

2023 Annual Performance Report
Stormwater Management System

ECA Number: 170-S701

Town of Arnprior
August 2024



Environmental Compliance Approval	ECA Number: 170-S701, Issue No. 1
System Owner: Corporation of the Town of Arnprior	
System Name: Town of Arnprior Stormwater Management System	
Reporting Period: 2023	
Submitted to: Director, Ministry of the Environment, Conservation and Parks (MECP)	Report Date: August 9, 2024

Town of Arnprior – Annual Performance Report Stormwater Management System

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Introduction

On August 1, 2023, the Town of Arnprior received its first municipal Stormwater Consolidated Linear Infrastructure Compliance Approval (CLI ECA). The new CLI ECAs replace the previous Environmental Compliance Approvals (ECAs) that the Ministry of the Environment, Conservation and Parks would issue for specific projects within stormwater collection systems.

CLI ECAs are issued under the:

- [Environmental Protection Act](#) (EPA)
- [Ontario Water Resources Act](#) (OWRA)

Prescribed persons are defined under Ontario Regulation 208/19, Environmental Compliance Approval in Respect of Sewage Works. They are identified as having an agreement with a municipality under the Planning Act or the Development Charges Act.

These CLI ECAs are a single approval for all stormwater management systems and include conditions to authorize municipalities and prescribed persons, such as developers, to make changes to the stormwater management system when the specific requirements of the CLI ECA are met.

As part of the Town of Arnprior's CLI ECA for stormwater management, the municipality is required to provide an annual report. This report covers the period from January 1st, 2023 to December 31st, 2023 and is required to be submitted to the Ministry before April 30th and posted on the Town's website.

Arnprior's stormwater management system is managed under Policy#: PW-WW-06.02: Arnprior Storm Management Facilities – Operations, Inspections & Maintenance. The system consists of about 26.9km of underground piping ranging from 200mm to 1050mm. Our system also consists of eight (8) stormwater management ponds and five (5) Oil Grit Separators.

It is essential for the Town of Arnprior to invest, maintain, and improve its storm water management facilities where possible to protect water quality in the Town's streams and rivers (Madawaska River and the Ottawa River).

In accordance with 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 the Town of Arnprior's Environmental Compliance Approval (ECA) for the authorized municipal stormwater management system.

Reporting – Annual Performance

Reporting Period

January 1st, 2023 to December 31st, 2023.

Monitoring Data Summary and Environmental Trends

I. System Condition

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, and Stormwater Management Facilities as reported in The Town of Arnprior’s Stormwater Asset Management Plan (see Table 1).

Table 1: Summary of Stormwater System Condition (2023)

System	Average Condition Rating
Stormwater Management Facilities (ditches, stormwater management ponds, and outlets)	Good
Storm Sewers Collection System (storm sewers, culverts)	Good

The Stormwater CLI ECA Section 4.0 requires the Town to implement a Monitoring Plan in accordance with the Ministry of Environment Conservation and Parks (MECP) guidance document within 24 months of when the MECP releases the guidance document. To date the MECP has yet to publish the guidance document.

II. Environmental Trends – Previous 5 Years

Not applicable for initial report.

Operations Summary and Challenges

I. Operations Summary

The Town of Arnprior’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 internally and others are contracted to external contractors or a combination of both. Where external contractors have completed detailed O&M and inspection plans for a specific facility (i.e. OGS), reporting documents are referenced in Appendix A. Table 2 summarizes the primary operations programs delivered.

Table 2: Summary of Stormwater Primary Operations Programs

Operating Program/ Activity	Frequency*	Contract vs Internal
Closed-Circuit Television (CCTV) Sewer Inspections/ Cleaning/ Flushing	Every 10 years	Contract
Catch Basin Cleaning	Every 3 years	Contract
Spills Inspection & Response	As needed	Contract/ Internal

Street Sweeping	Seasonal	Internal
Inlet/Outlet Cleaning	Per Inspection	Internal
Stormwater Pond Inspection	Annual (late spring)	Internal
Oil-Grit Separator (OGS) O&M	Annually	Contract
All Ditch System Inspection	Min. Annually	Internal

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

II. Operation Challenges

To ensure long-term effectiveness of stormwater ponds, the sediment that accumulates in SWP's should be periodically removed. Challenges have been presented in developing future plans for stormwater pond cleanouts as historically municipalities were able to remove sediment from site and have it disposed. Now under the MECP's Excess Soils Regulation (O. Reg. 406/19), municipalities have special oversight by qualified personnel, sampling, handling, and disposal requirements for material being removed from stormwater ponds unless the material is kept on site. These additional measures come at a substantial cost, staff will develop a schedule and budget accordingly for any required cleanouts.

