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STAFF REPORT: Infrastructure and Public Works



REPORT TO: Council
MEETING DATE: 11 July 2016
REPORT NO.: CSPW.16.103
SUBJECT: Craigleith Wastewater Treatment Plant Clarifier Drive Arm Replacement
PREPARED BY: John Caswell, Manager of Water & Wastewater Services

A. Recommendations

THAT Council receive Staff Report CSPW.16.103 entitled “Craigleith Wastewater Treatment Plant Clarifier Drive Arm Replacement”;

AND THAT Council increase the 2016 Capital Budget to replace the existing Clarifier Drive main arm assemblies and sweep arms by \$9,690 from \$44,880 to \$54,570 to be funded from the Wastewater Asset Replacement Reserve Fund;

AND THAT Council increase Caldecott Millwright Services’ contract from \$44,880 to \$54,570 which includes \$7,690 to replace the existing Clarifier Drive main arm assemblies and sweep arms and a contingency of \$2,000.

B. Background

Caldecott Millwright Services (Caldecott) was retained by Town of The Blue Mountains (Town) to rehabilitate the existing Clarifier Drive at the Craigleith Wastewater Treatment Plant (Craigleith WWTP) at a total cost of \$44,880. The scope of work includes sandblasting and metal preparation, steel replacement and coatings and concrete repair as necessary.

During the course of the rehabilitation Caldecott determined that the drive’s main arm assemblies and sweep arms are badly deteriorated. Initially, Caldecott was to “sandblast all rusted steel connected to sweep arm and drive assembly” including recoating, as per 2016-21-Q-IPW specifications. Caldecott estimates that the arms, sandblasted and recoated will have a life expectancy of 5 years. Given the cost to replace the components entirely it would be more cost effective to replace the components at this time while Caldecott completes various other rehabilitation work on the Clarifier Drive. The proposed replacement is stainless steel main arm assemblies and sweep arms.

Caldecott quoted this work at \$7,690 excluding HST which includes stainless steel components, torsion arms and channels. Staff are requesting a \$2,000 contingency as the extent of deterioration on some metal parts cannot be assessed until further sandblasting is conducted. This work will be funded from the Wastewater Asset Replacement Reserve Fund and in the future, Staff will ensure an adequate contingency allowance is included in similar projects to absorb unforeseen costs.

Staff recommends that Council increase the 2016 Capital Budget to replace the existing Clarifier Drive main arm assemblies and sweep arms by \$9,690 from \$44,880 to \$54,570 to be funded from the Wastewater Asset Replacement Reserve Fund. Staff also recommend that Council increase Caldecott Millwright Services' contract from \$44,880 to \$54,570 which includes \$7,690 to replace the existing Clarifier Drive main arm assemblies and sweep arms and a contingency of \$2,000.

C. The Blue Mountains' Strategic Plan

Replacing the Clarifier Drive's main arm and sweep arm furthers Goal #5 – "Ensure that our infrastructure is sustainable".

D. Environmental Impacts

The existing main arm assemblies and sweep arms will be disposed of in an environmentally sensitive manner. Replacing this equipment ensures that the Craighleith WWTP continues to produce a high quality effluent with minimal impact on the receiving body of water.

E. Financial Impact

Funding for the replacement main arm assemblies and sweep arms will be sourced from the Wastewater Asset Replacement Reserve Fund.

F. In Consultation With

Sam Dinsmore, Deputy Treasurer/Manager of Accounting & Budgets

G. Attached

None.

Respectfully submitted,

John Caswell

John Caswell, Manager of Water &
Wastewater Services

Reg Russwurm

Reg Russwurm, MBA, P.Eng
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