

Drinking Water Systems Regulation O. Reg. 170/03



# **Town of Richmond Hill 2018 Annual Report**

## **Regulatory Reporting for Municipal Drinking Water Systems**

<b>Drinking-Water System Number:</b>	W260001968 Certificate # 789
<b>Drinking-Water System Name:</b>	Richmond Hill Distribution System
<b>Drinking-Water System Owner:</b>	Town of Richmond Hill
<b>Drinking-Water System Category:</b>	Large Municipal Residential Distribution
<b>Period being reported:</b>	January 1, 2018 - December 31, 2018

**Does your Drinking-Water System serve more than 10,000 people?**

Yes ☒ No ☐

**Is your annual report available to the public at no charge on a web site on the Internet?**

Yes ☒ No ☐

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

- Web Site: [www.richmondhill.ca](http://www.richmondhill.ca)
- Town Hall, 225 East Beaver Creek, 5th Floor, Environment & Infrastructure Services Dept.
- Operations Centre, 1200 Elgin Mills Road East
- Central Library

**1. List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:** N/A

**2. 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 ☐

**3. 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 Public Request  
☒ Public access/notice via a Public Library

**4. Describe your Drinking-Water System**

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

Water treatment is performed by the City of Toronto and the Regional Municipality of Peel.

**6. Please provide a brief description and a breakdown of monetary expenses incurred**

- Repair and Maintenance of the distribution System \$4,385,000.00
- Replacement of Water Mains \$1,635,913.00 ( Capital Replacements Projects)

**7. 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
Feb 09, 2018*	Total Coliforms	1	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Feb 09, 2018
Apr 29, 2018*	Total Coliforms	2	CFU/100 mL	Flushed water main, resampled original AWQI, and 1 downstream location. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Apr 29, 2018
May13,2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	May 13, 2018
Jun 03,2018*	Total Coliforms	13 NDOGN	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as 2 upstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	June 03, 2018
June 15, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	June 15, 2018
June 24, 2018	Total Coliforms	7	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	June 24, 2018
July 12, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 12, 2018
July 15, 2018*	Total Coliforms	1300	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 15, 2018
July 20, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 20, 2018
July 24, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 24, 2018

July 26, 2018	Total Coliforms	2	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 27, 2018
July 27, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	July 27, 2018
Aug 02, 2018*	TC EC	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream location. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Aug 02, 2018
Aug 16, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Aug 16, 2018
Aug 24, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Aug 24, 2018
Aug 24, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as 2 upstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Aug 24, 2018
Sep 08, 2018*	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Sep 08, 2018
Sep 11, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Sep 11, 2018
Oct 04, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Oct 04, 2018
Oct 12, 2018	Total Coliforms	2	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Oct 12, 2018
Nov 01, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Nov 01, 2018
Nov 01, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well two upstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Nov 01, 2018

Nov 03, 2018	Total Coliforms	1	CFU/100 mL	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Nov 03, 2018
Nov 07, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Nov 07, 2018
Dec 06, 2018	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MOE and YRPH. Test results for all locations passed Ontario Drinking Water Quality Standards.	Dec 06, 2018

- \* - Multiple samples were collected to fulfill requirements of corrective action
- P – present
- P/A – presence/absence
- CFU – colony forming unit

**8. 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					
Treated					
Distribution	1560	P	1 - 1300	780	1 - 1700

**9. 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
Turbidity			
Chlorine	365	0.62- 2.11	Mg/L
Fluoride (If the DWS provides fluoridation)			

**10. 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				
Distribution	40	<0.0005 – 0.0038	Mg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	Feb 22, May 16, Aug 15, Nov 21	0.0152	Mg/L	0
HAA (NOTE: show latest annual average)	Feb 22, May 16, Aug 15, Nov 21	<0.011	Mg/L	0