

Drinking Water Systems Regulation O. Reg. 170/03



**City of Richmond Hill
2020 Annual Report**

**Regulatory Reporting for
Municipal Drinking Water Systems**

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| Drinking-Water System Number: | W260001968 Certificate # 789 |
| Drinking-Water System Name: | Richmond Hill Distribution System |
| Drinking-Water System Owner: | City of Richmond Hill |
| Drinking-Water System Category: | Large Municipal Residential Distribution |
| Period being reported: | January 1, 2020 - December 31, 2020 |

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, Ground Floor, Access Richmond Hill Office
- 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

The City of Richmond Hill operates and maintains a Class 2 Drinking Water Distribution System. The water in this system comes from Lake Ontario, and it is tested and treated by the City of Toronto and the Regional Municipality of Peel. The City of Richmond Hill receives the water from the Region of York and distributes it to consumers.

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 \$4,223,273.00
- Replacement of Water Mains \$ 0.00 (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 |
|---------------|-------------------------------------|--------|-----------------|--|------------------------|
| July 09, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 09, 2020 |
| July 16, 2020 | Total Coliforms Escherichia coli | P P | P/A P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 16, 2020 |
| July 17, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 17, 2020 |
| July 18, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 18, 2020 |
| July 19, 2020 | Total Coliforms | 1 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 19 ,2020 |
| July 22, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 22 ,2020 |
| July 24, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 24, 2020 |
| July 24, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | July 24, 2020 |
| Jul 25, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Jul 25, 2020 |

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|---------------|-----------------|----|-----------|--|---------------|
| Jul 30, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Jul 30, 2020 |
| Jul 30, 2020* | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Jul 30, 2020* |
| Aug 01, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Aug 01, 2020 |
| Aug 01, 2020* | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Aug 01, 2020 |
| Aug 02, 2020 | Total Coliforms | 53 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Aug 02, 2020 |
| Aug 05, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Aug 05, 2020 |
| Aug 13, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Aug 13, 2020 |
| Sep 10, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Sep 10, 2020 |
| Sep 10, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Sep 10, 2020 |
| Sep 16, 2020* | Total Coliforms | 3 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Sep 16, 2020 |
| Sep 18, 2020 | Total Coliforms | 1 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Sep 18, 2020 |

| | | | | | |
|--------------|-----------------|---|-----------|--|--------------|
| Sep 21, 2020 | Total Coliforms | 1 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards | Sep 21, 2020 |
| Sep 24, 2020 | Total Coliforms | 1 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards | Sep 24, 2020 |
| Sep 28, 2020 | Total Coliforms | 3 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards | Sep 28, 2020 |
| Sep 30, 2020 | Total Coliforms | 1 | CFU/100ml | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards | Sep 30, 2020 |
| Nov 24, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Nov 24, 2020 |
| Dec 16, 2020 | Total Coliforms | P | P/A | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | Dec 16, 2020 |

- * - 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 | 0-1 | 0-53 | 780 | 0 - 240 |

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 | 0.76- 2.01 | 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 | 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 10, May 06, Aug 05, Nov 03 | 0.0163 | Mg/L | 0 |
| HAA (NOTE: show latest annual average) | Feb 10, May 06, Aug 05, Nov 03 | <0.0080 | Mg/L | 0 |
| NDMA (NOTE: show latest annual average) | Feb 13, May 05, Aug 06, Nov 04 | <0.000001 | Mg/L | 0 |