Markham, and Richmond Hill form the southern border of York Region. These three municipalities receive all their water from Lake Ontario through the York Drinking Water System (York DWS). In these areas, initial treatment of the source water is done by Peel Region and the City of Toronto. Kleinburg, in Vaughan, is its own sub-system. Communities north of Vaughan, Richmond Hill, and Markham that receive water from the York DWS are supplemented with groundwater from wells.

### **Raw water source:**

Lake Ontario

### **Profile of water in distribution system:**

Lake Ontario (some sub-systems can be supplemented with local groundwater)

### **Water treatment description:**

In the York DWS, purchased water is pre-treated and disinfected by the City of Toronto and Peel Region. In Vaughan, Richmond Hill, and Markham, the York DWS includes eleven storage facilities and eight pumping stations. Storage facilities hold water and help maintain pressure. Operators test the water and inspect the process. Online analyzers continuously monitor the facilities and automatically pause operation if an issue is detected.

### **List of water treatment chemicals used in this system:**

Purchased water is pre-treated and disinfected by the City of Toronto and Peel Region. City of Toronto and Peel Region - Chlorine, Aqueous Ammonia (disinfection); Hydrofluosilicic Acid (fluoridation); York Region - Gaseous Chlorine, Ammonia Solution (disinfection)

### **Brief description and breakdown of monetary expenses incurred:**

\$75,369,759 for storage facilities rehabilitation and upgrades, emergency power upgrades, fuel oil appliance upgrades, chamber rehabilitation, watermain rehabilitation and repairs, watermain design and construction, new Regional remote operations centre construction, general maintenance and repairs.

**Notices submitted under Section 18(1) of the *Safe Drinking Water Act* or Section 16-4 of Schedule 16 of O. Reg. 170/03 and reported to MECP Spills Action Centre**

**Not Applicable**

**Intentionally blank. No notices were submitted for this report period.**

**Microbiological testing completed under  
Schedule 10 of O. Reg. 170/03**

For additional distribution samples collected under Schedule 10, refer to the local municipality.

**Not Applicable**

**York DWS does not have any raw water or treatment facilities, so there are no microbiological tests to report here. For more data, view the Open Dataset or refer to the local municipality.**

**Operational testing completed under Schedule 7  
of O. Reg. 170/03 during this reporting period**

<b>Test Parameter</b>	<b>Test Unit</b>	<b>No. of Samples <sup>1</sup></b>	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>
Combined Chlorine	mg/L	8,760	1.69	0.00	3.00
Free Chlorine	mg/L	8,760	1.97	0.00	3.82

<sup>1</sup> 8,760 is used as the number of samples for continuous analyzers.

**Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of an approval, order or other legal instrument**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect (i.e. the " $<$ " is omitted) and are rounded to three decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

Test Parameter <sup>2 3</sup>	Test Unit	No. of Samples <sup>1</sup>	Average	Minimum	Maximum
Fluoride	mg/L	48	0.605	0.460	0.680
Haloacetic Acids (Distribution)	ug/L	48	8.042	<8.000	9.400
Nitrate (Distribution)	mg/L	48	0.500	<0.500	<0.500
Nitrite (Distribution)	mg/L	48	0.050	<0.050	<0.050
N-Nitrosodimethylamine (NDMA) (Distribution)	ug/L	15	0.0009	<0.0009	0.0010
Sodium	mg/L	12	18.142	14.700	24.600
Trihalomethanes (Distribution)	ug/L	50	13.301	8.040	21.400

\*Lead testing under Schedule 15.1 is conducted by the local municipality - refer to local municipality reports for results. York Region occasionally collects samples tested for lead for non-regulatory research purposes.

<sup>1</sup> 8,760 is used as the number of samples for continuous analyzers.

<sup>2</sup> The Average for Haloacetic Acids and Trihalomethanes is calculated as the running annual average of quarterly results in accordance with O. Reg 170/03. The Minimum and Maximum values reflect individual test results.

<sup>3</sup> Where sampling for 'N-Nitrosodimethylamine (NDMA)' is required, locations were selected to represent the farthest points in the distribution system. For York DWS and sub-systems, representative sample locations were selected from across the interconnected sub-systems and include at least one facility from every subsystem.

**Organic and inorganic parameter(s), from Schedule 23 and 24, that exceeded half the standard prescribed in Schedule 2 of O. Reg. 169/03 Ontario Drinking Water Quality Standards**

**Not Applicable**  
**Intentionally blank. There were no applicable test results.**

**Summary of inorganic parameters tested pursuant to Schedule 23 of O. Reg. 170/03**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to four decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

<b>Test Parameter</b>	<b>Test Unit</b>	<b>No. of Samples</b>	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>	<b>ODWS Limit</b>
Antimony	mg/L	12	0.0005	<0.0005	<0.0005	0.006
Arsenic	mg/L	12	0.0007	0.0005	0.0008	0.01
Barium	mg/L	12	0.0230	0.0217	0.0262	1
Boron	mg/L	12	0.0223	0.0206	0.0239	5
Cadmium	mg/L	12	0.0005	<0.0005	<0.0005	0.005
Chromium	mg/L	12	0.0005	<0.0005	0.0006	0.05
Mercury	ug/L	12	0.1000	<0.1000	<0.1000	1
Selenium	mg/L	12	0.0005	<0.0005	0.0007	0.05
Uranium	mg/L	12	0.0005	<0.0005	<0.0005	0.02

**Summary of organic parameters tested pursuant to  
Schedule 24 of O. Reg. 170/03**

Values with a less than sign (" $<$ ") indicate that the test result is below the method detection limit from the accredited laboratory (i.e. non-detect). Average results include values which were returned as non-detect and are rounded to three decimals. For a complete set of results, see the open dataset available at [york.ca/drinkingwater](http://york.ca/drinkingwater).

**Not Applicable**  
**Schedule 24 sampling is not applicable to the York DWS**  
**as it has no active treatment facilities.**