Town of Pelham Stormwater Management System

Corporation of the Town of Pelham

2024 Annual Performance Report

January 1 to December 31, 2024

Ministry of the Environment, Conservation and Parks

CLI ECA No. 072-S701

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1.0 Introduction & Purpose

The Town of Pelham (Town or Pelham) owns and operates the Town of Pelham Stormwater Management System, which is operated under the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA), ECA Number 072-S701, issued by the Ministry of Environment, Conservation and Parks (MECP). The Town received its first CLI ECA on December 19, 2023.

This approval is similar to the Town's Drinking Water License. It allows the Town to alter, extend or modify the stormwater management system without requiring individual approval from the MECP or through the previous transfer review program administered by the Region for each project. The Town's approval is subject to various restrictions and requirements in the license. An annual report for the previous calendar year must be submitted to the MECP by April 30th, including the activities undertaken to improve the system, repairs and emergency response, system performance and future activities. This report will be made available to the public on the Town's website by June 1st for members of the public who wish to be informed of the Town's sanitary collection system performance from the previous year.

The annual report is required to address specific criteria related to operational performance, operating concerns, maintenance activities, customer complaints, and identified alterations to the system, which are listed in Schedule E, Section 5.0 of the Town's approval.

2.0 Description of Stormwater Management System

The Town of Pelham Stormwater Management System is a stand-alone municipal stormwater system that conveys runoff to nearby watercourses from developed land areas with more impervious surfaces. In some areas, the sewer flow enters a stormwater management facility, where some pollutants can settle before runoff enters a waterway. In rural areas of the Town, surface flow can more easily infiltrate the ground, and ditches capture runoff from roads.

The Town of Pelham's Stormwater Management System consists of:

Asset	Count	Units
Storm Sewers	44,981	Metres
Maintenance Holes	666	Each
Catch Basins	1,678	Each
Inlets (to SWMF)	9	Each
Outlets	53	Each
Oil-Grit Separators	10	Each
Stormwater Dry Ponds	7	Each
Stormwater Wet Ponds	11	Each
LID Facility	1	Each
Channel	4	Each
Storage	2	Each

Stormwater in Pelham is collected using a pipe network that ranges from 200mm to 1,500mm, though about half of the system is 450mm or less. The system is mainly composed of concrete, at 75%, while 22% is PVC and 3% other materials. The Town's stormwater sewers are relatively young, with nearly 30% of the system built in the last 15 years. The average age of pipes based on length is 26.5 years.

