



GEORGINA

Town of Georgia

2025 CLI ECA Annual Performance Report for the Sanitary Collection System



Environmental Compliance Approval (ECA) 119-W601

Reporting period: January 1st – December 31st, 2025

Responsible Department - Division:

Operations and Infrastructure - Water, Wastewater, and Waste

Executive Summary

The Town of Georgina’s (herein referred to as the “Town” or “Owner”) owns and operates the Municipal Sanitary Collection System (herein referred to as the “Authorized System”), which collects and conveys wastewater within the Town to downstream Regional infrastructure for conveyance and treatment.

The Authorized System is regulated under the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) No. 119-W601, issued January 22, 2024 by the Ministry of Environment, Conservation and Parks (MECP).

The Town is responsible for monitoring, operating and maintaining the authorized system in a state of good repair in order to protect public health, property, and the environment, in accordance with the conditions of the CLI ECA and applicable regulatory requirements.

This 2025 Annual Performance Report has been prepared in compliance with Section 4.6, Schedule E: Operating Conditions of the Town’s CLI ECA 119-W601 and covers the reporting period of January 1st to December 31st 2025.

The authorized system encompasses sewers, gravity mains and force mains, sanitary pumping stations (SPS) and other wastewater assets managed by the Town’s Water//Wastewater/Waste Division. Additionally, Infrastructure Planning and Capital Delivery Divisions oversee various contracts related to the Town of Georgina’s Sanitary Collection System, including CCTV sewer inspections, condition assessments, Inflow and Infiltration (I&I) evaluation, as well as planning for future development and rehabilitation efforts. A recent history of collection system ECA approvals is as follows (Table 1).

Table 1 – System-Wide ECA Approvals History

System-Wide ECA No.	Date of Issue	Reason for Issue
5614-5T2LZW	April 24, 2024	Corrected error re: discovery of existing works not previously documented in Schedule B of ECA
119-W601	January 22, 2024	New approval format for Consolidated Linear Infrastructure (CLI)

Based on the monitoring activities conducted in the reporting period, the system is performing well. The Town is committed to focusing on continuous improvement by building strong foundational processes to support operational and service delivery.

In 2025, the Town planned and flushed 256 maintenance holes and 69.0 km of sanitary sewer, of which, 12.6 km was targeted hot-spot flushing. In addition, 18.3 km of sewer were inspected using CCTV. The Town received and resolved 22 customer service inquiries related to the sanitary sewer system.

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1. CLI ECA Requirement: Annual Performance Report

In accordance with Schedule E, Section 6 of the Town's CLI-ECA No. 119-W601, the Owner of the Authorized System is required to prepare and submit an Annual Performance Report to the MECP on or before March 31 of each calendar year.

This report summarizes the operation, monitoring, and maintenance activities undertaken during the reporting period of January 1 to December 31, 2025, and document compliance with the applicable conditions of the CLI-ECA for the Town's Municipal Sanitary Collection System serving the communities of Keswick and Sutton.

This Annual Performance Report is organized to address the requirements of Schedule E and documents the following for the reporting period:

- monitoring and inspection activities completed during the reporting period;
- operating problems encountered and corrective actions taken;
- calibration, maintenance, and repair activities carried out on system assets;
- inquiries and complaints received related to the system;
- alterations to the system authorized under the CLI-ECA;
- collection system overflow(s) or spill(s) of sewage; and
- improvement efforts undertaken to support the continued performance, reliability, and resilience of the system.

This structure is intended to provide a clear and transparent record of system performance and regulatory compliance, while supporting ongoing continuous improvement of the Town's sanitary collection system.

Additionally, the Report shall:

- be submitted to the Director (MECP);
- be submitted to, or copied to, the MECP District Manager in any reporting year in which a collection system overflow or spill of sewage occurred; and
- be made available without charge to members of the public who are served by the Authorized System (upon request or by publishing the Report on the Town's website).

2. Municipal Sanitary Collection System Overview

Wastewater generated within the Town is conveyed through the municipal sanitary sewer network before being transferred to York Regional trunk sewers for treatment at York Regional wastewater treatment facilities. The York Regional trunk sewers and treatment facilities eventually discharge into the natural environment (Lake Simcoe).

