

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON OCTOBER 22, 2019</b>
<b>FROM:</b>	<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR - ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT</b>	<b>PROPOSED EXPANSION OF THE W12A LANDFILL SITE: UPDATED ENVIRONMENTAL ASSESSMENT ENGINEERING CONSULTING COSTS</b>

### RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of various Consulting Engineers for the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill:

- a) AECOM Canada Ltd. **BE APPOINTED** to carry out additional biology studies as part of the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill, in the total amount of \$9,500, excluding HST, in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- b) Dillon Consulting Ltd. **BE APPOINTED** to carry out additional hydrogeology studies and Aboriginal consultation as part of the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill, in the total amount of \$79,800, excluding HST, in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- c) Golder Associates Ltd. **BE APPOINTED** to carry out additional atmosphere studies, refinement of various study parameters and additional Aboriginal consultation as part of the Individual Environmental Assessment process for the proposed expansion of the W12A Landfill, in the total amount of \$44,000, excluding HST, in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- d) the financing for the work identified in (a), above, **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix "A";
- e) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work; and
- f) 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

Relevant reports that can be found at [www.london.ca](http://www.london.ca) under City Hall (Meetings – Council and Standing Committees) include:

- Update on the Environmental Assessment Process for the Proposed Expansion of the W12A Landfill Site (September 24, 2019 meeting of the Civic Works Committee (CWC), Item #2.3)
- Appointment of Consulting Engineer for Various Technical Studies as part of the Environmental Assessment Process for the Proposed Expansion of the W12A Landfill Site (July 17, 2017 meeting of the CWC, Item #6)

- Update and Next Steps – Resource Recovery Strategy and Residual Waste Disposal Strategy as Part of the Environmental Assessment Process (February 7, 2017 meeting of the CWC, Item #10)
- Appointment of Consulting Engineer Long Term Solid Waste Resource Recovery and Disposal Plans (May 24, 2016 meeting of the CWC, Item #10)

## COUNCIL'S 2015-2019 STRATEGIC PLAN

Municipal Council has recognized the importance of solid waste management in its 2019-2023 - Strategic Plan for the City of London as follows:

### **Building a Sustainable City**

London has a strong and healthy environment

- Build infrastructure to support future development and protect the environment

### **Growing our Economy**

London is a leader in Ontario for attracting new jobs and investments

- Build infrastructure to support future development and retain existing jobs

### **Leading in Public Service**

Londoners experience exceptional and valued customer service

- Increase community and resident satisfaction of their service experience with the City

## BACKGROUND

### **PURPOSE**

This report seeks approval from Committee and Council to retain engineering consultants to undertake various studies, including associated Aboriginal consultation, for the environmental assessment (EA) of the proposed expansion of the W12A Landfill that are the result of commitments made in the Terms of Reference (ToR).

### **CONTEXT**

In 2015, Council directed staff to develop a long term residual waste disposal plan. Part of the plan includes an Individual EA for the expansion of the W12A Landfill. The W12A Landfill is expected to reach capacity in 2024.

There are different classes (types) of EAs depending on the type and complexity of the undertaking (project). The most rigorous EA is an Individual EA. An individual EA is less prescribed than the more common class EAs and the level of work is not finalized until the ToR is approved by the Minister of the Environment, Conservation and Parks. The ToR becomes the framework (work plan) for completing the EA.

The ToR was approved on July 30, 2019. During the approval process, a number of additional work items were identified and built into the technical studies and overall process. The budgets for the studies have also been updated to include input received from aboriginal consultation that took place in August and September 2019. Consulting engineer's quotes were recently received for the additional work.

## DISCUSSION

### **Budget**

The budget for long term waste management planning, Capital Account SW6051, is summarized in Tables 1 and 2.

**Table 1: Budget for Proposed W12A Landfill Expansion (SW6051)**

Item	Budget <sup>a</sup>	Comment
<b>Budget Breakdown</b>		
EA for Long Term Residual Waste Disposal (Landfill Expansion)	\$2,398,000	All costs associated with the EA approval of the expansion of the W12A Landfill.
Resource Recovery Initiatives & Strategy	\$410,000	Preliminary planning for development of resource recovery area east of W12A Landfill.
Total	\$2,808,000	

**Table 2: Status of EA Budget**

Item	Budget	Comment
Spent to date	\$690,000	Cost to develop and obtain approval of ToR and undertake some work on the technical studies.
Committed to date - consulting	\$700,000	Primarily consulting fees for remaining EA technical studies.
Revised consulting fees	\$136,000	This submission (including HST).
Assigned to date (Future costs)	\$770,000	Primarily consulting fees, project management costs, community engagement costs.
Contingency Available	\$102,000	Funds available to cover future additional costs.
Total	\$2,398,000	

Notes: a) Rounded to the nearest \$1,000.

