

# SUMMARY REPORT

ONTARIO REGULATION 170/03  
SCHEDULE 22

## DRAYTON DRINKING WATER SYSTEM

FOR THE PERIOD:  
JANUARY 1, 2021 – DECEMBER 31, 2021

*Prepared for the Township of Mapleton  
by the Ontario Clean Water Agency*



## **SUMMARY REPORTS FOR MUNICIPALITIES**

Period from: JANUARY 01, 2021 – DECEMBER 31, 2021

### **DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22**

<b>DRINKING-WATER SYSTEM NAME:</b>	<b>DRAYTON DRINKING WATER SYSTEM</b>
<b>DRINKING-WATER SYSTEM NUMBER:</b>	<b>220004064</b>
<b>DRINKING-WATER SYSTEM CATEGORY:</b>	LARGE MUNICIPAL RESIDENTIAL
<b>DRINKING-WATER WORKS PERMIT #:</b>	105-201, Issue #5 – Issued: November 13, 2020
<b>MUNICIPAL DRINKING WATER LICENCE #:</b>	105-101, Issue #3 – Issued: November 13, 2020 Expiry: November 13, 2025
<b>PERMIT TO TAKE WATER #:</b>	0758-98MLKT – Expiry: May 31, 2023

#### **REPORT:**

This report is a summary of water quality information for the Drayton Water Supply, published in accordance with Schedule 22 of Ontario's Drinking-Water System Regulation 170/03 for the reporting period of **January 1, 2021 to December 31, 2021**.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Mapleton.

#### **Issues of Non-Compliance**

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

<b>Non-Compliance Description</b>	<b>Date Non-Compliance Issued</b>	<b>Corrective Action</b>	<b>Date Corrective Action Implemented</b>
n/a	n/a	n/a	n/a

**There were no instances of non-compliance this reporting year.**

**The Drayton Drinking Water System was last inspected by the Ministry of the Environment, Conservation, and Parks on August 10, 2021.**

Please refer to the Section 11 Annual Report for the Drayton Drinking Water System for information regarding Adverse Water Quality Incident(s) which may have occurred during the reporting period.

## **SUMMARY REPORTS FOR MUNICIPALITIES**

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### **DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22**

#### **SYSTEM PERFORMANCE:**

The following tables list the quantities and flow rates of the water supplied during the reporting period covered by this report, including each raw water well and the treated water system. It includes the monthly average, maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval.

<b>Drayton Well Supply</b>	<b>Well #1</b>	<b>Well #2</b>	<b>Total Raw</b>	<b>Treated</b>
Design Capacity (m <sup>3</sup> /day)	1964.16	1964.16	3928.32	3928.0
Approved Maximum Flow Rate (L/s)	22.73	22.73	-	-
Average Day Flow (m <sup>3</sup> /day)	255.18	317.49	-	450.54
Maximum Day Flow (m <sup>3</sup> /day)	646.14	766.91	-	819.98
% Average Day Flow/Design Capacity	12.99%	16.16%		11.47%
% Maximum Day Flow/Design Capacity	32.90%	39.05%	-	20.88%
Average Peak Flow Rate (L/s)	21.46	19.48	-	-
Maximum Peak Flow Rate (L/s)	22.60	20.20	-	-
% Average Peak Flow Rate/Approved	94.41%	85.70%	-	-
% Maximum Peak Flow Rate/Approved	99.43%	88.87%	-	-

A review of flow information for the period of January 1, 2021 to December 31, 2021 indicates that:

- The maximum daily volume specified in the PTTW was not exceeded on any well.
- The drinking water system did not exceed the rated capacity for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system as specified in the MDWL.
- The maximum peak flow rate specified in the PTTW was not exceeded on any well.

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### DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

The following table outlines the detailed flow summary for Treated Water

Treated				
Month	Monthly Flow Total (m <sup>3</sup> /month)	Daily Flow Average (m <sup>3</sup> /day)	Daily Flow Maximum (m <sup>3</sup> /day)	Max Percent Rated Capacity (%)
<b>January</b>	12970.68	418.41	466.77	11.88
<b>February</b>	12132.50	433.30	482.22	12.28
<b>March</b>	12905.63	416.31	501.20	12.76
<b>April</b>	11694.20	389.81	486.83	12.39
<b>May</b>	14928.11	481.55	654.01	16.65
<b>June</b>	15397.66	513.26	708.64	18.04
<b>July</b>	14310.12	461.62	619.26	15.77
<b>August</b>	15866.96	511.84	616.33	15.69
<b>September</b>	14171.23	472.37	669.63	17.05
<b>October</b>	13693.74	441.73	819.98	20.88
<b>November</b>	12442.38	414.75	488.91	12.45
<b>December</b>	13995.93	451.48	519.15	13.22
<b>Total</b>	164509.14			
<b>Avg</b>		450.54		
<b>Max</b>			819.98	20.88

## SUMMARY REPORTS FOR MUNICIPALITIES

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### DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

The following tables outline the detailed flow summary for each Raw Water Well:

Table 3: Facility Flow Summary for Raw Water Source W1						
<b>Well #1</b>						
Month	Monthly Flow Total (m <sup>3</sup> /month)	Daily Flow Average (m <sup>3</sup> /day)	Daily Flow Maximum (m <sup>3</sup> /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	10685.65	381.63	465.47	23.70	22.30	28
February	301.41	50.24	201.81	10.27	22.60	6
March	12475.76	402.44	504.93	25.71	22.50	31
April	2261.74	205.61	430.69	21.93	22.30	11
May	13555.47	467.43	646.14	32.90	22.20	29
June	383.37	54.77	258.23	13.15	21.90	7
July	12028.49	429.59	608.99	31.01	21.70	28
August	786.18	112.31	346.54	17.64	21.60	7
September	10438.96	401.50	598.95	30.49	21.90	26
October	800.43	114.35	390.79	19.90	22.00	7
November	11264.21	388.42	479.25	24.40	22.20	29
December	269.32	53.86	182.67	9.30	22.30	5
<b>Total</b>	75250.99					214
<b>Avg</b>		255.18			21.46	
<b>Max</b>			646.14	32.90	22.60	

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### DRINKING-WATER SYSTEMS REGULATION O. Reg. 170/03, Schedule 22

Table 4: Facility Flow Summary for Raw Water Source W2						
<b>Well #2</b>						
Month	Monthly Flow Total (m <sup>3</sup> /month)	Daily Flow Average (m <sup>3</sup> /day)	Daily Flow Maximum (m <sup>3</sup> /day)	Max Percent Water Taking Limits (%)	Daily Flow Peak Flow Rate (L/sec)	Number of Days of Water Taking
January	2202.35	200.21	469.95	23.93	20.20	11
February	12192.24	435.44	510.09	25.97	19.90	28
March	289.16	48.19	177.38	9.03	20.00	6
April	9605.90	384.24	506.00	25.76	20.00	25
May	1157.30	128.59	463.77	23.61	20.00	9
June	15400.13	513.34	714.07	36.35	20.00	30
July	2255.62	187.97	590.55	30.07	20.10	12
August	15469.97	515.67	632.73	32.21	19.70	30
September	3733.23	339.38	686.67	34.96	19.80	11
October	13159.09	438.64	766.91	39.05	19.70	30
November	1114.35	159.19	404.21	20.58	20.10	7
December	14229.08	459.00	539.60	27.47	20.00	31
<b>Total</b>	90808.42					230
<b>Avg</b>		317.49			19.48	
<b>Max</b>			766.91	39.05	20.20	