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

From: Clinton Harper
General Manager

Subject: WLPS Special Valve Project Update

Recommendation

It is recommended that the LAWSS Joint Board of Management increase the 2020 budget for the "WLPS 36" Ross Valve Project" to \$179,000 and that OCWA Engineering be directed to proceed to the tendering phase of the project.

Background:

The West Lambton Pumping Station is a booster pumping station located on Indian Road. It consists of pumping, above ground storage and re-chlorination equipment. The station is primarily used as an intermediate storage facility providing pressure stabilization and system redundancy.

A 36" backpressure sustaining valve is utilized in the station's operation. The existing valve is leaking and needs to be isolated and removed from the operation. Once removed, it can be rebuilt or replaced as necessary. A preliminary investigation was completed at the beginning of 2019 to explore how the valve could be isolated and to assist in developing an operational narrative for the temporary system configuration. The investigation revealed a failure with the isolation valve immediately upstream of the project target valve.

The original 36" backpressure sustaining valve project scope would have required heavy coordination with OCWA's operational staff. The isolation valve failure has further complicated this project. At staff's recommendation, OCWA Engineering group was hired to finalize the project scope, tender the project, provide project management and oversee final commissioning at the February 20, 2020 meeting of the LAWSS Joint Board of Management.

Comments:

On May 21, 2020 a proposal was presented to LAWSS staff that provided a recommended scope of work for this project. In the proposal it is recommended that

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LAWSS proceeds with the installation of a new 36" Singer single chamber diaphragm valve. The recommendation was reached by building a comparison between a rebuild of the existing Ross Valve against three new valves. The 36" Singer single chamber diaphragm valve is the clear choice in capital cost, suitably and maintainability standpoint.

The next phase of the project involves project tendering and contractor selection. With the Board's approval on the recommendations of this report, OCWA will be asked to proceed into the tendering Phase. A recommended contractor will be presented for Board approval at an upcoming regular meeting.

Consultation:

The LAWSS General Accountant and OCWA Operational Group were consulted in the development of this report.

Financial Implications:

The LAWSS Joint Board of Management provided a budget of \$70,000 in 2020 to complete this project. For the challenges indicated in the report the cost was expected to increase. This increase was indicated to the Board in February when OCWA Engineer Group was hired.

OCWA was provided a budgetary estimate of \$179,000 for the project. This price includes the \$25,600 previously approved for OCWA's role in the project and a 10% Contingency allowance.

This estimate is \$109,000 above the budgeted amount. If the recommendation is approved, funds will be transferred from reserve to cover the increased cost.

This report was prepared by Clinton Harper, LAWSS General Manager

Attachment(s): none