The Town’s sanitary collection assets are managed and maintained in accordance with the requirements of the Town’s CLI-ECA No. 119-W601 and are supported by the Town’s broader asset management framework. As documented in the Town’s Asset Management Plan, the sanitary collection system comprises a combination of linear sewer infrastructure and pumping facilities that support wastewater conveyance across the serviced communities.

For asset management and reporting purposes, the Town’s sanitary collection assets are generally grouped into two primary categories:

- **wastewater linear assets**, including gravity sewers, forcemains, laterals, maintenance holes, and associated appurtenances; and
- **wastewater facility assets**, including sanitary pumping stations and related equipment.

An inventory summary of the Town’s sanitary collection system assets is provided in Table 1. Mapping of the Authorized System is maintained by the Town and supports operational planning, inspection programs, and regulatory reporting. Please note the terms “wastewater” and “sanitary” are used interchangeably in this report.

Table 1 – Sanitary Collection System Overview

Asset Category	Asset	Quantity and Unit
Wastewater Linear	Forcemains	17 km
	Gravity Mains	178 km
	Laterals	14,100 each
	Maintenance Holes	2,502 each
	Valves	30 each
Wastewater Facilities	Pump Stations	20 each

Source: *The Town’s 2025 Proposed Level of Services and Financial Strategy Update*

Please refer to Appendix A for a map of the Authorized System.

It is important to note that the previous 2024 Annual Performance Report included linear and facility assets with unassumed, private, abandoned, decommissioned and York Region ownership. The current 2025 Annual Performance Report is based on the latest 2025 inventory which are limited to assets owned by the Town and excludes assets that have been abandoned, decommissioned, and are unassumed. The data contained in this report is the most current asset ownership information.

3. Operational Concerns and Corrective Actions Taken

Operating problems recorded at the Town of Georgina's Sanitary Pumping Stations (SPS) during the reporting period are summarized in (Table 2). The most frequently observed issues relate to communication interruptions between the pumping stations and the SCADA system, as well as utility power outages. To mitigate the risk of service disruption, the Town has provisions in place to deploy standby generators to pumping stations as required, and uninterruptible power supply (UPS) units are used to support critical systems during power-related events.

Table 2: SCADA Alarms

SPS No.	No. of Alarms	Operating Problem	Corrective Action
Station 601	3	Door open or not latched, Pump Fault, Utility Power Failure, Hi Alarm, Low Level Lockout	Check doors are closed and locked, Pump and inspect, SCADA check and start, check doors and reset alarm, check floats
Station 602	9	Cellular issue, low temp, Utility Power Failure, Pump Fault, Door open or not latched	Check SCADA, check the heater and louvre vent, Pump and inspect
Station 606	4	Utility Power Failure	Check SCADA, Check Pump and inspect
Station 607	7	Cellular issue, Utility Power Failure, Pump Fault	Check SCADA, Pump and inspect
Station 608	5	Utility Power Failure, Hi Alarm, Low Level Lockout	SCADA check and start, Pump and inspect, Check level and run pump, check floats
Station 611	5	Cellular issue, low temp, Utility Power Failure	Check SCADA, check the heater and louvre vent
Station 612	18	Utility Power Failure, Hi Alarm, Low Level Lockout, Door open or not latched	SCADA check and check floats, Check doors are closed and locked
Station 617	7	Utility Power Failure Pump Fault	Check SCADA, check pump and inspect.
Station 618	7	Cellular issue, Utility Power Failure	Check SCADA, ensure generator started
Station 619	5	Cellular issue, Utility Power Failure	Check SCADA, ensure generator started
Station 620	51	Cellular issue, Utility Power Failure, Pump Fault	Check SCADA, Pump and inspect
Station 621	10	Door open or not latched, Pump Fault, Utility Power	Check doors are closed and locked, Pump and inspect, SCADA check and start,

