

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 13, 2018
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEER VAUXHALL WASTEWATER TREATMENT PLANT CLASS EA FOR CAPACITY UPGRADES

RECOMMENDATION

That, on the recommendation of the Managing Director of Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the assignment of consulting services for the completion of the Municipal Class Environmental Assessment to increase of the treatment capacity of the Vauxhall Wastewater Treatment Plant:

- a) CH2M Hill Canada Limited **BE APPOINTED** consulting engineers in the amount of \$200,694.00, including 20% contingency, excluding HST, and in accordance with Section 15.2 d) 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, August 13, 2018 – East London Sanitary Servicing Study Municipal Class Environmental Assessment: Notice of Completion.

Civic Works Committee, July 17, 2017 – Appointment of Consulting Engineer – Design and Construction Administration Services - Pottersburg-Vauxhall Wastewater Treatment Plants Interconnection Project

Civic Works Committee, November 3, 2015 – Appointment of Consultant – Master Plan/Municipal Class EA for the Pottersburg-Vauxhall Interconnect

Civic Works Committee, June 2, 2015 – Appointment of Consultant – Engineering Services for the Stress-Testing and Re-Rating of Adelaide, Pottersburg & Vauxhall Wastewater Treatment Plants

2015-19 STRATEGIC PLAN

The 2015-2019 Strategic Plan identifies this objective under: Building a Sustainable City: 1B – Manage and improve our wastewater infrastructure and services; and 5B – Build new wastewater infrastructure as London grows.

BACKGROUND

Purpose

The purpose of this report is to seek approval to award CH2M Hill Canada Limited (CH2M) a contract for consulting services for the completion of a Municipal Class Environmental Assessment (Class EA) for increasing the rated treatment capacity of the Vauxhall Wastewater Treatment Plant, based on the results of a Request for Proposal process (RFP 18-27).

Context

The lands serviced by the Pottersburg Wastewater Treatment Plant are forecast to experience an increase in wastewater flows as a result of expected residential, industrial, and commercial growth in east London. A study of the condition and treatment capacity of the Pottersburg and Vauxhall Wastewater Treatment Plants found that the Vauxhall Plant is in better overall condition and can be more readily upgraded to treat additional flows than the Pottersburg Plant. A project is currently under construction which will permit the transfer of wastewater flows from the Pottersburg sewershed to the Vauxhall Wastewater Treatment Plant. Further capacity at the Vauxhall treatment plant will provide additional wastewater treatment capacity required to allow future development in the Pottersburg sewershed area (Appendix 'B': Location Map).

DISCUSSION

Previous studies evaluating the condition and potential treatment capacity of both the Vauxhall and Pottersburg wastewater treatment plants have been completed over the last several years. The Vauxhall plant has been assessed as being in good condition with the potential for a significant capacity increase for a minimal investment. Conversely, the Pottersburg plant is plagued by aging infrastructure and several operational challenges that limit its treatment capacity. Increased wastewater flows related to industrial and residential growth over the next 20 years will exceed the treatment capacity of the Pottersburg plant.

Through the completion of the 2017 Pottersburg and Vauxhall Sewershed Optimization Class EA Master Plan, a pipeline to interconnect these two plants was recommended and will be constructed in 2018. This project will permit flows to be transferred between the two plants, providing operational flexibility and redundancy. The 2018 East London Sanitary Servicing Study Class EA (currently also before Civic Works Committee) recommends that new development within the Pottersburg sewershed be directed to the Vauxhall plant for treatment. In order to facilitate this additional flow, the Vauxhall plant must undergo a significant capacity increase. Any increase to the rated treatment capacity of a wastewater treatment plant requires the completion of a Schedule 'C' Municipal Class EA.

Procurement Process

A Request for Proposals (RFP 18-27) was issued for a consulting Engineer to conduct a

Class EA study that will investigate and evaluate cost effective methods of increasing the treatment capacity at the Vauxhall plant to meet the short-term (10 year) and long-term (30+ year) needs of east London.

A Request for Proposal: RFP #18-27 was issued by the City and the following five consulting firms submitted proposals:

- AECOM Canada Limited;
- CH2M Hill Canada Limited;
- Cole Engineering Group Limited;
- Dillon Consulting Limited; and
- Stantec Consulting Limited.

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 five proposals met the City's requirements for submission acceptance and were evaluated via a weighted scoring system by the review team. The proposal from CH2M Hill Canada Limited scored the highest based on this scoring system.

Project Schedule

This Study is expected to require ten (10) months to complete. A detailed design assignment will be considered based on the results of the Study, and could be initiated as early as the second quarter of 2019.

CONCLUSIONS

CH2M Hill Canada Limited received the highest score through the RFP selection process for the completion of a Municipal Class EA to increase the capacity of the Vauxhall wastewater treatment plant. CH2M Hill Canada Limited has shown competence and expertise with public consultation studies of this type and has specific experience at this facility through previous projects. CH2M Hill Canada Limited demonstrated an excellent understanding of the project in their proposal and have provided excellent performance in the past on other similar City projects. It is recommended that CH2M Hill Canada Limited be awarded this assignment.

Acknowledgements

This report was prepared with the assistance of Kyle Murray, P.Eng. in the Wastewater Treatment Operations Division.

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

Attachment: Appendix "A" Sources of Financing

cc: John Freeman, Purchasing and Supply
Alan Dunbar, FP&P
Jason Davies
Chris Ginty, Procurement Officer
Mike Newbigging, P.Eng., CH2M Hill Canada Limited.