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Meeting Date: February 27, 2020
File No.:



**To:** Chair and Members  
Lambton Area Water Supply System Joint Board of Management

**From:** Clinton Harper  
General Manager

**Subject:** Brooke-Alvinston Water Supply System Modifications

## Recommendation

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"That the LAWSS Joint Board of Management **RECEIVE** this report as information."

## Background:

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In June 2019, LAWSS staff was approached by a municipal representative of Brooke-Alvinston requesting that LAWSS enter into a conversation with Brooke-Alvinston aimed at allowing them to de-commission their pumping station reservoir. Brooke-Alvinston currently operates a reservoir pumping station and standpipe within the municipal subsystem. At a connection point on Old Walnut, LAWSS supply's potable water to the municipal system. Once through the meter point, potable water from LAWSS first fills a small reservoir at the old site of the Alvinston WTP, from there water is pumped into the standpipe.

Based on an agreed upon scope and criteria, Brooke-Alvinston hired AECOM to determine the impact the modification would have on LAWSS. AECOM concluded that under existing and future demand conditions water serviceability can be achieved without the Alvinston pumping station reservoir. They further advised that to prevent the standpipe from overfilling, a flow/pressure control valve would need to be installed to regulate water levels in the standpipe.

This information was presented to the LAWSS Board on December 5, 2019. The Board asked staff to provide further detail on how the modifications would impact LAWSS. The Board also requested a review of the service agreement between LAWSS and Brooke-Alvinston.

## Comments:

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### What is the affect on LAWSS?

The modifications that Brook-Alvinston are proposing will have no negative affect on LAWSS. Brooke-Alvinston is requesting to remove the 150m<sup>3</sup> reservoir from the Alvinston operation. The reservoir holds roughly 10% of the municipality's standpipe

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volume and does not represent a large variable in system operation. The modifications are expected to provide a minor but overall benefit to the Watford Subsystem. The benefit is reduced flow demand due to the Brook-Alvinston standpipe being filled over a much longer duration.

Brooke-Alvinston Standpipe Capacity	1544m <sup>3</sup>
Brooke-Alvinston Reservoir Storage Capacity	150m <sup>3</sup>
Current Brook-Alvinston Reservoir Fill Rate from Watford Subsystem:	25L/s
Resulting Brook-Alvinston Standpipe fill rate from Watford Subsystem	10L/s

#### Service Agreement Review Highlights In relation to the proposed modifications:

Attached is the Brooke-Alvinston and LAWSS service agreement. Highlight from the agreement are as follows:

5. All of the terms and conditions of this Agreement notwithstanding, it is expressly agreed and understood by the parties hereto that nothing herein contained creates any obligation, express or implied on LAWSS to supply water hereunder which, as determined by LAWSS, would not be in accordance with good engineering principals or practice, and without limiting the generality of the foregoing, nothing herein contained creates any obligation, express or implied on LAWSS to enlarge, extend, alter or modify their respective waterworks.
7. The initial daily maximum allowance to Brooke-Alvinston shall be 460 m<sup>3</sup> / day. Brooke-Alvinston shall monitor and adjust usage to remain within this limit. Should flows exceed 460 m<sup>3</sup> / day, Brooke-Alvinston shall immediately institute all reasonable measures to lower flows below 460 m<sup>3</sup>/ day.
8. LAWSS undertakes to:
  - a. Exercise all due care and diligence in carrying out the terms of this Agreement. As part of the consideration for this Agreement, Brooke-Alvinston agrees to indemnify LAWSS against any action which may be brought against it by reason of the supplying of water or any interruption, lack of continuity, or variation of pressure is a result of negligence on the part of LAWSS, its agents, servants or employees.
  - b. To notify Brooke-Alvinston as soon as possible of any planned interruption, lack of continuity or variation of pressure, and of any emergency situation which may arise and which would affect the obligations of LAWSS under this Agreement.

Under the current agreement LAWSS is obligated to provide water to Brooke-Alvinston up to 460m<sup>3</sup>/day.

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## Consultation:

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This report was prepared in consultation with representatives at GMSB, LAWSS-OCWA Operational Staff and OCWA staff with Brooke-Alvinston.

## Financial Implications:

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There are no financial implications to LAWSS. All costs associated with the modifications are at Brooke-Alvinston's expense.

The rate Brooke-Alvinston pays to LAWSS was reviewed in 2018 and is subject to annual CPI increases. Due to the non-impact of the modification to LAWSS, a review of this rate for possible increase is not being recommended.

This report was prepared by Clinton Harper, LAWSS General Manager

Attachment(s): Service Agreement between to Corporation of the Township of Brooke-Alvinston and Lambton Area Water Supply System.