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TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 22, 2013**
FROM:	**JOHN BRAAM, P. Eng. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**
SUBJECT:	**WILTON AVENUE AND OAKLAND AVENUE WATERMAIN EMERGENCY IMPROVEMENTS EW 3563-13**

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the Wilton Avenue and Oakland Avenue Watermain Improvements (EW3563-13).

(a) the estimate submitted by Fer-Pal Construction Limited, 169 Fenmar Drive, North York, Ontario, M9L 1M6 at a price of $304,951.38 excluding H.S.T for the Wilton Avenue and Oakland Avenue Watermain Improvements **BE ACCEPTED**; it being noted that the sections of Watermain on Wilton Avenue and Oakland Avenue have insufficient flows to provide proper fire protection and are being lined to maintain an acceptable fire flow to the area as required by the Fire Underwrighters Survey. The estimate submitted by Fer-Pal Construction Limited is an extension of their 2013 Watermain Cleaning and Structural Lining Program and contract unit prices were maintained;

(b) the financing for this project **BE APPROVED** as set out in 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;

(g) 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

- 2011 Watermain Cleaning & Structural Lining Program, Built and Natural Environment Committee, April 20, 2011, Agenda Item #1

BACKGROUND

The City of London has been rehabilitating watermains since 1989 using innovative trenchless technologies, which more recently include structural lining. This method allows the City to improve fire flows, eliminate water quality problems (red water), gain additional years of life from the watermain and delay the need for full replacement reconstruction projects which are more expensive and socially disruptive. The fire flows and water quality in these rehabilitated watermains are dramatically improved following relining.

The 2013 Watermain Cleaning and Structural Lining Program is the third year of a three year contract originally tendered in March 2011. Fer-Pal Construction Limited was the lowest of three (3) bids received and met the City's specifications and requirements in all areas. The

contract allowed for an increase in the tendered unit prices of 2% plus the consumer price index (CPI) per annum. Fer-Pal Construction Limited began this year's work under the contract the first week of April when they initiated the structural lining in the Notre Dame Drive area.

In June 2013, a consultant requested fire flow data for a potential development in the area of Oakland Avenue. Upon performing fire flow tests in this area it was discovered that hydrants on Oakland Avenue near Wilton Avenue had insufficient fire flows. Failure to address the situation would have left several single family and multi-family residences within the vicinity of these hydrants with limited to no fire-fighting capacity.

The Water Engineering Division reviewed available options including replacing and lining the watermain on Wilton Avenue from Highbury Avenue to Oakland Avenue and on Oakland Avenue from Langmuir Drive, north to the railway tracks, approximately 570 meters of watermain in total. It was determined that the most cost effective solution to address the lack of fire flows would be by cleaning and structurally lining the watermain.

Fer-Pal Construction Limited is performing the rehabilitation of the Oakland Avenue and Wilton Avenue watermain at the time of writing this report. They were already performing similar work within the City and had crews capable of performing the work immediately. Fer-Pal Construction Limited agreed to maintain the same unit price to do the work as they had in their contract. Fer-Pal Construction Limited was authorized to carry out the work in accordance with the Procurement of Goods and Services Policy, Section 14.2 – Procurement in Emergencies, where the hiring of Fer-Pal Construction Limited responds to the emergency in the most cost effective and time sensitive manner. Had the deficient condition of the watermain been known prior to this year's construction project, it would have been included at that time for the same price which it is estimated at now. Putting the project out to tender would put the safety of the residents at greater risk, likely result in higher tender prices and include additional mobilization and demobilization costs that are not required as Fer-Pal is still working in London at the time the work was undertaken.

A Project Location map is included on the next page for reference.