SPS No.	No. of Alarms	Operating Problem	Corrective Action
		Failure, Hi Alarm, Low Level Lockout	check doors and reset alarm, check floats
Station 622	3	Utility Power Failure, Hi Alarm, Low Level Lockout	SCADA check and start, Pump and inspect, Check level and run pump, check floats
Station 623	20	Utility Power Failure, Generator Fault, Pump Fault, Door open or not latched	SCADA check and start, Generator troubleshooting, Pump and inspect, Check doors are closed and locked
Station 624	11	Utility Power Failure Pump Fault	SCADA check and start, Check heater and louver vent, Check level and run pump, check floats
Station 625	1	Utility Power Failure, Hi Alarm, Low Level Lockout	SCADA check and Check level and run pump, check floats
Station 626	1	Utility Power Failure, Pump Fault	SCADA check and start, Ensure generator started
Station 628	2	Generator Fault, Pump Fault, Low Temp, High Temp	Generator troubleshooting, Pump Fault, Check heater and louver vent
Station 629	27	Cellular issue, Utility Power Failure, Pump Fault	Check SCADA, Pump and inspect

4. Calibration, Maintenance and Repairs

All sanitary pumping stations have weekly and monthly inspection routines completed by Water/Wastewater Operators. All inspections, maintenance, calibration and repair activities are recorded in a web-based/map-based application software and in logbooks, which are kept at the Water/Wastewater Operations Facility. Water/Wastewater Operators conduct scheduled calibration, maintenance and repair work on the sanitary pumping stations and respond to pump station alarms received by the SCADA system located at the Water/Wastewater Operations Facility.

The Town utilizes a Real-Time Control system via SCADA (Supervisory Control and Data Acquisition) Instrumentation and Control systems at its Sanitary Pumping Stations. Pump operations are managed by remote processing units that connect direct to the Town's SCADA system. Each station is outfitted with a level transmitter, auto dialer, temperature switch and an on-site antenna. Three (3) stations have flow measurement devices (SPS 612, 617 and 626), and all stations are equipped with corresponding WIN 911 alarms.

Upgrades to the SCADA system for the Town’s sanitary sewer stations were completed in 2025 and included both hardware and software improvements.

To ensure the effective operation of all sanitary pumping stations, regular preventative maintenance is carried out through a combination of in-house efforts and contracted services. In-house tasks include cleaning floats and grates, conducting general inspections onsite, and monitoring via the SCADA system.

Additionally, the Water/Wastewater/Waste Division works closely with Infrastructure Planning and Capital Delivery Divisions to coordinate essential activities, including CCTV inspections, sewer flushing, condition assessments, and inflow and infiltration studies. The Capital Delivery team further manages the rehabilitation and replacement of sanitary sewer infrastructure.

Contracted services, such as wet well cleaning and instrumentation upkeep, are planned and scheduled annually.

Below (Table 3) details maintenance, calibration and repair activities.

Table 3 – Pump Station Maintenance

Sewage Pumping Station	Maintenance, Calibration and Repair Activities
Station(s): 601, 602, 606, 607, 608, 611, 612, 613, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 628, and 629	Weekly scheduled tests include inspection of pumps, visual panel inspection, test run of pumps, visual inspection of wet well, grounds keeping / snow removal, float testing and cleaning, and grate cleaning. Station(s) 612, 623, and 624 have a Bioxide system for H2S
All stations	Generator testing - Load Test (monthly) Pump maintenance - pull pumps and look fully over (annually) SCADA calibration/Clean up (annually) Fall Arrest/Protection & Lifting Points Inspection (annually) Pump Chains Inspection (annually) Electrical Safety Authority Inspection (annually) Wet Well cleaning (bi-annually) Backflow inspections (annually)

Sewer Flushing Maintenance

Gravity sewers undergo regular, scheduled maintenance, with sewer flushing tracked electronically. Flushing activities are undertaken annually, with approximately 10% of the linear infrastructure flushed each year as part of the ongoing maintenance program. In 2025, a total of 69 km of sewer was flushed through hydraulic cleaning. Of this total, 12.6 km consisted of sensitive sewer segments (“hot spots”) that require bi-annual flushing. The map below (Figure 1) illustrates flushed areas.

