
REPORT TO: Community & Infrastructure Services Committee

DATE OF MEETING: October 4, 2021

SUBMITTED BY: Gross, Hans, Director of Engineering Services, 519-741-2200 ext. 7410

PREPARED BY: Spere, Chris, Manager, Construction Engineering, 519-741-2200 ext. 7412

WARD(S) INVOLVED: Ward 4

DATE OF REPORT: August 25, 2021

REPORT NO.: DSD-2021-166

SUBJECT: Old Mill Sanitary Pumping Station – Consultant Contract Increase

RECOMMENDATION:

That the contract for MTE Consultants Inc. for engineering services related to the Old Mill Sanitary Pumping Station (OMSPS) be increased by \$282,700, funded by the development charge reserve fund.

REPORT HIGHLIGHTS:

- The purpose of this report is to increase the budget for a project that has had additional elements added to the consultant scope of work
- The financial implications are limited to an additional transfer from the development charges reserve fund, which is completely funded by growth.
- This report supports the delivery of core services.

BACKGROUND:

Old Mill Sanitary Pumping Station (OMSPS) is located in the south part of the city, on Old Mill Road adjacent to Willow Lake Park. The project is required to replace the existing sanitary pumping station with a new facility in order to accommodate the development of different parcels of developer-owned land. The OMSPS project was identified as a fully growth-related piece of infrastructure through previous development charges studies.

Approved tenders for the provision of supplying engineering services in relation to the completion of an Environmental Assessment, design, tendering, approval and contract administration/construction inspection for the OMSPS was publicly tendered by the City and was awarded to MTE Consultants Inc. at an upset limit of \$690,915.23.

REPORT:

MTE Consultant's scope of work for this project included the completion of a Schedule B Environmental Assessment, detailed design of a new/upgraded sanitary pumping station, tendering of the construction of the new station including the demolition of the old station,

and construction services (Contract Administration and Construction inspection). MTE began the detailed design for the replacement station in 2017 with anticipated construction beginning in 2019. Construction began in 2021 and is expected to be completed in 2022.

The original consultant terms of reference included preparation of a single construction tender. Through the design and subsequent geotechnical investigation, the soil conditions were found to require complex excavation including shoring to facilitate construction of new station. MTE was requested to prepare and complete a prequalification tender for the shoring portion of the construction. This work was not included in the original terms of reference.

MTE's fees were based on an anticipated 240 construction working days. The construction of this new station is complex due to the depth of the excavation, the need for shoring, extensive dewatering, overall sequencing of the construction of the new station, connection of linear infrastructure and the demolition of the existing station. Due to this complexity, the project was tendered to include 360 construction working days.

Dewatering of the high ground water table was anticipated and included in the tender. However, high dissolved iron content of the ground water caused issues with the quality of the dewatering discharge and necessitated additional testing and hydrogeological work be carried out by MTE during construction.

The Environmental Assessment identified the old pumping station location as a potential lookout. A record of site condition is required and it is cost effective to complete this work through one consultant versus retaining a separate consultant to do the work in parallel.

It is staff's recommendation that the additional costs for the OMSPS be funded by the development charge reserve fund. The reasons for the additional costs include:

- MTE was asked to complete a prequalification tender for the shoring contractor. This was not included in the original terms of reference
- MTE was asked to complete a Record of Site Condition for the existing pumping station site. This was not included in the original terms of reference
- The consultant terms of reference asked the consultants to provide pricing for construction services based on 240 working days of construction. This project was ultimately tendered with a duration of 360 construction days. Construction was initially planned for 2019 and was delayed.
- Issues with the quality exceedances of ground water discharge resulted in the need for additional water testing and efforts related to the hydro-geological portion of MTE's scope of work

STRATEGIC PLAN ALIGNMENT:

This report supports the delivery of core services.

FINANCIAL IMPLICATIONS:

The recommendation would result in a \$282,700 transfer from the Development Charges reserve fund to the Old Mill Sanitary Pumping Station (OMSPS) capital account. Prior to considering this transfer, the DC reserve fund is projected to end 2021 with a positive balance of over \$3M.

COMMUNITY ENGAGEMENT:

INFORM – This report has been posted to the City's website with the agenda in advance of the council / committee meeting.

PREVIOUS REPORTS/AUTHORITIES:

- FCS-17-090 – E17-048 Consultant Services – Old Mill Sanitary Sewer Pumping Station

APPROVED BY: Justin Readman, General Manager of Development Services