



Township of Perth East
2023 Performance Report
Stormwater Management System

The Corporation of the Township of Perth East

25 Mill Street East
P.O. Box 455
Milverton, Ontario
N0K 1M0

May 7, 2024

ATTN: Aziz Ahmed, P.Eng, Director
Ministry of Environment, Conservation and Parks
135 St. Clair Avenue West, Floor 1, Toronto, Ontario
M4V 1P5

Re: ECA # 053-S701: 2023 Stormwater Management System – Performance Report

Please find enclosed the Township of Perth East's 2023 Performance Report for the Stormwater Management System. This report has been prepared in accordance with the Environmental Compliance Approval #053-S701, Schedule E Section 5.0, issued to the Township of Perth East on July 3, 2023.

This report covers the period from January 1, 2023 to December 31, 2023 and will be made available on the Township's website on or before June 1, 2024.

Any questions or concerns regarding the report can be directed to the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Jake Collings".

Jake Collings, P. Eng.
Township of Perth East
Manager of Public Works



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Introduction

The Township of Perth East's Stormwater Management System (SWM) is owned and operated by the Township of Perth East in accordance with Environmental Compliance Approval #053-S701, issued July 3, 2023. The SWM system consists of storm sewers, wet ponds, dry ponds and associated ditches. The SWM system also includes all other oil/grit separators, reservoirs and appurtenances that are essential for the operation of the works. Throughout the reporting period (January 1, 2023 to December 31, 2023), staff worked diligently to ensure the adequacy of the Townships stormwater system infrastructure.

In accordance with the Environmental Compliance Approval #053-S701, Schedule E Section 5.2, The Township of Perth East, as the Owner of the Municipal Stormwater Management System, shall prepare and submit a performance report to the Ministry of the Environment, Conservation and Parks (MECP) on an annual basis.

Schedule E Section 5.2 of the ECA requires the Annual Performance Report to contain the following elements:

- (a) a summary and interpretation of all monitoring data, including an overview of condition and operational performance of the Works and any Adverse Effects on the Natural Environment,
- (b) a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years,
- (c) a summary of any operating problems encountered and corrective actions taken,
- (d) a summary of all inspections, maintenance and repairs carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Authorized System,
- (e) a summary of the calibration and maintenance carried out on all monitoring equipment,
- (f) a summary of any complaints related to the Works received during the reporting period and steps taken to address the complaints,
- (g) 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
- (h) a summary of all spills or abnormal discharge events,
- (i) a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System; and
- (j) Includes a summary of the status of actions for the previous reporting year.



A) Summary & Interpretation of Monitoring Data

Staff exercise due diligence in ensuring the Works and the related equipment are properly operated and maintained and any abnormal conditions documented and addressed. At this time, however, monitoring data is not available as a formal monitoring program was not established until 2024. Routine checks consisting of primarily visual inspections were completed at varied intervals but were not formal inspection and documentation process were being executed.

Going forward, monitoring and inspection of the SWM system will include annual programs consisting of storm water management facility inspections and maintenance hole repairs. All programs will help to sustain an effective program in accordance with the Townships maintenance objectives. At this time there are no apparent needs for modifications to the overall SWM system and furthermore the system is not having any known adverse impacts on the surrounding environment. Continuous improvement and optimization will be a priority for staff and management moving forward.

B) Summary & Interpretation of Environmental Trends

Prior to the implementation of the new CLI-ECA, the Township did not have these monitoring programs in place as outlined in the new O&M Manual. As such, historic monitoring data is not available. Consequently trending is not possible at this time. Staff are, however, expecting this section of the Annual Performance Report to be more informative after the first few years of the new monitoring programs being in effect with proper documentation. At that time there will be reliable and consistent data that can be compared and interpreted.

In terms of environmental trends that certainly have an impact on stormwater infrastructure over the Township as a whole, rainfall events have been noted to be changing over the last several years. Precipitation events have been generally more intense in nature and often leading to increased runoff and thus more reliance on the stormwater infrastructure. As such, there is more emphasis than ever on ensuring catch basins are maintained free of debris, ditches are properly maintained and stormwater management facilities are operating as intended.