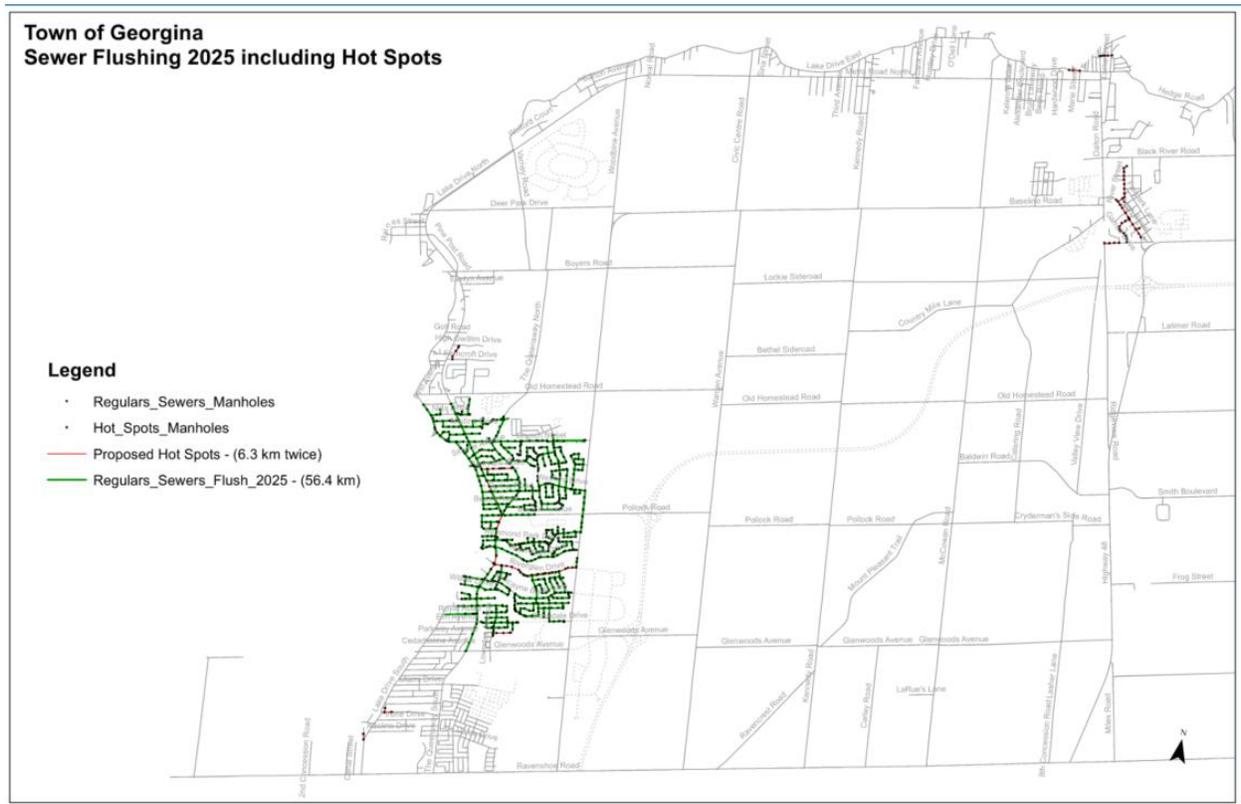


Figure 1: Sewer Flushing Map 2025

Maintenance Hole Repairs

In 2025, a total of six (6) maintenance holes were successfully repaired as part of ongoing maintenance efforts. The work carried out on these maintenance holes involved addressing various issues such as replacing damaged, missing or offset covers, which are essential to ensuring the safety and functionality of the system. These repairs were necessary to maintain the integrity of the system, prevent potential hazards, and extend the lifespan of the maintenance holes, ensuring they function optimally for future use.

Calibration

Calibration and maintenance activities are performed according to manufacturers' recommendations. Calibration certificates are available upon request.

Data collected through these monitoring programs can be used as an indicator of the overall performance of the Authorized System. This data assists in:

- identification of pipe renewal and replacement activities. Data is used to identify the sewage collection system's linear infrastructure assets renewal (cured-in-place pipe lining/trenchless repairs) and replacement (open-cut/rehabilitation) requirements.

- identification of inflow and infiltration reduction activities. Data is used to determine sources of inflow and infiltration in sanitary sewers and requirements for corrective actions.
- determining decommissioning and disposal activities. Asset decommissioning and disposal activities are performed to decommission and dispose of assets due to aging or changes in performance and capacity requirements.
- providing input to the risk assessment of assets.
- providing input to the annual capital and operating budgets.
- determining the Authorized System’s overall condition.

