

# 2024 Annual Performance Report – Mississauga Stormwater Management System

**ENVIRONMENTAL COMPLIANCE APPROVAL (# 313-S701) – CITY OF  
MISSISSAUGA**



**Prepared by: Stormwater Service Area, Transportation & Works Department**

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<b>ENVIRONMENTAL COMPLIANCE APPROVAL</b>	<b>ECA Number:</b> 313-S701, Issue No. 2
<b>System Owner:</b> Corporation of the City of Mississauga	
<b>System Name:</b> Mississauga Stormwater Management System	
<b>Reporting Period:</b> 2024	
<b>Submitted to:</b> Director, Ministry of the Environment, Conservation and Parks (MECP)	<b>Report Date:</b> May 9, 2025

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## OVERVIEW

Pursuant to Ontario's *Environmental Protection Act*, R.S.O 1990, c. E. 19 (EPA), this report has been prepared in compliance with Section 5.2, Schedule E: Operating Conditions of Mississauga's Environmental Compliance Approval (ECA) for the authorized municipal stormwater management system.

## REPORTING – ANNUAL PERFORMANCE



### A. Reporting Period (Sec. 5.2.1)

January 1<sup>st</sup>, 2024 to December 31<sup>st</sup>, 2024.

### B. System Condition, Performance & Monitoring (Sec. 5.2.2)

#### System Conditions

Overall conditions of Stormwater Management System, at end of the reporting period, can be characterized as 'good'. This rating is derived from condition assessments of the Stormwater Collection System, Third Pipe Collection System and Stormwater Management Facilities as reported in Mississauga's Stormwater Asset Management Plan (see Table 1). For more detailed information on the state of stormwater infrastructure please refer to the City's most [recent published asset management plan](#).

System	Average Condition
Storm Sewers (incl. Third Pipe)	
Stormwater Management Facilities (SWMF)	

**Table 1 – Summary of Stormwater System Condition (2024)**

### System Performance

**Stormwater & Third Pipe Collection System** - Overall performance of the stormwater collection system (i.e. sewers/pipes) has been defined as the percentage of inspected sewers with major blockages. Major blockages are those typically with obstructions of more than 30% of the inner pipe diameter. For 2024, major blockages were identified in under 8% of sewers. Issues such as blockages are corrected through the City's operations and maintenance programs to maintain optimal system performance. Storm sewer operations and maintenance activities completed in 2024 are detailed in the sections below.

**Stormwater Management Facilities** - Overall performance of the stormwater management facilities is provided through detailed annual inspections to visually identify performance or major functional issues. For 2024, 32% of the facilities inspected required interventions to ensure their continued performance. When these issues are identified they are corrected through the City's operations and maintenance programs. Stormwater management facility operations and maintenance activities completed in 2024 are detailed in the sections below.

### Monitoring Data Summary

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

## C. Environmental Trends – Previous 5 Years (Sec. 5.2.3)

Not applicable (see item B, Monitoring Data).

## D. Operations Summary (Sec. 5.2.4)

Mississauga's Stormwater Service Area completes a variety of operations and maintenance (O&M) programs and activities to maintain services of the stormwater management system. Depending on the type of works, some operations are completed through internal programming and others are contracted to external vendors or a combination of both. Where external vendors have completed detailed O&M and inspection plans for a specific facility (i.e. pumping stations), reporting documents are referenced in Appendix A. Table 2 summarizes the primary operations programs delivered.

Operating Program/Activity	Frequency*	Contract vs. Internal
Closed-Circuit Television (CCTV) Sewer Inspections	Every 10 years	Contract
Catchbasin Cleaning	Once every 3 years	Contract
Spills Inspection & Response	As needed	Contract / Internal
Street Sweeping	Seasonal	Contract
Inlet/Outlet Cleaning	Seasonal / Post-event	Internal
Sewer Cleaning/Flushing	Per inspection	Contract
Stormwater Management Facility O&M	Per inspection	Internal
Oil-Grit Separator (OGS) O&M	Per inspection	Contract
Pumping Station O&M**	Per inspection	Contract

\*Frequency is subject to change through regular review and updates to level of service.

