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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MARCH 8, 2016</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>POLLUTION PREVENTION AND CONTROL PLAN INFOWORKS MODELLING CONSULTANT APPOINTMENTS</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to award of Infoworks modelling assignments as part of Phase II of the Pollution Prevention and Control Plan:

- a) The following Consulting Engineering firms **BE APPOINTED** for the completion of Infoworks hydraulic modelling assignments, in the amounts identified below (all including contingency but exclusive of HST), in accordance with the estimate on file, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 of the City of London's Procurement of Goods and Services Policy.
  - (i) Assignment 3: Stantec Consulting Ltd., in the amount of \$127,395.40.
  - (ii) Assignment 7: XCG Consultants Ltd., in the amount of \$127,848.60.
  - (iii) Assignment 9: GM BluePlan Engineering Limited, in the amount of \$143,936.00.
  - (iv) Assignment 12: AECOM Canada Ltd., in the amount of \$91,658.00.
  - (v) Assignment Pall Mall North: CH2M HILL Canada Limited, in the amount of \$83,072.00.
- b) the financing for the projects identified in (a) above, **BE APPROVED** in accordance with 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 approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with each consultant for the work; and
- e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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"Pollution Prevention and Control Plan Infoworks Modelling Consultant Appointment", Civic Works Committee, August 25 2014

"Pollution Prevention and Control Plan Consultant Appointment Continuation", Civic Works Committee, February 3 2014.

"Consultant Appointment Pollution Prevention and Control Plan Project ES5419", Civic

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Works Committee, May 14 2012.

## 2015-19 STRATEGIC PLAN

The 2015 – 2019 Strategic Plan identifies this objective under Building a Sustainable City: 3E – Work together to protect all aspects of our natural environment including woodlands, wetlands, rivers, watercourses, and air quality as our city grows.

## BACKGROUND

### **Purpose:**

The purpose of this report is to recommend the award of five (5) Infoworks modelling assignments to the following engineering consultants; one each to AECOM Canada Ltd, XCG Consultants Ltd., Stantec Consulting Ltd., GM BluePlan Engineering Limited, and CH2M HILL Canada Limited which will form conclusions for Phase II of the Pollution Prevention and Control Plan (PPCP), under the direction of CH2M Hill Limited (CH2M Hill).

### **Context:**

The City of London is currently undertaking a Pollution Prevention and Control Plan (PPCP) to address and mitigate 149 confirmed sewer system points of overflow. These overflows were originally put in place to prevent basement flooding to area homes.

London's PPCP is a multi-year master plan project, split into three phases, designed to provide a long term solution for conveyance system sewer overflows and bypasses in an effort to meet system wide conformance with Ministry of Environment and Climate Change (MOECC) Procedure F-5-5 and to mitigate impacts on receiving water bodies, including the Thames River.

Phase II of the PPCP is currently underway. The scope of Phase II includes the need to undertake eleven (11) hydraulic sewer modelling and flow monitoring assignments to characterize all sewer system overflows. This report seeks approval to award five (5) hydraulic modelling assignments at this time. The remaining assignments have been previously awarded.

## DISCUSSION

### **PPCP Infoworks Modelling Assignments:**

Phase I of the PPCP Master Plan divided London's 149 sewer system overflows into 12 distinct hydraulic modelling assignments. The assignment boundaries have since been refined and optimized which resulted in there now being 11 distinct hydraulic modelling assignments. Hydraulic modelling is required to properly characterize the sewer overflows and understand their role in the sanitary sewer network. The hydraulic modelling will also be used to determine whether the overflow sites are meeting the MOE's Procedure F-5-5 objectives.

The City put forth a Request for Proposal (RFP) for this subsequent set of sanitary sewer hydraulic modelling assignments to consultants who successfully completed the

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previous round of modelling. Five (5) consultants submitted proposals. As this was a quality based selection process, fee estimates were not required at this stage of the process. CH2M HILL Canada Limited (CH2M HILL) was not required to submit a proposal as their production of the Phase I and Phase II of the PPCP Master Plan prequalified them for submission of a work plan for modelling assignments. All five (5) eligible consultants submitted proposals, which closed on January 22, 2016. Following review and evaluation of proposals by City staff from the Wastewater and Drainage Division (WADE), five (5) consultants, including CH2M HILL, were deemed to be eligible to have the opportunity to provide work plans to be awarded a hydraulic modelling assignment.

The City selected one assignment for each consultant which best matched each consultant's modelling experience and understanding of the subject areas. Consultants were notified of their opportunity to present a detailed work plan and fee estimate for their respective assignment during meetings which occurred on February 4<sup>th</sup> and 5<sup>th</sup>, 2016. During these meetings the consultant met directly with City staff and discussed particulars of their modelling assignment to aid in their preparation of work plan and fee estimate. Submissions from each of the five (5) consultants were received during the week of February 15<sup>th</sup>, 2016. It is noted that if City staff and the consultant could not come to an agreement regarding their work plan or fee estimate, the City reserved the right to negotiate with another firm. This was clearly communicated to all consultants.

Following review of work plan and fee estimates, discussion with each consultant, and comparison to conceptual cost estimates provided by CH2M Hill in the PPCP Phase I document, City staff is recommending the following:

- Award Assignment #3 to Stantec Consulting Ltd., in the amount of \$127,395.40
- Award Assignment #7 to XCG Consultants Ltd., in the amount of \$127,848.60
- Award Assignment #9 to GM BluePlan Engineering Limited, in the amount of \$143,936.00
- Award Assignment #12 to AECOM Canada Ltd., in the amount of \$91,658.00
- Award Assignment Pall Mall North to CH2M HILL Canada Limited, in the amount of \$83,072.00

It is noted that these five (5) assignments vary in size and complexity. The total upset limit for the five (5) assignments is \$573,910.00 including \$49,088.66 in contingencies.

### **Summary:**

The City is currently undertaking a Pollution Prevention and Control Plan (PPCP) which will provide the City, Ministry of the Environment and Climate Change, and community with a long term plan for managing sewer system overflows and bypasses in London. Hydraulic modelling of the sewer system overflows is required to properly characterize overflows and provide long term mitigation strategies. This report seeks approval to award five (5) PPCP Infoworks hydraulic modelling assignments to five (5) different engineering consultants. It is noted that this investment will lead to substantial infrastructure improvements in the future and the mitigation of 149 sewer system overflows throughout the City to reduce the environmental impacts to receiving water bodies, including the Thames River.

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**Acknowledgements:**

This report was prepared within the Wastewater and Drainage Engineering Division by Mitchell Heighway, EIT.

<b>PREPARED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
<b>TOM COPELAND, P. ENG. DIVISION MANAGER, WASTEWATER AND DRAINAGE ENGINEERING</b>	<b>JOHN LUCAS, P. ENG. DIRECTOR, WATER AND WASTEWATER</b>
<b>RECOMMENDED BY:</b>	
<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

February 29, 2016

Attach: Appendix "A" – Sources of Financing

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c.c. Pat Shack, Budget Analyst