

**2023 Annual Performance Report
Municipal Stormwater Management System
Environmental Compliance Approval Number 105-S701
Schedule E Section 5.2 Report**



For the period of
January 1, 2023 to December 31, 2023

Prepared for the Corporation of the Township of Mapleton by R.J. Burnside & Associates Limited



2023 Annual Performance Report
For an Authorized Municipal Stormwater Management System
CLI-ECA No. 105-S701 Schedule E Section 5.2 Report
Township of Mapleton

This annual report was prepared in accordance with the requirements of the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) No. 105-S701 for a Municipal Stormwater Management System issued for the Township of Mapleton for the period from January 1, 2023 to December 31, 2023. The CLI-ECA for the Township of Mapleton was issued by the Ministry of the Environment, Climate Change and Parks (MECP) on December 15, 2022.

The first set of inspections under this CLI-ECA were undertaken at the end of October and beginning of November 2023. Corrective actions based on the inspections are expected to be completed in 2024 and will be reported on in the 2024 annual report.

This report meets the requirements of Sections 5.2 and 5.3 of the CLI-ECA which are repeated in bold text below, with the annual report content following each bold text entry:

Submit the Annual Report to the MECP Director on or before April 30th of each year (Section 5.2.1):

This annual report for the year 2023 is submitted prior to April 30, 2024.

Include a summary and interpretation of all monitoring data with an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment (Section 5.2.2):

This is a future requirement. A Monitoring Plan which may produce data for evaluating the system performance, has yet to be developed under the requirements of the CLI-ECA.

Include a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years (Section 5.2.3):

This is a future requirement. An evaluation of environmental trends related to the Authorized System will be prepared in future annual reports once five years of data is compiled after a Monitoring Plan is developed.

Include a summary of any operating problems encountered and corrective actions taken (Section 5.2.4), and

Include a summary all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Authorized System (Clause 5.2.5):

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Stormwater Management (SWM) Facility and ID No.	Summary of Issues	Summary of Corrective Action
River Run Road (SWM 003)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Rodent burrows in downstream pond berm near overflow weir • Ponding and excessive vegetation in by-pass channel to Conestogo River • Ponding, trees and excessive vegetation in pond outfall channel • Pond embankments and shoreline heavily overgrown • Sediment and debris dumped at top of by-pass headwall <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • No warning sign at the end of the pedestrian walkway / trail near the forebay • Pond maintenance drain outlet structure near river could not be located due to floodplain vegetation • Vegetation growth inside perforated CSP control structure • Exposed reinforcing bar in cap section of control structure • Vegetation is obstructing the inlets and outlets of the flow transfer pipes between the forebay and the main cell • Vegetation obstructing the pond inlet storm sewer • Upstream flow splitter MH buried under fill and could not be located 	<p>Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.</p>
Drayton Industrial Drive (SWM 004)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Heavily overgrown vegetation at ponding level and on sideslopes • Pond inlet channel overgrown with vegetation <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • “No grass cutting” sign missing at overflow weir • Exposed reinforcing bar at top of pond outlet sewer, at outlet headwall • 125 mm dia. orifice plate is leaking in outlet control MH • 500 mm dia. orifice plate is missing from outlet control MH • Reversed-sloped outlet pipe obstructed • <u>Headwalls do not have railings/guards</u> 	<p>Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.</p>

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Stormwater Management (SWM) Facility and ID No.	Summary of Issues	Summary of Corrective Action
Ridgeview Drive (SWM 005)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Heavily wooded vegetation and shrubs inundate the pond slopes and pond bottom • Chalk colour in permanent pool • Outfall in floodplain could not be located <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • No warning signs are in place • Pond is not accessible • Outfall sewer could not be located in the floodplain • Perforated CSP outlet control structure partially blocked with vegetation • Headwall does not have guard 	Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.
Edward Street (SWM 008)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Wheel ruts in east sideslope • Displaced rip rap, exposed subdrains on slope and erosion on slope from school site storm outfall sewer. <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • Original “Warning” signs are out of date • Lower orifice in control CBMH is displaced • Perforated CSP outlet structure blocked • Low flow channel overgrown/silted-in • Two south inlet headwalls have undercutting/erosion at the headwall structures • South inlet headwall has no railing/guard 	Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.
Andrews Drive (SWM 009)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Overgrown vegetation around permanent pool • Residue on pond slope at drain outlet from splashpad • Erosion and displaced rip rap at pond inlet headwall <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • Unlocked access gate • Accessible lid on CSP outlet structure • Gap under fence west of inlet headwall • Emergency overflow weir missing • Unprotected drain outlet from splashpad • Headwall does not have railing/guard 	Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.

