



Terms of Reference:

# Stormwater Management Study

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Town of Milton  
January 2023

**Disclaimer:** Terms of Reference documents will be reviewed and updated as necessary to reflect current policies, practices and accepted standards.

## 1. What is the purpose of this?

A stormwater management study is an evaluation of the effects that the proposed development may have on the natural environment, surrounding lands and the municipal stormwater infrastructure system. The study provides mitigative measures to control stormwater runoff and snowmelt, promotes infiltration of rainwater to recharge the groundwater table, reduces the impacts of flooding and improves the quality of stormwater runoff on the natural environment.

## 2. Who should prepare this?

The stormwater management study should be prepared by a qualified professional engineer with experience in municipal engineering or water resources engineering. This study may be a standalone document or combined with a functional servicing study.

## 3. When is this required?

A stormwater management study may be required as part of the following application(s):

- Zoning By-law Amendment;
- Draft Plan of Subdivision/Condominium;
- Site Plan Control; and,
- Site Alteration Permit.

## 4. Why do we need this?

The purpose of this study is to demonstrate that the stormwater (rainwater and snowmelt) from the development site is controlled in a coordinated manner to prevent the effects of flooding from urban development, to restore pre-development hydrologic functions, and improve water quality with the ultimate goal of maintaining healthy creeks, rivers, and lakes.

This study ensures compliance with the Environmental Protection Act, Ontario Water Resources Act, Planning Act and the Conservation Authorities Act, Provincial Policy Statement, Growth Plan as well as compliance with the Town's Official Plan and watershed/sub-watershed planning studies. The Town of Milton adheres to the recommendations of the Province regarding implementation of watershed management planning and the promotion of a comprehensive ecosystem approach.

The study recommends implementation of new stormwater infrastructure (public or private) or improvements to existing stormwater (public or private) infrastructure to support approval of the proposed development.

Prior to undertaking a stormwater management study, please confirm the terms of reference for the study with Town staff to ensure the design team has the applicable infrastructure planning, watershed/subwatershed study, area servicing studies and engineering standards.

Peer review of the stormwater management study may be required at the owner/developer's expense for the proposed development, in accordance with the Town's User Fee By-law.

## 5. What else should we know?

A stormwater management study supports the intent of the subwatershed study recommendations (where they exist) and provides staff with a basis on which to assess the environmental implications of the proposed development. It also provides staff with a basis on which to assess the increased demands on municipal infrastructure posed by the development, and the need for future study requirements, such as detailed designs. The study recommends improvements to municipal infrastructure and mitigative measures to reduce erosion, risk of flooding and maintain water quality in receiving stormwater systems.

## 6. What other resources are there?

Town of Milton - Engineering and Parks Standards Manual (2019)

\*Contact Town of Milton Engineering Staff by email to [Engineering@milton.ca](mailto:Engineering@milton.ca)

Town of Milton - Stormwater Management Website

<https://www.milton.ca/en/business-and-development/stormwater-management-ponds.aspx>

Town of Milton - Watershed, Subwatershed and Sub-watershed Impact Studies (refer to table below);

\*Contact Town of Milton Engineering Staff by email to [Engineering@Milton.ca](mailto:Engineering@Milton.ca)

Secondary Plan	Study Name
401 Industrial Business Park	Functional Stormwater and Environmental Management Strategy, Highway 401

