



2024 SCHEDULE 22 SUMMARY REPORT

DRAYTON
DRINKING WATER
SYSTEM

For the period of
January 1st, 2024 to December 31st, 2024

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



This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

Drinking-Water System Number:	220004064
Drinking-Water System Name:	Drayton Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Mapleton
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024 – December 31, 2024

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on June 12, 2024 for the period covering June 29, 2023 to July 8, 2024. On July 9, 2024 the Inspection Report was issued and an Inspection Summary Rating Record (IRR) of 100% was received.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2023/2024 MECP Inspection Report

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

The following table (Table 2) is a summary of any incidents that the Operating Authority interpreted as instances where any requirements of the Act, the regulations, the system's approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliances are noted in the MECP Inspection Report and included in Table 1.

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

Incident	Duration	Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Drayton Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 8) summarize the quantities and flowrates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flowrates approved in the system's approval, DWWP or MDWL.

As required by the MDWL, regulatory flow measuring devices are checked/verified and where necessary calibrated. These checks/verifications/calibrations are performed annually by a third party to ensure the flow measuring devices are within acceptable deviation limits.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	105-101 (Issue Number: 3)
Allowable Rated Capacity:	3,928 m ³ /day
Allowable Flowrate into Treatment System:	Not listed in MDWL

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	444.44	11.31%	745.43	18.98%	13777.51
February	456.44	11.62%	601.54	15.31%	13236.71
March	475.86	12.11%	702.77	17.89%	14751.52
April	453.23	11.54%	669.88	17.05%	13596.96
May	506.70	12.90%	1075.36	27.38%	15707.83
June	512.55	13.05%	729.30	18.57%	15376.54
July	557.93	14.20%	753.07	19.17%	17295.76
August	568.58	14.47%	791.14	20.14%	17625.84
September	494.15	12.58%	775.24	19.74%	14824.41
October	391.07	9.96%	726.94	18.51%	12123.16
November	388.73	9.90%	434.78	11.07%	11661.77
December	413.31	10.52%	954.52	24.30%	12812.56
2024	471.91	12.01%	1075.36	27.38%	172790.57

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem.

Table 4. Treated Water Annual and Monthly Average and Maximum Flowrates for 2024

Treated Water Flowrate		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	19.43	22.10
February	20.27	22.30
March	20.28	22.50
April	20.26	22.10
May	20.45	23.20
June	20.32	22.40
July	20.25	22.30
August	21.50	48.90 ^{4A}
September	20.37	22.20
October	20.07	22.20
November	20.10	22.30
December	20.28	22.60
2024	20.30	48.90

^{4A}August 19, 2024 - Treated flow meter calibration occurred causing a greater peak flow than normal. Not a reportable non-compliance as the MDWL does not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem.

2.2 Raw Water

Permit to Take Water Number (PTTW):	6777-CRVL6Y
Allowable Maximum Raw Water Volume - Well #1:	1,964.16 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #1:	1,364 L/min (22.73 L/sec)
Allowable Maximum Volume of Raw Water - Well #2:	1,964.16 m ³ /day
Allowable Maximum Raw Water Flowrate – Well #2:	1,364 L/min (22.73 L/sec)

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 5. Raw Water (Well #1) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #1					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	163.99	8.35%	499.62	25.44%	1475.90
February	449.97	22.91%	611.82	31.15%	13049.01
March	303.82	15.47%	609.70	31.04%	2430.59
April	427.74	21.78%	659.07	33.55%	12404.36

Raw Water Flow – Well #1					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
May	305.99	15.58%	579.42	29.50%	3059.85
June	462.46	23.54%	701.69	35.72%	12486.37
July	177.25	9.02%	531.87	27.08%	1595.25
August	535.75	27.28%	693.99	35.33%	16072.39
September	109.05	5.55%	303.63	15.46%	763.37
October	369.35	18.80%	710.31	36.16%	11449.81
November	232.93	11.86%	422.53	21.51%	1863.44
December	59.36	3.02%	265.90	13.54%	415.49
2024	299.80	15.26%	710.31	36.16%	77065.83

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #1.

Table 6. Raw Water (Well #1) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #1		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	19.01	19.60
February	19.86	22.00
March	20.49	21.50
April	19.80	20.50
May	19.73	20.30
June	19.86	21.70
July	21.33	21.50
August	20.45	21.90
September	17.86	20.00
October	19.34	20.40
November	18.99	19.00
December	19.07	19.20
2024	19.78	22.00

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well #1.

Table 7. Raw Water (Well #2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well #2					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	453.60	23.09%	794.58	40.45%	13154.30
February	93.25	4.75%	402.01	20.47%	466.25
March	473.53	24.11%	757.73	38.58%	13258.81
April	82.82	4.22%	531.47	27.06%	1242.26
May	440.92	22.45%	1183.43	60.25%	13668.39
June	145.86	7.43%	700.61	35.67%	3646.46
July	536.12	27.29%	783.86	39.91%	16619.62
August	153.37	7.81%	687.64	35.01%	1533.71
September	492.11	25.05%	850.42	43.30%	14763.24
October	57.89	2.95%	297.99	15.17%	347.35
November	410.74	20.91%	473.62	24.11%	10679.16
December	440.33	22.42%	1068.58	54.40%	13650.36
2024	315.04	16.04%	1183.43	60.25%	103029.91

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well #2.

Table 8. Raw Water (Well #2) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well #2		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	20.48	20.80
February	20.48	20.80
March	20.40	20.90
April	20.39	20.70
May	20.59	20.90
June	20.56	21.00
July	20.72	21.10
August	19.24	20.80
September	20.87	21.10
October	18.55	21.30
November	20.90	21.10
December	21.19	21.60
2024	20.59	21.60

A review of flow information for the reporting period indicates that the system operated within the PTTW's the maximum allowable raw water flowrate for Well #2.