



CITY OF
Pitt Meadows
The *Natural* Place

Staff Report to Council

Engineering & Operations

FILE: 05-1855-01/18

DATE: April 18, 2019

Date of Meeting – April 30, 2019

TO: Mayor and Council

FROM: Samantha Maki, Director of Engineering & Operations

SUBJECT: UBCM Asset Management Planning Program – Water Condition Assessment Application

RECOMMENDATION(S): THAT Council:

- A. Approve an application to the UBCM Asset Management Planning Program in the amount of \$15,000 for the purpose of enhancing the City's Asset Management program by determining the condition of the water main infrastructure and confirm commitment of City staff to provide overall grant management; OR
- B. Other.

CHIEF ADMINISTRATIVE OFFICER COMMENT/RECOMMENDATION:

PURPOSE

To inform Council of the Water Condition Assessment capital project and obtain approval and support for the UBCM Assessment Management Planning Program grant application. A resolution of Council's approval and support is required as part of the grant application.

The application deadline for this UBCM grant is May 3, 2019.

☐ Information Report

☐ Direction Report

☒ Decision Report

DISCUSSION

Background:

The City's current Asset Management Plan relies on the age of the infrastructure. This project is intending to enhance the City's asset management program, as recommended by the Asset Management Plan, by determining the actual condition of the water main infrastructure including water main sampling extraction for corrosion and strength testing, soil sampling and other areas of interest.

Relevant Policy, Bylaw or Legislation:

Not applicable

Analysis:

The assessment would sample existing water mains at select locations to give a better representation of water mains' actual condition. The locations selected would be based on factors such as: material types, break histories, poor soils, and other areas of interest. Careful location selection will help ensure a broad range of data is obtained in order to provide a representative analysis of the City's water main infrastructure. The extracted water mains would be strength tested and the soils at sample extraction locations would be tested for corrosivity. The scope of the work includes 8 extraction points; however the City will look at obtaining additional samples from areas already opened up due to capital works projects to increase the sample size.

The sample data will be used to estimate the remaining useful life of the water main and generally used to calibrate the lifecycle for each material type and/or area. The results of the condition assessment will be used to enhance the City's Asset Management Program and allow the City to better prioritize future capital projects.

COUNCIL STRATEGIC PLAN ALIGNMENT

- ☐ Corporate Excellence ☐ Economic Prosperity ☐ Community Livability
- ☒ Transportation & Infrastructure ☐ Not Applicable

This project results in actively planning for replacement of the City's water infrastructure.

FINANCIAL IMPLICATIONS

- ☐ None ☒ Budget Previously Approved
- ☐ Other ☐ Referral to Business Planning

The \$75,000 Water Condition Assessment project was approved by Council during 2018 business planning with \$15,000 being fund from the UBCM Asset Management Planning Program (the maximum

available) and \$60,000 being funded by the Water Capital Reserve. This project has been carried over into 2019.

PUBLIC PARTICIPATION

☒ Inform ☐ Consult ☐ Involve ☐ Collaborate ☐ Empower

KATZIE FIRST NATION CONSIDERATIONS

Referral ☐ Yes ☒ No

SIGN-OFFS

Written by:

Reviewed by:

S. Maki, Director of Engineering & Operations

C. Harding, Director of Financial Services