5. Inquiries/Complaints

In 2025, the Town received a total of twenty-four (24) complaints and inquiries related to the sanitary sewer system. All reported issues were investigated, and corrective actions were taken where required.

Twenty-two (22) of the complaints involved sewer backup or backup-related concerns. Two (2) of these incidents resulted from failures at Regional sanitary pumping stations or facilities and were addressed by York Region. Thirteen (13) backup complaints were determined to be related to private plumbing issues. In each case, municipal infrastructure was inspected and found to be operating as intended, with responsibility for corrective action resting with the homeowner. The remaining seven (7) sewer backup complaints were attributed to municipal infrastructure issues, including root intrusion, encrustation, and blockages, which were investigated and corrected by Town staff.

Two (2) odour-related complaints were also received during the reporting period. One could not be linked to an identifiable cause and required no corrective action, while the other was attributed to an expired charcoal filter, which was replaced and supplemented with liquid deodorizer. A summary of all sanitary sewer system complaints and inquiries received in 2025 is provided in the Table 4 below.

Table 4: Inquiries/Complaints

Total No. of complaints	Nature of Complaint	Cause	Actions
2	Odour	Expired filter	Change filter, add liquid deodorizer
7	Sewer backup	Buildup of debris and roots, broken lateral.	Clear blockages, ream lateral, fix broken laterals.
2	Sewer backup	SPS failure	York Region corrected issue.
13	Sewer backups	Private side issue	Check upstream/ downstream, maintenance holes, refer to sanitary lateral policy

The following outlines the typical corrective actions undertaken in response to sanitary sewer system inquiries and complaints:

- Initiation of site investigations and follow-up communication with affected residents.
- Implementation of immediate on-site measures, where applicable, to minimize potential impacts or safety risks, such as inspecting downstream maintenance holes using gas monitoring equipment to address odour concerns or securing exposed maintenance holes.
- Assessment and determination of appropriate corrective actions, including unplanned maintenance activities or prioritization of follow-up repairs where required.
- Creation and tracking of work orders to address identified deficiencies or corrective maintenance needs.
- Coordination and collaboration with other municipal departments or external authorities, as applicable, for inquiries not directly related to the Authorized System.

6. Alterations to the Authorized System

As per CLI-ECA #119-W601, the Town can authorize low-risk municipal alterations to the Authorized System when the permit’s Schedule D criteria are met. Once new infrastructure is assumed, the Town takes on the duty of operating and maintaining it to ensure safety and reliability. These operations and maintenance activities are necessary to ensure the system continues to perform as designed. Table 5 summarizes all alterations to the Authorized System that were authorized by the Town within the reporting period. There were no alterations that posed a significant drinking water threat (SDWT).

Table 5: Alterations in 2025

Alteration to the Authorized System / Project Name	Location	Description of Work	Form	Does this Alteration Pose a SDWT
Cap Court	Extension of Logistics Court to the east to end of road.	New 274.5m of 450mm of PVC SAN	SS1	No
Urbanization of Queensway North	Sanitary sewers along The Queensway North from Old Homestead (approx. MHA14A) to 570m south of Old Homestead Road approx. Ex MH46A)	New 570m of 200mm diameter of PVC See approved Drawing P101 by SKA	SS1	No

7. Collection System Overflows and Spills of Sewage

An overflow is a controlled discharge of wastewater to the environment from a designated location within the collection system. An overflow occurs when rainwater, groundwater intrusion and/or unplanned situations result in additional flows entering sanitary sewers that overwhelm the system. There were no overflows from the sanitation collection system between January 1 and December 31, 2025.

A spill is a discharge of any substance to a sewage works or to the natural environment that is abnormal in quantity or quality considering all the circumstances of the discharge. There were four (4) spills that occurred within the Authorized System during the reporting period, as outlined in Table 6 below.

