

2024 SCHEDULE 22 SUMMARY REPORT

BAXTER
DISTRIBUTION SYSTEM



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

Prepared for the Corporation of the Township of Essa 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:	Baxter Distribution System
Drinking-Water System Owner:	The Corporation of the Township of Essa
Drinking-Water System Category:	Small 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 April 25, 2024 for the period covering May, 2023 to April, 2024. On August 2, 2024 the Inspection Report was issued. 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 Baxter Distribution System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

In 2017, Baxter Drinking Water System became a stand-alone distribution system receiving treated water from the Raymond A. Ultrafiltration Plant owned by the Town of Collingwood. Treated water is transported via a water transmission main (pipeline) that stretches from the Town of Collingwood to Alliston, in the Township of New Tecumseth.

The Township of Essa has an agreement with the Township of New Tecumseth to receive up to 350 m³/day (between January 1 and June 30, 2024) and up to 400 m³/day (between July 1 and December 31, 2024) from the pipeline to accommodate the new Baxter development and build-out. The balance of the 350 m³/day (between January 1 and June 30, 2024) and 400 m³/day (between July 1 and December 31, 2024) that was not taken by the Baxter DS was sent to the Mill Street Pumphouse in Angus, Ontario. Since treated water is supplied to the distribution system, Baxter DS does not have a Permit to Take Water, as it does not draw from a raw water source.

In September 2023, OCWA began preparing for the new Baxter Booster Station to come online, as part of pre-approved works to the system. On December 6, 2023, the old pumphouse on Marshall Avenue was decommissioned and the treated water from the pipeline began entering the newly commissioned Baxter Booster Station on Murphy Road in Baxter and in turn began conveying water to the distribution system.

The following tables (Table 3 and 4) summarize the quantities and flowrates of water received from the New Tecumseth Pipeline and then supplied to the Baxter Distribution System during the reporting period, including average and maximum day volumes as well as a comparison to the allowable takings approved in the system's approval, DWWP or MDWL.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	118-102 (Issue Number: 4)
Allowable Rated Capacity:	Not Applicable
Allowable Flowrate into Treatment System:	Not Applicable

The applicable MDWL does not contain an allowable rated capacity or allowable flowrate into the treatment system. Rated capacity is assessed based on the contractual agreement between the Township of Essa and the Township of New Tecumseth, which stipulates that the Baxter Distribution System may take up to 350 m³/day (between January 1 and June 30, 2024) and up to 400 m³/day (between July 1 and December 31, 2024) of treated water from the transmission pipeline.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to the New Tecumseth Pipeline Allowable Daily Takings and Total Volume for 2024

Timeframe	Average Daily Takings (m ³ /day)	Maximum Daily Takings (m ³ /day)	Total Volume Taken (m ³)
January	36.01	66.59	1,116.17
February	32.74	40.22	949.44
March	32.48	63.36	1,006.90
April	36.97	97.55	1,109.07
May	43.29	62.30	1,341.86
June	42.38	217.00	1271.53
July	52.17	211.00	1,617.21
August	51.27	158.26	1,589.31
September	85.84	195.82	2,575.14
October	56.69	243.82	1,757.23
November	69.74	100.92	2,022.41
December	96.65	149.68	2,996.07
2024	53.02	243.82	19,352.34

A review of flow information for the reporting period indicates that the Baxter distribution system operated within the allowable taking volume stipulated in the contract between the Township of Essa and the Township of New Tecumseth (350 m³/day (between January 1 and June 30, 2024) and up to 400 m³/day (between July 1 and December 31, 2024)).

2.2 Distribution Water

Table 4. Distribution Water Annual and Monthly Average and Total Flow for 2024

2024 Flow from the Baxter Pumphouse to the Distribution System		
Timeframe	Average Daily Flow (m ³ /day)	Total Flow (m ³ /day)
January	17.81	552.03
February	30.89	895.63
March	32.19	997.97
April	36.59	1,097.71
May	45.14	1,399.39
June	43.54	1,306.08
July	48.29	1,497.07
August	45.88	1,422.21
September	80.87	2,425.98
October	54.28	1,682.60

2024 Flow from the Baxter Pumphouse to the Distribution System		
Timeframe	Average Daily Flow (m³/day)	Total Flow (m³/day)
November	72.32	2,169.70
December	99.61	3,087.95
2024	50.64	18,534.32

The applicable MDWL and contact do not list a maximum allowable limit for flow or flowrate of water that flows into the distribution system.