The approved Amended ToR contained over 20 commitments including commitments to consult with Indigenous groups, prepare detailed work plans for certain studies and refine the service area, study areas, criteria and alternative methods. These commitments are listed in Table 3 and will result in additional costs to complete the EA.

**Table 3 – ToR Commitments**

ID	ToR Commitment
4	The City will contact Indigenous groups to discuss their consultation needs and continue to involve them in the EA process.
5	Where described in the ToR for the environmental components, detailed work plans for the technical studies will be prepared and provided to the appropriate Government Review Team (GRT) agency for review and concurrence.
6	The City will share work plans with Indigenous Communities and post work plans on the project website.
8	During the EA, assumptions used in determining the projected residual waste from the existing service area will be refined and assessed. During the EA the proposed regional service area will be confirmed and further assessed. These will be described in the EA study report.
10	During the EA, the preliminary criteria and indicators for each of the environmental components will be refined and described in the EA study report.
11	The preliminary Study Areas will be reviewed and confirmed during the EA and described in the EA study report.
12	The individual Alternative Methods of expanding the W12A Landfill will be identified, refined and confirmed during the EA, and described in the EA study report.

### **Indigenous Consultation**

A number of Indigenous communities have been actively participating in the EA process to-date and plan to continue to participate. The level of consultation with Indigenous communities is greater than what was originally anticipated prior to development of the ToR. Consultation to-date has included:

- meetings with individual groups
- having site monitors from Indigenous communities participate in archeological field work
- touring of the City's W12A Landfill and Material Recovery Facility (MRF)
- holding a workshop to review the detailed groundwater work plan.

Changes were made to the groundwater work plan to address concerns raised at the groundwater workshop. These changes include providing additional documentation and undertaking additional field work.

As part of the consultation process, financial support has been provided to cover the cost of various known as well as unexpected expenses of the Indigenous communities (e.g., site monitors, peer review of work plans, etc.). At this point in time, the requested and estimated funds can be accommodated within budget. However, should existing work requirements further increase or new work be introduced, City staff may be required to present Committee and Council with revised project costs.

The participation of the Indigenous communities has improved the overall EA process as well as the quality of individual studies such as archeology and groundwater. This should result in a smoother approval process when the EA documents are submitted to the Ministry of the Environment, Conservation and Parks (MECP) for approval.

### **Detailed Work Plans**

General work plans for all technical studies were included in the Amended ToR. The MECP requested that detailed work plans be prepared for four technical studies and provided to the appropriate Government Review Team (GRT) agency for review and concurrence. The studies that require a detailed work plan are atmosphere (air quality, dust, noise and odour) biology, groundwater and surface water.

The original technical budgets did not include an allowance for the preparation of detailed work plans or additional work as a result of the review of the work plans by the GRT.

### **Refinement of Service Area, Study Areas, Criteria and Alternative Methods**

Service area refers to the area that the landfill can receive waste from. The study area is the area that will be examined when looking at impacts from the landfill. Alternative methods refer to the various landfill expansion alternatives (e.g., combinations of vertical and/or lateral expansions). The criteria are the measures that will be used to compare the various landfill expansion alternatives in order to select the preferred expansion alternative.

It was originally anticipated that these parameters would be finalized in the ToR and require no further study in the EA.

### **Updated Consulting Engineering Costs**

The cost of the additional consultation with Indigenous communities as well as the additional field work has been accommodated within the existing budget to-date but the budget of some of the consultants will need to be increased to provide the necessary resources going forward to address the commitments made in the ToR (Table 4).

