

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MONDAY, JULY 17, 2017
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEER DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES POTTERSBURG-VAUXHALL WASTEWATER TREATMENT PLANTS INTERCONNECTION PROJECT

RECOMMENDATION

That, on the recommendation of the Managing Director of Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the assignment of consulting services for the design and construction administration for the Pottersburg – Vauxhall Interconnection project:

- a) AECOM Canada Ltd. **BE APPOINTED** Consulting Engineers in the amount of \$479,956.35, including 20% contingency, excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 (e) of the City of London's Procurement of Goods and Services Policy;
- b) the financing for the project **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 project;
- d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract; 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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- Civic Works Committee – November 3, 2015 – Appointment of Consultant – Master Plan/Municipal Class EA for the Pottersburg-Vauxhall Interconnect
- Civic Works Committee - September 22, 2014 - Optimization of London Wastewater Treatment Plants: A Strategy and Roadmap

2015-19 STRATEGIC PLAN

The 2015-2019 Strategic Plan identifies this objective under Building a Sustainable City: 1B – Manage and improve our water, wastewater and stormwater infrastructure and services.

BACKGROUND

Purpose

The purpose of this report is to seek Council Approval to award AECOM Canada Ltd. (AECOM) a contract for consulting services for design and construction administration for the Pottersburg-Vauxhall Interconnection Project, based on the results of a two-stage procurement process which included an Expression of Interest (EOI) and Request for Proposal (RFP) process.

Context

The Pottersburg and Vauxhall Wastewater Treatment Plants are located in east London. Current assessments have identified capacity limitations at Pottersburg and the potential for additional capacity at the Vauxhall plant. Consolidating the two sewersheds through the interconnection will allow for development in both sewersheds while optimizing plant capacity.

DISCUSSION

The Pottersburg and Vauxhall Wastewater Treatment Plants are located in east London. They service adjacent sanitary service areas with a total rated treatment capacity of 60 megalitres per day. The Pottersburg sewershed contains key industrial development areas around the airport and the area of Veteran's Memorial Parkway and Highway 401. In contrast, the Vauxhall sewershed is largely built-out with limited growth expected in the future.

Current assessments have identified capacity limitations at Pottersburg and the potential for additional capacity at the Vauxhall plant. Consolidating the two sewersheds through the interconnection will allow for development in both sewersheds while optimizing plant capacity. It will also provide flexibility to refurbish and upgrade both plants as needed.

Previously, AECOM was retained to complete a Master Plan/Class EA Study (Class EA) to evaluate various servicing strategies that would allow for the transfer of flows between the two WWTP's. The final EA study titled "Treatment Optimization of the Vauxhall and Pottersburg Sewersheds Municipal Class EA Master Plan" identified a preferred servicing strategy that would provide permanent forcemain infrastructure for the transmission of flows between the two WWTP's. The Class EA confirmed the expected benefits of providing for such permanent infrastructure, which include:

- Utilizing available capacity at Vauxhall WWTP to allow for additional development in the Pottersburg WWTP sewershed without costly upgrades to that plant;
- Maximizing the wet weather treatment capacity between the two plants;
- The ability for individual treatment trains at either plant to be taken offline for maintenance or upgrade activities without impacting wastewater treatment operations;
- The consolidation of dewatering facilities at the Pottersburg plant which will simplify truck haulage and reduce tanker traffic through the residential area around the Vauxhall plant.

The Class EA study also identified a preferred routing option for the location of the interconnecting forcemains between the two WWTP's. The preferred routing option for

the forcemains is shown on the map in Appendix 'B', and includes utilizing a combination of road right-of-ways and existing parkland.

The project will be completed in two phases. Phase 1 will include the installation of two 450 mm to 600 mm diameter pipes for transferring raw sewage flows and a third 150 mm diameter pipe for transferring biosolids. The forcemains will be approximately 2.3 km long. Valve chambers and other elements required to allow for the transfer between facilities will also be completed in this phase.

Phase 2, to be completed at a later date, will include construction of pump station(s) and equalization tank(s) at each facility. The ultimate servicing strategy is being evaluated through other Municipal Class EAs, and the results of those studies will inform the placement, need and timing for each element.

Procurement Process

A two-stage procurement process that included an open Request for Expression of Interest (EOI) was undertaken to assess the interest and qualifications of engineering consultants for the design and construction administration services. Based on the review of the eight (8) submissions received, four firms were invited to submit detailed proposals in response to the City's Request for Proposal (RFP): RFP #17-09. The consulting firms invited to submit proposals were:

- AECOM Canada Ltd.,
- CH2M HILL Canada Limited,
- Stantec Consulting Ltd., and
- WSP Canada Inc.

All four firms submitted proposals. The submissions were reviewed by staff from Wastewater Treatment Operations and Purchasing and Supply to ensure compliance with the City's Procurement of Goods and Services Policy. All four proposals met the City's requirements for submission acceptance, and were evaluated via a weighted scoring system by the review team. The proposal from AECOM scored the highest based on the combined score.

Project Schedule

The detailed design portion of this project will carry through the remainder of 2017 and into 2018 with tendering of the work expected in February 2018. Construction is anticipated to begin in spring 2018 with substantial completion near the end of 2018.

CONCLUSIONS

AECOM received the highest score through an EOI and RFP selection process for the design and construction administration services for the Pottersburg – Vauxhall interconnection. AECOM has shown their competency and expertise with infrastructure projects of this type and have provided good performance in the past on City projects. It is recommended that AECOM be awarded this assignment.

Acknowledgements

This report was prepared with the assistance of Brad Weber & Kirby Oudekerk, Wastewater Treatment Operations.

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

Attachment: Appendix "A" Sources of Financing
Appendix "B" Forcemain Route

cc: John Freeman, Manager of Purchasing and Supply
Chris Ginty, Procurement Officer
N. Awde, P.Eng., AECOM Canada Ltd.