

# Stormwater Management CLI ECA Application to Municipality

## Pre-Construction

**Checklist** indicating completeness of application, shall be sent with Pre-Construction and Post-Construction packages

### **Design Brief/ Report**

**Detailed Design Drawings/ “For Construction” Drawings** (stamped & signed by P.Eng licensed in Ontario)

**Stormwater Management Plan**, including but not limited to;

- Description of project area
- SWM quantity & quality criteria; explanation of how they were established (Municipality, CA, Ontario Water Quality Objectives or Procedure B-1-5)
- Description of existing drainage patterns at the site and run-off outlet location(s), including the ultimate receiver(s)
- Stormwater run-off analysis (design storms, hydrologic parameters for pre-development and post-development conditions, modeling results, pre-development and post-development peak flows and volumes)
- Description of how the established quantity and quality controls criteria will be met
- Design details for each component of SWM system(s), including the capacity
- Hydraulic Design Sheets/ Calculations
- Water Quality Design Features and Oil and Grit Separator Design Sheets
- Hydraulic performance of the system verifying storm sewer capture rates and major and minor system capacities.
- Low impact development features and ground water table
- Proposed Monitoring Plan (once discharge begins the Town will conduct additional sampling and testing)
- Proposed Operations and Maintenance procedures

**Preliminary Engineering Report** (As included in the Design Brief)

### **Environmental Impact Analysis**

### **Site Plan**

### **Detailed Description of Proposed Works**

**Inspection and testing plans, emergency response plan** (2 weeks prior to inspection and testing), notification of testing (5 days prior) per Design Criteria 8.1.3 and 8.1.4

**Erosion Sediment Control (ESC) plan**, and temporary ESC measures installed in advance of and maintained during any construction activity on the Authorized System.

Certification by a Licensed Engineer is required for all ESC per ECA 3.10

**Completed Form SW1 (Storm Sewers/ Ditches/ Culverts)** (if applicable)

- Part 2 Description of storm sewer/ditch/ culvert alteration
- Part 3 Verification by Licensed Engineering Practitioner

**Completed Form SW2 (Stormwater Management Facilities)** (if applicable)

- Part 2 Description of stormwater management facility alteration
- Part 3 Verification by Licensed Engineering Practitioner

**Form SW3 (Third Pipe Collection Systems)** (if applicable)

- Part 2 Description of third pipe collection system alteration
- Part 3 Verification by Licensed Engineering Practitioner

**Source Water Protection forms (location dependant), mitigation measures** (if applicable)

## Post-Construction

**Checklist** indicating completeness of application, shall be sent with Pre-Construction and Post-Construction packages

**Record Drawings** stamped by a P.Eng Licensed in Ontario

**All inspection and testing records** per Design Criteria 8.1.5, including but not limited to;

- maintenance reports adhering to ESC plan and measures during construction activity
- daily engineering inspection records completed during infrastructure installation per ECA 3.11
- CCTV Inspection Records and videos
- Mandrel and Deflection Testings (if required based on the CCTV Video reports) per Design Criteria 8.1.5
- Leakage Testing Reports per Design Criteria 8.3



**Operations & Maintenance Manual**

**Sampling and Monitoring Plan**

**Any Additional Requirements** as Requested by the Town from Pre-Construction Application