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Stormwater Management (SWM) Facility and ID No.	Summary of Issues	Summary of Corrective Action
Bonniewood Drive (SWM 010)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Cloudy discharge • Overgrown tree branches and vegetation at outlet • Minor erosion at outlet • Excessive vegetation on pond bottom and banks • Some phragmites at pond inlet and outlet • Pond inlet sewer obstructed by sediment / vegetation • Pond slopes / embankments are overgrown <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • No warning signs • Displaced rip rap at pond outlet • Significantly corroded CSP outlet pipe • Emergency overflow weir missing • Low flow channel overgrown / silted-in 	<p>Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.</p>
County Road 7 – Alma (SWM 007)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Yard waste dumping • Excessive invasive phragmites and other vegetation throughout the facility on pond bottom and slopes preventing adequate inspection <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • Warning sign bent and falling over • Maintenance access overgrown and extent of access route to be confirmed • High-flow outlet structure partially blocked with vegetation • Low flow outlet structure is broken and blocked by roots inside CSP • Inlet pipes and structures obstructed by vegetation • Headwall does not have railing or guard 	<p>Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.</p>
Line 3 – Yatton (SWM 011)	<p><u>Operational Issues:</u></p> <ul style="list-style-type: none"> • Excessive vegetation and shrubs throughout the facility obstructing ponding area and structures <p><u>Structure Inspection Issues:</u></p> <ul style="list-style-type: none"> • No warning signs are in place • Perforated outlet control structure and overflow weir could not be located for inspection • Headwall does not have railing or guard 	<p>Inspections were completed in the fall of 2023. Corrective actions are expected in 2024.</p>

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Stormwater Collection System	Summary of Operational and Inspection Issues	Summary of Corrective Action
Sewer system consisting of pipes and structures as noted on Maps identified in Table B1 of the CLI-ECA	No CCTV work or formal inspection in 2023.	All catchbasin sumps cleaned out in July 2023.

Stormwater Outfall	Summary of Operational and Inspection Issues	Summary of Corrective Action
Outfalls to receivers as noted on Maps identified in Table B1 of the CLI-ECA	Not inspected in 2023.	No maintenance/repair work completed in 2023.

Include a summary of the calibration and maintenance carried out on all monitoring equipment (Clause 5.2.6):

There is no monitoring equipment presently installed in the Authorized System.

Include a summary of any complaints related to the Sewage Works Received during the reporting period and any steps taken to address the complaints (Clause 5.2.7):

Complaint Description	Action Taken
Complaint about grass/weeds at the Edward Street pond (SWM 008)	Grass was cut.

Include a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat (Clause 5.2.8):

Summary of Alteration to the Authorized System	Does Alteration pose a Significant Drinking Water Threat (Yes/No)
None	N/A

Include a summary of all spills or abnormal discharge events (Clause 5.2.9):

Report Date	Summary of Spill or Discharge Event
No Spills	N/A

Include a summary of actions taken, including timelines, to improve or correct the performance of any aspect of the Authorized System (Clause 5.2.10):

Actions Taken to Improve/Correct System Performance	Timeline of Actions
N/A – This is the first Annual Performance Report	N/A – This is the first Annual Performance Report.

Include a summary of the status of actions for the previous reporting year (Clause 5.2.11):

Actions Recommended from 2022 Reporting Year	Status
N/A – This is the first Annual Performance Report	

Make this Annual Report available, on request and without charge, to members of the public who are served by the Authorized System (Clause 5.3.1):

This Annual Report is available to members of the public who are served by the Authorized System by contacting the Municipal Office or by accessing the Municipal website.

Make this Annual Report available, by June 1st of the same reporting year, to members of the public without charge by publishing the report on the Internet if the Owner maintains a website on the Internet (Clause 5.3.2):

This Annual Report will be made available to members of the public by June 1, 2024, by accessing the Municipal website: <https://mapleton.ca/services/reports-and-studies>