

**Meeting date:** April 15, 2019  
**Department:** Engineering & Public Works  
**Prepared by:** George Elliott, P.Eng., Director of Engineering & Public Works  
**Reviewed by:** Greg McClinchey, Chief Administrative Officer  
Bill Dakin, Director of Financial Services  
**SUBJECT:** **Operational Optimization and Facility Needs Study  
Water and Wastewater Systems  
Report No. EPW 19-011**

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## **RECOMMENDATION:**

It is recommended:

1. That Council receive Report EPW 19-011 regarding the Operational Optimization and Facility Needs Study of the water and wastewater systems, and
2. That Council award a sole sourced contract to RV Anderson in the amount of \$19,200 plus HST, for the initial phase of the Operational Optimization and Facility Needs Study of water & wastewater systems, funded from the Capital Budget Projects including water capital reserve funding of \$25,000 and wastewater capital funding of \$40,000.

## **BACKGROUND**

Over the past year, staff have undertaken numerous efforts toward implementing preventative maintenance and continuous improvement programs. Starting in April 2018, Council provided additional funding for the clean-up and initial basic preventative measures. These were followed in October 2018 by a major repair of the aeration blower line at the Strathroy WWTP. Council had tours of the facilities on April 21<sup>st</sup> and on Oct 10<sup>th</sup> and 21<sup>st</sup> with the Council orientation sessions.

The next step in the continuous improvement process is to consider the full preventative maintenance and operational needs of the major facilities. This work will require a two phase optimization process with consultant experts to inspect and identify current operational and equipment needs followed by a detailed action plans.

Included in the 2019 Capital Budget are funding allocations for these operational optimization and facility needs review works for both the water and wastewater systems.

## COMMENTS

On October 15, 2018, Council received and approved a retainer structure for two consultants. RV Anderson Associates Ltd was identified as a resource to focus on the facilities infrastructure within the department.

In keeping with that initiative, staff contacted RV Anderson for assistance in determining the next steps for an Operational Optimization and Facility Needs Study. The two phase approach was identified and a sole sourced quotation for the initial phase of the works was obtained.

Two primary deliverables in the form of Technical Memos will be provided for a fee of \$19,200 plus HST. The first memo will provide the results of inspections and assessments of all of the facilities to compile a list of recommended upgrades including budget costs and timelines. The second memo will provide a calibrated water model identifying constraints and upgrade opportunities within the water system. Based on the technical memos, future capital programs can be developed to assist with the Long Range Financial Plan and Development Charges initiatives which are also underway this year. The phase two works will implement some of the upgrades and consider the operational changes needed to bring the wastewater facilities into full compliance with the provincial limits and objectives.

## FINANCIAL IMPLICATIONS

The 2019 Capital Budget contains the following two projects:

- |  |          |                    |
|--|----------|--------------------|
| • Wastewater Facilities Operational Optimization Study | \$40,000 | Wastewater Reserve |
| • Water Facilities Needs Review                        | \$25,000 | Water Reserve      |

The sole source proposal in the amount of \$19,200 plus HST will be funded from these two projects. The remaining funds will be used for the phase two works to implement operational changes and continue with the development of action plans and programs for future capital budgets.

## CONSULTATION

The preparation of this report and recommendation to award the work was done in consultation with:

- Chief Administrative Officer
- Director of Financial Services
- Manager of Environmental Services

## ATTACHMENTS

None.