\*\*Pumping Station O&M is contracted to external vendors that carry-out detailed O&M plans.

**Table 2 – Summary of Stormwater Operations Programs**

Throughout the year, operations work is completed on the stormwater management system and often recorded in a work order (WO). Table 3 summarizes works completed by operations program.

Operating Program/Activity	# of Works Completed / Work Orders
CCTV Sewer Inspections & Cleaning/Flushing	35
Catchbasin Cleaning	43
Street Sweeping	9
Inlet/Outlet Cleaning	13
Stormwater Management Facility O&M	71
OGS Cleaning	0
Pumping Station O&M	Refer to Appendix A

**Table 3 – Summary of Works/Work Orders by Operations Program (2024)**

## E. Inspection & Maintenance Details (Sec. 5.2.5)

Mississauga's Stormwater Service Area completes several formal inspection programs to evaluate conditions, identify deficiencies and maintenance and to plan repair/renewal works. Table 4 summarizes the primary inspection activities and the amount of inspection completed.

Inspection Program/Activity	Total
CCTV Sewer Inspections	42,560 m
Priority Inlet/Outlet Inspections - <i>Cleaning</i>	>50
Inlet/Outlet Inspections - <i>Condition</i>	0
Inlet/Outlet Inspections - <i>Water Quality</i>	47
Stormwater Management Facility Inspections	84
OGS Inspections	2
Pumping Station Inspections	Refer to Appendix A

**Table 4 – Summary of Inspection Programs for Stormwater System (2024)**

Through the above inspection programs or internal/external requests received, City staff undertake the necessary works to maintain the Stormwater System in a state of good repair. Similar to operations, some maintenance is completed through internal programming and other works are contracted to external vendors. Maintenance and repairs are often recorded in a work order (WO). Table 5 summarizes works completed by maintenance program.

Maintenance Program/Activity	# of Works Completed / Work Orders	Contract vs. Internal
Storm Sewer Repair	25	Contract
Cross-Connections	6	Contract
Catchbasin/Maintenance Hole Repair	102	Internal
Inlet/Outlet Repair	15	Internal
Ditch/Culvert & Headwall Repair	35	Internal
Stormwater Management Facility Repair	1	Contract / Internal
Pumping Station Repair	Refer to Appendix A	Contract

**Table 5 – Summary of Works/Work Orders by Maintenance Program (2024)**

## F. Monitoring Equipment (Sec. 5.2.6)

Not applicable (see item B, Monitoring Data Summary).

## G. Inquiry Summary (Sec. 5.2.7)

The City of Mississauga has a central intake system and dedicated division for resident/customer inquiries known as the 311 Citizen Contact Centre. Stormwater System inquiries and requests for service are logged by 311 and sent to the appropriate division/staff. Staff review, assess and investigate the concern and respond to all inquiries based on established service timelines (e.g. 3 to 10 days). Should the inquiry identify the need to undertake operations & maintenance works or repairs on stormwater infrastructure, staff submit an internal work request or work order.

The Infrastructure Planning & Engineering and Works, Operations & Maintenance divisions receive a large volume of inquiries that relate to the City's Stormwater System. Table 6 below summarizes the inquiries received/resolved for this reporting period.

Inquiry Type	Total
<i>Infrastructure Planning &amp; Engineering</i>	
Storm Sewer By-law Compliance	5
Spills & Pollution Prevention	33
Stormwater Planning & Projects	108
Stormwater Development & Design	49
Stormwater Management Ponds	24
Storm Sewers & Drainage	74
Council Requests	3
<i>Works, Operations &amp; Maintenance</i>	
Catchbasin Clearing - Winter Operations	8
Ditch, Culvert & Headwall Maintenance	303
Storm Sewer Blockage	98
Catchbasin & Maintenance Hole Covers	614
Storm Sewer Outlet Maintenance	47
Council Requests	24
<b>Total</b>	<b>1390</b>

**Table 6 - Summary of Public Inquiries for Stormwater System (2024)**

## H. Alterations to the Authorized System Summary (Sec. 5.2.8)

Alterations to the authorized Stormwater System are summarized in Tables 7 and 8 below indicating those that require Director's Notification as well as Storm Sewer alterations (SW1 Form).

