



WHISTLER

REPORT | ADMINISTRATIVE REPORT TO COUNCIL

PRESENTED: May 5, 2020

REPORT: 20-044

FROM: Infrastructure Services

FILE: E30101-2020

SUBJECT: CRABAPPLE DRIVE SEWER LIFT STATION UPGRADE PROJECT

COMMENT/RECOMMENDATION FROM THE CHIEF ADMINISTRATIVE OFFICER

That the recommendation of the General Manager of Infrastructure Services be endorsed.

RECOMMENDATION

That Council authorize the Mayor and Municipal Clerk to execute the contract for the 2020 Crabapple Drive Sewer Lift Station Upgrade project with Luxton Construction Inc. in the amount of \$696,980.00 (plus GST).

PURPOSE OF REPORT

Council Policy F-29: Procurement Policy and Administrative Procedure D-1: Procurement require Council approval for any contracts over the value of \$500,000. The purpose of this Report is to seek Council's approval for the contract award described below.

DISCUSSION

The scope of work included in this tender is a result of the sanitary sewer system assessment and prioritization of upgrade work for the sewer system as recommended by MJP Associates. MJP was hired in 2016 to complete the sewer system assessment and has since provided summary reports from their findings completed from 2016 to 2019.

It was reported by MJP Associates (report dated December 2017) that there is a significant amount of corrosion and concrete spalling in the Crabapple Drive sewer lift station wet well. The concrete spalling is a result of the hydrogen sulfide (H₂S) off-gassing that naturally occurs from wastewater. Measurements recorded show a maximum spalling depth of 29.7mm on the wet well walls which represents a loss of almost 15 per cent of the wall thickness.

The Crabapple Drive sewer lift station (RMOW Station ID No.S103) is one of our many sewer system components that pump untreated sewage from a low point in the gravity-flow system to a higher elevation in order to continue along the gravity-flow system to the waste water treatment plant. As sewage enters the wet well (holding sump) and the water level rises, pumps are engaged to pump out the sewage to a higher elevation to continue the gravity flow to the outlet point.

The scope of work included in the tender package for the Crabapple Drive sewer lift station includes an upgrade to the wet well, and mechanical and electrical components. The key component, and most expensive part of this upgrade is the installation of a hydrogen sulfide (H₂S) resistant liner in the wet well.

The Crabapple Drive sewer lift station upgrade work was previously awarded in September 2018 to Webbco Industrial Ltd. The work was partially completed when this vendor was released from this contract in April 2019.

In addition to the Crabapple Drive sewer lift station upgrade work in 2020, other work packages are being completed on the following sewer lift stations: Crabapple Drive (odour control), Spruce Grove, and Nicklaus North. These work packages include design work for upgrades planned on these three sewer lift stations for electrical, HVAC and odour control components. The upgrades on these three stations are planned for implementation in 2021.

WHISTLER 2020 ANALYSIS

W2020 Strategy	TOWARD Descriptions of success that resolution moves us toward	Comments
Finance	<ul style="list-style-type: none"> Whistler lives within its financial means The resort community effectively and efficiently balances its costs and expenditures The long-term consequences of decisions are carefully considered 	<p>The tendering process was competitive due to the large scope of work and number of responses: two bids were received from qualified bidders.</p> <p>Lessons learned from previous sewer lift station projects on other recently upgraded sewer lift stations was included in the tender package.</p>
Sanitary Sewer	Effectively manage sanitary sewer system for all areas including trunk main, collector system and waste water treatment plant.	Upgrades to sanitary sewer infrastructure will effectively manage fluctuating flows and reduce: infiltration, frequency of failures and need for repairs in the system.
Sanitary Sewer	With respect to sewer reserves, capital and long-term costs are managed in a financially prudent and fiscally responsible manner.	This project provides a more affordable approach to the RMOW's asset management rather than responding to emergency repairs and replacement call-outs that are often many times more expensive.

OTHER POLICY CONSIDERATIONS

None.

TENDER SUMMARY

The tender for the Crabapple Drive sewer lift station upgrade work was posted on BC Bid and the RMOW website from February 5 to March 9, 2020. Results of this tender are shown below in Table 1. The lower of the two bids received was submitted by Luxton Construction Inc.

Table 1.

TENDERER		TOTAL PRICE (EXCLUDING GST)
1	Luxton Construction Inc.	\$696,980.00
2	Merletti Construction Ltd.	\$897,750.00

BUDGET CONSIDERATIONS

Budget for this work is included in the 2020 sewer lift station capital upgrade program E301. The 2020 planned capital upgrades for sewer lift stations includes upgrades and design for the Crabapple Drive, Nicklaus North and Spruce Grove lift stations. Table 2 below shows the breakdown of the sewer lift station budgets for program E301 and the tender price for the Crabapple Drive sewer lift station work.

Table 2.

BUDGET CODE NUMBER & NAME	BUDGET AMOUNT	TENDER PRICE
E301-01 – Crabapple Drive (S103) Sewer Lift Station	\$1,400,000	\$696,980
E301-02 – Spruce Grove (S126) Sewer Lift Station	\$50,000 (design)	NA
E301-03 – Nicklaus North (S123) Sewer Lift Station	\$50,000 (design)	NA
Total 2020 Budget	\$1,500,000	\$696,980

The tendered price for the Crabapple Drive Sewer Lift Station Upgrade does not exceed the estimated budget for this portion of the work and staff recommend proceeding with this work as it falls within the overall project budget.

SAFETY CONSIDERATIONS

Luxton Construction, in addition to all RMOW vendors, will be following the recommended safety guidelines with respect to COVID-19 as set forth by the BC Provincial Health Officer and the BC Construction Safety Alliance. Their safe work procedures will be reviewed, approved and adjusted daily (as required) prior to starting work.

COMMUNITY ENGAGEMENT AND CONSULTATION

Project signs will be posted on site at the Crabapple Drive Sewer Lift Station. This project has minimal public exposure and all construction work will be completely contained on the station site.

SUMMARY

The Crabapple Drive sewer lift station upgrade work is specialized work including electrical and wet well repairs. The lower of the two bids received for this project was submitted by Luxton Construction Inc. This firm and their listed subcontractors, have presented good references and have many years of experience working in the civil construction industry. Their bid also met all the criteria identified in the tender package requested and it is expected they will be able to complete the work on schedule and within the allocated budget. Staff is recommending the award of the contract for the Crabapple Drive Sewer Lift Station upgrade to Luxton Construction Inc. in the amount of \$696,980.00 (plus GST).

Respectfully submitted,

Tammy Shore, P.Eng.
CAPITAL PROJECTS MANAGER

for
James Hallisey, P. Eng.
GENERAL MANAGER OF INFRASTRUCTURE SERVICES