



**2025 Annual Performance Report
Richmond Hill Stormwater Management System**

Environmental Compliance Approval (022-S701)

Date of Issue: March 30, 2026

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1 Introduction

The 2025 Annual Performance Report has been prepared in compliance with Section 5.2, Schedule E: Operating Conditions of the City of Richmond Hill's Environmental Compliance Approval (ECA) for a Municipal Stormwater Management System (022-S701). This document was issued to the City of Richmond Hill on June 20, 2023.

This report covers the period of January 1 to December 31, 2025.

The municipal stormwater management system is a separate system (i.e. not designed to convey sanitary sewage or combined sewage) within the Toronto and Region Conservation Authority (TRCA) watershed of the Humber, Don and Rouge Rivers. Richmond Hill's system is interconnected with the York Region system, and has drainage connections with Markham, Vaughan and Aurora.

The City's stormwater management system includes storm sewers, culverts, catchbasins, maintenance holes, ditches and swales, stormwater management facilities, outlets and third pipe collection systems (foundation and rooftop drainage collectors).

The report is organized with sections that correspond with the subsections of Schedule E, Section 5.2 which are noted within the headings.

2 Reporting

2.1 Monitoring and Environmental Trends Data (5.2.2 and 5.2.3)

Not applicable at this time. The future system 'monitoring plan' will be developed and implemented in accordance with Ministry of the Environment, Conservation and Parks (MECP) guidelines (yet to be released) and ECA requirements.

2.2 Operations, Inspections, Maintenance and Repairs (5.2.4 and 5.2.5)

The City undertakes a variety of operations and maintenance (O&M) programs and activities to maintain services of the stormwater management system as noted in Table 1. Inspections of the stormwater management system are undertaken by staff in the Infrastructure Planning as well as Water, Wastewater and Roads.

Table 1: Summary of Inspections of Stormwater Management Systems

Maintenance Program	Program Description	Frequency	# Completed in 2025
SWM Pond Inspection	Inspecting SWMFs to ensure that performance of facilities remains in compliance and flooding risks are minimized	Annually	98
Catchbasin Inspection	Inspect catchbasins to ensure they are structurally sound and note if any maintenance is needed	Once every 3 years	1017
Catchbasin Cleaning	Cleaning debris from catchbasins to allow for proper drainage	Once every 3 years (or more frequently as needed)	1017
Catchbasin Repairs	Repairs to frame and cover, modoloc	As needed	97
CCTV Sewer Inspections & Cleaning/ Flushing	CCTV inspections and flushing to remove anything that may be causing blockage	Once every 10 years	47.6 kms
Street Sweeping	Sweeping streets to eliminate hazards to traffic and storm drainage systems	Once every spring and additional throughout the year as needed	1130 kms
Inlet/ Outlet Inspection	Inspect inlets/outlets to ensure they are structurally sound and to see if any maintenance is needed	Bi-annually	1
Inlet/ Outlet Cleaning	Cleaning debris from inlets/outlets to minimize risk of flooding	As needed	3
Stormwater Management Facility O&M	SWM maintenance to ensure proper functioning of infrastructure	As needed	42
OGS Inspection	Inspect OGSs to determine if maintenance is required	Annually	130
OGS Cleaning	Cleaning sediment out of OGSs	As needed	23
Storm Sewer Repair and Replacement	Repair and replacement of storm sewers	As needed	0

In addition to the works outlined in Table 1, the City undertakes various other repair, sediment removal or retrofit projects on our stormwater infrastructure based on the deficiencies identified in our operations and monitoring programs. Table 2 notes the large-scale works that were completed within 2025 whereas Table 3 identifies the studies that are currently underway related to retrofits of existing stormwater management infrastructure to optimize their performance.

Table 2: Stormwater System Works undertaken in 2025

Asset Name / ID	Project Description
SWMF 11-2	Emergency outlet constructed to deal with beaver dam
SWMF 1-1	Sediment removal

Table 3: Stormwater Feasibility Studies Undertaken

Asset Name / ID	Project Description
SWMF 1-4	Schedule B EA completed
SWMF 2-11	Feasibility Study completed
SWMF 8-2	Feasibility Study completed

2.3 Calibration and Maintenance of Monitoring Equipment (5.2.6)

Not applicable at this time. The future system ‘monitoring plan’ will be developed and implemented in accordance with Ministry of the Environment, Conservation and Parks (MECP) guidelines (yet to be released) and ECA requirements.

2.4 Inquiry Summary (5.2.7)

The City of Richmond Hill receives inquiries related to stormwater management infrastructure in one of two ways: through an Access Richmond Hill Contact Centre (Access RH) or a dedicated stormwater email address. Staff review, assess and investigate the concern and respond to all inquiries based on established service timelines.

Table 4 notes the inquiries received and resolved within the reporting period. For the category of “Other” the calls could not be categorized based on the information included in the notes from Access RH other than that they were related to the Stormwater Management System.

Table 4: Summary of Public Inquiries related to Stormwater Management System

Inquiry Type	Total
Catchbasin Clearing - Winter Operations	58
Stormwater Ponds	8
Ditch, Culvert & Headwall Maintenance	15
Storm Sewer Blockage	3
Catchbasin & Maintenance Hole Maintenance	145
Ponding / Flooding	49
Other	21
Total	299

2.5 System Alterations (5.2.8)

Table 5 shows the summary of all alterations to the stormwater system for 2025. It should be noted that the City of Richmond Hill does not have any areas identified as significant drinking water threats and as such, this information has not been included in Table 5.

Table 5: Summary of All Alterations

Alteration Type	Number of Alterations
Pre-Authorized Storm Sewer, Ditch or Culvert	11
Pre-Authorized Stormwater Management Facility	7
Pre-Authorized Third Pipe	1
Previously Approved Works	3
Schedule C Works	0
Total	22

2.6 Spills (5.2.9)

Staff receive notice of spills and/or abnormal discharge events from various sources (internal and external) and respond with the necessary mitigations and inspections. In 2025, the City of Richmond Hill experienced 15 reported events and responded accordingly.

2.7 System Improvement Actions (5.2.10)

Through our regular inspection programs, sediment surveys, functional assessments, the stormwater computer model and proposed capital work program, the City identifies projects to

improve the performance of the Stormwater Management System. Table 6 notes the actions taken to improve the planning, operation, and maintenance of the stormwater system.

Table 6: Actions Taken

Issue	Actions to be Taken	Target Completion Date
GIS Data	Work is ongoing to improve the GIS layers related to the stormwater management system	Ongoing
Infrastructure Planning	Stormwater Master Plan	Q2 2027
SOP revision / Development	Update old SOPs and create new SOPs	Ongoing

2.8 Status of Previous System Improvement Actions (5.2.11)

Table 7 notes the status of previously identified system improvement actions that were noted in our previous annual report.

Table 7: Status of Previous System Improvement Actions

Issue	Actions to be Taken	Status
Infrastructure Planning	City-wide computer model to be updated to bring in areas of new development	To be updated as part of Stormwater Master Plan
Infrastructure Planning	Update rain gauge network	An ongoing activity as the system requires replacement