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RVA 173637

Municipality of West Elgin  
22413 Hoskins Line  
Rodney, ON N0L 2C0

**Attention: Magda Badura**  
**Acting CAO/Treasurer, Municipality of West Elgin**

Dear Magda:

**Re: West Lorne WPCP Upgrades – Additional Construction Budget**

As discussed at our meeting on 26 February 2020, the construction contingency included in the West Lorne Water Pollution Control Plant (WPCP) Upgrades contract has now been expended. The complete use of the contingency on this contract was a planned occurrence from the tender stage due to the necessity to fully utilize the budget available for upgrades to the plant. There remain a few critical items which should be replaced/upgraded to allow for proper operation of the facility that were not included in the current construction contract. RVA is herein providing a recommendation to complete these additional critical items with additional funding.

**BACKGROUND**

An original tender was prepared by RVA in Summer 2018 based on the necessary upgrades to the West Lorne WPCP; the lowest bid received was \$3.68M. This exceeded the amount of budget available from the Municipality, thus RVA was directed to revise the design to meet a construction budget of \$2.47M. This required a significant reduction in the scope of the project and prioritization of the proposed upgrades to reduce the cost by \$1.2M. The revised design that was prepared by RVA was tendered in Fall 2018 and the lowest bid received was \$2.28M. The tender recommendation letter provided by RVA suggested increasing the contingency in the contract by \$185,400 such that the construction contract meets the Municipality's construction budget of \$2.47M. This provided a total contingency of \$335,400 for the current construction contract.

Throughout construction, items which were in the original tender were added back into the project to fully utilize the Municipality's budget for these important upgrades. These were prioritized based on necessity since there is limited budget and all items could not be addressed. In addition, some unforeseen issues arose during construction due to the age and condition of the facility which required immediate repair under the contract budget. The result was quite successful: \$274,500 of the \$335,400 contingency has been utilized for scope re-additions and necessary upgrades which were added to the contract.



## REMAINING WORKS

Despite the \$274,500 in upgrades which were added back into the contract throughout construction, there is significant work remaining to be completed at the West Lorne WPCP which was part \$1.2M value of work that was removed from the original tender. There is also an issue which was discovered during construction regarding the condition of the existing buried blower piping. These works are summarized in the table below along with estimated capital costs.

RVA understands that the Municipality does not have additional budget for this project and that any additional funding would need to be financed. For these reasons, we have identified which of the remaining works are considered critical to the operation of the plant or to health and safety.

Item Description	Capital Budget Estimate	Critical (Y/N)
Influent and effluent sampler replacement	\$35,000	N
Replace existing alum pumps	\$25,000	N
New ATS including staging and commissioning	\$60,000	N
Fiber tie-in to both West Lorne and Rodney WPCPs and commissioning of SCADA network	\$75,000	N
Addition of bypass line from filters inlet to the lagoons	\$35,000	N
Conveyor/washer addition to bar screen	\$35,000	N
Replace raw sewage pumps	\$90,000	N
Install influent slide gate in screening channel	\$10,000	N
Workstation for Rodney WPCP	\$40,000	N
Replace existing buried blower piping and all couplings, temporary air provision and staging.	\$95,000	Y
Grating for screening channel	\$10,000	Y
Radar or ultrasonic level transmitter for screening controls	\$10,000	Y
TS analyzer on filter reject water	\$20,000	N
Addition of V-notch weir for accurate effluent flow measurement	\$7,500	Y

## **RECOMMENDED CAPITAL BUDGET**

Based on the chart above, RVA recommends providing additional budget of \$125,000 to address the outstanding critical issues under the current contract. The remaining items should be planned to be completed in the future years as budget is planned and available.

Yours truly,

**R. V. ANDERSON ASSOCIATES LIMITED**



Phil Spencer, P.Eng., M.E.Sc.  
Project Manager