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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

Recommendation

"That the LAWSS Joint Board of Management **AUTHORIZE** OCWA Engineering Group to administer a specialized valve replacement project at West Lambton Pumping Station for the quoted amount of \$25,600 +taxes."

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.

Comments:

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. OCWA Engineering group provided a quote that includes:

1) All costs related to research and engineering necessary to establish project scope; Including recommendation for preferred replacement or rebuild method. Method selection should be geared towards long term reliability and ease of maintenance of the system. Consultation with LAWSS-OCWA to finalize project scope will be required.

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2) All costs related to creation of contract documents and project tendering as per OCWA procurement policies and procedures. This part will also include a recommendation based on the results of the tendering process.

3) All costs related to Project Management for duration of project including coordination of contractor and LAWSS-OCWA Operational staff to ensure no interruptions in system supply. As the project manager it will be expected that an OCWA Engineering representative, or a non-LAWSS-OCWA designate, will be on site with the contractor at all times.

4) Project close out complete with o/m documentation and training to LAWSS-OCWA operational staff if necessary.

Once the tendering process is complete, it is expected that a recommendation for a bidder will be provided to LAWSS staff. Final award of the project will be at the discretion of the LAWSS Board. The Board decision will be based on a future staff report detailing the project scope and results of the tendering process.

Consultation:

Local industry and the LAWSS-OCWA Operational Group were consulted in the development of this progress.

Financial Implications:

OCWA Engineering group has submitted a price of \$25,600 +taxes for the scope detailed above. Once the project has been tendered a report will be brought to the Board that will contain further details with respect to financial implications. A budget of \$75,000 was established for this project in 2019. Due to the change of scope, it can be expected that the total project cost will exceed what was originally budgeted. A conservative estimate of final project cost is in the \$150,000-\$175,000 range.

This report was prepared by Clinton Harper, LAWSS General Manager

Attachment(s): none