



Municipality of Mississippi Mills

Stormwater Collection System Annual Performance Report

ECA # 178-S701

Roads and Public Works

Reporting Year: 2023

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1. Compliance Overview

Compliance Event	# of Events
Ministry of the Environment Inspections	0
Ministry of Labour Inspections	0
Reportable Bypass/Overflows	0
Reportable Spills	0
Operating Issues	0

2. System Process/Description

The Municipal Stormwater Management (SWM) system serving the Municipality of Mississippi Mills drainage area, is a separate system for stormwater (i.e., designed to not convey sanitary sewage, combined sewage) within the following watersheds: Waba Creek, Lake Madawaska – Madawaska River, Cartwrights Creek – Mississippi River, Indian Creek, and Carlton Place Dam – Mississippi River. The Municipality’s Roads and Public Works department is the Operating Authority (OA) for the system.

The Mississippi Mills SWM system comprises of approximately 43 km of stormwater pipe, 10 km of open channels, and several stormwater management facilities and outlets. The system covers areas in Almonte, Clayton, Pakenham, Blakeney, and Appleton. The SWM system is approved through a Consolidated Linear Infrastructure Environmental Compliance Approval (ECA) – number 178-S701 - from the Ministry of Environment, Conservation, and Parks under the Ontario Environmental Protection Act.

2.1 System Alterations

Table 2-1 below summarizes the system alterations which occurred during 2023. One alteration was approved during 2023 relating to reconstruction of existing infrastructure – construction and the subsequent verification was completed during 2023. There were no alterations to system components, nor did any alterations require Directors Notification.

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Table 2-1: Summary of System Alterations

Alteration Type	Project	Date Authorized	Project Status	Part V Verification Completed ¹	Significant Drinking Water Threat ²
SW1 – Alteration for Storm Sewer	Reconstruction of Princess Street infrastructure (Municipally initiated)	July 7, 2023	Complete	Yes	No

¹ Should Part V verification not be completed in the year in which it was authorized, it will be provided in the annual report in which it is completed.

² All alterations are screened using the *Mississippi Mills Significant Drinking Water Threat Assessment (2023)* document.

3. Monitoring

The ECA for the SWM system requires monitoring as outlined in Schedule E, Section 4.0. The Municipality will comply with the requirement to develop a Monitoring Plan in accordance with the ECA terms and conditions and the MECP's guidance document. At the time of this report, the MECP has not yet published the stormwater guidance document, therefore a monitoring plan has not been developed at this time.

In accordance with Section 4.1, the Municipality will develop a monitoring plan on or before August 14, 2024, or within twenty-four months of the date of the publication of the Ministry's guidance document. The monitoring plan when developed will include a summary of all monitoring data along with interpretation of such data. A summary and interpretation of environmental trends based on the monitoring data will be included when the plan has been developed.

4. System Maintenance & QA/QC

In 2023, the Roads and Public Works department undertook the following tasks as part of routine operation and system maintenance:

- Catch basin inspections
- Wet/Dry pond visual inspections
- Annual catch basin cleaning program
- Manhole and catch basin adjustments
- Pipe outlet cleaning
- Pipe outlet / ditch inlet visual inspections

The Municipality has no devices that require calibration as part of the SWM system.

In 2023 the Municipality developed a program which was approved by Council to undertake systematic inspections (CCTV) and cleaning of all stormwater sewers over a four year period beginning in 2024. This program will be in addition to the already implemented annual catch basin cleaning program which involves the cleaning of all catch basins in the system annually. This program for a four-year cleaning/inspection program will allow the Municipality to address any performance issues that may be occurring in the stormwater system. The adequacy of this program will be assessed in the 2024 SWM Annual Performance Report.

4.1 Reconstruction Projects

In 2023, the Municipality initiated a capital project to replace the stormwater, drinking water distribution, and sanitary sewer infrastructure on Princess Street – the project also included road reconstruction. The storm sewer was replaced with piping of similar diameter. The Municipality initiated two design projects in 2023 for the reconstruction of Union Street North (entire length) and Mercer and Marshall Streets (entire length) which include reconstruction of the stormwater infrastructure. Reconstruction of these areas (Union Street North and Mercer/Marshall Streets) will occur in 2024 with works approved as a pre-authorization under the respective CLI-ECAs.

5. Complaint Management

In 2023 complaints received regarding the stormwater system were only during high precipitation events which in some areas The Municipality has recently developed a more robust Standard Operating Procedure for receiving and tracking complaints which will provide more detail for future complaints.

6. System Performance

Overall, the SWM system performs as designed. Extreme precipitation events over a short duration may have a perception of inadequate system performance, however in such instances additional time is required to transmit and manage stormwater effectively.

In 2023 there were no reportable overflows, spills, or abnormal discharge events.