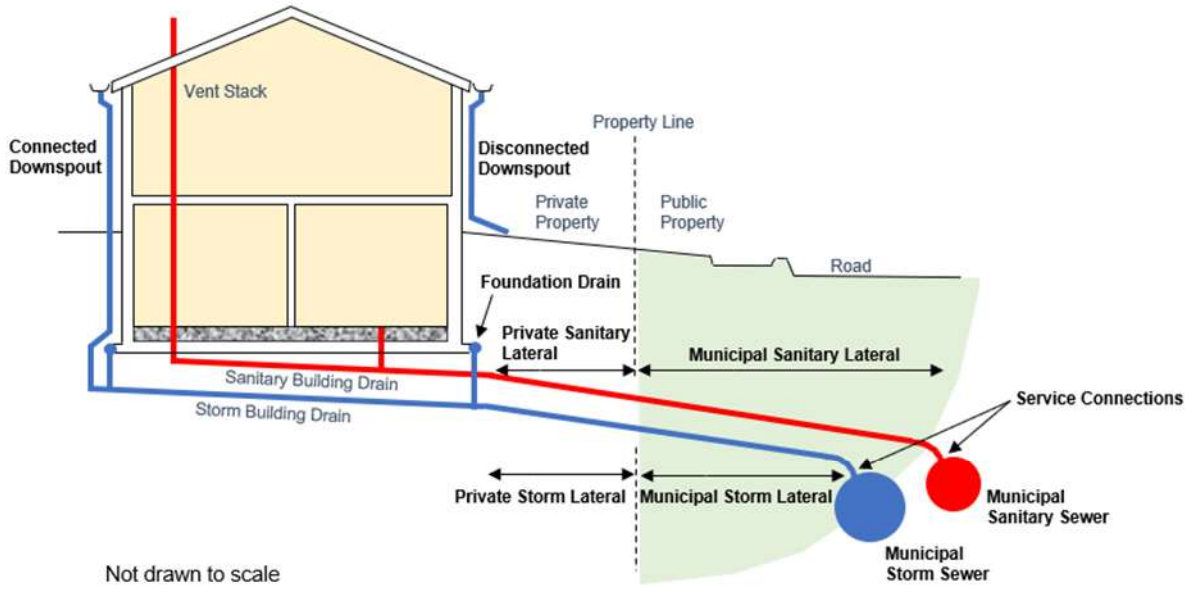

Figure 1 - Typical Separated Sewer System

3.0 Operations and Monitoring

The information reported below summarizes the current conditions of the stormwater management system based on the Town's computerized maintenance management system (CMMS), internal records, and field notes taken by operators, supervisors, and management. The data required to be reported on in the CLI ECA are listed in Schedule E, Section 4.6.

3.1 Monitoring Programs

Table 1 details the monitoring activities performed by Pelham staff or contracted services during the reporting period. Based on the data collected and reviewed, the system performed effectively and as designed. Currently, no major modifications are required for the management system.

Table 1 – Summary of Monitoring Programs

Program Title	Program Description	Program Data from the Reporting Period	Adverse Effects on the Natural Environment
Storm Sewer Flushing	Annual flushing on main storm sewers.	The Town's contractor flushed approximately 7,000 meters of the storm sewer system, and reports were provided to Engineering Services.	No.
CCTV Inspections	Annual CCTV inspection performed on the main storm sewers.	The Town's contractor inspected approximately 3,000 meters of storm sewer in 2024 and provided reports to Engineering Services.	No.
Stormwater Management Ponds	Stormwater Management Facilities and Oil-Grit Separator Assessment	The Town retained Montrose Environmental Inc. in 2023 to perform this assessment, and it is being utilized for monitoring/maintenance plans.	No.

Catch Basins	Routine inspection and cleaning.	Staff performed inspections on identified areas before and after weather events. The Town's contractor cleaned and inspected approximately 300 catch basins.	No.
Inlet & Outlet Inspections	Routine and pre/post significant weather event inspections and maintenance.	Staff performed inspections in response to the weather. Post-event inspections are completed after a significant weather event.	No.
Semi-Annual Street Sweeping Program	Semi-annual street sweeping program for Fonthill, Ridgeville and Fenwick municipal roadways.	The contractor performed two passes (Spring and Fall) of approximately 80km of roadway in the urban areas of Fonthill, Ridgeville, and Fenwick.	No.
Bi-weekly Municipal Grass Maintenance	Bi-weekly municipal grass maintenance at stormwater management ponds.	By contractor or municipal staff, ensure that six (6) SWMPs regularly have grass cut to ensure aesthetics are kept within the Town. The grass at these ponds is only cut at the top (flattened) area.	No.

The Stormwater Management System CLI ECA Schedule E, Section 4.0 requires the Town to implement monitoring guidelines per the MECP guidance document within 24 months of its release. As of January 2025, the MECP has not published the guidance document.

3.2 Operational Challenges

All maintenance was performed on behalf of the Owner by a licensed Operator or qualified contracted service provider who exercised due diligence in ensuring the works and the related equipment were properly operated and maintained to achieve compliance with the Town's license. The Town of Pelham had no operational challenges within the Stormwater Management System.

Table 2 – Summary of Operational Issues and Corrective Actions

Date	Description	Corrective Actions
N/A	N/A	N/A

3.3 Inspections, Maintenance & Repairs to the Authorized System

In 2024, the Town of Pelham was developing an operations and maintenance manual for the stormwater management system, as required in the CLI ECA. The manual will identify the current and proposed future inspection, maintenance, and repair activities. Its details ensure the efficient operational performance of the stormwater management system.

Flushing & Closed-Circuit Television (CCTV) Inspections

In 2024, the Town of Pelham awarded Dambro Environmental Inc. a three-year contract to perform annual closed-circuit television (CCTV) and flushing on the Town's stormwater management system. This was the first year the Town inspected and flushed storm sewers. One-third of the Town's stormwater system is inspected annually. Inspections for emergency repairs or customer concerns may also occur outside of this scheduled maintenance.