Overflow (a water discharge into the natural environment within the collection system) incidents occur during significant rainfall events. Improvements have been made for to reduce combined sanitary and stormwater systems as roadway projects are completed, however; there are still further adjustments to reduce the frequencies of overflows and by-pass events during significant rainfall events.

III. Corrective Action Taken

Through regular inspection programs, assessments and studies, the Town 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.

Inspection & Maintenance Details

The Town completes several formal inspection programs to evaluate conditions, identify deficiencies and maintenance and to plan repair/renewal works. Table 3 summarizes the primary inspection activities and the amount of inspection completed.

Table 3: Summary of Inspection Programs for Stormwater System

System	Inspection Program/ Activity
Storm Sewer Collection System	
Storm Sewers	CCTV Sewer Inspections & Cleaning/ Flushing
OGS (01, 02, 03, 04, 05, 07)	2023 Inspections Completed – Cleaned out as required with vac truck
Stormwater Management Facility	
SWP 01 Campbellbrook Subdivision (Pond 1)	2023 Inspection Completed
SWP 02 Campbellbrook Subdivision (Pond 2)	2023 Inspection Completed
SWP 03 Campbellbrook Subdivision (Pond 3)	2023 Inspection Completed

SWP 05 Village Creek – North Pond	2023 Inspection Completed
SWP 06 Village Creek – South Pond	2023 Inspection Completed
SWP 07 Callahan – Dry Pond	2023 Inspection Completed
SWP 08 Jed Creek – Dry Pond	2023 Inspection Completed
Ditch System Swale (DSS – 01)	2023 Inspection Completed
Ditch System Swale (DSS – 02)	2023 Inspection Completed
All Ditches/ Infiltration trench	2023 Inspection Completed

Through the above inspection programs or internal/external requests received, Town staff undertake the necessary works to maintain the Stormwater System in a state of good repair.

The following stormwater management facilities have not yet been assumed by the Town and remain the responsibility of the respective developer:

- Campbellbrook Subdivision – Vimy Ridge Crescent (SWP 04, OGS 06)
- Marshalls Bay Meadows Subdivision (SWP 09, SWP 10)

Complaints Summary

All complaints received by the Town with respect to Stormwater Management Facilities is received through the clerk’s office or directly to the operations department, the Town’s central intake system, or through the Town’s website. All complaints are received and recorded using the Town’s complaints management system, Access E11. Staff review, assess and investigate the concern and respond to all inquiries.

The following public complaints were received in 2023:

- Notified by a resident that Koi fish are present within SWP 06 Village Creek – South Pond. Town Staff is currently monitoring and working towards the next steps to mitigate.
- Marshalls Bay Meadows SWP – High water levels remained following snowmelt, concern was brought to the developer (Novatech) who cleared out a blockage in the 3” outlet structure.

Spill Response Summary

Spills to the stormwater system can occur and contingency planning seeks to reduce these negative impacts of these spills on stormwater facilities and receiving water course.

Staff receive notice of spills and/or abnormal discharge events from various sources (internal and external) and respond with the necessary mitigations and inspections. No spills were reported in 2023.

Alterations to the System

Alterations to the Stormwater System are summarized in Tables 4, 5 and 6 below indicating those that require Director’s Notification as well as Stormwater Sewer/ Stormwater Management Facilities alterations (SW1 Form and/or SW2 Form).

Table 4: Summary of Stormwater Management Facility Alterations (2023)

Asset ID	Description	Facility Type	Form SW2	Director's Notification	Date
N/A	No Alterations	-	-	-	-

Table 5: Summary of Other Stormwater Facilities Added to System Inventory (transition to CLI-ECA) (2023)

Asset ID	Description	Facility Type	ECA Number	Director's Notification	Date	Rationale
N/A	No Alterations	-	-	-	-	-

Table 6: Summary of Stormwater Sewer Alterations (2023)

Asset ID	Description	Form SW1	Status	ECA Number
10369	Culvert Replacement at Edey Street	Yes	Complete	N/A

In 2023, Public Works staff installed signage at each storm water management facility throughout the Town to communicate to residents the purpose of these facilities and associated risks, as these facilities are not intended to be used for recreational purposes. A sample of the sign installed is noted in Figure 1 below.

Figure 1: SWM Signage



Status of Previous Actions Items

Not applicable for initial report.

Appendix A – External O&M/ Inspection Plans