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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON OCTOBER 22, 2012</b>
<b>FROM:</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING SERVICES FOR THE DINGMAN CREEK SUBWATERSHED STUDY UPDATE</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of a consultant for the Dingman Creek Subwatershed Study Update:

- (a) Delcan (Consultant) 1069 Wellington Road South, Suite 214, London, Ontario, Canada, N6E 2H6 **BE APPOINTED** Consulting Engineers for the Dingman Creek Subwatershed Study Update in the amount of \$327,159, excluding HST, including allowances for contingency and provisional items for a physical survey and Westminster Wetland Investigation and Water Balance Review, in accordance with Section 15, Clause 15.2(d) 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 is 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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Built and Natural Environment Committee, June 13, 2011, Climate Change Adaptation Strategy Phase 1 Completion

Environment and Transportation Committee, September 27, 2010, Phase 1 – Climate Change Adaptation Strategy Studies

Environment and Transportation Committee, July 14, 2008, Appointment of the consultants for Phase 1 Climate Change Adaptation Strategy

Board of Control, May 28 2008, 2008 Wastewater and Treatment Emergent Projects (a) - ES2470 Climate Change Strategy

Environment and Transportation Committee, December 10, 2007, Review of Rainfall Intensity Duration Frequency Curves for City of London under Climate Change

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

This report recommends the appointment of an engineering consultant to provide engineering services to complete the Dingman Creek Subwatershed Study Update.

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**Context:**

The main objectives of the Dingman Creek Subwatershed Study (DCSS) and the Dingman Creek Subwatershed Study Update (DCSSU) – approved by City Council in 1995 and 2005 respectively – was to make every effort to preserve main functions and features of the Natural Heritage System (NHS), minimize the impacts of existing land uses and to ensure that future development proceeded in a manner that does not impair the key functions of the physical and biological systems which support to maintain/protect and enhance water resources system in the subwatershed.

The DCSS instituted the subwatershed management strategy to maintain and enhance the water resources, environmental and ecological performance and health of the system under existing and future land uses that the DCSSU subsequently reaffirmed.

In 2011, the Planning, Environmental and Engineering Services Department of the City of London was directed by City Council to undertake the Dingman Creek Subwatershed Study Update (DCSSU) in relation to water resources components including an evaluation of slope stability with the City's boundaries under the Climate Change conditions using the Upper Bound (CC\_UB) scenarios that would assess the impacts of these scenarios on the City's infrastructure in order to recommend mitigation strategies that will lead to develop Climate Change Adaptation Policies.

The main objectives of this Dingman Creek Subwatershed Study Update (DCSSU) under the Climate Change conditions are require to include, but are not limited to:

- 1) Review and update the waters resources inventory, analysis (hydraulic, hydrologic, erosion);
- 2) Develop a preliminary slope stability evaluation/assessment;
- 3) confirm the preliminary ecological conditions in the subwatershed only in relation to the water resources system;
- 4) Determine the risk impact of flooding from extreme storm events on critical City infrastructure and recommend potential risk-reducing measures/strategy; and
- 5) Provide slope stability strategy to maintain or if required to enhance slope stability conditions under extreme storm events and recommend risk-reducing measures/strategy.

The Study will be consistent with the Municipal Class Environmental Assessment (EA) process by completing the first phase and appropriate effort of the second phase such that a mitigation strategy is recommended.

**Discussion:**

Four consultants were requested to submit Proposals for this project of which two consultants provided proposals, which included a detailed work program, estimate of fees, and schedule. The proposals were reviewed using Quality Based Selection and evaluated based on study approach, staff experience, study team, process for quality assurance/scheduling/cost control, understanding and knowledge of City standards and approval agency requirements, and consultant appraisal rating. Based on staff review of the proposals, staff considers Delcan's proposal to provide the best value to the City based on their understanding of the City's requirements.

