

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON TUESDAY, MAY 26, 2020
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	ADELAIDE WASTEWATER TREATMENT PLANT UPGRADES CONSULTANT AWARD

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 of the Adelaide Wastewater Treatment Plant upgrade works:

- a) Cole Engineering Group Ltd. **BE APPOINTED** Consulting Engineers in the amount of \$358,955.19, including 10% contingency, excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Sections 12.2 (b) and 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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None

2019-2023 STRATEGIC PLAN

Strategic Plan

This project supports the 2019-2023 Strategic Plan through the following: Building a Sustainable City, build infrastructure to support future development and protect the environment.

BACKGROUND

Purpose

The purpose of this report is to seek approval to award Cole Engineering Group Ltd. (Cole Engineering) a contract for consulting services for the design of upgrades at Adelaide Wastewater Treatment Plant to restore the full rated treatment capacity of that plant.

Context

The amount of wastewater being received at the Adelaide Wastewater Treatment Plant has increased significantly over the last five years and is approaching the plant's available treatment capacity. The first step in completing this work is to engage a Consulting Engineer to complete a preliminary and detailed design. This work was anticipated and included in the 2019-2023 multi-year budget.

DISCUSSION

The Adelaide Wastewater Treatment Plant currently provides sanitary servicing for north and northeast London. It has a current rated capacity of 36,400 m³/d, making it London's third-largest treatment plant. The majority of this capacity is through Section Two at the plant, but Section One is older and requires upgrades to restore its full treatment capacity. Flows in the Adelaide sewershed have increased quickly over the past five years as a result of increased wastewater from new development and unwanted rain water getting into the sewer system. These flow increases mean that the treatment capacity of Section One will need to be fully restored in order to treat future flows. It is important that a plant has sufficient capacity both to comply with the plant's Provincial operating approval and to reduce the volume and frequency of wastewater by-passes to the Thames River.

In order to upgrade the Adelaide Wastewater Treatment Plant a consultant is required to explore opportunities to ensure that the full capacity of the plant is available when needed. Once a preliminary design is complete, the Consultant will undertake a more thorough analysis to ensure that the proposed plan will accomplish the project goals in the most cost-effective way.

Procurement Process

A Request for Proposals was issued to obtain the Engineering design services necessary to develop the plans for the requisite upgrades. Request for Proposal (RFP): RFP 20-21 was issued by the City. RFP 20-21 was conducted through the Purchasing Division and was confirmed to be compliant with CETA and CFTA requirements. There were five consulting firms that submitted proposals:

- AECOM Canada Ltd.;
- Cole Engineering Group Ltd.;
- MTE Consultants Inc.;
- RV Anderson Associates Limited; and
- Stantec Consulting Ltd.

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. The City's evaluation team determined that the proposal provided by Cole Engineering provided the best value. Cole Engineering has extensive experience

with wastewater treatment plant design and has proposed a team of experienced professionals to complete the work. Overall, their proposal met all of the key project requirements and their staff are qualified to undertake the required engineering services.

Scope of Work

The scope of the project is to carry out a preliminary and detailed design to provide an immediate upgrade at the Adelaide Wastewater Treatment Plant. The goal is to restore the treatment capacity of Section One (6.8 million litres per day) to meet the short term capacity needs.

This project will:

- Review the appropriate approach to providing improved capacity;
- Complete a preliminary design including an assessment of peak shaving and bypass mitigation strategies; and
- Complete a detailed design to further refine the solutions developed during preliminary design and consult with the Ministry of the Environment, Conservation and Parks.

A future engineering assignment beyond this design will be carried out to finalize the tender document and carry-out construction administration services for the construction of the preferred alternative.

Project Schedule and Budget Implications

This assignment is scheduled to be complete and ready for tendering by February of 2021. Construction is expected to be complete by the end of 2021. This project is proposed to be funded under existing capital budgets with final construction costs estimated at between \$5 Million and \$9 Million.

CONCLUSIONS

Cole Engineering was found to provide the best value to the City through the RFP selection process for design services for the proposed Adelaide Wastewater Treatment Plant upgrade. Cole Engineering has a demonstrated ability in wastewater treatment plant design and also demonstrated a good understanding of this project in their proposal. It is expected that their project team will be able to provide a high-value design. It is recommended that Cole Engineering be awarded this assignment.

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

Attachment: Appendix "A" Sources of Financing

cc: John Freeman, Purchasing and Supply
Alan Dunbar, FP&P
Jason Davies, FP&P
Chris Ginty, Procurement Officer
Gus Proietti, P.Eng., Cole Engineering Group Ltd.

APPENDIX 'A'

Chair and Members
Civic Works Committee

#20067
May 26, 2020
(Appoint Consulting Engineer)

RE: RFP 20-21: Adelaide Wastewater Treatment Plant Upgrades Consultant Award
(Subledger FS20AD02)
Capital Project ES5234 - Adelaide WTPP Flood Protection & Capacity Improvements to Reduce Sewage Bypasses
Cole Engineering Group Ltd. - \$358,955.19 (excluding H.S.T.)

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

	<u>Approved Budget</u>	<u>Committed to Date</u>	<u>This Submission</u>	<u>Balance for Future Work</u>
<u>ESTIMATED EXPENDITURES</u>				
Engineering	935,988	20,148	365,272	550,567
Construction	962,512			962,512
NET ESTIMATED EXPENDITURES	<u>\$1,898,500</u>	<u>\$20,148</u>	<u>\$365,272</u> 1)	<u>\$1,513,079</u>
<u>SOURCE OF FINANCING:</u>				
Debenture	1,000,000			1,000,000
Drawdown from Sewage Works Reserve Fund	898,500	20,148	365,272	513,079
TOTAL FINANCING	<u>\$1,898,500</u>	<u>\$20,148</u>	<u>\$365,272</u>	<u>\$1,513,079</u>

1) **FINANCIAL NOTE:**

Contract Price	<u>\$358,955</u>
Add: HST @13%	46,664
Total Contract Price Including Taxes	405,619
Less: HST Rebate	40,347
Net Contract Price	<u>\$365,272</u>

JD

Jason Davies
Manager of Financial Planning & Policy