

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JANUARY 23, 2012</b>
<b>FROM:</b>	<b>RON STANDISH, P. Eng. DIRECTOR, WASTEWATER AND TREATMENT PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING ENGINEER FOR MUD CREEK SUBWATERSHED STUDY UPDATE</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Director, Wastewater and Treatment, Planning, Environmental and Engineering Services, the following actions **BE TAKEN** with respect to the appointment of a consultant for the Mud Creek Subwatershed Study Update.

- (a) Delcan Corporation (Consultant) 1223 Michael Street, Suite 100, Ottawa, Ontario Canada, K1J 7T2 **BE APPOINTED** Consulting Engineers for the Mud Creek Subwatershed Study Update in the amount of \$200,622.40 including contingency, excluding HST, in accordance with Section 15, Clause 15.2(g) of the Procurement of Goods and Services Policy;
- (b) the financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix "A";
- (c) the consulting fees for the project identified in (a), above, **BE IN ACCORDANCE** with the estimate, on file, which are based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers;
- (d) the approvals 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.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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Appointment of Consulting Engineer for Municipal Class Environmental Assessment Study for Storm/Drainage and Stormwater Management Servicing Works for Mud Creek East Drainage Area

<b>BACKGROUND</b>
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**Purpose:**

To appoint the engineering consultant for Mud Creek Subwatershed Study Update-Water Resources Component. The study will address development activities that had occurred within the Mud Creek since the previous study in 1995. In 1995 about 40% of Mud Creek was developed while in 2010, percentage of developed land increased to over 80%. The location of the Mud Creek Subwatershed is shown in Appendix 'B'.

**Context:**

In 1995, the Mud Creek Subwatershed Study (MCSS) was completed, providing guidance for management of the subwatershed. Considerable activity in the subwatershed has occurred since the study was completed, in terms of continual monitoring and studies, and also in terms of planning for development in the subwatershed. In addition to having a better understanding of existing conditions and of the relationships between land uses and ecosystem health in the subwatershed in general, there is updated information available regarding the nature of growth in this area of the City and the nature of SWM facilities contemplated and constructed since the subwatershed study.

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The purpose of this subwatershed study is to undertake the necessary update to the water resources management component of the original subwatershed study and confirm the ecological conditions in the subwatershed in relation to the water resources system. The Study Update will be done in accordance with the Municipal Class Environmental Assessment (EA) process by completing the first two phases. It will include public meetings, evaluation criteria, alternative solutions and determination of a preferred solution. The update will provide an opportunity to confirm SWM requirements/benefits on a subwatershed basis, in addition to providing a more complete understanding regarding the individual/collective operation/sizing of proposed SWM facilities. The study will also assess how SWM facilities can/will operate together, identifying how storage can be optimized to address the confirmed or updated stormwater objectives. In addition, the Mud Creek Subwatershed Study Update will provide the following:

- Information on water quality, sediment loading, hydrologic conditions and hydraulic capacity of Mud Creek Subwatershed;
- Floodplain maps for all storm events and different scenarios;
- Update of watershed SWM erosion criteria and environmental targets that will lead to a stable creek channel;
- Review and update the SWM flood (attenuation) criteria which will require development and evaluation of several proposed future alternatives for the subwatershed;
- Review of Alternative Subwatershed Management Strategies and consistency with the Municipal EA process;
- Recommendation of Subwatershed Management Plan including: Updating of Subwatershed-wide Management Strategies, Updating of Tributary Facts Sheets and Updating of Design Details for Planned SWM Facilities;
- Incorporate recommendations from the Vulnerability of Infrastructure to Climate Change Study into the Subwatershed Study;

In order to meet the requirement of the Municipal Class EA process a minimum of 2 public meetings or open houses will be conducted during the course of the project. All applicable agencies will also be engaged in the review of the study update.

**Discussion:**

The assignment of this project was based on a request for proposal of the short-listed engineering consulting firms, of which there were three firms requested to state their approach to the proposed project and their experience and knowledge of projects similar in nature. The successful consultant was selected using the Quality Based Selection approach where the financial component of engineering services was opened after the evaluation of the work plan proposal. The objective of the Quality Based Selection process is to identify the most qualified consulting team to perform the work at a fair and reasonable price.

PEESD recommends to Council that Delcan be awarded the Contract for Mud Creek Subwatershed Study Update. Based on review of written proposals, Delcan demonstrated an understanding of the City’s requirements for this project and Delcan’s budget was significantly less than the other two proposals. In addition, Delcan was awarded and completed the Dingman Subwatershed Study update (DCSSU) in 2005 and subsequently completed the Dingman Wetland Municipal Class EA in 2008. Delcan demonstrated very significant background knowledge of the London area, knowledge of the City’s requirements and a high level of competency as the consultant for DCSSU. Delcan’s proposal and work program meets the schedule and delivery requirements to complete the Mud Creek Subwatershed Study within approximately 7 months from the project initiation.

The total estimated cost associated with the Mud Creek Subwatershed Study Update is \$200,622.40 including contingency, excluding HST.

**Conclusions:**

Three consultants have provided written proposals, including a detailed work program, estimate of fees, and schedule. Through a review of Delcan’s proposal, staff considers this consultant to have demonstrated an understanding of the City’s requirements for this project and will provide best value to the City. Upon review of the financial proposals it was determined that Delcan’s budget was significantly less than other two proposals. Therefore, it is recommended that Delcan be authorized to complete the Mud Creek Subwatershed Study Update to the upset limit of \$200,622.40 including contingency excluding HST.

**Acknowledgements:**

This report was prepared by Dragan Sredojevic of the Planning, Environmental Engineering Services Department, Stormwater Management Unit.

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<b>SUBMITTED BY:</b>	<b>RECOMMENDED BY:</b>
<b>BERTA KRICKER, M.Eng., F.E.C., P. Eng. MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT</b>	<b>RON STANDISH, P.ENG. DIRECTOR, WASTEWATER AND TREATMENT – PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES</b>
<b>REVIEWED &amp; CONCURRED BY:</b>	
<b>PAT MCNALLY, P.ENG. EXECUTIVE DIRECTOR OF PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES</b>	

January 26, 2012

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Attach: Appendix "A" – Sources of Financing  
Appendix "B" – Location Map

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Cc: Delcan  
John Braam, City Engineer  
Mary Goss, Budget analyst