



Town of Pelham Sanitary Sewage Collection System

Corporation of the Town of Pelham

2025 Annual Performance Report

January 1 to December 31, 2025

Ministry of the Environment, Conservation and Parks

CLI ECA No. 072-W601

Wastewater System Number: 120003584

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1.0 Introduction & Purpose

The Town of Pelham (Town) owns and operates the Town of Pelham Wastewater Collection System, which is operated under the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA), ECA Number 072-W601, 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 sanitary collection 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 March 31st, including the activities undertaken to improve the system, repairs and emergency response, system performance and future activities. This report will be made available on the town's website by June 1st for members of the public who wish to be informed about the Town's sanitary collection system performance from the previous year.

The annual report is required to address specific criteria related to operational performance, operational concerns, maintenance activities, customer complaints, and identified alterations to the system, as listed in Schedule E, Section 4.6, of the Town's approval.

2.0 Description of Sanitary Collection System

The Town of Pelham Sanitary Collection System is a stand-alone municipal sewage system that conveys one hundred percent (100%) of its wastewater to the Region of Niagara's (Region) Welland Wastewater Treatment Plant (WWTP). The Pelham Sanitary Collection System and the Welland Wastewater Treatment Plant are components of the Welland Wastewater Treatment Plant System, which includes the Cities of Welland and Thorold.

The MECP classifies the Town of Pelham's wastewater collection system as a Class 1 System (Wastewater System Number: 120003584), which services approximately 15,900 residents.

The Town of Pelham's Wastewater Collection System consists of approximately sixty-eight (68) kilometres of nominally separated gravity sewers (including trunk sewers) and 600m of force mains.

Wastewater in Pelham is collected from residential, commercial, and industrial properties within the Town's two (2) urban areas, Fonthill and Fenwick. Depending on the location, wastewater may flow to one of five (5) pumping stations or, by gravity, to a trunk sewer main. Both urban areas within the Town's sanitary collection system flow directly to the Welland Wastewater Treatment Plant (WWTP) at 4 Cross Street North, Welland. All trunk sewer mains, pumping stations, and treatment facilities are owned and operated by the Regional Municipality of Niagara and are beyond the scope of this report. See Appendix 1 for details on the gravity-fed sanitary sewers that flow to the WWTP.

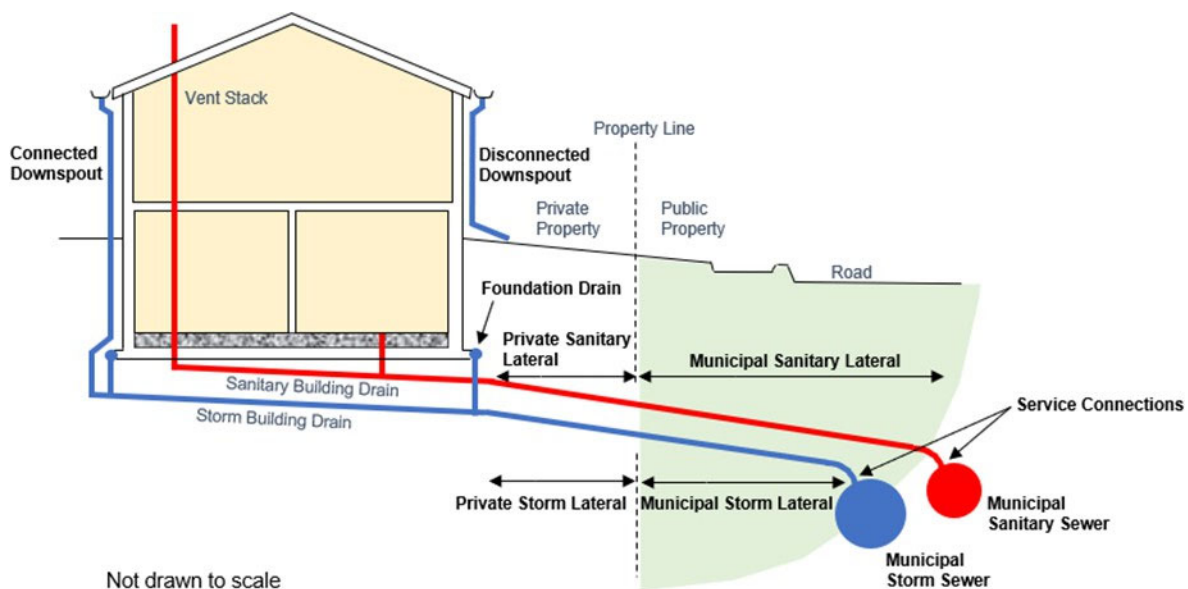


Figure 1 - Typical Separated Sewer System

3.0 Operations and Monitoring

The information below summarizes the current condition of the sanitary collection system based on the Town's computerized maintenance management system (CMMS), internal records, and field notes from operators, supervisors, and management. The data required for reporting on the CLI ECA are listed in Schedule E, Section 4.6.

3.1 Monitoring Programs

Table 1 details the monitoring activities performed by Town staff or contractors during the reporting period. The system performs effectively and as designed based on collected and reviewed data. Currently, no major modifications are required for the collection system.