C) Summary of Operating Problems & Corrective Action

The Township had one operating problem during the reporting period. It is listed in the table below with corrective actions.

Location	Operating Problem	Corrective Action	Date
Main Street South at Cruickshank Street, Milverton	Stormwater pooling at catch basin. Suspected blockage downstream.	Excavated, replaced section of collapsed storm sewer pipe, removed blockage downstream by flushing.	August 30, 2023

There were no other operating problems during the reporting period.



D) Inspections, Maintenance & Repairs

The table below is a summary of all inspections, maintenance and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System. All maintenance was performed on behalf of the Owner, by trained staff or qualified contracted services providers who exercise due diligence in ensuring the Works and the related equipment are properly operated and maintained to achieve compliance with the Approval.

The consistent program that has been in place is the catch basin cleaning. Catch basin cleaning is completed by an external contractor and there have been no abnormal conditions reported.

Date	Work Type	Work Description	Location
May 30, 2023	Catch Basin	Replaced catch basin and Grate	Thompson St, Shakespeare
June 28, 2023	Ditch	Cleaned ditch and lowered existing driveway pipe to achieve proper slope	Nuhn Drive, Wartburg
August 16, 2023	Catch Basin	Replaced broken riser under grate	Line 29, Sebastapol
August 30, 2023	Storm Sewer	Replacement of section of existing partially crushed storm sewer. Flushing of storm sewer to remove blockage. CCTV following.	Main Street, Milverton
November 1, 2023	Catch Basin	Annual cleaning of all Township owned catch basins	Perth East

E) Calibration & Maintenance of Monitoring Equipment

The Township of Perth East does not have any monitoring equipment associated with our storm water collection systems or facilities.

F) Summary of Complaints

There were no formally documented SWM complaints related to the Township owned infrastructure and facilities during this reporting period. This statement is somewhat misleading, however, as several complaints were submitted through various forms of communication in 2023 regarding ditch cleanouts, rural culvert repairs. A number of complaints were also received regarding drainage of private property but these instances are not captured in the ECA. In 2024, stormwater related complaints will be documented to further detail how the system as a whole is operating.

G) Alterations to the Authorized System

The table below summarizes the projects that saw alterations to the SWM system in 2023. Several of the projects in the reporting period made improvements to the storm sewer collection system. In addition, there were no new developments that connected to the system in 2023.



Date	Description	Location	Segment	SDWT (Y/N)
July/August	Replacement of all stormwater infrastructure including storm sewer mains and associated structures. Includes storm sewer replacement of 167.2m of 300mm diameter pipe, 16.6m of 375mm diameter pipe and 88.2 m of 450mm diameter pipe.	Pacific Avenue, Milverton	Mill Street East to CPR Drive	No
July/August	Replacement of all stormwater infrastructure including storm sewer mains and associated structures. Includes storm sewer replacement of 19.0m of 300mm diameter pipe and 111.2m of 525mm diameter pipe.	Davis Avenue, Milverton	Pacific Avenue to Whaley Avenue	No
July/August	Replacement of all stormwater infrastructure including storm sewer mains and associated structures. Includes storm sewer replacement of 17.5m of 300mm diameter pipe, 31.0m of 750mm diameter pipe and 175.9m of 900mm diameter pipe.	Whaley Avenue, Milverton	Davis Street to CPR Drive	No

*SDWT – Significant Drinking Water Threat

H) Spills & Abnormal Discharges

There were no spills or abnormal discharges during the reporting period.

I) System Performance Improvements

The table provided in Section G captures the most significant improvements made to the stormwater management system in the operating year. The Township is continuing our capital improvements during 2024 with the reconstruction of Whaley Avenue and Fulton Street in the town of Milverton which will replace all storm main and related infrastructure as part of the project scope.

J) Update on Previous Reporting Year

This section is to include a summary of the status of actions for the previous reporting year. Since this is the inaugural year for the new CLI-ECA and the associated Annual Performance Report, there are no pre-existing actions related to the SWM system. New goals and objectives are being developed internally and there will be quantifiable and tangible action items and performance improvements captured in the 2024 Annual Performance Report.