

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JANUARY 8, 2019
FROM:	KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	GREENWAY SLUDGE TANK MIXING SYSTEM PRE-PURCHASE

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the Greenway Wastewater Treatment Plant (WWTP) Sludge Tank Mixing System Purchase:

- (a) The bid submitted by John Brooks Company Ltd. in the amount of \$245,584.00 (excluding HST) **BE APPROVED** in accordance with Section 12.2(b) of the City of London's Procurement of Goods and Services Policy;
- (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; and
- (d) 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

CWC report of 2016-10-04, Infrastructure Canada Phase 1-Project Requests- Clean Water and Wastewater Fund

2015-2019 STRATEGIC PLAN

This project supports the Wastewater Business Plan and the Strategic Plan with respect to building a sustainable city and robust infrastructure through optimization of existing resources for wastewater treatment plant performance enhancement.

BACKGROUND

Purpose

The purpose of this report is to recommend the award of a purchase order for supply and delivery of two new Vaughan hydraulic mixing systems for the Greenway Wastewater Treatment Plant (WWTP) to John Brooks Company Ltd. (John Brooks).

Context

Thickened sludge at Greenway WWTP is stored in two above-ground storage tanks and the contents of these tanks require constant mixing. Hydraulic mixing is an upgrade intended to improve mixing and reliability.

DISCUSSION

Biosolids thickening at the City's wastewater treatment plants takes sludge from the sewage treatment process and thickens it from approximately 0.5% solids to over 5% solids by removing a portion of the water. This thickened sludge is stored in above-ground tanks at Greenway WWTP prior to further dewatering by centrifuges and subsequent incineration. Reducing the water in the sludge reduces the natural gas required by the incinerator to burn the sludge thereby reducing energy costs.

Solids management at the City's plants and pumping stations was one of many Clean Water and Wastewater Fund (CWWF) projects proposed and approved. The Clean Water and Wastewater Fund provides the opportunity to purchase equipment for this important upgrade at a fraction of the cost it would have without the funding. Installation will occur under a separate contract.

Procurement Process

Because of variability across different manufacturers with respect to technology, mixing strategies, materials of construction, etc. it was determined that a Request for Proposals (RFP) was the appropriate means by which to select a preferred supplier for the mixing systems. RFP 18-38 was subsequently issued.

Seven Proponents submitted proposals in response to the RFP. An evaluation team, made up of representatives from the Wastewater Treatment Operations and Purchasing & Supply, reviewed all proposals and the proposal from John Brooks for the supply of Vaughan mixing systems received the highest score. It should be noted that the John Brooks proposal was not the lowest purchase price, but the equipment proposed provided technical benefits and the lowest overall cost of ownership versus the other shortlisted Proponents and therefore achieved the highest score and offered the Best Value.

The price of \$245,584.00 (excluding HST) compares favourably with preliminary estimates. The equipment proposed is perceived to be of a high quality, and the City has had good experience with Vaughan pumps in other locations. Delivery times proposed are compatible with the overall CWWF funding schedule. There are sufficient funds in the CWWF capital account for this purchase.

CONCLUSIONS

Civic Administration have reviewed the submitted proposals and recommend that John Brooks Company Ltd. be awarded a purchase order to supply and deliver the proposed hydraulic mixing system equipment packages, as per their proposal in response to RFP18-38.

Acknowledgements

This report was prepared with the assistance of Kirby Oudekerk, P.Eng., Environmental Services Engineer in the Wastewater Treatment Operations Division.

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

Attach: Appendix 'A' – Sources of Financing

Cc: John Freeman – City of London
Alan Dunbar – City of London
Jason Davies – City of London
Michele Shears – City of London
Chris Ginty – City of London