Table 1 – Summary of Monitoring Programs

Program Title	Program Description	Program Data from the Reporting Period
Monthly Maintenance Hole Inspections	MH inspections are completed throughout the year.	Staff inspected 28 MHs monthly during the reporting period.
Annual Maintenance Hole Inspections	Annual contracted maintenance for approximately one-quarter of the sanitary MHs.	In 2025, the Town's contractor inspected 153 MHs using NASSCO MACP – Level 2.
Sanitary Sewer Flushing	Annual flushing on main sanitary sewers.	The town's contractor flushed approximately 12,000 meters of the sanitary sewer system, and reports were provided to Engineering Services.
CCTV Inspections	An annual CCTV inspection program is completed, with the main sewers inspected once every four (4) years.	The town's contractor inspected approximately 7,000 meters of sanitary sewer in 2025 and provided reports to Engineering Services.

3.2 Operational Challenges

All maintenance was performed on behalf of the Owner by a licensed Operator or a qualified contracted service provider who exercised due diligence to ensure that the works and related equipment were properly operated and maintained to achieve compliance with the Town's license requirements. The Town of Pelham had no operational challenges within the Sanitary Collection 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 2025, the Town of Pelham completed the development of its operations and maintenance manual for the sanitary collection system. Throughout the reporting period, town staff have been actively implementing the manuals and additional requirements. The manual identifies the current and proposed future inspection, maintenance, and repair activities. Its details ensure the efficient operational performance of the sanitary collection system.

Monthly Maintenance Hole Inspections

Monthly, Water/Wastewater Operators inspect twenty-eight (28) maintenance holes for evidence of backup or concerns. These maintenance holes are selected for regular maintenance due to their history of blockages or recurring issues. These monthly checks are tracked using an inspection form, which is then stored digitally for future records.

Annual Maintenance Hole Inspections

Beginning in 2025, as part of the Town's annual maintenance programs, the Town contracts a contractor to perform NASSCO MACP – Level 2 inspections on approximately a quarter of the Town's sanitary maintenance holes. These inspections allow for any concerns or repairs to be addressed.

Flushing & Closed-Circuit Television (CCTV) Inspections

In 2025, the Town of Pelham was in its second year of a three-year contract with Aqua Fast Flush to perform annual closed-circuit television (CCTV) and

flushing on the Town’s sanitary collection system. Approximately one quarter of the Town’s sanitary collection system is inspected annually. Inspections for emergency repairs or customer concerns may also occur outside of this scheduled maintenance.

Main Sewers

In 2025, the Town of Pelham had two (2) main sewer emergency responses.

Table 3 – Summary of Main Sewer Emergency Response

Date	Address	Concern	Resolution
March 27, 2025	Marylea St.	Sewer surcharging through a maintenance hole.	Town staff attended and called a contractor for an emergency flush and inspection of the area. The blockage was caused by a buildup of silt.
September 30, 2025	Pelham St. (Between Churchill & Highway 20)	Sewer spot repair	The town contractor performed one spot repair at the locations identified in the 2024 CCTV footage.

3.4 Consumer Inquiries & Complaints

In 2025, the Town of Pelham had twelve (12) sewer-related concerns, including sewer lateral blockages, basement flooding, and sewer smells. The breakdown of the incidents and corresponding resolution steps are indicated below.

Table 4 – Summary of Complaints

Complaint Type	Location of Issue (Owner)		Resolution
	Public	Private	
Home Sewer – Backup	6	3	Water/Wastewater staff ask the resident to contact a professional service provider who can assist with locating the blockage. Where the blockages are found on the public portion of the lateral, methods such as auguring and flushing are used to clear. This would be done by the Town’s contractor.

			Where blockages are found on the private portion of the lateral, it is the responsibility of the property owner to contact a professional service provider.
Home Sewer Odour	-	3	Water/Wastewater staff advise the property owner on a few methods to try first to eliminate the issue, including running water for a period of time. If the issue is not resolved, staff will then attend to the property for further investigation.
Main Sewer – Odour	-	-	Water/Wastewater staff investigate complaints of sewer odour using several methods, including inspections of the surrounding area.
Main Sewer – Backup	-	-	Water/Wastewater staff investigate sewer backup complaints using several methods, including inspections of the surrounding area and maintenance holes. Where a blockage is found, the Town's contractor is contacted to flush the main sewer.
Main Sewer – Other	-	-	Water/Wastewater staff investigate complaints and complete repairs are necessary.

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 2025
Fall Arrest Equipment	All fall arrest and lifting devices were inspected during the reporting period.
Air Quality Monitoring Devices	Portable air quality monitoring devices were inspected and calibrated during the reporting period. Monthly testing and an annual calibration were performed.
Property Laterals	Three (3) properties in the Town had a sewer lateral repair during the reporting period.

Concord St. Ravine Sanitary Main

The sanitary main that crosses at the base of the Concord St. ravine was exposed due to erosion of soil materials from heavy rainfall. In October 2025, the area was reinforced with riprap and gabion baskets to prevent further erosion.

