

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 25, 2018</b>
<b>FROM:</b>	<b>KELLY SCHERR, P.ENG. MANAGING DIRECTOR ENVIRONMENTAL &amp; ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>HYDE PARK COMMUNITY STORM DRAINAGE AND STORMWATER MANAGEMENT SERVICING MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT ADDENDUM: SCHEDULE B MASTER PLAN NOTICE OF STUDY COMPLETION</b>

**RECOMMENDATION**

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the Hyde Park Community Storm Drainage and Stormwater Management Servicing Municipal Class Environmental Assessment Addendum: Schedule 'B' Master Plan:

- (a) The preferred servicing alternative, executive summary attached as Appendix 'A', **BE ACCEPTED** in accordance with the Municipal Class Environmental Assessment process requirements;
- (b) A Notice of Study Completion **BE FILED** with the Municipal Clerk; and
- (c) The Municipal Class Environmental Assessment project file **BE PLACED** on public record for a 30-day review period.

**PREVIOUS REPORTS PERTINENT TO THIS MATTER**

Civic Works Committee, November 25, 2013 – Hyde Park Nos. 5 and 6 Stormwater Management Facilities

Civic Works Committee, April 7, 2014 – Appointment of Consulting Engineer for Engineering Services for the Functional and Detailed Design of the Hyde Park No. 6 SWMF

Civic Works Committee, April 28, 2014 – Appointment of Consulting Engineer for the Engineering Services for the Functional and Detailed Design of Hyde Park No. 5 SWMF

Civic Works Committee, May 24, 2016 – Appointment of Consulting Engineer: Hyde Park Community Stormwater Servicing Environmental Assessment Addendum Consulting Appointment

Civic Works Committee, August 29, 2017 – Low Impact Development Stormwater Management Guidance Manual (EBR Registry Number: 012-9080)

**2015 – 2019 STRATEGIC PLAN**

The following report supports the 2015 – 2019 Strategic Plan through the strategic focus area of Building a Sustainable City including:

- Robust Infrastructure 1B – Manage and improve water, wastewater, and stormwater infrastructure.

## BACKGROUND

### Purpose

To identify the preferred servicing alternative developed in the Hyde Park Community Storm Drainage and Stormwater Management Servicing Municipal Class Environmental Assessment Addendum Study (2018 Hyde Park EA Addendum), and recommend filing the Notice of Study Completion and to initiate the 30-day public review period.

### Context

In 2002, the City of London completed a Schedule B Municipal Class Environmental Assessment to meet planned growth and address stormwater quality, quantity and erosion control measures for the Hyde Park area. To date, four of six recommended stormwater management (SWM) facilities have been constructed along with improvements to the Stanton Drain. Several interim SWM facilities have also been constructed to address growth demands as development has occurred.

In consideration of the SWM facilities implemented to date, new SWM methodology and policy, and anticipated development patterns, the City has prepared an update to the original storm drainage and SWM servicing strategy.

## DISCUSSION

The Hyde Park Community Storm Drainage and Stormwater Management Servicing Municipal Class Environmental Assessment Study (2002 Hyde Park EA) was completed in 2002 by AECOM Canada Ltd. (formerly EarthTech). The 2002 Hyde Park EA recommended a stormwater servicing plan that included a total of six SWM facilities to mitigate the impacts of growth in the Hyde Park area (See Appendix 'A' - Executive Summary for study area).

Since 2002, substantial new development has occurred in the Hyde Park area including numerous parcels of big block commercial, all forms of residential, and major arterial road works. To service this development, the City has constructed four out of the six SWM facilities recommended by the 2002 Hyde Park EA.

The 2002 Hyde Park EA study applied an “end-of-pipe” regional SWM facility approach. This means that the stormwater runoff from development is treated and controlled by large wet ponds located at the downstream end of storm sewers or channels. At the time, this was the accepted methodology for providing SWM.

Today, the methodology and evolving policy for SWM is moving towards the inclusion of “at-source” controls or Low Impact Development (LID). Effectively, at-source controls act as sponges throughout the watershed to soak up rainwater and infiltrate it back into the ground. This may be in the form of a rain garden or wetland or an underground perforated pipe. The utilization of at-source controls looks to distribute SWM throughout the catchment instead of at a singular downstream end-of-pipe location. The benefits provided by the at-source methodology includes reduced conveyance infrastructure, as well as opportunities to promote infiltration of stormwater runoff to help meet water balance, groundwater recharge, and environmental objectives.

In 2016, the City retained AECOM to conduct an addendum to the 2002 Hyde Park EA.

The 2018 Hyde Park EA Addendum recommends new servicing solutions for the undeveloped lands in consideration of the latest SWM practices, including at-source LID measures and the City's permanent private systems policy (adopted in 2012). The scope of the 2018 Hyde Park EA Addendum includes optimizing existing SWM facilities, updating the current development patterns, applying updated computer software, First Nations consultation, and an evaluation of the alternatives in the current planning and environmental context.

### **Public/Stakeholder Consultation**

As part of the study, one public information centre (PIC) was conducted. Notifications for the meeting were published in the two weeks preceding the PIC, as well as on the City's webpage. The meeting was held on June 27, 2017 at Medway Community Centre, located at 119 Sherwood Forest Square. The meeting was attended by the public and affected property owners. Notifications of the project were also sent to applicable federal, provincial, and municipal stakeholders, as well as local First Nations.