Table 6: Summary of Spills

Date of Event	Location	Description	SAC Ref #	Corrective Action
February 22, 2025	Wexford Drive, west of Woodbine Avenue	A hydraulic fluid spill (approximately 40L) from sidewalk plow within the sidewalk.	1-hrzv9b	SAC was notified. Town staff responded and contained the spill
June 8, 2025	23550 Woodbine Avenue	fuel tank struck bollard by receiving dock at rear of Walmart (private property).	1-OJJNL3	SAC was notified. Spill was contained to single catch basin and did not enter storm pond at west side of property. Vac truck on site cleaning catch-basin, absorbent pads being used in parking lot.
July 2, 2025	199 Simcoe Ave	Raw sewage was overflowing from the manhole cover that travelled down the property across the sidewalk on Metro Road South and onto the road edge	1-00APSJ	SAC was notified. Town staff contained the spill with spill kit. Vac truck on-site for cleanup.

Date of Event	Location	Description	SAC Ref #	Corrective Action
		towards the nearest catch basin south of the spill location.		
July 24, 2025	18 Riveredge Drive	During contractor's repair of water service, the backhoe blew a fuel line.	N/A	Contractor had taken action to secure the area and clean the spill.

8. Improvement Efforts to the Sanitary Collection System

The Town of Georgina takes a proactive approach to identifying and addressing inefficiencies within the sanitary collection system to improve overall system performance and reduce the risk of overflows and spills. Through condition assessments, inflow and infiltration studies, and flow monitoring programs, the Town continues to evaluate system performance, prioritize corrective actions, and implement targeted improvements. These efforts support the long-term reliability, environmental protection, and sustainability of the sanitary collection system while helping to optimize the use of existing infrastructure and capital investments.

Table 7: Improvement Efforts

Project/Summary of Effort	Description	Timing
Sanitary Sewer and Maintenance Hole Condition Assessments	Hydraulic cleaning (flushing) of sanitary sewers (56.4 km) Additional hot spots flushing was completed of (12.6 kms) over the reporting period.	Completed during the reporting period.
	CCTV inspection of sanitary sewer (18.30 km)	
	Maintenance Hole inspections (256)	

Project/Summary of Effort	Description	Timing
Acoustic Testing	An acoustic sewer condition assessment pilot was completed over approximately 11.9 km of sanitary sewer. Results from the pilot are being used to inform targeted follow-up investigations, such as CCTV inspection and maintenance planning, and to support data-driven prioritization of rehabilitation activities.	Completed during the reporting period.
Sanitary Pumping Stations Condition Assessments	The work consisted of inspecting and assessing the condition and performance of assets within SPSs 621, 622, 623 and 624 using various methodologies, including visual field inspections, non-destructive testing, and specialized assessments such as pump tests for noise and vibration, designated substance surveys, and arc flash analyses.	Completed during the reporting period.
Wastewater flow monitoring	This program monitors residual system capacity, wastewater generation, and inflow and infiltration at targeted locations to support identification of potential I/I sources. In addition to the Regional flow monitoring network, the Town installed five supplementary monitors to further refine assessment in priority areas.	Active during the reporting period and ongoing.
Wet weather and dry weather flow analysis	Wet and dry weather flow analysis was completed using flow monitoring data to characterize baseline sanitary flows, assess system response during rainfall events, and identify areas influenced by inflow and infiltration to support system performance evaluation and prioritization of corrective actions.	Completed during the reporting period.

Project/Summary of Effort	Description	Timing
SCADA upgrades	<p>In 2025, the Town completed comprehensive SCADA upgrades for the sanitary sewer system, including deployment of a new SCADA server and virtualized environment with current, vendor-supported operating systems; installation of a dedicated backup server and NAS; replacement of the legacy WIN-911 platform with Ignition Alarming and new SMS/voice modems; implementation of a paid Historian server for alarm and event logging; addition of automated reporting through Dream Report; creation of a dedicated PLC development VM; and replacement of the aging operator view node at the Operations Centre. These improvements enhance system reliability, alarm management, data integrity, and regulatory reporting in support of CLI-ECA compliance.</p>	<p>Completed during the reporting period.</p>

Summary

The Town of Georgina’s sanitary collection system and sanitary pumping stations, operated by the Water/Wastewater Division, are routinely inspected and maintained in accordance with established operating and preventive maintenance practices. Required repairs are addressed in a timely manner, and all public complaints are investigated and resolved as appropriate. The Town continues to undertake targeted initiatives to quantify and assess wet-weather flows and to reduce the occurrence of overflows, spills, and bypasses within the sanitary collection system.

APPENDIX A:

Overview Map of the Authorized System

