



DRINKING WATER SYSTEM



Summary
Report
2020

2020 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

Toronto Water Treatment Plant: R.C. Harris

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SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

1. DRINKING WATER SYSTEM INFORMATION

Drinking-Water System Number:	220002262
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 445)
Permit to Take Water:	0726-A6QJTA
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2020 to December 31, 2020

2. GENERAL OVERVIEW

Toronto Water treats, transmits, stores and distributes potable (drinkable) water to all industrial, commercial and household water users in the City of Toronto. The division also delivers water to the southern portion of the Region of York.

Staff in this area are highly trained and specialized, operating four water treatment plants, two laboratories, 18 pumping stations, 11 major ground level storage reservoirs and four elevated storage tanks. Staff maintains about 532 kilometres of trunk watermains that supply the water reservoirs and over 5,569 kilometres of local distribution mains. Policies and practices adopted by the section help the unit to manage significant issues and challenges, including meeting water demands throughout the year, complying with provincial regulations and working responsibly to protect the environment and local water bodies.

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3. SUMMARY – NON-COMPLIANCE

The next table summarizes any available incidences (from MECP Inspection Reports) where requirements from applicable regulatory instruments were not met at any time during the reporting period; the duration of each incident; and the corresponding corrective actions taken to respond to them. The applicable regulatory instruments are:

- Safe Drinking Water Act (SDWA)
- Applicable SDWA Regulations, including but not limited to:
 - O. Reg. 170/03: DRINKING WATER SYSTEMS

- O. Reg. 128/04: CERTIFICATION OF DRINKING WATER SYSTEM OPERATORS AND WATER QUALITY ANALYSTS
- O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS
- O. Reg. 248/03: DRINKING WATER TESTING SERVICES
- Drinking Water System Approval
- Drinking Water Works Permit
- Drinking Water Licence
- Any orders applicable to the system

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
N/A	No non-compliances	N/A	N/A	N/A

4. SUMMARY – WATER PRODUCTION

Monthly Average Output Water Flows for Reporting Period (As Conveyed to the Distribution System)

MONTH	AVERAGE DAILY VOLUME (m ³)
January	317,999
February	534,908
March	414,991
April	284,427
May	288,574
June	290,734
July	316,559
August	305,192
September	310,476
October	296,308
November	291,895
December	493,305

NOTE: Non-production days not included in monthly average daily volume.

Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	344,970
Maximum Day Flow (m ³) (and Date Occurred)	690,200 February 19, 2020
Rated Capacity (m ³ /day)	950,000
Highest Capacity Used (% of rated)	73

5. CITY OF TORONTO ENDORSEMENT OF SUMMARY REPORT

This Summary Report has been signed off by Lou Di Gironimo, General Manager of Toronto Water, on behalf of the City of Toronto Council.

A copy of this report has been forwarded to the members of the City Council in 2021 as per regulatory requirements.

6. CONTACTS

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2020 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

Toronto Water Treatment Plant: Island

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SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

1. DRINKING WATER SYSTEM INFORMATION

Drinking-Water System Number:	220002244
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 443)
Permit to Take Water:	1866-A6QHRP
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2020 to December 31, 2020

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- O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS
- O. Reg. 248/03: DRINKING WATER TESTING SERVICES
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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
2020/9/30	MDWL, Condition 4.2 of Schedule D	Filter #3 alarm setpoints set higher than required. The filter turbidity compliance limit was not exceeded.	A programming modification was made to ensure that in the future only the supervisory level can make changes to the alarm setpoints.	198 days

4. SUMMARY – WATER PRODUCTION

Monthly Average Output Water Flows for Reporting Period (As Conveyed to the Distribution System)

MONTH	AVERAGE DAILY VOLUME (m ³)
January	248,967 *
February	0 *
March	272,733 *
April	289,167
May	312,387
June	351,533
July	371,645
August	371,710
September	352,167
October	311,065
November	303,200
December	0 *

*Island Water Treatment Plant shut-down for maintenance for at least part of the period.

NOTE: Non-production days not included in monthly average daily volume.

Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	321,152
Maximum Day Flow (m ³) (and Date Occurred)	407,000 (July 10, 2020)
Rated Capacity (m ³ /day)	440,000
Highest Capacity Used (% of rated)	93

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2020 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

Toronto Water Treatment Plant: R.L. Clark

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SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

1. DRINKING WATER SYSTEM INFORMATION

Drinking-Water System Number:	220002253
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 444)
Permit to Take Water:	0016-A6QKN2
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2020 to December 31, 2020

2. GENERAL OVERVIEW

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3. SUMMARY – NON-COMPLIANCE

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- Any orders applicable to the system

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
N/A	No non-compliances	N/A	N/A	N/A

4. SUMMARY – WATER PRODUCTION

Monthly Average Output Water Flows for Reporting Period (As Conveyed to the Distribution System)

MONTH	AVERAGE DAILY VOLUME (m ³)
January	342,000
February	340,000
March	345,000
April	312,000
May	335,000
June	403,000
July	455,000
August	398,000
September	377,000
October	345,000
November	311,000
December	326,000

NOTE: Non-production days not included in monthly average daily volume.

Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	357,000
Maximum Day Flow (m ³) (and Date Occurred)	519,000 (July 6, 2020)
Rated Capacity (m ³ /day)	615,000
Highest Capacity Used (% of rated)	84

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2020 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

Toronto Water Treatment Plant: F.J. Horgan

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SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

1. DRINKING WATER SYSTEM INFORMATION

Drinking-Water System Number:	220004536
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 446)
Permit to Take Water:	6604-A6QKEB
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2020 to December 31, 2020

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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
2020/03/10	O.Reg 169/03	Sodium Exceedance	Resample taken	Single Occurrence
2020/01/01 to 2020/12/31	Drinking Water Licence Schedule C 1.5	Total Suspended Solids Exceedance	Operational procedure revised	Year of 2020

4. SUMMARY – WATER PRODUCTION

Monthly Average Output Water Flows for Reporting Period (As Conveyed to the Distribution System)

MONTH	AVERAGE DAILY VOLUME (m ³)
January	216,911
February	247,762
March	224,011
April	201,464
May	225,055
June	292,974
July	322,223
August	298,829
September	243,517
October	178,903
November	193,952
December	245,569

NOTE: Non-production days not included in monthly average daily volume.

Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	231,164
Maximum Day Flow (m ³) (and Date Occurred)	438,460 (July 8, 2020)
Rated Capacity (m ³ /day)	800,000
Highest Capacity Used (% of rated)	54.8

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2020 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

Toronto Water: Distribution System

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SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

1. DRINKING WATER SYSTEM INFORMATION

Drinking-Water System Number:	260090363
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 2 Water Distribution Facility (Certificate No. 9207) Class 4 Trunk Water Distribution Subsystem (Cert. 1532)
Permit to Take Water:	N/A
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
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