The meeting was also a public participation meeting for Hyde Park No. 5 and Hyde Park No. 6 SWM facilities (identified in the 2002 environmental assessment study) as directed by the Council resolution dated December 4, 2013. Notice for the public participation meeting was included as part of the notice issued for the commencement of the 2018 Hyde Park EA Addendum study and for the PIC, including project mail out, City's project webpage and newspaper advertisements.

### **Preferred Servicing Alternative**

The identified preferred servicing alternative for the Hyde Park area eliminates the need for two previously considered end-of-pipe SWM facilities and recommends the retrofit or expansion of the existing SWM facilities. The recommended solution also incorporates at-source LID and permanent private stormwater systems controls.

Based on the updated analysis, the preferred servicing alternative includes the following key solutions.

- Eliminate 2 previously proposed ponds (Hyde Park No. 5 and No. 6).
- Decommission the existing temporary Matthews Hall SWM facility.
- Retrofit four existing ponds (Hyde Park No. 1, 1B1, 3E, and 4) without the need for further land.
- Construct a channel and storm sewer from Sarnia Road to Hyde Park Pond 1B1.
- Remediate a portion of the Stanton Drain between Gainsborough Road and the Canadian Pacific rail-line, incorporating a natural channel design.
- Integrate permanent private stormwater system measures and Low Impact Development technologies as part of future developments and road widenings.
- Provide stormwater drainage enhancements to several existing areas including the North Routledge industrial area, Canterbury Estate subdivision, and Sarnia Road.

### **Advantages of the Revised Servicing Strategy**

Advantages of the preferred servicing strategy recommended through the 2018 Hyde Park EA Addendum include:

- Reduced environmental impacts by removing the need for Hyde Park SWM facility No. 5 whose location potentially had natural heritage impacts.

- Reduced land impacts by optimizing the use of existing City owned lands for SWM facility retrofits / expansion.
- Improved environmental benefits through the infiltration of rainwater to provide water balance and groundwater recharge.
- Decommissioning of an existing temporary SWM facility whose property will be resold and residential building lots.
- Reduced capital costs with the revised strategy.

### **Agency Comments**

The Ministry of the Environment and Climate Change (MOECC) has reviewed and commented on the draft study. The MOECC has commented that it has no surface water concerns with the addendum's recommendations.

The Environmental and Ecological Planning Advisory Committee (EEPAC) has reviewed the study and has no comments to add to the work completed in the study.

### **Cost Estimate**

There is \$7.7M in the budget approved to construct the remaining 2002 Hyde Park EA works including SWM Facility 5, SWM Facility 6, and the completion of the Stanton Drain remediation.

The consultant's cost estimate to complete the capital works identified in the 2018 Hyde Park EA Addendum is \$6.9M, representing an estimated cost savings of \$800,000 within the currently approved budget.

### **Timing of Next Steps**

The following steps will be taken to finalize the 2018 Hyde Park EA Addendum, Schedule 'B' Master Plan:

1. Upon acceptance by Council, commence the 30 day review period:
  - A "Notice of Study Completion" will be published identifying that the study report is available for public review for the mandatory 30 calendar days at City Hall – 9<sup>th</sup> Floor, City of London Library (Sherwood Branch), and online at: <http://www.london.ca/residents/Environment/EAs/Pages/Hyde-Park-Community-Stormwater-Servicing-.aspx>
  - Stakeholders are encouraged to provide input and comments regarding this study during the 30-day review period. Should stakeholders feel that issues have not been adequately addressed for specific projects identified within the Schedule B Master Plan, they can provide written notification within the 30-day review period to the Minister of the Environment, Conservation and Parks requesting further consideration via the "Part II Order Request" form available from the Ontario Provincial Government website. This process is termed a "Part II Order" (informally known as a Bump-Up Request).
2. Construct the Preferred Servicing Alternative
  - The anticipated implementation timing of the stormwater servicing strategy is provided in the Appendix 'A' – Executive Summary, noting that the majority of capital works are proposed for construction within the 2-5 year period. Permits and approvals for the proposed works will be obtained at the detailed design

stage from the appropriate regulatory authorities.

<b>CONCLUSIONS</b>
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A holistic approach has been adopted through the 2018 Hyde Park EA Addendum assessment process. The preferred servicing alternative includes the strategic implementation of LID and permanent private stormwater systems, optimization of existing SWM facilities, and construction of new conveyance measures. The preferred servicing alternative has removed the need for two planned SWM facilities and provides a consistent approach with new SWM policy to service the Hyde Park development area. Staff recommends that the preferred servicing alternatives identified be accepted and posted for the 30-day public review period.

**Acknowledgements**

This document has been prepared by David Gough, P.Eng., Environmental Services Engineer.

<b>SUBMITTED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
<b>SHAWNA CHAMBERS, P.ENG. DIVISION MANAGER, STORMWATER MANAGEMENT</b>	<b>SCOTT MATHERS, MPA, P. ENG. DIRECTOR, WATER AND WASTEWATER</b>
<b>RECOMMENDED BY:</b>	
<b>KELLY SCHERR, P. ENG., FEC MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

September 14, 2018

Attach: Appendix 'A' – Executive Summary

cc. John Hassan, AECOM  
Alan Dunbar, City of London  
Jason Davies, City of London