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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 8, 2015
FROM:	JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER
SUBJECT	SANITARY FORCEMAIN INSPECTION RFP NO. 14-57 – IRREGULAR RESULT

RECOMMENDATION

That, on the recommendation of the Managing Director - Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the award of a contract for the Sanitary Forcemain Inspection project:

- (a) The proposal submitted by Pure Technologies Ltd. and negotiated price of \$200,698.30 excluding H.S.T., for the Sanitary Forcemain Inspection project **BE ACCEPTED**; it being noted that Pure Technologies Ltd. was the only bidder to respond to a Request for Proposal and their submission meets the City's specifications and requirements in all areas.
- (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 these projects.
- (d) The approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract or issuing a purchase order for the material to be supplied and the work to be done relating to these projects.
- (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.

BACKGROUND

Purpose:

This report recommends a contract award based on a competitive Request for Proposal (RFP) to carry out an inspection of the Byron Pump Station forcemain.

Discussion:

Background

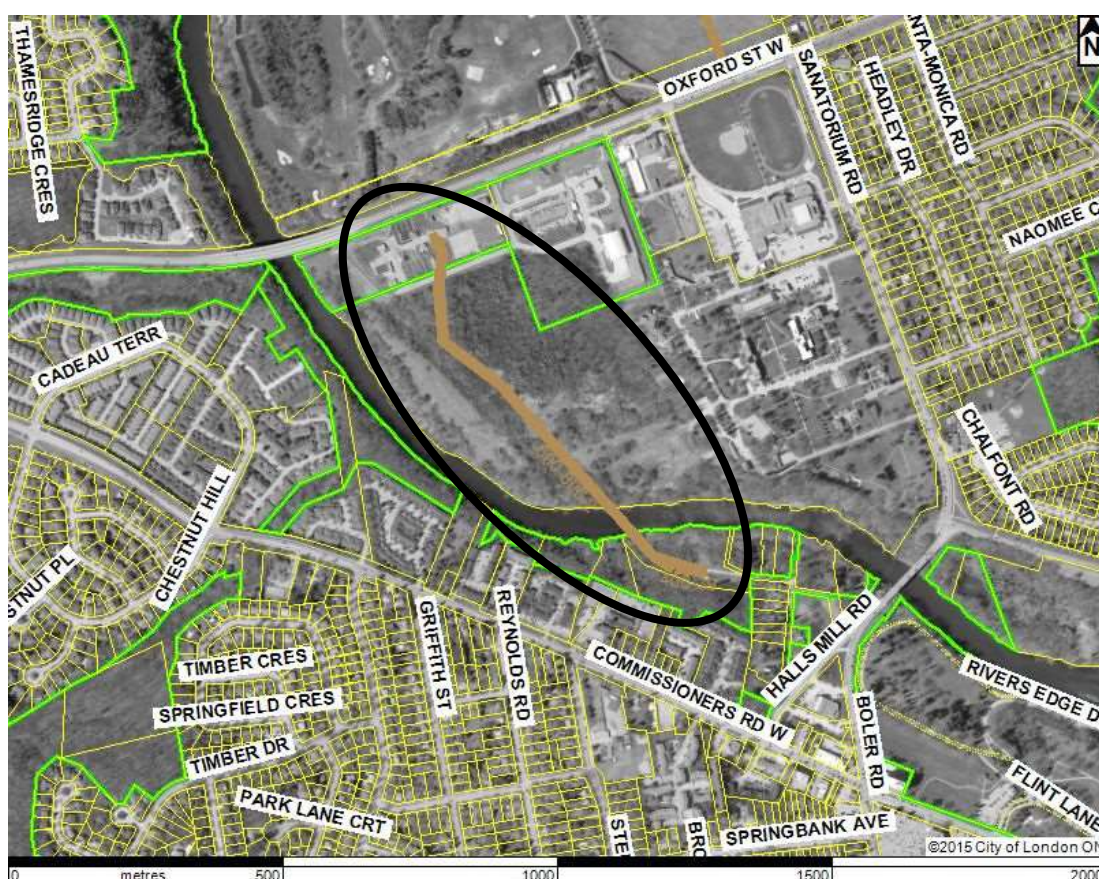
The Byron Pump Station forcemain was built in 1965. It carries sewage from the Byron Pump Station located south of the Thames River, to the Oxford Pollution Control Plant, located on the north side of the river.

The Byron Pump Station forcemain is a critical piece of infrastructure and requires an inspection to confirm its current condition and to determine an appropriate repair method, should a

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deficiency be identified in the process. If a problem were to go undetected, resulting in a break in the forcemain, the properties upstream of the pump station and the environment would be significantly impacted.

The existing Byron Pump Station forcemain consists of 40m of 400mm diameter and 825m of 600mm diameter pre-stressing concrete cylinder pipe (PCCP). This type of pipe is manufactured comprising of a concrete core, a thin steel cylinder, high tensile pre-stressing wires and a mortar coating. Conventional, low cost inspection methods are not effective for this kind of pipe, as the steel cylinder and pre-stressing wires cannot be seen, but are the critical part of the pipe's strength and typically where failures start.



Request for Proposal

A Request for Proposal (RFP) was issued via a public call for proposals. A proposal, rather than low bid tender, was selected due to the specialized technology required. Note that the Sanitary Forcemain Inspection RFP, (14–57), required the bidder to submit a total bid based on the inspection of two (2) existing forcemains in the city, namely the Dingman forcemain and the Byron Pump Station forcemain. However, due to budget constraints and a risk assessment, only the Byron Pump Station forcemain is being recommended for inspection under this report. Based on the General Conditions, Instructions and Information for Proponents, clause 17 of the Request for Proposal, a negotiated price was derived to carry out the inspection for the Byron Pump Station forcemain only, noting that the negotiated price includes a 10% contingency.

Only one proposal was received on the closing date, submitted by Pure Technologies Ltd. Given the extremely limited number of companies with appropriate technology and Pure Technologies Ltd.'s recognized standing in the industry, a decision was made to open the single submission. Under the provisions of the Procurement of Goods and Services Policy, Schedule A, it is recommended that the proposed work be awarded as an Irregular Result.

Inspection Method

The proposed inspection has two parts. The first part includes a piece of equipment, or SmartBall, which uses acoustic-based technology to detect leaks and gas pockets. The second part includes a piece of equipment that utilizes electromagnetic inspection technology to locate broken pre-stressing wires. In each part, the inspection tool will be inserted into the forcemain at the Byron Pump Station and retrieved at the forcemain discharge chamber, located at the

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Oxford Pollution Control Plant. This technology has previously been used in the City of London to inspect trunk water mains.

Cost

The negotiated contract price of \$200,698.30, excludes HST, but includes a 10% contingency.

There are no anticipated additional operating costs to the Environmental and Engineering Services budget in 2015, or subsequent years associated with the approval of this project.

Conclusions

It is recommended that Pure Technologies Ltd. be awarded the Sanitary Forcemain Inspection project as they were the only bidder and their proposal meets the requirements of the City.

Acknowledgements:

This report was prepared within the Sewer Operations Division by Ashley Rammeloo, P.Eng., Sewer Operations Engineer.

SUBMITTED BY:	RECOMMENDED BY:
RICK PEDLOW, C.E.T. DIVISION MANAGER SEWER OPERATIONS	JOHN LUCAS, P.Eng. DIRECTOR, WATER & WASTEWATER
REVIEWED AND CONCURRED BY:	
JOHN BRAAM, P.Eng. MANAGING DIRECTOR - ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER	

March 31, 2015

Attach.: Appendix A – Source of Financing

c.c. Pure Technologies Ltd.