Secondary Plan	Study Name
<a href="https://www.milton.ca/en/business-and-development/resources/401_IndBusPark_Schedule_s.pdf">https://www.milton.ca/en/business-and-development/resources/401_IndBusPark_Schedule_s.pdf</a>	Industrial/Business Park Secondary Planning Area, Phillips Engineering Ltd. (July 2000)
	Guidelines for Stormwater Management in Highpoint Business Park, Milton (2000) North Porta Comprehensive Environmental and Servicing Study 2022 (Under Development)
Bristol Survey Secondary Plan <a href="https://www.milton.ca/en/business-and-development/resources/bristol_schedules.pdf">https://www.milton.ca/en/business-and-development/resources/bristol_schedules.pdf</a>	Sixteen Mile Creek Subwatershed Planning Study, Phillips Engineering Ltd. (Jan 2000)
	Southwest Bristol Survey Neighbourhood Subwatershed Impact Study, MMM (May 2001)
Sherwood Survey Secondary Plan <a href="https://www.milton.ca/en/business-and-development/resources/sherwood_schedules.pdf">https://www.milton.ca/en/business-and-development/resources/sherwood_schedules.pdf</a>	Indian Creek / Sixteen Mile Creek, Sherwood Survey Subwatershed Management Study, Phillips Engineering Ltd. (Dec 2004)
	Milton Heights Subwatershed Impact Study Areas 1, 2, & 4
	Sherwood Subwatershed Impact Studies (various reports); Areas 5B, 6, 7, 9, 10
Boyne Survey Secondary Plan <a href="https://www.milton.ca/en/business-and-development/boyne-survey-secondary-plan.aspx#July-24-2017">https://www.milton.ca/en/business-and-development/boyne-survey-secondary-plan.aspx#July-24-2017</a>	Sixteen Mile Creek, Areas 2 & 7 Sub-watershed Update Study, AMEC (May 2015) <a href="https://www.milton.ca/en/business-and-development/resources/Boyne-Sixteen-Mile-Creek.pdf">https://www.milton.ca/en/business-and-development/resources/Boyne-Sixteen-Mile-Creek.pdf</a>
	Boyne Survey Secondary Plan, Functional Stormwater and Environmental Management Study, AMEC (Nov 2015)

Secondary Plan	Study Name
	<a href="https://www.milton.ca/en/business-and-development/resources/Boyne-Functional-Stormwater.pdf">https://www.milton.ca/en/business-and-development/resources/Boyne-Functional-Stormwater.pdf</a> Boyne Subwatershed Impact Studies (various reports); Block 1, Block 2 and Areas 5a, 5b and 6
Derry Green Business Park Secondary Plan <a href="https://www.milton.ca/en/business-and-development/resources/Derry_Green_Business-Park-Secondary-Plan-Consolidation.pdf">https://www.milton.ca/en/business-and-development/resources/Derry_Green_Business-Park-Secondary-Plan-Consolidation.pdf</a>	Sixteen Mile Creek, Areas 2 & 7 Sub-watershed Update Study, AMEC (May 2015) <a href="https://www.milton.ca/en/business-and-development/resources/Boyne-Sixteen-Mile-Creek.pdf">https://www.milton.ca/en/business-and-development/resources/Boyne-Sixteen-Mile-Creek.pdf</a> Derry Green Secondary Plan, Functional Stormwater and Environmental Management Study, AMEC (Nov 2015) Derry Green Subwatershed Impact Studies (various reports); Areas 1, 2, 3a, 3b, 4, 5a, 5b, 6
Trafalgar and Agerton Secondary Plans <a href="https://www.milton.ca/en/business-and-development/resources/2022-06-14_DRAFT-Agerton-Secondary-Plan-w-Schedules.pdf">https://www.milton.ca/en/business-and-development/resources/2022-06-14_DRAFT-Agerton-Secondary-Plan-w-Schedules.pdf</a>	South Milton Urban Expansion Area Sub-watershed Study, AMEC (under development)
Britannia Secondary Plan <a href="https://www.milton.ca/en/business-and-development/britannia-secondary-plan.aspx">https://www.milton.ca/en/business-and-development/britannia-secondary-plan.aspx</a>	South Milton Urban Expansion Area Sub-watershed Study, AMEC (under development)
Central Business District Secondary Plan <a href="https://www.milton.ca/en/business-and-development/resources/cbd_schedules.pdf">https://www.milton.ca/en/business-and-development/resources/cbd_schedules.pdf</a>	Contact Engineering at the Town of Milton
Campbellville, Brookville, Moffat Secondary Plan <a href="https://www.milton.ca/en/business-and-development/resources/campbellville-brookville-moffatschedules.pdf">https://www.milton.ca/en/business-and-development/resources/campbellville-brookville-moffatschedules.pdf</a>	Contact Engineering at the Town of Milton

Secondary Plan	Study Name
Other Studies	<u>Study Name</u>
	Sixteen Mile Creek Watershed Plan_Gore & Storrie (Feb 1996)
	Bronte Creek Watershed Study (2002)

Ontario Ministry of the Environment, Conservation and Parks - Stormwater Management Planning and Design Manual (2003 Guideline)  
<https://www.ontario.ca/document/stormwater-management-planning-and-design-manual-0>

Halton Region - Engineering Guidelines / Manuals  
<https://www.halton.ca/The-Region/Regional-Planning/Planning-Applications/Download-Engineering-Design-Guides-Manuals>