



Report to: General Committee

Report Date: June 12, 2018

SUBJECT: Award of RFP 208-R-17 Consulting Engineering Services for Short-Term Sanitary Flow Monitoring

PREPARED BY: Lijing Xu, Wastewater Hydraulic Engineer, Environmental Services Ext. 2967
Flora Chan, Senior Buyer, Ext. 3189

RECOMMENDATION:

- 1) THAT the report entitled “Award of RFP 208-R-17 Consulting Engineering Services for Short-term Sanitary Flow Monitoring” be received;
- 2) AND THAT Contract 208-R-17 Consulting Engineering Services for Short-term Sanitary Flow Monitoring be awarded to the highest ranked / third lowest priced bidder “GM BluePlan Engineering Limited” in the amount of \$146,564.67, inclusive of HST;
- 3) AND THAT a 4% contingency in the amount of \$5,862.59 inclusive of HST, be established to cover any additional construction costs and that authorization to approve expenditures of this contingency amount up to the specified limit be in accordance with the Expenditure Control Policy;
- 4) AND THAT the total costs in the amount of \$152,427.26 (\$146,564.67+\$5,862.59) for Consulting Engineering Services for Short-term Sanitary Flow Monitoring award be funded from Capital Project 18302 “Wastewater Flow Monitoring – Annual Program”;
- 5) AND THAT the balance remaining in the amount of \$172.74 (Budget \$152,600.00 - \$152,427.26) be returned to original funding source;
- 6) AND THAT Staff be authorized to exercise the option to renew the contract for four (4) additional years (2019-2022) at the same itemized pricing subject to performance and Council approval of the 2019 to 2022 capital budgets as follows:
 - (2019) - \$152,427.26 (Inclusive of Contingency and HST)
 - (2020) - \$152,427.26 (Inclusive of Contingency and HST)
 - (2021) - \$152,427.26 (Inclusive of Contingency and HST)
 - (2022) - \$152,427.26 (Inclusive of Contingency and HST)
- 7) AND THAT Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

To obtain approval to award the contract for consulting engineering services to undertake Short-Term Sanitary Flow Monitoring for a one-year term with option to renew for four additional years at the same itemized pricing, subject to performance and Council approval of the annual budget.

BACKGROUND:

Sanitary flow monitoring and data collection are essential to support system planning, management and operation. Flow data needs to be collected at critical/strategical locations to characterize system flow conditions under both dry weather and wet weather periods to evaluate system performance, identify any capacity constraints, prioritize Inflow/Infiltration (I/I) reduction areas, quantify I/I reduction effectiveness, and to support the identification of system upgrades through basement flood control studies, and to confirm capacity to accommodate new development.

The City's short-term flow monitoring project is being harmonized with York Region's I/I reduction initiatives. The Region has installed long-term flow monitoring meters in Markham's sanitary sewer system to characterize relatively large catchment conditions. The City's short-term flow monitoring project focus on smaller catchment levels in order to refine modeling results for local areas of interest, to refine the location of I/I sources, and to evaluate post I/I reduction flow conditions in specific small local catchments.

It is estimated that 15 locations are required each year to meet the short-term local monitoring needs.

The general scope of the work to be undertaken in this project includes the following:

- Flow monitoring site selection and inspection
- Equipment installation and removal
- Flow data management and analysis
- Operation and maintenance of the flow monitoring equipment
- Produce final report analysing the data

BID INFORMATION

Advertised	ETN (Electronic Tendering Network)
Bids closed on	March 26, 2018
Number picking up bid documents	8
Number responding to bid	5

PROPOSAL EVALUATION

The Evaluation Team was comprised of staff from Environmental Services Department with purchasing staff acting as the facilitator. The proposals were evaluated based on pre-established evaluation criteria as listed in the Request for Proposal: 20% past experience of the consulting firm; 20% qualifications and experience of the lead consultant and project team; 30% project understanding and 30% price, totaling 100%.

Consultant	Total Score (out of 100)	Rank Results
GM BluePlan Engineering Limited	81.8	1
Urban-X	79.0	2
AECOM Canada Ltd.	78.3	3
Civica Infrastructure Inc.	76.0	4
Thompson Flow Investigations Inc	74.3	5

Note: Prices received from the five Bidders ranged from \$110,686.27 to \$172,134.28 (inclusive of HST and excluding contingency).

GM BluePlan Engineering Limited demonstrated a good understanding of the project, had an experienced and qualified project team and illustrated a comprehensive plan and methodology for the project.

FINANCIAL CONSIDERATION AND TEMPLATE:

Budget available and account #	\$ 152,600.00	760-101-5699-18302 Wastewater Flow Monitoring - Annual Program
Less cost of award	\$ 146,564.67	Year 1 (2018)
	\$ 5,862.59	Contingency (4%)
	\$ 152,427.26	
Budget remaining	\$ 172.74	

The contract award to GM BluePlan Engineering Limited in the amount of \$152,427.26 will be funded from the Capital Project 18302 “Wastewater Flow Monitoring – Annual Program” with an approved budget of \$152,600.00. The remaining budget of \$172.74 will be returned to the original funding source.

In addition, there is the option to renew the contract for four (4) additional years (2019-2022) at the same itemized pricing subject to performance and Council approval of the 2019 to 2022 capital budgets as follows:

- (2019) - \$152,427.26 (Inclusive of Contingency and HST)
- (2020) - \$152,427.26 (Inclusive of Contingency and HST)
- (2021) - \$152,427.26 (Inclusive of Contingency and HST)
- (2022) - \$152,427.26 (Inclusive of Contingency and HST)

OPERATING BUDGET AND LIFECYCLE IMPACT:

There is no incremental impact to operating budget and life cycle reserve study.

ENVIRONMENTAL CONSIDERATIONS:

Flow data collected are used to support I/I reduction from the sanitary sewer system which has extensive environmental benefits including reducing risk of sanitary sewer backups into basements and overflows, reducing energy costs of sanitary flow pumping and treatment.

ALIGNMENT WITH STRATEGIC PRIORITIES:

This project’s goals are consistent with the Building Markham’s Future Together strategic priority on providing a “Safe and Sustainable Community” through the proactive management of infrastructure to reduce flood risks, and the management of growth, by supporting the effective design and operation of the sanitary sewer system. This project supports the sanitary system downspout disconnection program.

BUSINESS UNITS CONSULTED AND AFFECTED:

Finance department has been consulted and their comments have been incorporated.

RECOMMENDED BY:

2018-05-31

2018-05-31

X 

 Phoebe Fu
 Director, Environmental Services
 Signed by: cxa

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 Brenda Librecz
 Commissioner, Community & Fire Services
 Signed by: cxa

ATTACHMENTS:

None.