

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P.Eng., MBA, FEC
Deputy City Manager, Environment and Infrastructure

Subject: Appointment of Consulting Engineer for Trunk Watermain
and Pumping Station Growth Study

Date: November 2, 2021

Recommendation

That, on the recommendation of the Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the Appointment of Consulting Engineer for RFP 21-62 Trunk Watermain and Pumping Station Growth Study:

- a) C3 Water Inc. **BE APPOINTED** Consulting Engineers to complete the Trunk Watermain and Pumping Station Growth Study, in the total amount of \$235,092.64 including contingency, excluding HST;
- 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 work;
- d) the approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the project; and,
- e) the Mayor and the City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

Purpose

This report recommends the appointment of C3 Water Inc. to provide consulting engineering services to undertake the Trunk Watermain and Pumping Station Growth Study.

Context

The Trunk Watermain and Pumping Station Growth Study will focus on optimizing and accommodating growth in the Uplands high-level pressure zone in the north of the city as well as the entire low-level pressure system which services the majority of the City. Optimizing these pressure zones reduces operational costs by using the most appropriate operating strategies based on water quality and demands, which ultimately increases pump efficiency, lowers electrical costs and extends the assets' useful lives.

Linkage to the Corporate Strategic Plan

This recommendation supports the following 2019-2023 Strategic Plan areas of focus:

- Leading in Public Service:
 - Trusted, open, and accountable in service of our community;
 - Exceptional and valued customer service; and
 - Leader in public service as an employer, a steward of public funds, and an innovator of service.
- Building a Sustainable City:

- London's infrastructure is built, maintained, and operated to meet the long-term needs of our community.
- Growth and development is well planned and sustainable over the long term.

Analysis

1.0 Background Information

1.1 Previous Reports Related to this Matter

Civic Works Committee – August 25, 2020 – South and West London Servicing Study

2.0 Discussion and Considerations

2.1 Work Description

In order to distribute water to the City of London's customers at the pressures required by both the Ministry of the Environment, Conservation and Parks (MECP) and the City of London Design Standards, multiple high-level pressure zones function alongside the low-level pressure zone. The City of London is currently completing the South and West London Servicing Study. The study area for this work includes the Southeast Pressure Zone, Springbank/Westmount/Pond Mills Pressure Zone, Wickerson Pressure Zone and Hyde Park Pressure Zone. The Trunk Watermain and Pumping Station Growth Study will examine the remainder of the water distribution system in the City of London that the South and West London Servicing Study did not include, which consists of the Uplands high-level pressure zone in the north of the city as well as the entire low-level pressure system which services the majority of the City. This study will:

- Update water demand projections of study areas based on the most up to date information available;
- Make recommendations to the timing and need for the Development Charge projects listed in previous reports and Master Plans;
- Implement in field monitoring and analysis to optimize operational strategies;
- Perform a hydraulic model upgrade, update, and calibration; and
- Develop operating strategies and work plans to proactively prepare for water system changes.

2.2 Procurement Process

The 2019 DC Study and multi-year budget identifies two major servicing studies to be carried out to cover different areas of the City. Due to the similar nature of these two projects, the engineering consultant selection procedure is utilizing a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, subsequently approved by Council June 12, 2018. This two-stage grouped procurement process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy. The first study, the South and West London Servicing Study was awarded through a Request for Proposal (RFP) process in summer 2020.

In August of 2021, the RFP for the second study, Trunk Watermain and Pumping Station Growth Study, was sent to the three consultants, and three proposals were received at the RFP closing.

The City's evaluation team determined that the proposal provided by C3 Water Inc. provided the best value. C3 Water Inc. has extensive experience with this type of work and a good understanding of how our water system operates. Budget and schedule efficiencies can also be leveraged from the Consultant having worked on the previous study. They captured the full project scope in their proposal including all provisional items. C3 Water Inc.'s fees were within the budget for the project. Overall, their proposal met all key project requirements, and their staff are qualified to undertake the required engineering services.

3.0 Financial Impact/Considerations

3.1 Consulting Engineering Services

C3 Water Inc. submitted a proposal for \$235,092.64, including \$17,288.51 contingency, excluding H.S.T.

C3 Water Inc.'s fees are within the budget for the project. Overall, their proposal met all the key project requirements, and their staff are qualified to undertake the required engineering services.

In accordance with Section 15.2 (e) of the City of London's Procurement of Goods and Services Policy, civic administration is recommending that C3 Water Inc. be awarded a contract to carry out the Trunk Watermain and Pumping Station Growth Study.

Conclusion

The proposed consulting team, C3 Water Inc., has extensive experience with similar work and is well qualified to undertake the required engineering services. Based on the review by the evaluation team, it is determined that retaining C3 Water Inc. is in the best financial and technical interests of the City. It is recommended that C3 Water Inc. be awarded this consulting assignment to undertake all tasks related to the Trunk Watermain and Pumping Station Growth Study.

Prepared by: Aaron Rozentals, P.Eng., GDPA
Division Manager, Water Engineering

Submitted by: Scott Mathers, MPA, P.Eng.
Director, Water, Wastewater and Stormwater

Recommended by: Kelly Scherr, P. Eng., MBA, FEC
Deputy City Manager, Environment and Infrastructure

cc: Stephen Romano – Environmental Services Engineer, Water Engineering
John Freeman – Manager, Purchasing & Supply
Chris Ginty – Procurement Officer, Purchasing & Supply
Gary McDonald – Budget Analyst, Finance & Corporate Services
John Simon – Division Manager, Water Operations
Alan Dunbar - Manager, Financial Planning & Policy
Jason Davies - Manager, Financial Planning & Policy
Samuel Ziemann – Vice President, C3 Water Inc.

Appendix 'A' – Sources of Financing

Appendix "A"

#21173

November 2, 2021

(Appoint Consulting Engineer)

Chair and Members

Civic Works Committee

RE: Trunk Watermain and Pumping Station Growth Study

(Subledger FS210003)

Capital Project EW3314 - Trunk Watermain and Pumping Station Growth Study

C3 Water Inc. - \$235,092.64 (excluding HST)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing for this project is:

Estimated Expenditures	Approved Budget	This Submission	Balance for Future Work
Engineering	512,000	239,230	272,770
Total Expenditures	\$512,000	\$239,230	\$272,770
Sources of Financing			
Drawdown from City Services - Water Reserve Fund (Development Charges) (Note: 1)	512,000	239,230	272,770
Total Financing	\$512,000	\$239,230	\$272,770

Financial Note:

Contract Price	\$235,093
Add: HST @13%	30,562
Total Contract Price Including Taxes	265,655
Less: HST Rebate	-26,425
Net Contract Price	\$239,230

Note 1: Development charges have been utilized in accordance with the underlying legislation and the approved 2019 Development Charges Background Study and the 2021 Development Charges Background Study Update.

Jason Davies
Manager of Financial Planning & Policy

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