

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 17, 2018
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	CONTRACT AWARD: 2018 WATERMAIN CLEANING AND STRUCTURAL LINING TENDER NO 16-105

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the award of contract for the 2018 Watermain Cleaning and Structural Lining Project:

- (a) the bid submitted by Aquarehab (Canada) Inc., 2145 Michelin Street, Laval, Quebec, Canada, H7L 5B8, at its tendered price of \$5,054,469.31 (excluding H.S.T.), for the 2018 Watermain Cleaning and Structural Lining program, **BE ACCEPTED**; it being noted that this is the second year of a three year contract submitted by Aquarehab (Canada) Inc. and where unit prices were carried over from the original tendered contract plus a two percent increase as stipulated in the original contract. The original bid submitted by Aquarehab (Canada) Inc. in 2017 was the lower of two bids received. The City has the sole discretion to renew the contract based on price and performance;
- (b) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- (d) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract or issuing a purchase order for the material to be supplied and the work to be done relating to this project (Tender 16-105); and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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- [CONTRACT AWARD: 2017 WATERMAIN CLEANING AND STRUCTURAL LINING TENDER NO 16-105, March 7, 2017 Civic Works Committee, Agenda Item #7](#)

2015-2019 STRATEGIC PLAN

This report supports the Strategic Plan in the following area:

- Building a Sustainable City: robust infrastructure; Manage and improve water infrastructure and services.

BACKGROUND

Purpose

This report recommends the award of Tender No. 16-105 to undertake watermain cleaning and structural re-lining as shown on the location map in Appendix B.

Context

Since 1989, the City has been rehabilitating watermains using innovative trenchless technologies which include cement mortar lining and, more recently, structural lining. These methods allow the City to eliminate water quality problems (red/rusty looking water), improve fire flows, gain additional years of life from the mains and delay the need for full replacement reconstruction projects which are both expensive and socially disruptive. The aesthetic water quality in these rehabilitated watermains is dramatically improved.

DISCUSSION

Over the last several years, there has been a shift in focus to structural lining, concentrating on areas of the City where there are no lead services, no other current infrastructure replacement needs (i.e. roads or sewers), and a high frequency of main breaks on cast iron watermains. In areas where structural lining has been performed, the occurrence of watermain breaks has dropped to zero in most cases. Structural lining also extends the life of watermains by 50 years or more and when done on watermains that meet the criteria above, costs 40-50% lower than traditional open-cut watermain replacement. In general, trenchless technologies, such as structural lining, have substantially lower social and environmental impacts when compared to traditional open-cut techniques.

The current project involves the cleaning and structural lining of approximately seven kilometers of watermain on Marconi Boulevard, Noel Avenue, Bow Street, Bancroft Place, Hudson Drive, Tremont Road, Holgate Road, Admiral Drive, Kipling Avenue, Kipling Court, Toulon Crescent, Talavera Crescent, Villeneuve Crescent, Royal Crescent, Garland Crescent, Castle Drive and Buchan Drive.

The work is scheduled to take one hundred and thirty (130) working days to substantially complete and will start this spring, following approval of this report.

A project location map is attached as Appendix B for reference.

Tender Summary:

The Tender total for the 2018 Watermain Cleaning and Structural Lining Program is \$5,054,469.31 (exclusive of H.S.T.). This includes a contingency allowance of \$500,000.00 (excluding HST).

CONCLUSIONS

Award of this contract to Aquarehab (Canada) Inc. is consistent with the three-year contract award undertaken in 2017. The work in 2018 will be the second year of a three-year contract. Undertaking this structural lining work allows the City to achieve the objective of rehabilitating water infrastructure which has been subject to breaks. It is in the best financial and technical interests of the City to proceed with the award of this contract for Watermain Cleaning and Structural Lining.

Acknowledgements

This report was prepared within the Water Engineering Division by Dave Chromczak, Technologist.

PREPARED BY:	REVIEWED & CONCURRED BY:
AARON ROZENTALS, P. ENG. DIVISION MANAGER WATER ENGINEERING DIVISION ENVIRONMENTAL AND ENGINEERING SERVICES	SCOTT MATHERS, MPA, P. ENG DIRECTOR WATER & WASTEWATER ENVIRONMENTAL AND ENGINEERING SERVICES
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

Attach: Appendix "A" – Sources of Financing
Appendix "B" – Location Map

c.c. Aquarehab Inc
John Freeman
Gary McDonald
Alan Dunbar
Jason Davies