

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING OF NOVEMBER 29, 2016
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT	APPOINTMENT OF CONSULTANTS – CLEAN WATER AND WASTEWATER FUND PROJECTS

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of Consulting Engineers for projects applied for under Phase 1 of the Clean Water and Wastewater Fund (CWWF):

- (a) The following Consulting Engineering firms **BE APPOINTED** for the following studies, design and contract administration services, at the upset amounts identified below, including contingency and exclusive of HST, in accordance with the estimate on file, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 g) of the City of London's Procurement of Goods and Services Policy:
- (i) Waste Heat Recovery Systems at Greenway WWTP: GHD Canada, in the amount of \$900,000;
 - (ii) East London Sanitary Servicing Study: CH2M Canada in the amount of \$300,000;
 - (iii) Vauxhall WWTP Climate Change Resiliency – Wastewater Effluent Pumping Station Design and Contract Administration: AECOM Canada, in the amount of \$310,000;
 - (iv) Vauxhall WWTP Climate Change Resiliency – Design and Contract Administration for a Plant Floodwall: Dillon Consulting in the amount of \$310,000; and,
 - (v) Various Pumping Station Electrical Upgrades and Variable Frequency Drive Replacements and Greenway Turbo Blower Electrical Upgrades: Stantec Consulting Ltd. in the amount of \$215,204;
 - (vi) SCADA Software version upgrades at various Water and Wastewater facilities: Eramosa Engineering Ltd. In the amount of \$477,000.
- (b) the financing for the engineering services identified in (a), above, **BE APPROVED** in accordance with 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 each Consultant for the respective project; 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

- Infrastructure Canada Phase 1 Project Requests Clean Water and Wastewater Fund – Civic Works – October 4, 2016
- Single Source Purchase of Turbo Blowers For The Greenway Wastewater Plant-Civic Works-August 22, 2016
- Advancing a 760kW Renewable Energy Project At the Greenway Wastewater Plant-Civic Works -- July 18, 2016
- Optimization of London Wastewater Treatment Plants -- A Strategy and Roadmap -- Civic Works -- September 22, 2014

2015-19 STRATEGIC PLAN

The following report supports the Strategic Plan through a focus on Building a Sustainable City by addressing and managing our infrastructure gap, managing and improving services, and funding Climate Change adaptation.

BACKGROUND

Purpose

The Phase 1 CWWF criteria stipulates that projects under the fund must be completed by March, 2018. This report is to award consulting engineering assignments for anticipated projects that will allow the City to fully utilize this important opportunity to improve City infrastructure with funding from the provincial and federal governments.

Context

A number of CWWF projects require initiation in the form of engineering assignments to meet the funding program's March 2018 Phase 1 completion deadline. Completing them on time is critical to maximizing the 75% cost recovery available in the program.

Discussion

The projects recommended for design and contract administration services in this report have been applied for under the CWWF program because they meet the technical criteria and represent an acceleration of planned projects or are new projects:

- i. Waste Heat Recovery Systems at Greenway WWTP: consulting services are required for design and contract administration for an Organic Rankine Cycle System to generate electricity from waste heat;
- ii. East London Sanitary Servicing Study: the consultant will study how to service future flows in the Pottersburg and Vauxhall WWTP catchment areas with consideration of current asset conditions and constraints on future plant expansions. The opportunity to consolidate treatment on one site when these plants reach the end of their service life or are unable to meet future regulatory requirements will also be evaluated.
- iii. Vauxhall WWTP Climate Change Resiliency: consulting services include design and contract administration for a new plant effluent pumping station to ensure full treatment capacity is maintained during high river conditions.

- iv. Vauxhall WWTP Climate Change Resiliency: consulting services are required to design and provide contract administration for a floodwall, or similar type structure to protect the plant from high river levels;
- v. Various Pumping Station Electrical Upgrades and Variable Frequency Drive Replacements, and Greenway Turbo Blower Electrical Upgrades: consulting services will provide design, contract administration and SCADA integration for these upgrades; and,
- vi. SCADA Software version upgrades at various Water and Wastewater facilities: Provide consulting services to complete SCADA graphic updates to match new software version and standards.

In each case, the recommended consultant is in a unique position to deliver the services required due to their previous work on the project or their experience with the particular infrastructure and site. It is to the financial advantage to the City to use these firms due to their specific knowledge of the project and / or they have undertaken work for which duplication would be required if another firm were to be selected.

Acceleration strategies for other anticipated CWWF projects are under development and will be the subject of future reports.

Acknowledgements

This report was prepared with the help of Kirby Oudekerk, P.Eng. Environmental Services Engineer and Mark Spitzig, ASCT. Operations Manager, both of the Wastewater Treatment Operations Division

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

Attach: Appendix "A" – Sources of Financing

cc:

- GHD Canada Ltd, 11 Allstate Parkway Suite 310 Markham Ontario L3R 9T8
- AECOM Canada Ltd, 410 – 250 York Street, Citi Plaza, N6A 6K2
- Dillon Consulting Ltd, 130 Dufferin Avenue, London, ON N6A 5R2
- Stantec Consulting Ltd, 171 Queens Ave, London, ON N6A 5J7