



Staff Report

Report Title: Lucknow Well 5 Inspection

Prepared By: John Yungblut

Department: Public Works

Date: Mar. 1, 2021

Report Number: PW-2021-03-21

File Number: E08LUC 21

Attachments:

Recommendation:

That the Township of Huron-Kinloss Committee of the Whole hereby approves Report Number PW-2021-03-21, prepared by John Yungblut, Director of Public Works AND accepts the quotation from W.D. Hopper & Sons Ltd. in the amount of \$34,208.00 plus HST for the cleaning, inspection and testing of Lucknow Well 5 AND FURTHER grants an exemption from the Purchasing & Procurement Policy.

Background:

The well casing at Lucknow Well 5 located at 381 South Delhi Street in Lucknow is due for a cleaning and inspection. Township staff began discussing the scope of work that should be included in 2020 with our Operating Authority, Veolia Canada.

Discussion:

This project was scheduled to be completed in 2020, however, the scope of work has gone through several revisions before the current plan was agreed upon. The scope of work includes the following:

- Remove existing well pump and video inspect well casing
- Clean and brush well casing and video inspect to confirm cleaning was sufficient and evaluate the condition of the well casing
- Re-install pump with variable frequency drive (VFD) check valve and chlorinate well
- Perform 24-hour flow test projected to 3,200 m³/day

The items added to the scope includes some preparatory work for the planned installation of a VFD pump that will be designed to regulate pressure across the system if the standpipe needs to be taken off-line. The 24-hour flow test will provide

documentation to the Ministry of Environment, Conservation and Parks (MECP) that could increase the volume that can be produced in the Permit to Take Water (PTTW). The current permit limits the production at Well 5 to 1,500 m³/day, however it is capable of producing over 2,00 m³/day. The current peak usage is 1,400 m³/day, so there is currently very little water supply capacity available for future growth in Lucknow.

Township staff have been working on this plan for more than six months with Veolia Canada, our consulting engineers, our hydrogeologist and W.D. Hopper & Sons. There are some unknowns when estimating this work, such as the condition of the well casing and pump, so hiring a well driller with a track record of working on the wells in Lucknow is essential for the project to not end up considerably over budget. There is still a risk of this project exceeding our budget, but staff believe that this course of action, in lieu of an open bidding process, mitigates the risk as much as reasonably possible.

Financial Impacts:

The 2020 Capital Budget allocated \$25,000 for this project, however staff decided to defer until 2021. The proposed 2021 Capital Budget was increased to \$35,000 to include the additional work.

Strategic Alignment / Link:

We are a prosperous community that continues to grow in a sustainable manner by investing in infrastructure.

Respectfully Submitted By:

John Yungblut, Director of Public Works

Approved By:

Mary Rose Walden, Chief Administrative Officer