

2022 SCHEDULE 22 SUMMARY REPORT

HOCKLEY
DRINKING WATER
SYSTEM



For the period of
January 1st, 2022 to December 31st, 2022

Prepared for the Corporation of the Township of Adjala-Tosorontio 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:	220005036
Drinking-Water System Name:	Hockley Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2022 – December 31, 2022

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on October 26, 2022 for the period covering August 26, 2021 to October 26, 2022. On December 23, 2022 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 2021/2022 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 Hockley Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 5) 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):	097-103 (Issue Number: 4)
Allowable Rated Capacity:	199 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 2022

Treated Water Flow ^{3A}					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	8.34	4.19%	12.67	6.37%	258.50
February	8.83	4.44%	10.80	5.43%	247.25
March	6.54	3.29%	9.17	4.61%	202.88
April	7.45	3.74%	19.73	9.91%	223.38
May	8.06	4.05%	18.54	9.32%	249.81
June	9.57	4.81%	14.18	7.13%	287.05
July	9.92	4.98%	15.98	8.03%	307.43
August	9.06	4.55%	15.23	7.65%	280.89
September	7.37	3.71%	16.75	8.42%	221.22
October	6.74	3.39%	9.15	4.60%	209.08
November	7.19	3.61%	11.92	5.99%	215.57
December	7.94	3.99%	16.92	8.50%	246.19
2022	8.08	4.06%	19.73	9.91%	2,949.25

^{3A}Treated water flow and flowrate data is based off the raw water flow and flowrate data.
There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

A review of flow information for the reporting period indicates that the Hockley 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. A summary of flowrates of water that flows into the treatment system can be found in Table 5. 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.

2.2 Raw Water

Permit to Take Water Number (PTTW):	0118-BY6TL8
Allowable Maximum Raw Water Volume - Well #1:	90 m ³ /day
Allowable Maximum Raw Water Flowrate - Well #1:	2.27 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 4. Raw Water Well #1 (PW1) Monthly Average, Maximum Flow and Total Volume for 2022

Raw Water Flow – Well #1 (PW1)					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	8.34	4.19%	12.67	6.37%	258.50
February	8.83	4.44%	10.80	5.43%	247.25
March	6.54	3.29%	9.17	4.61%	202.88
April	7.45	3.74%	19.73	9.91%	223.38
May	8.06	4.05%	18.54	9.32%	249.81
June	9.57	4.81%	14.18	7.13%	287.05
July	9.92	4.98%	15.98	8.03%	307.43
August	9.06	4.55%	15.23	7.65%	280.89
September	7.37	3.71%	16.75	8.42%	221.22
October	6.74	3.39%	9.15	4.60%	209.08
November	7.19	3.61%	11.92	5.99%	215.57
December	7.94	3.99%	16.92	8.50%	246.19
2022	8.08	4.06%	19.73	9.91%	2,949.25

A review of flow information for the reporting period indicates that Well #1 (PW1) operated within the PTTW's maximum allowable daily raw water volume.

Table 5. Raw Water Well #1 (PW1) Annual and Monthly Average and Maximum Flowrates for 2022

Raw Water Flowrate – Well #1 (PW1)		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	2.02	2.13
February	2.01	2.13
March	2.03	2.22
April	2.20	2.22
May	2.10	2.22
June	2.04	2.21
July	2.07	2.21
August	2.05	2.21
September	2.04	2.21
October	1.96	2.21
November	2.01	2.21
December	1.98	2.21
2022	2.04	2.22

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 (PW1).