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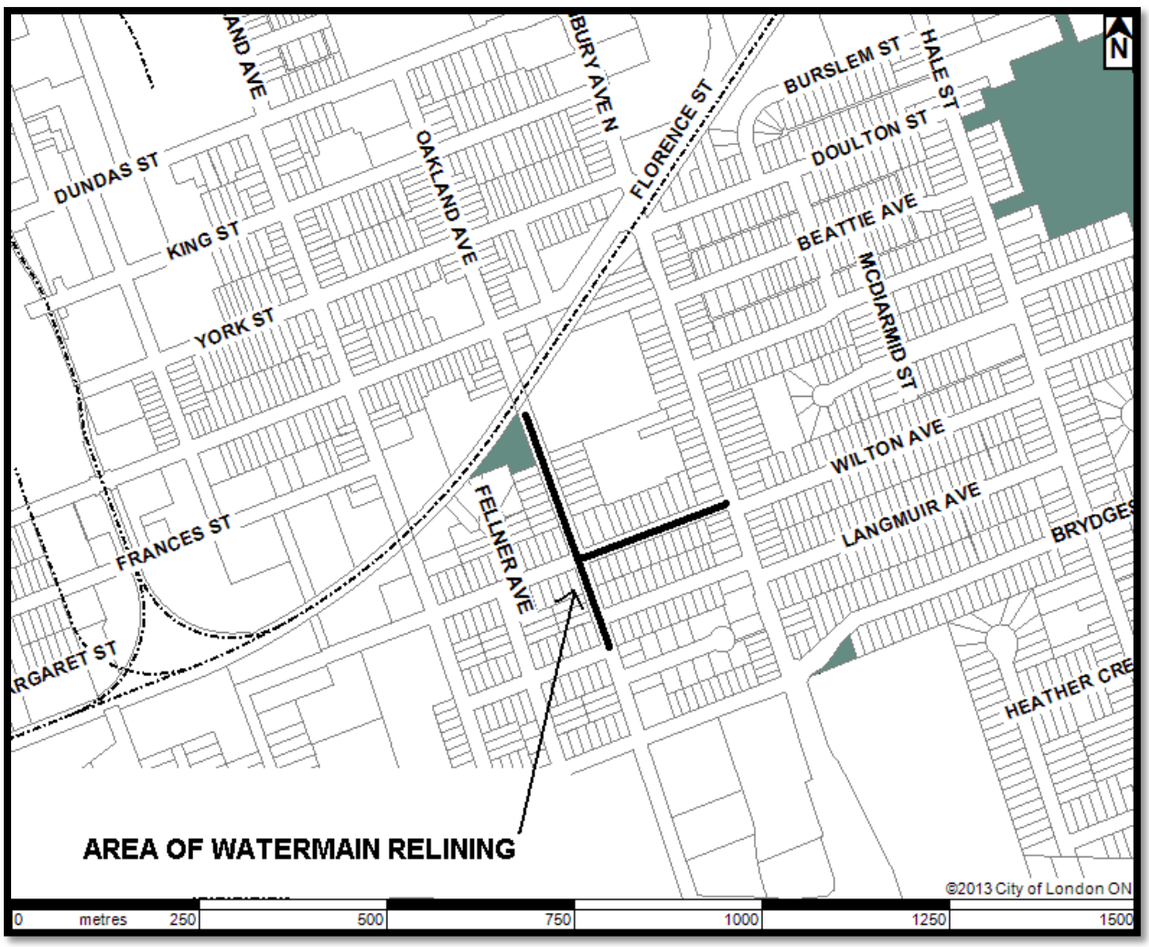

Acknowledgements:

This report was jointly prepared by Water Engineering Division, Dave Chromczak, Technologist, and Roland Welker, Division Manager.

SUBMITTED BY:	RECOMMENDED BY:
JOHN LUCAS, P. ENG. **DIRECTOR, WATER AND WASTEWATER**	**JOHN BRAAM, P.ENG.** **MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**

July 9, 2013

Attach: Appendix “A” – Sources of Financing

c.c. Justin Lawrence
Fer-Pal Construction
John Simon
Roland Welker