Asset ID	Description	Facility Type	Form SW2	Director's Notification	Date
2604	Rathburn-Ponytrail Integrated Roads Project	LID Facilities - Retention	✓	✓	4/28/2025

**Table 7 – Summary of Stormwater Management Facility Alterations (2024)**

Asset ID	Description	Form SW1	Status	ECA Number
n/a	none	--	--	--

**Table 8 – Summary of Storm Sewer Alterations (2024)**

## I. Spills Response Summary (Sec. 5.2.9)

Staff in coordination with the Region of Peel, receive notice of spills and/or abnormal discharge events from various sources (internal and external) and respond with the necessary mitigations and inspections. Table 9 below summarizes the City's spills response for the reporting period.

Spills / Abnormal Discharge	Total
Reported Events/Inspections	538
Work Orders	0

**Table 9 – Summary of Spills Response (2024)**

## J. Corrective Actions Taken & Proposed (Sec. 5.2.10)

Through regular inspection programs, assessments and studies, the Stormwater Service Area identifies projects to improve or reinstate performance of the Stormwater Management System. Examples include drainage/capacity improvements, flood relief works, rehabilitation and retrofits and adding additional stormwater management services to the system. Identified projects are prioritized in the Stormwater 10-year Capital Plan and approved through the City's [Business Plan and Budget](#). Table 10 highlights corrective stormwater projects budgeted for in 2025.



Corrective Actions Proposed	Estimated Construction Year	System
Winding Trail Storm Inlet Improvement	2026	Storm Sewers
Runningbrook Dr. to Cedarbrook Park Storm Sewer Improvement	2026	Storm Sewers
Pond #4302 Dredging and Rehabilitation	2027	Stormwater Management Facilities
Pond #5601 Dredging and Rehabilitation	2027	Stormwater Management Facilities
Pond #5804 Dredging and Rehabilitation	2027	Stormwater Management Facilities

**Table 10 – Proposed Corrective Actions (per Stormwater Capital Plan)**

## K. Status of Previously Reported Actions (Sec. 5.2.11)

Table 11 below summarizes the status of reported actions/projects from the previous reporting year.

Corrective Actions In-Progress	Status	System
Pond #2701 & 2702 Dredging & Rehabilitation	Design/Construction	Stormwater Management Facilities
Rathburn Road East LID (#2604)	In-Service	Stormwater Management Facilities
Lisgar Pumping Stations (#5508 & #5604)	Design/Construction	Stormwater Management Facilities
Pond #0901 & #1001 Dredging & Rehabilitation	Design	Stormwater Management Facilities
Malton Drainage Improvements	Design/Construction	Storm Sewers
Port Credit Drainage Improvements	Design	Storm Sewers
Pond #4601 & #4602 Dredging & Rehabilitation	Design	Stormwater Management Facilities
Pond #2401 & #4501 Dredging & Rehabilitation	Design	Stormwater Management Facilities
Cooksville Creek Flood Storage Facility - Huron Heights Park (#2805)	Design/Construction	Stormwater Management Facilities

**Table 11 – Status of Corrective Actions/Capital Projects In-Progress**

## Appendix A – Reference Documents

- i. *2024 Annual Sewage Report, Cactus Gate (Lisgar) Storm Water Pumping Station*. Prepared by Ontario Clean Water Agency (OCWA), received March 19, 2025.
- ii. *Torbram Stormwater Pump Station 2024 Operations Summary*. Prepared by Region of Peel, received May 5, 2025