

Drinking Water Systems Regulation O. Reg. 170/03



**Town of Richmond Hill
2017 Annual Report**

**Regulatory Reporting for
Municipal Drinking Water Systems**

Drinking-Water System Number:	W260001968 Certificate # 789
Drinking-Water System Name:	Richmond Hill Distribution System
Drinking-Water System Owner:	Town of Richmond Hill
Drinking-Water System Category:	Large Municipal Residential Distribution
Period being reported:	January 1, 2017 - December 31, 2017

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
- 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 \$4,918,997.00
- Replacement of Water Mains \$2,033,084.60 (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
May 13, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	May 13, 2017
June 01, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	June 01, 2017
June 14, 2017*	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	June 14, 2017
June 15, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	June 15, 2017
June 22, 2017	Total Coliforms	2	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	June 22, 2017
June 30, 2017*	Total Coliforms	3	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	June 30, 2017
July 02, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 02, 2017
July 10, 2017	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 10, 2017
July 11, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 11, 2017
July 19, 2017	Total Coliforms	9	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 19, 2017
July 21, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 21, 2017
July 21, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 21, 2017
July 25, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 25, 2017
July 26, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 26, 2017
July 27, 2017*	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 27, 2017
July 29, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 29, 2017

July 30, 2017*	Total Coliforms	4	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	July 30, 2017
Aug 03, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 03, 2017
Aug 04, 2017	Total Coliforms	2	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 04, 2017
Aug 04, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 04, 2017
Aug 05, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 05, 2017
Aug 11, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 11, 2017
Aug 11, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 11, 2017
Aug 30, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Aug 30, 2017
Sept 13, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Sept 13, 2017
Sep 27, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Sep 27, 2017
Oct 17, 2017	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Oct 17, 2017
Oct 25, 2017	Total Coliforms	P	P/A	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Oct 25, 2017
Nov 12, 2017	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Nov 12, 2017
Nov 25, 2017*	Total Coliforms	2	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Nov 25, 2017
Dec 15, 2017	Total Coliforms	4	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Dec 15, 2017
Dec 22, 2017	Total Coliforms	1	CFU/100 mL	Flushed watermain and resampled original AWQI, upstream and downstream locations. Notified MOE and YRPH	Dec 22, 2017

- * Multiple samples were collected to fulfill requirements of corrective action

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	2256	0	< 1 - 9	780	< 1 - 1500

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	2621	0.64- 2.05	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 – 0.0058	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)	November 15, 2017	0.0144	Mg/L	0
HAA (NOTE: show latest annual average)	November 15, 2017	<0.020	Mg/L	0