

ATTACHMENT NO. 2

memo

WSE Consulting

To: Anthony Deonarin
From: Adam Wilson, P.Eng
CC: Spencer Hutchison
Date: April 1, 2026
Re: Water Consumption Lakeside Retreat
467 County Rd 19, Ameliasburgh



WSE has been retained to evaluate the water consumption of the subject property and availability of water from the Municipal system in support of a rezoning application for the property to change the use from seasonal to full year.

Required Flow

The property in its current condition has an ECA (#1324-B38JYW) for the sanitary systems within the property for a total daily rate of 46,775L. The below chart outlines the 3 systems identified in the ECA and the daily rates.

Sewage Works	Rated Capacity [Q] [Litres per day]	Serviced Facilities
C	9,150	Pool House Change Rooms
D	7,625	Cabins 1, 2, 3, 6, 7 & 8. Chapel Bldg.
F	30,000	Main Bldg., Cooks Cabin. Cottages 1-5, Cabins 4 & 5

The proposed rezoning will not require any changes to the daily rates outlined above. As such the maximum daily water supply is 46,775L (46.775m³)

Water Supply

The 2023 Water and Wastewater Services Operational Report for the Ameliasburgh Hamlet Water Distribution System was reviewed to evaluate the current demand on the system and the rated maximum capacity. Note: the 2023 report was the most current available through the Municipalities website. Based on our knowledge of the area no changes have occurred that would result in a change in the treatment plants function under the current 2026 condition.

The report indicates that the Permit to Take Water allows for a maximum of 360m³/day, with a 'raw' maximum taking of 75.95m³, and 52.38m³ as the daily average. This represents a usage of 21.1% maximum, and 14.6% average of the systems permitted capacity.

Assuming the rates from 2023 did not include any supply to the subject lands, adding the daily flow requirement of 46.775m³ to the current maximum of 75.95m³, the resulting daily maximum is 122.725m³ or 34.1% of the systems capacity.

The increase of water use from the subject lands is well within the rated capacity of the municipal supply.

Annual Flow Summary

As required by Schedule 22-2(3) 1., an annual flow summary for 2023 raw and treated water flows have been included for the Ameliasburgh Hamlet Water Treatment Plant. As follows:

Ameliasburgh DWS: Raw Water Flows 2023				
Month	Total Flow	Minimum Daily Flow	Average Daily Flow	Maximum Daily Flow
	m ³	m ³ /d	m ³ /d	m ³ /d
January	1697.59	49.26	56.59	63.09
February	1566.76	49.95	55.96	61.28
March	1731.09	46.17	55.84	63.67
April	1682.70	50.04	56.09	61.52
May	1825.32	49.47	58.88	75.95
June	1633.41	45.96	54.45	64.92
July	1650.27	42.54	53.23	73.95
August	1552.09	40.69	50.07	63.36
September	1398.81	38.71	46.63	57.72
October	1445.45	40.26	46.63	54.48
November	1459.10	38.91	48.64	60.29
December	1413.71	37.72	45.60	53.40
Annual	19056.30	37.72	52.38	75.95

Ameliasburgh DWS: Raw Water Flow Comparison		
Max Daily Water Taking Volume as per PTTW	360 m ³	% of Maximum
Actual Maximum Daily Water Taking	75.95 m ³	21.09 %
Actual Mean Daily Water Taking	52.38 m ³	14.55 %