**Table 4 – Updated EA Costs**

<b>Study and Consultant</b>	<b>Additional Cost</b>	<b>Comments</b>
Groundwater/ Dillon Consulting	\$79,800	<ul style="list-style-type: none"> <li>• Undertake preparation of detailed groundwater work plan for review and concurrence by GRT</li> <li>• Undertake additional field studies as a result of preparation of detailed work plan and stakeholder engagement. Additional field work includes further examination of the potential impact of fractures in the surficial till soils to impact the transport of contaminants from the landfill</li> <li>• Undertake additional Indigenous community consultation during EA</li> </ul>
Biology/ AECOM	\$9,500	<ul style="list-style-type: none"> <li>• Undertake preparation of detailed biology work plan for review and concurrence by GRT</li> <li>• Undertake additional field studies as a result of preliminary investigations including assessment of local wetland feature</li> </ul>
Archeology, Atmosphere, and overall EA Process/ Golder Associates	\$44,000	<ul style="list-style-type: none"> <li>• Undertake preparation of detailed atmosphere work plan for review and concurrence by GRT</li> <li>• Refinement of Service Area, Study Areas, Criteria and Alternative Methods</li> <li>• Undertaken additional Indigenous community consultation during EA</li> </ul>

**Summary**

The additional consulting engineering fees of \$133,300 to address the commitments made in the ToR can be accommodated within the existing budget. There may be additional costs in the future depending on what is found during the detailed EA studies and to address input from stakeholders and Aboriginal communities. Depending on these costs, the EA budget may need to be increased in the future.

<b>PREPARED BY:</b>	
<b>WESLEY ABBOTT, P. ENG. PROJECT MANAGER SOLID WASTE MANAGEMENT</b>	
<b>PREPARED AND SUBMITTED BY:</b>	<b>RECOMMENDED BY:</b>
<b>JAY STANFORD, M.A., M.P.A. DIRECTOR, ENVIRONMENT, FLEET &amp; SOLID WASTE</b>	<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>

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Attachment: Appendix A – Source of Financing

- c: John Freeman, Manager, Purchasing and Supply  
AECOM Canada Ltd. (50 Sportsworld Crossing Rd, Kitchener, ON N2P 0A4)  
Dillon Consulting Ltd. (130 Dufferin Avenue Suite 1400, London, Ontario, N6A 5R2)  
Golder Associates Ltd. (1931 Robertson Road, Ottawa, K2H 5B7)

**APPENDIX 'A'**

#19144

Chair and Members  
Civic Works Committee

October 22, 2019  
(Appoint Consulting Engineers)

**RE: Proposed Expansion of the W12A Landfill Site:  
Updated Environmental Assessment, Engineering Consulting Costs  
(Subledger NT16LF03)  
Capital Project SW6051 - Municipal Waste Study  
AECOM Canada Ltd. - \$9,500.00 (excluding H.S.T.)  
Dillon Consulting Ltd. - \$79,800.00 (excluding H.S.T.)  
Golder Associates Ltd. - \$44,000.00 (excluding H.S.T.)**

**FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:**

Finance & Corporate Services 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 & City Engineer, the detailed source of financing for this project is:

<b><u>SUMMARY OF 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	\$2,607,638	\$1,273,473	\$135,645	\$1,198,520
City Related Expenses	200,000	116,617		83,383
<b>NET ESTIMATED EXPENDITURES</b>	<b><u>\$2,807,638</u></b>	<b><u>\$1,390,090</u></b>	<b><u>\$135,645</u></b> 1)	<b><u>\$1,281,903</u></b>

**SUMMARY OF FINANCING:**

Drawdown from Sanitary Landfill Reserve Fund	\$2,807,638	\$1,390,090	\$135,645	\$1,281,903
<b>TOTAL FINANCING</b>	<b><u>\$2,807,638</u></b>	<b><u>\$1,390,090</u></b>	<b><u>\$135,645</u></b>	<b><u>\$1,281,903</u></b>

1) **Financial Note:**

	<b><u>AECOM Canada Ltd.</u></b>	<b><u>Dillon Consulting Ltd.</u></b>	<b><u>Golder Associates Ltd.</u></b>	<b><u>Total</u></b>
Contract Price	\$9,500	\$79,800	\$44,000	\$133,300
Add: HST @13%	1,235	10,374	5,720	17,329
Total Contract Price Including Taxes	10,735	90,174	49,720	150,629
Less: HST Rebate	1,068	8,970	4,946	14,984
Net Contract Price	<u>\$9,667</u>	<u>\$81,204</u>	<u>\$44,774</u>	<u>\$135,645</u>

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Jason Davies  
Manager of Financial Planning & Policy