



Attachment – 1 February 6, 2025

# **ANNUAL WATER QUALITY REPORT**

Drin	king-Water System Number:	260003097		
Drin	king-Water System Name:	Vaughan Distribution System		
Drin	king-Water System Owner:	The Corporation of the City of Vaughan		
Drin	king-Water System Category:	Large Municipal - Residential		
Peri	od being reported:	January 1, 2024 to December 31, 2024		
Con	nplete if your Category is Large Mur	nicipal Residential or Small Municipal Residential:		
Doe	s your Drinking-Water System serve m	nore than 10,000 people?	Yes ⊠	No □
ls yo	our annual report available to the public	c at no charge on a web site on the Internet?	Yes ⊠	No □
Loca	ation where Summary Report required	under O. Reg. 170/03 Schedule 22 will be available fo	r inspecti	on:
https	s://www.vaughan.ca/residential/water-v	wastewater-and-stormwater/water-services/water-quali	ity	
Non <b>Did</b>	е	which receive all of their drinking water from your report to all Drinking Water System owners that are nking water?		
	Yes			
	No			
	Not applicable			
Indi	cate how you notified system users	that your annual report is available, and is free of	charge:	
$\boxtimes$	Public access/notice via the web			
	Public access/notice via Government	Office		
	Public access/notice via a newspaper			
$\boxtimes$	Public access/notice via Public Reque	est		
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_	Public access/notice via a Public Libra	ary		
	Public access/notice via a Public Libra  Public access/notice via other method	•		

## **Describe your Drinking-Water System**

The Vaughan Distribution System consists of one booster pumping station (Maplewood Booster Station/North Maple Booster Station), one pressure elevating system (Woodland Acres Pressure Elevating System), and trunk and distribution watermains in the City of Vaughan.





Drinking water for the City of Vaughan is supplied from York Region, who obtains water from the City of Toronto and the Region of Peel. The City of Toronto operates four water treatment plants using Lake Ontario as a raw water source. The Region of Peel operates two water treatment plants using Lake Ontario as a raw water source.

## List all water treatment chemicals used over this reporting period.

Water is treated by the City of Toronto and the Region of Peel. Lists of chemicals used for the treatment of the water supplied to the City of Vaughan are available on their websites, <a href="www.toronto.ca">www.toronto.ca</a> and <a href="www.peelregion.ca">www.peelregion.ca</a>, respectively.

#### Were any significant expenses incurred to?

	Install	required	equi	pment
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- □ Repair required equipment
- □ Replace required equipment

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

- Watermain replacements \$7,244,491
- Scheduled and emergency valve repairs and maintenance \$891,985
- Scheduled and emergency main repairs \$672,705
- Scheduled and emergency hydrant repairs, maintenance, and inspections \$1,998,791
- Operation and maintenance of the booster pumping station and pressure elevating system \$104,266
- Scheduled and emergency water service repairs \$859,664
- Water meter maintenance and installation \$1,711,759
- Chamber repairs \$79,888

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	Incident Resolution Date
2024/01/04	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/01/08
2024/04/01	Sodium	21	mg/L	Flush and retest	2024/04/04
2024/04/01	Sodium	21	mg/L	Flush and retest	2024/04/04
2024/04/18	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/04/22
2024/05/16	Combined Chlorine	5.10	mg/L	Flush and retest	2024/05/16
2024/05/21	Combined Chlorine	3.06	mg/L	Flush and retest	2024/05/21
2024/05/22	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/05/27
2024/05/24	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/05/28





Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Incident Resolution Date
2024/05/24	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/05/30
2024/05/26	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/05/30
2024/06/07	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/06/10
2024/06/12	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/06/17
2024/08/08	Total Coliform & E. Coli	TC – P EC – P	P-A/100mL	Flush and resample	2024/08/20
2024/08/11	Total Coliform	TC – 4	CFU/100mL	Flush and resample	2024/08/20
2024/08/11	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/08/15
2024/08/15	Total Coliform	TC – 1	CFU/100mL	Flush and resample	2024/08/20
2024/08/20	Combined Chlorine	0.19	mg/L	Flush and retest	2024/08/20
2024/08/21	Combined Chlorine	0.23	mg/L	Flush and retest	2024/08/21
2024/09/20	Total Coliform	TC – P	P-A/100mL	Flush and resample	2024/09/24
2024/09/24	Combined Chlorine	0.00	mg/L	Flush and retest	2024/09/24
2024/09/25	Combined Chlorine	0.00	mg/L	Flush and retest	2024/09/25

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

Location Type	Number of Samples	Fecal Results	Range of Coliform Results Present (P) / Absent (A)	# of HPC Samples	Range of HPC Results (cfu/1mL)
Distributio	n 1,800	A – P MPN/100mL	A – 4 CFU/100mL	888	<1 CFU/mL – 260 CFU/mL





Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min #) - (max #)
Combined Chlorine	2,204	0.00mg/L – 5.10mg/L
Turbidity	N/A	N/A

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 Issuance	Parameter	Date Last Sampled	Range of Results	Unit of Measure
05/23/19	Nitrosodimethylamine (NDMA)	2024/12/04	<0.0009 – 0.0027	μg/L

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	2024/11/11	<0.0005	mg/L	No
Arsenic	2024/11/11	0.0006	mg/L	No
Cadmium	2024/11/11	<0.0005	mg/L	No
Chromium	2024/11/11	<0.0005	mg/L	No
Selenium	2024/11/11	<0.0005	mg/L	No
Sodium	2024/11/11	14.2	mg/L	No
Fluoride	2024/11/11	0.61	mg/L	No
Nitrite	2024/12/04	<0.05	mg/L	No
Nitrate	2024/12/04	<0.50	mg/L	No

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min #) – (max #)	Number of Exceedances
Plumbing	0	Not Applicable	Not Applicable
Distribution	20	<0.0005	0





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

Parameter	Sample Date	Running Annual Average Result	Unit of Measure	Exceedance
Haloacetic Acids (HAA's)	4/year	<8.0	μg/L	No
Trihalomethane (THM)	4/year	19.2	μg/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
None			