



# Ontario Clean Water Agency Agence Ontarienne Des Eaux

Patty Sinnamon, CAO  
The Corporation of the Township of Chatsworth  
R.R. #1  
Chatsworth, Ontario  
N0H 1G0

**RE: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report**

Ms. Sinnamon,

Attached is the 2018 Summary Report for the **Chatsworth Water Treatment Plant**. This report has been completed based on the information we have in our records and in accordance with Schedule 22 of Ontario Regulation 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31<sup>st</sup> of each year for the preceding calendar year. This report covers the period of January 1, 2018 to December 31, 2018.

After your review and inclusion of any additional information, this Summary Report must be provided to the members of the municipal council. The report is not intended for distribution to the Ministry of the Environment, Conservation and Parks.

Section 12 of Ontario Regulation 170/03, requires both the Summary Report and the Annual Report to be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality, or at a location that is reasonably convenient for the users of the water system, as indicated in the Section 11 Annual Report, as required by Section 12(4) of O.Reg 170/03.

Should you require further clarification of information regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Leo-Paul Frigault'.

Leo-Paul Frigault  
Senior Operations Manager  
OCWA, Georgian Highlands Region



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

**CHATSWORTH**  
**DRINKING WATER SYSTEM**

Large Municipal Residential

**SCHEDULE 22**  
**SUMMARY REPORT**

**For the period of**  
**JANUARY 1, 2018 TO DECEMBER 31, 2018**

Prepared by the Ontario Clean Water Agency  
For The Corporation of the Township of Chatsworth

## Summary

This report is a summary of water quality and quantity information submitted in accordance with Schedule 22 of Ontario's Drinking Water System Regulation for the reporting period of January 1, 2018 to December 31, 2018 for the Chatsworth Drinking Water System located in the Township of Chatsworth. The summary includes the following information:

- Any requirements of the Act and Regulation, Orders or System Approval(s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
- A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
- A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

## Issues of Non-Compliance

An MECP Drinking Water System Inspection was performed on August 2, 2018. On September 11, 2018 the report for this inspection was issued, the Chatsworth Drinking Water System received an inspection rating of 92.59%.

The following is a summary of the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
Records did not indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers.  (from 2018/2019 MECP Inspection Report)	May 16, 2018 (60 minutes)	<b>Corrective Actions:</b> The existing communications system was upgraded so that if power is still provided to everything with the exception of the UV, the pumps are not able to start, ensuring no improperly disinfected water can enter the distribution system.
The primary disinfection equipment was not equipped with alarms or shut-off mechanisms that satisfied the standards described in Section 1-6 (1) of Schedule 1 of Ontario Regulation 170/03.  (from 2018/2019 MECP Inspection Report)	May 16, 2018 (60 minutes)	<b>Corrective Actions:</b> The existing communications system was upgraded so that if power is still provided to everything with the exception of the UV, the pumps are not able to start, ensuring no improperly disinfected water can enter the distribution system.
Require approval was not obtained prior to proceeding with drinking water system alterations contained within the Drinking Water Works Permit #241-202 issue number 2 for the Chatsworth Drinking Water System. The drinking water system was altered outside the conditions of the drinking water works permit: The Director did not issue a Schedule C to this drinking water works permit to provide authority to alter the drinking water system prior to the installation of the new Chatsworth Drinking Water System standpipe.	September 18, 2018	<b>Corrective Actions:</b> November 2 <sup>nd</sup> , 2018 a DWWP Amendment application was submitted to the Approvals and Licensing Section of the Ministry of the Environment, Conservation and Parks. November 2 <sup>nd</sup> 2018, the Director Notification was also submitted. February 2 <sup>nd</sup> , 2019 the non-compliance was reported to the MECP Inspector and system Owner.

Refer to the Section 11 Annual Report for a summary of any Adverse Water Quality Incident(s) which occurred during the reporting period.

## Assessment of Flowrates and Quantity of Water Supplied

The following table summarizes the quantities (Table 1) and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows as well as a comparison of the summary to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license.

As per Municipal Drinking Water License (MDWL) 241-102 (Issue Number: 3, expires November 18, 2020), the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a rated capacity of 760 m<sup>3</sup>/day.