Delcan completed the Dingman Creek Subwatershed Study Update and the Municipal Class Environmental Assessment for Dingman Creek Erosion Control Wetland. This consultant has extensive knowledge of the subwatershed and of the City's infrastructure.

The total estimated cost associated with the Dingman Creek Subwatershed Study Update is \$327,159.00. This fee estimate includes a contingency allowance of \$26,251 as well as provisional items for a physical survey of \$17,900 and Westminster Wetland Investigation and Water Balance Review of \$20,500. The use of the contingency funds would be considered only upon additional work required beyond the current scope and work plan proposal accepted by the City.


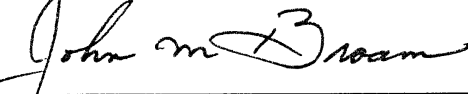
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**Conclusions:**

It is recommended that Delcan be retained as the consultant for the Dingman Creek Subwatershed Study Update. The estimated total cost associated with completing these works \$327,159 excluding HST and including a contingency allowance and provisional items for a physical survey and Westminster Wetland Investigation and Water Balance Review.

**Acknowledgements:**

This report was prepared within the Planning, Environmental Engineering Services Department within the Stormwater Management Unit by Billy Haklander, Environmental Services Engineer.

SUBMITTED BY:	RECOMMENDED BY:
	
<b>BERTA KRICKER, M.ENG., F.E.C., P.ENG. MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>

October 10, 2012

/BH

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

Cc: John Braam – Managing Director Environmental and Engineering Services and City Engineer  
John Freeman – Manager, Purchasing and Supply  
Pat Shack – Budget Analyst  
Delcan

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Chair and Members  
Civic Works Committee

October 12, 2012  
(Appoint Consulting Engineer)

RE: Dingman Creek Subwatershed Study Update  
Capital Project ES2682 - Dingman Erosion Control and Wetland Remediation Works  
Delcan - \$327,159.00 (excluding H.S.T.)

**FINANCE DEPARTMENT REPORT ON THE SOURCES OF FINANCING:**

Finance Department confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services and City Engineer, the detailed source of financing for this project is:

<b><u>ESTIMATED EXPENDITURES</u></b>	<b><u>Approved Budget</u></b>	<b><u>Committed to Date</u></b>	<b><u>This Submission</u></b>	<b><u>Balance for Future Work</u></b>
Engineering	\$1,369,000	\$966,620	\$332,917	\$69,463
Land Purchase	5,380,000	6,923		5,373,077
Construction	2,617,879			2,617,879
City Related Expenses	3,121	3,121		0
<b>NET ESTIMATED EXPENDITURES</b>	<b><u>\$9,370,000</u></b>	<b><u>\$976,664</u></b>	<b><u>\$332,917</u></b> 1)	<b><u>\$8,060,419</u></b>

**SOURCE OF FINANCING:**

Debenture Quota	2)	\$2,359,800	\$245,969	\$83,844	\$2,029,987
Drawdown from Sewage Works Reserve Fund		5,943,700	619,530	211,180	5,112,990
Drawdown from City Services - Stormwater Management R.F. (Development Charges)	3)	1,066,500	111,165	37,893	917,442
<b>TOTAL FINANCING</b>		<b><u>\$9,370,000</u></b>	<b><u>\$976,664</u></b>	<b><u>\$332,917</u></b>	<b><u>\$8,060,419</u></b>

**Financial Note:**

1) Contract Price	\$327,159
Add: HST @13%	42,531
Total Contract Price Including Taxes	<u>369,690</u>
Less: HST Rebate	<u>36,773</u>
Net Contract Price	<u><u>\$332,917</u></u>

**NOTE TO CITY CLERK:**

- 2) Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary authorizing by-laws.

An authorizing by-law should be drafted to secure debenture financing for Project ES2682 - Dingman Erosion Control and Wetland Remediation Works for the net amount to be debentured of \$2,359,800.

- 3) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2009.

JG



Alan Dunbar  
Manager of Financial Planning & Policy

**APPENDIX 'B'**