3.6 Summary of Alterations to the Authorized System

The Town had two (2) applications for Alterations within 2025. These alterations were not completed in 2025 and will be included in future Annual Performance Reports as finished alterations. One (1) alteration was completed during this reporting period, as noted in the table below.

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)?
Meridian Way Sanitary Sewer Install	Installation of a 200mm sanitary sewer main from Rice Road (Regional) to 44m west along Meridian Way	No.

3.7 Summary of Overflows and Spills

In 2025, there were (0) environmental incidents, such as overflows, bypasses, or abnormal discharge from the collection system, reported. There were zero (0) spills related to the collection system.

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)	Loading (TSS, BOD, TP, KJN, E.Coli)	Disinfection (if applicable)	Adverse Impacts/ Corrective Actions
N/A	N/A	N/A	N/A	N/A	N/A	N/A

3.8 Actions Taken to Improve or Correct the Performance of the System

Table 8 summarizes the capital and operating projects undertaken during the reporting period.

Table 8 – Summary of Performance Improvements

System Performance Improvement	Project Description
Operations & Maintenance Manuals	The completion of the Operations and Maintenance Manuals in January 2025. Throughout the remainder of the year, staff focused on implementing new procedures and parameters outlined in these manuals.
Annual Flushing and CCTV Locations	Establishment of areas within the sanitary collection system that require annual flushing or CCTV. These areas were determined by staff due to complaints, usual evidence of buildup during maintenance hole inspections, etc.

3.9 Status of Actions from Previous Years

Table 9 summarizes the status of actions for the previous reporting year.

Table 9 – Status of Actions from Previous Years

System Performance Improvement	Project Description	Year of the Improvement or Corrective Action	Status of the Action
Development of Operations & Maintenance Manuals	A consultant was retained to develop the Sanitary Operations & Maintenance Manual, a requirement under the Town's CLI ECA. The project began in April 2024 and was completed in January 2025.	2024/2025	Ongoing.

4.0 Wastewater Collection System Performance

In 2025, the Town of Pelham's contribution to the annual flow to the Welland Wastewater Treatment Plant was 1,412,432 m³. The annual wastewater flow in Pelham has decreased slightly since 2024. These flows vary significantly over time due to several factors, including annual precipitation. Figure 2 illustrates the yearly flows to the Welland Wastewater Treatment Plant from 2015 to 2025.

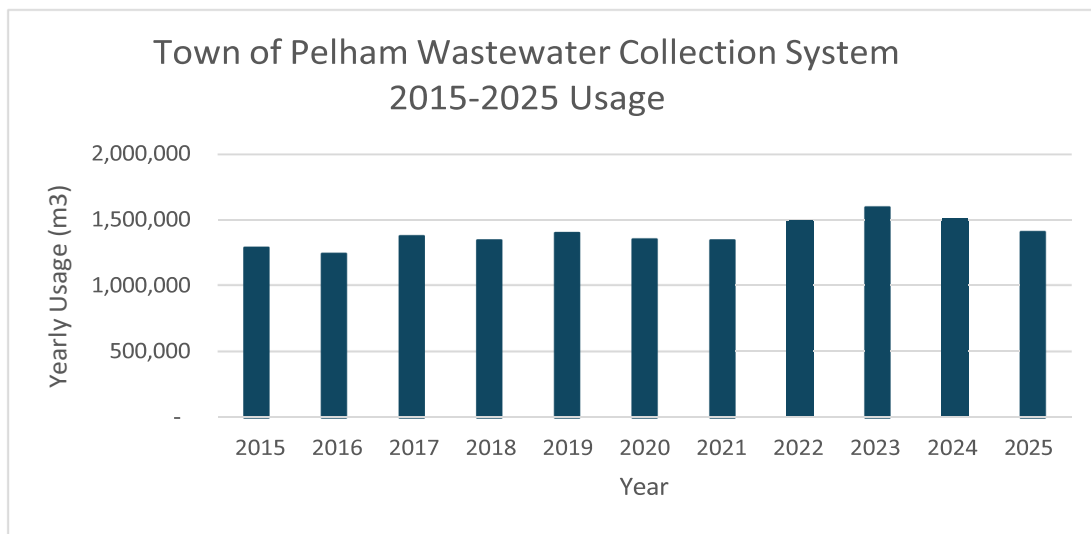


Figure 2- Pelham Annual Wastewater Flows to Welland Wastewater Treatment Plant 2015-2025

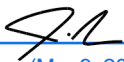
Combined Sewers

The Town of Pelham does not own or operate any combined sewers. Therefore, per the MECP, the Town is currently not required to provide any assessments pertaining to F-5-5 or F-5-1, Wet Weather Flows Compared to Dry Weather Flows, or the Pollution Prevention Control Plan (PPCP).

5.0 Report Distribution

As required under Schedule E – Condition 4.7 of ECA 072-W601, the annual sanitary collection 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: March 9, 2026


[Jason Marr \(Mar 9, 2026 15:35:13 ED T\)](#)

Jason Marr, P.Eng
Director of Public Works