Main Sewers

In 2024, the Town of Pelham had zero (0) main sewer emergency responses.

Table 3 – Summary of Main Sewer Emergency Response

Date	Address	Concern	Resolution
N/A	N/A	N/A	N/A

3.4 Consumer Complaints

In 2024, the Town of Pelham received thirteen (13) complaints related to the Town of Pelham Stormwater Management System during the reporting period. Table 4 describes the types of complaints and the corresponding steps to address them.

Table 4 – Summary of Storm Sewer Complaints

Complaint Type	Location of Issue (Owner)		Resolution
	Public	Private	
Catch Basin Blockage	12	-	Staff responded and removed debris as required.
Inlet/Outlet Blockage	1	-	Staff responded and removed debris as required.

3.5 Major Structure & Equipment Calibration, Maintenance and Repairs

Table 5 summarizes activities carried out on major structure and collection system works that were not covered under the operational challenges section of this report.

Table 5 – Summary of Major Structure & Equipment Calibration, Maintenance and Repairs

Major Structure or Equipment	Summary of Work performed in 2024
Fall Arrest Equipment	All fall arrest and lifting devices were inspected during the reporting period.

3.6 Summary of Alterations to the Authorized System

The Town had five (5) applications for Alterations within 2024. These alterations were not completed within 2024 and will be included in future Annual Performance Reports as finished alterations.

Table 6 – Summary of Alterations to the Authorized System

Alterations to the Authorized System (Project Name)	Project Details	Does this Project Pose a Significant Drinking Water Threat (SDWT)?
N/A	N/A	N/A

3.7 Summary of Overflows and Spills

In 2024, one (1) environmental incident, such as overflows, bypasses, or abnormal discharge from the stormwater management system, was reported, and zero (0) spills related to the collection system occurred.

Table 7 – Summary of Overflows and Spills

Overflow or Spill Location	SAC/ MOECC Incident Number	Date (mm-dd-yyyy)	Volume (m^3) and Duration (estimate)	Adverse Impacts/Corrective Actions
Hurricane Rd. (RMoN Sanitary Pumping Station)	1-4M8CS7	01-24-2024	72m^3 Few Hours	Surcharging at the pumping station is due to the high volume of water, which is caused by wet weather conditions. Staff attended the locations and performed the Town's bypass procedure.

3.8 Actions Taken to Improve or Correct Performance of System

Table 8 – Summary of Actions Taken to Improve or Correct Performance of System

Project	Project Description
Development of Operations and Maintenance Manual	A consultant was retained to develop the Stormwater Operations & Maintenance Manual, a requirement under the Town's CLI ECA. The project began in April 2024, with an estimated completion date of January 2025.
Timber Creek Stormwater Management Pond Cleanout (Intersection of Line Ave & Steflar St.)	A consultant was retained to design the works undertaken at Timber Creek Pond. The consultant later assisted the Town in tendering construction work for cleanout. In total, 413.82 m^3 of sediment was removed from the pond, which was the first pond in the Town's Stormwater Management Remediation Program. In addition to the cleanout, a new orifice plate was installed inside the outlet, and a new security fence was installed at the entrance of the pond property to allow for maintenance equipment.

Annual Stormwater Management Remediation Program	Public Works included a capital budget of $300,000 in 2024 to begin the SWM remediation throughout the Town. With this program, the Town will have an annual project with a continuous capital budget expenditure for at least the next 10 years, estimated at $3 million.
Annual Tree Planting Program	The Town awarded a contract to plant 91 trees of 12 different varieties in its boulevards, parks, and open spaces.

3.9 Status of Actions from Previous Years

This section includes 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 required Annual Performance Report, there are no preexisting actions to address. New goals and objectives are being developed internally, and quantifiable and tangible action items and performance improvements will be reviewed in the 2025 Annual Performance Report.

4.0 Report Distribution

As required under Schedule E – Condition 5.2 of ECA 072-S701, the annual stormwater management system performance report will be available to the public at no charge on the Town's website or through Public Request by June 1st of the reporting year.

Report Date: April 4, 2025

Jason Marr (Apr 7, 2025 08:49 EDT)

Jason Marr, P.Eng
Director of Public Works

Appendix

Town of Pelham - Stormwater Collection System