**Table 1.** Monthly Average and Maximum Daily Flows and Comparison to Rated Capacity for 2018

2018	Well #1 & 2 Combined Water Flow			
	Average Flow (m <sup>3</sup> /day)	Percent of Rated Capacity <small>(MDWL Rated Capacity 760 m<sup>3</sup>/day)</small>	Maximum Flow (m <sup>3</sup> /day)	Percent of Rated Capacity <small>(MDWL Rated Capacity 760 m<sup>3</sup>/day)</small>
January	156	20.4%	345	45.2%
February	129	16.9%	215	28.2%
March	129	16.9%	197	25.8%
April	125	16.4%	209	27.4%
May	147	19.3%	315	41.3%
June	172	22.5%	294	38.5%
July	184	24.1%	299	39.2%
August	150	19.6%	269	35.3%
September	172	22.5%	541	70.9%
October	151	19.7%	316	41.4%
November	112	14.7%	233	30.5%
December	107	14.0%	359	47.1%

Please refer to Appendix A for the PTTW flow and flow rate data for Well 1 and Well 2.

# Appendix A

## Chatsworth Drinking Water System

Water taking permitted as per PTTW #3802-9L2JFM

Flow & Flowrates for Well 1 & 2

## Facility Flow Summary

Drinking-Water System Number: 210003011  
 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM  
 Drinking-Water System Owner: Township of Chatsworth  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 241-102  
 Period being reported: 01/2018 12/2018

### Raw Water

Raw Water (Source Name) Raw Water - Well 1  
 Source Type: Drilled  
 Drinking Water Permit to Take Water No: 3802-9L2JFM

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	1733.00	55.90	179.00	8.10
Feb	3569.00	127.46	215.00	8.10
Mar	605.00	19.52	177.00	8.00
Apr	27.00	0.90	7.00	7.32
May	42.00	1.35	24.00	6.93
Jun	4641.00	154.70	294.00	7.99
Jul	5667.00	182.81	296.00	8.20
Aug	4615.00	148.87	269.00	8.30
Sep	4317.00	143.90	471.00	8.25
Oct	801.00	25.84	270.00	7.25
Nov	3332.79	111.09	233.00	8.30
Dec	3280.00	105.81	359.00	8.48
<b>Total</b>	32629.79	1078.15	2794.00	95.22
<b>Avg</b>	2719.15	89.85	232.83	7.93
<b>Max</b>	5667.00	182.81	471.00	8.48
<b>Criteria</b>			818.20	9.48

## Facility Flow Summary

Drinking-Water System Number: 210003011  
 Drinking-Water System Name: CHATSWORTH DRINKING WATER SYSTEM  
 Drinking-Water System Owner: Township of Chatsworth  
 Drinking-Water System Category: Large Municipal Residential  
 Municipal Drinking Water License: 241-102  
 Period being reported: 01/2018 12/2018

### Raw Water

Raw Water (Source Name) Raw Water - Well 2  
 Source Type: Drilled  
 Drinking Water Permit to Take Water No: 3802-9L2JFM

Month	Monthly Flow Total (m3/month)	Daily Flow Average (m3/day)	Daily Flow Maximum (m3/day)	Daily Flow Peak Flow Rate (L/sec)
Jan	3092.00	99.74	345.00	8.38
Feb	35.00	1.25	11.00	8.00
Mar	3390.00	109.35	197.00	8.50
Apr	3735.00	124.50	207.00	8.42
May	4519.00	145.77	315.00	8.40
Jun	504.00	16.80	210.00	8.08
Jul	25.00	0.81	7.00	8.00
Aug	28.00	0.90	7.00	8.33
Sep	828.00	27.60	243.00	8.25
Oct	3866.00	124.71	316.00	7.95
Nov	36.00	1.20	26.00	8.30
Dec	23.00	0.74	7.00	8.26
<b>Total</b>	20081.00	653.38	1891.00	98.86
<b>Avg</b>	1673.42	54.45	157.58	8.24
<b>Max</b>	4519.00	145.77	345.00	8.50
<b>Criteria</b>			818.20	9.48