

P.O. Box 490  
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## 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)
- GIS Shapefiles of all proposed infrastructure**
- 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 City 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**

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- 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)
  - Application Fee of \$3,500.00 included** (the application fee is based on a standard application, the fees are subject to change without notice)

## 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

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- Operations & Maintenance Manual**
  - Sampling and Monitoring Plan**
  - Any Additional Requirements** as Requested by the City from Pre-Construction Application