

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JUNE 19, 2018</b>
<b>FROM:</b>	<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>CAVENDISH CRESENT TRUNK SANITARY AND STORM SEWER REPLACEMENT (CONTRACT NO. 9)</b>

**RECOMMENDATION**

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following report regarding the Cavendish Crescent Trunk Sanitary and Storm Sewer Replacement Project **BE RECEIVED** for information.

**2015-19 STRATEGIC PLAN**

The following report supports the Strategic Plan through the strategic focus areas of *Building a Sustainable City and Leading in Public Service directly and indirectly as follows*: Addressing the infrastructure gap, building robust infrastructure, enhancing safety for all road users in the city, and managing and improving our water, wastewater and stormwater infrastructure and services.

**PREVIOUS REPORTS PERTINENT TO THIS MATTER**

None.

**BACKGROUND**

**Purpose**

The purpose of this report is to provide Committee and Council an update to an emerging issue related to the Infrastructure Replacement Program's project on Cavendish Crescent and provide details of the steps being taken to address the issue and the potential implications including project scope changes, delivery timelines and contract costs.

**Context**

The Cavendish Crescent Trunk Sanitary and Storm Sewer Replacement project was identified as a high priority for the Infrastructure Replacement Program due to the condition of the municipal infrastructure and the need for area servicing improvements.

At the present time, while the project scope changes and corresponding budget implications are under review, this report provides Council with notice and background information for a potential contract amendment as mitigation will need to proceed in an expedited manner in order to limit contractor delays and to be able complete the project

in this construction season.

## **DISCUSSION**

The Cavendish Crescent Trunk Sanitary and Storm Sewer Replacement project is the first of a three phase project that will occur over the next few years and will significantly improve storm and sanitary servicing for the greater surrounding area. This first phase involves the reconstruction of Cavendish Crescent (approx. 220m) from Wyatt Street to the north side of the Thames River and includes replacement of existing sanitary sewers, installation of new storm sewers, replacement of existing watermains, and full road reconstruction. This project also includes the construction of a new storm outlet to the Thames River. The new storm outlet to the Thames River was aligned between an abandoned sanitary pumping station (circa 1962) and a closed landfill (circa 1946).

The contract was awarded to Bre-Ex Construction (contractor) on March 23, 2018 by Administrative Approval of Tender Acceptance/ Contract Award for \$2,695,350.98 (excluding HST). Bre-Ex submitted the lowest tender bid of eight contractors. Spriet Associates Limited (Spriet) the project's design engineer was approved to carry out resident inspection and contract administration for the project.

This project requires a large volume of material to be excavated to install a new sanitary and storm sewer. During the excavation of the area between Cavendish Crescent and the Thames River, a large quantity of closed landfill material, estimated at 8,000 tonnes, was encountered. The construction contract include a provision to remove approximately 1,600 tonnes of closed landfill material. Testing of the closed landfill material was completed and based on the testing the soil has been classified as "non-hazardous solid waste" and is eligible to be disposed at the City's W12A landfill. The overall project contingency for this project is \$250,000. The adequacy of the contingency will depend on the exact quantities of the closed landfill material removed from the site. If the contingency is not adequate, a report will be submitted to committee summarizing the final removal costs and a request will be made for a contract price amendment.

City staff and the engineering consultant are working diligently to minimize this cost while ensuring that all closed landfill material is dealt with appropriately. The mitigation strategy will ensure appropriate remediation and corrective actions are undertaken in a cost effective manner. The remedial action plan will address health and safety requirements of City staff, the contractor and the public as part of the undertaking.

Staff will further investigate the impact of this additional work on the overall contract cost and will attempt to recuperate any related expenses from its consultants where appropriate.

## **CONCLUSION**

The City has encountered an emerging issue related to excess historical landfill material on the Cavendish Crescent Trunk Sanitary and Storm Sewer Replacement project. Staff have taken immediate steps to address the matter in a safe, diligent and cost effective manner. The adequacy of the project contingency to cover the costs of disposing the closed landfill material will depend on the exact quantities of material removed from the site. If the contingency is not adequate, a report will be submitted to committee summarizing the final removal costs and a request will be made for a contract price amendment.

**Acknowledgements:**

This report was prepared with assistance from Brian Nourse, P.Eng., Construction Administration Division.

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<https://cityhub/services/ees/water/weng/CR/09-CWC-June 19 2018/RPT - CWC - Cavendish Crescent Project Update-June 19.docx>

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