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DATE: May 27, 2011

REPORT TITLE: **PROFESSIONAL ENGINEERING SERVICES FOR FLETCHER'S CREEK TRUNK SEWER TWINNING CAPITAL PROJECT 10-2220 DOCUMENT 2011-162P CITY OF BRAMPTON , WARDS 4 AND 5**

FROM: Dan Labrecque, Commissioner of Public Works

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#### **RECOMMENDATION**

That the contract (Document 2011-162P) for the professional engineering services for the Fletcher's Creek Trunk Sewer Twinning be awarded to CH2M Hill in the amount of \$732,350 (excluding applicable taxes), under Capital Project 10-2220, in accordance with Purchasing By-law 63-2008.

#### **REPORT HIGHLIGHTS**

- The Region of Peel's Water and Wastewater Servicing Master Plan has identified the need for additional capacity in the Fletcher's Creek Trunk Sewer.
- The Region completed a Class Environmental Assessment (Class EA) study to determine the preferred alternative for twinning of the existing Fletcher Creek Trunk Sewer.
- Ongoing soil erosion along the west bank of Fletcher's Creek, north of the Denison Bridge, has the potential to impact a section of the Fletcher's Creek Trunk Sewer located upstream of the boundaries of the Class EA study.
- Request for Proposal (Document 2011-162P) to undertake the Detailed Design and Construction Administration for Twinning the Fletcher Creek Trunk Sewer and investigation of the soil erosion impact on the existing trunk sewer was issued to four consulting engineering firms.
- Four proposals were received in response to the Request for Proposal (Document 2011-162P) and CH2M Hill is recommended for award.

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**DISCUSSION**

**1. Background**

The Region's Water and Wastewater Servicing Master Plan has identified the need for additional capacity in the Fletcher's Creek Trunk Sewer to support the planned growth in Northwest Brampton and address future capacity deficiencies based on the population and employment projections.

The Region has completed a Class Environmental Assessment (Class EA) study as a Schedule 'C' project to determine the preferred alternative solution for meeting future capacity requirements for the Fletcher's Creek Trunk Sewer.

The Class EA Study identified twinning of a section of the existing Fletcher's Creek Trunk Sewer as a preferred solution. The recommended alignment for the twin trunk sewer is along Harold Street (from the existing trunk sewer at Fletcher's Creek) to McLaughlin Road and south to the intersection of McLaughlin Road and Elgin Drive (Appendix I). The recommended construction method uses a combination of open cut and trenchless technology.

Further, it was noted that a section of the Fletcher's Creek Trunk Sewer located upstream of the boundaries of the Class EA study could be affected by soil erosion, which is progressing along the west bank of Fletcher's Creek, north of the Denison Bridge. This erosion poses a potential risk to reduce the cover depth sufficiently to allow freezing and damage due to frost of the existing 1,050 mm (42 inch) diameter trunk sewer section.

The Region has considered undertaking necessary Creek protection and stabilization measures to protect the existing 1,050 mm (42 inch) diameter trunk sewer. Therefore an investigation to evaluate the scale of the erosion has been included into the scope of work for this assignment. The investigation will determine if the creek bank erosion poses a threat to the trunk sewer operation and, if necessary, will identify the means of its required protection.

**2. Selection Process for Consulting Engineering Services**

The Region of Peel issued a Request for Proposal 2011-162P to the following consulting engineering firms; CH2M Hill, Trow Associates Inc. (Trow), The Municipal Infrastructure Group Ltd. (TMIG) and R.J. Burnside & Associates Limited (R.J. Burnside)

All four consulting engineering firms submitted proposals on time and the documents were found to be in order. The proposals are submitted in two parts: the first being the technical component and the second the financial component. The Technical Evaluation Team reviews the submissions in accordance with set criteria. The evaluation criteria includes the consultant's understanding of the project, work plan (methodology), miscellaneous value added, qualifications and experience of the proposed personnel, the consultant's previous experience in similar projects, schedule and estimated cost to complete the assignment. Upon completion of the technical evaluation, the purchasing representative completes the financial analysis. The scores are then combined and the overall ranking determined.

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The evaluation summary was as follows:

Vendor Name	Technical (80 per cent)	Financial (20 per cent)	Price Submitted	Overall Ranking
CH2M Hill, Toronto, ON	2	1	\$732,350	1
TMIG Vaughan, ON	1	4	\$1,023,693	2
Trow Brampton, ON	3	3	\$799,760	3
R.J. Burnside Brampton, ON	4	2	\$741,777	4

The proposal submitted by CH2M Hill received the highest overall score when assessing the combination of technical proficiency and price. The consultant demonstrated a thorough understanding of the assignment, proposed a comprehensive project approach and presented an experienced project team. The staff evaluation committee has concluded that the proposal submitted by CH2M Hill provides the best overall value to the Region.

### FINANCIAL IMPLICATIONS

It is proposed to award the contract for the Detailed Design and Construction Administration for the Fletcher's Creek Trunk Sewer Twinning to CH2M Hill in the amount of \$732,350 including provisional items (excluding applicable taxes).

Sufficient funding is available under Capital Project 10-2220.

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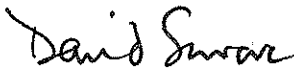
**DOCUMENT 2011-162P**

**CITY OF BRAMPTON , WARDS 4 AND 5**



Dan Labrecque  
Commissioner of Public Works

**Approved for Submission:**



D. Szwarc, Chief Administrative Officer

*For further information regarding this report, please contact Olena Gordiyenko at extension 7843 or via email at [Olena.Gordiyenko@peelregion.ca](mailto:Olena.Gordiyenko@peelregion.ca)*

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c. Legislative Services  
Macintyre, Director, Purchasing  
Manager, Financial Support Unit (FSU)

PW-81-5

# APPENDIX I

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PROFESSIONAL ENGINEERING SERVICES FOR FLETCHER'S CREEK  
TRUNK SEWER TWINNING  
CAPITAL PROJECT 10-2220  
DOCUMENT 2011-162P  
CITY OF BRAMPTON, WARDS 4 AND 5

