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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON FEBRUARY 3, 2014</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 CONSULTANT APPOINTMENT CONTINUATION (ES2464-11)</b>

### RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to award of Phase II of the Pollution Prevention and Control Plan:

- a) CH2M Hill Limited, 72 Victoria Street South, Suite 300, Kitchener ON N2G 4Y9 **BE APPOINTED** Consulting Engineers for the preparation of Phase II of the Pollution Prevention and Control Plan, in the amount of \$322,042.00, including contingency and excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2(g) of the City of London's Procurement of Goods and Services Policy; it being noted that the appointment for subsequent phases will be contingent on satisfactory performance and a future recommendation to Committee and Council;
- 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;
- d) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the 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.

### PREVIOUS REPORTS PERTINENT TO THIS MATTER

"Consultant Appointment Pollution Prevention and Control Plan Project ES5419", Civic Works Committee, May 14 2012.

### BACKGROUND

**Purpose:**

The purpose of this report is to recommend the award of Phase II of the Pollution Prevention and Control Plan (PPCP) to CH2M Hill Limited (CH2M Hill). CH2M Hill was previously awarded Phase I of the PPCP in May, 2012.

**Context:**

The City of London has 149 confirmed conveyance system overflows leading to 51 discharge points in the Thames River sewershed. There are also 32 pumping station and 6 wastewater treatment plant bypasses located throughout the City. These sites have been confirmed

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through a combination of ongoing City staff site investigation and verification along with detailed field investigation work undertaken by Andrews Infrastructure in 2010. These conveyance system overflows were originally put in place to prevent basement flooding to area homes.

Efforts are also underway at the City's treatment plants to capture and treat wet weather flow to MOE Procedure F-5-5 standards.

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 MOE Procedure F-5-5 and to mitigate impacts on receiving water bodies, including the Thames River.

### **Discussion:**

*A Draft Terms of Reference - City of London Municipal Class Environmental Assessment - Pollution Prevention and Control Study to Work Towards Conformance with Procedure F-5-5* was prepared in 2011 with the assistance of CH2M Hill and the Ministry of the Environment (MOE). Several meetings were held to develop the Terms of Reference to the satisfaction of the City and MOE's London District and South West Regional Offices. Due to the large and detailed project scope, the Terms of Reference dictated three distinct phases for the PPCP to be undertaken over a projected 6 year period.

Given the anticipated fees for the project and the complexity of the assignment, the procurement of consulting services followed a two stage process including Requests for Expressions of Interest and Requests for Proposals. This process clearly identified the three phase approach to the project. CH2M Hill was ultimately selected and retained through this two stage procurement process which followed Section 15.2(e) of the City of London's Procurement of Goods and Services Policy. CH2M Hill completed Phase I in December 2013 to the City's satisfaction. Phase II of this project is now ready to commence.

Phase I of the Pollution Prevention and Control Plan included initiation of the project and master plan, background review of data and documentation, review of benthic studies and water quality data, inventory of sewer overflows, bypasses, and discharge points, determination of flow monitoring requirements and a preliminary ranking of sewer overflow and bypass discharge points. Five technical memos were prepared along with a Phase I summary report.

Phase II will continue the master plan process: characterization of the Thames River, including benthic and water quality sampling and testing at strategically located sites; hydrologic and hydraulic modelling of the different sewer sheds to determine sewer overflow frequencies and volumes; and, the development of a long and short list of sewer overflow and bypass control measures.

Phase III of this project will include refinement of the prioritization of the sewer overflow and bypass discharge points, alternative selection criteria and evaluation of preferred sewer overflow and bypass control measures.

The development of the PPCP is being managed by a Technical Steering Committee which includes membership from the City, MOE, Upper Thames River Conservation Authority (UTRCA) and the consultant team. Regular meetings provide direction for the development of all phases of the PPCP.

Throughout the project, there will be opportunities for input from the public, other government agencies, interest groups, non-governmental organizations and First Nations through public information centres and consultation. Phase I included a public information centre held on October 3, 2012. Phase II will include another public information centre which is currently planned for Spring, 2014.

CH2M Hill has submitted a proposal for Phase II work which includes an upset fee limit of \$322,042.00. This fee includes approximately \$100,000 of work related directly to benthic and water quality sampling and reporting. CH2M Hill has indicated a schedule of two and a half

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years to complete Phase II activities. This schedule is required to allow sufficient time to complete twelve (12) hydraulic sewer modelling and flow monitoring assignments. Individual hydraulic sewer modelling assignments will be awarded to multiple consultants through a separate two stage procurement process. A separate report will be brought forward to Council to award these modelling assignments.

#### **Summary:**

A Pollution Prevention and Control Plan will provide the City, Ministry of the Environment, Upper Thames River Conservation Authority and community with a long term plan for managing conveyance system sewer overflows and bypasses in London. The project will include investigations, development of sewer system models, mitigation strategies, and documentation to identify the problem areas and opportunities for reducing the discharge of untreated sewage into the Thames River. The plan will guide future investments to reduce overflow impacts.

The hiring of CH2M Hill to complete the next phase of the PPCP is in the best technical and financial interest of the City. It is recommended that CH2M Hill be awarded Phase II of the Pollution Prevention and Control Plan due to their previous involvement in Phase I development, as well as their knowledge and expertise with respect to development of PPCPs. Consulting fees for Phase II amount to an upset limit of \$322,042.00. CH2M Hill was previously awarded Phase I of the PPCP at an upset limit of 105,425.00 bringing the total proposed fees awarded to date to \$427,467.00. It is noted that Phase III consulting fees are not awarded at this time.

#### **Acknowledgements:**

This report was prepared within the Wastewater and Drainage Engineering Division by Kyle Chambers, P.Eng., Environmental Service Engineer and reviewed by Tom Copeland, P.Eng., Division Manager, Wastewater and Drainage Engineering.

<b>SUBMITTED BY:</b>	<b>RECOMMENDED BY:</b>
<b>JOHN LUCAS, P. ENG. DIRECTOR, WATER AND WASTEWATER</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>

January 28, 2014

/kjc

Attach: Appendix "A" – Sources of Financing

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c.c. Pat Shack, Budget Analyst