



2024

Halton Region Drinking Water Quality Report: North Aldershot Distribution System

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Introduction

Halton Region is committed to providing safe drinking water to all of our customers. As mandated by the Safe Drinking Water Act, 2002, this annual Water Quality Report includes:

- A description of the water treatment process and chemicals used;
- Any major expenses to install, repair or upgrade equipment in the system; and,
- The results of our water tests and how they compare to provincial regulatory standards.

All provincial regulatory monitoring requirements and actions applicable to Halton Region's operation of this system were met or surpassed in the current reporting year.

System Description

The North Aldershot Distribution Subsystem is located in the northwest area of the City of Burlington. The system is connected to the Halton Region Distribution Subsystem; however, the connections are normally closed, thus isolating the two subsystems. Water is supplied by the City of Hamilton through an inter-connection to Hamilton's distribution system on Waterdown Road. There are approximately 105 homes and businesses in the North Aldershot system.

In November 2018, the City of Hamilton implemented a new Corrosion Control Program (CCP), approved by the Ministry of the Environment, Conservation and Parks (MECP) by utilizing low concentrations of orthophosphate. A letter outlining Hamilton's CCP was delivered to all affected Halton Region residents and select members of Council ahead of the implementation date.

What Improvements Are We Making?

Over \$3,000,000 was spent on watermain projects in the North Aldershot Distribution Subsystem. This included the replacement of the existing watermain along Waterdown Road and Flatt Road. Halton Region continues to support the production and delivery of high quality, safe drinking water through water sampling and monitoring above the provincial requirements, upgrades to the Supervisory Control and Data Acquisition (SCADA) monitoring system and infrastructure management systems, an update of the Water Master Plan and water efficiency programs. Work also continued on the Drinking Water Quality Management System, a provincial requirement to support the licensing of municipal drinking water systems which came into effect for Halton in January 2009.

Water Quality Testing

A large number of water quality tests are performed every day, in accordance with the *Safe Drinking Water Act, 2002 and regulations*. The following sections provide a summary of the test results.

Terms

CFU/100 mL	Colony-forming units per 100 millilitres of water
µg/L	micrograms per litre
mg/L	milligrams per litre
Standard	Ontario Drinking Water Quality Standard, O.Reg. 169/03

Microbiological Testing

	Number of Samples	E. coli Results (min-max)	Total Coliform Results (min-max)	Number of HPC Samples	HPC Results (min-max)
Distribution	105	Absent – Absent	Absent – Absent	65	0 - 160

Microbiological standards for treated and distributed water:

E.coli	not detected
Total Coliforms	not detected
HPC	Heterotrophic Plate Counts are conducted on some distribution system samples. The HPC test is used as a tool to monitor overall quality, but the results are not indicators of water safety. There is no Drinking Water Quality Standard for HPC.

Operational Testing

The chlorine residual in the distributed water is measured regularly by Halton Region operators. All of the readings are validated by an operator and are also reviewed by the MECP Inspector. 'Adverse' test results must be reported if the combined chlorine residual in the distribution system is <0.25 mg/L and the free chlorine residual is <0.05 mg/L. In the current reporting year, all of the validated readings and test results were within the ranges required by regulation.

Chemical Testing

Inorganic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Standard	Exceedance of Standard
Nitrite	11/04/24	0.05	mg/L	1.0	No
Nitrate	11/04/24	0.40	mg/L	10.0	No

Organic Parameters

Parameter	Sample Date	Result Value	Unit of Measure	Standard	Exceedance of Standard
THMs (latest running annual average)	11/04/24	21.7	µg/L	100 (running annual average)	No
THMs (latest running annual average)	11/04/24	21.7	µg/L	100 (running annual average)	No

No additional testing was required by a Municipal Drinking Water License, order or other legal instrument.

‘Adverse’ Results Notifications

Notices of ‘adverse’ water quality results are submitted in accordance with the Safe Drinking Water Act, 2002 to the MECP and the Medical Officer of Health. In the current reporting year, there were no adverse water reports for the North Aldershot Distribution System.

Community-Wide Lead Sampling Program Results

Under the Community-Wide Lead Sampling Program, samples were collected from two sampling points located within the North Aldershot Distribution Subsystem in the current reporting year. None of the samples contained concentrations of lead above the standard of 10 µg/L.

More Information or Questions

The related annual Drinking Water Systems Flow Report is presented to Municipal Council members on or before March 31 of each year and is posted on halton.ca

For alternative formats or questions relating to these documents, email accesshalton@halton.ca or call 311.

Halton Region

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