



Township of South Frontenac
Municipal Stormwater Management System

ECA Number: 166-S701

2025 Annual Report

W. Troy Dunlop, C.E.T.,
Manager of Engineering and
Capital Projects
Public Services Department
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Executive Summary

On September 16th, 2022, the Township of South Frontenac received its first Municipal Stormwater Consolidated Linear Infrastructure Approval (CLI ECA). The new CLI ECA's replace the previous Environmental Compliance Approvals (ECAs) that the Ministry would previously issue for specific projects within stormwater collection systems. These Ministry approvals are issued under the provisions of the Environmental Protection Act and the Ontario Water Resources Act.

The Township of South Frontenac owns and operates a stormwater management system that consists of approximately 11km of underground storm sewers piping ranging in diameter from 250mm to 1050mm. The Authorized System also includes the following:

- 4 manufactured treatment devices (oil grit separators)
- 1 dry stormwater management facility

The enclosed 2025 Annual Report is prepared in accordance with Section 5.0 of Environmental Compliance Approval (ECA) # 166-S701 for the Township of South Frontenac's Municipal Stormwater Management System. This report is to be filed with the Ontario Ministry of the Environment, Conservation and Parks (MECP) on or before April 30th of each year.

A copy of this report is available at no cost at the Public Works Office located at 2490 Keeley Road, Sydenham. The document will also be posted for public viewing on the Township's website on or before June 1st as required by the conditions of approval.

Table of Contents

Executive Summary	2
Reporting Requirements	4
1) Monitoring Data Summary & Trends.....	4
2) Operational Challenges.....	4
3) Inspection Results & Maintenance.....	4
4) Alterations to the Stormwater Management System.....	8
5) Spills / Discharge Events.....	8
6) Complaint Summary.....	8
7) System Improvements.....	8
8) Update on Previous Action Items.....	8
Appendices	
A) Manufactured Stormwater Treatment Devices - Trending.....	9

Reporting Requirements

1) Monitoring Data Summary & Trends

Section 4.0 of the Stormwater CLI ECA requires the Township to implement a Monitoring Plan in accordance with the Ministry of Environment Conservation and Parks (MECP) guidance document within 24 months of receipt of the guidance document. As of the date of this report, the MECP has not released these guidelines. Appendix A of this report includes a summary of the inspection results and cleaning cycles for the 4 manufactured treatment units over the period of 2021 to 2025.

2) Operational Challenges

The Township of South Frontenac is a growing rural community with a population of approximately 20,000 residents. The Township does not own or operate traditional sanitary sewage systems that are regulated under O Reg 129/04. As such, the organization does not have the broader complement of environmental and licenced operator resources of a traditional urban municipality.

The Township encourages the Ministry to continue to offer resources, training, and webinars to assist smaller rural municipalities in the continued roll-out of the next phases of the CLI ECA reporting program.

3) Inspection Results & Maintenance

The following inspection and maintenance activities were completed on the Authorized System during the period of January 1st, 2025, to December 31st, 2025:

a) Stormwater Collection System

The Township owns and operates approximately 11km of stormwater collection pipes that are located throughout the settlement areas of Inverary, Perth Road, Battersea, Hartington, Bellrock, Harrowsmith, Sunbury, Sydenham and Verona. The stormwater collection system for these areas includes a total of 349 roadside catch basin structures that have sediment traps ranging in depth from 0.3m to 0.6m.

Planned Maintenance

- i) September 29th to October 17th, 2025 - The Township's maintenance Contractor inspected and removed sediments out of all roadside catch basins using a hydro-vac truck. As part of these contracted services, the Contractor is required to identify any damaged catch basin lids and to also report any blocked structures observed during cleaning procedure. None of the structures assessed in 2025 were in need of immediate repair.

- ii) July 9, 10 and 15th (Sydenham) - The Township retained Quinte Sewer Services to carry out cleaning and CCTV inspections on approximately 90m of 450mm storm sewers along Wheatley Street as part of future infrastructure planning efforts in the area. Minor deficiencies were identified in the pipe and repairs will be carried forward to future project work planned on the street in 2026.

Unplanned Maintenance

- i) There were no unplanned works on the storm sewer network within the reporting period.

b) Stormwater Treatment Facilities

The Township owns and operates one (1) dry stormwater management facility, and four (4) manufactured treatment devices (oil grit separators) across the Township. The inspection and maintenance details for each of the structures is outlined below.

i) Bellrock Village – OGS Discharge to Depot Creek (Asset ID # 90000)

- The oil grit separator located at 5954 Main Street, Bellrock Village is a Stormceptor Model STC 750 (1800mm) with an oil capacity of 915L and a sediment capacity of 2202 L. The recommended service depths are 350mm for oil and 230mm depth for sediments accordingly.
- The structure was last inspected by Dedicated Environmental Services on August 21st, 2025. No oils or sheens present and the sediment depth was measured at 275mm. Sediment removal was recommended.
- Water samples taken on November 17, 2025, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on December 3rd, 2025, and approximately 0.70 cubic meters of dewatered grit sent to Portland Landfill.

**ii) Bellrock Village – OGS Discharge to Depot Creek
(Asset ID # 90007)**

- The oil grit separator located at 6022 Main Street, Bellrock Village is a Stormceptor Model STC 300 (1500mm) with an oil capacity of 300L and a sediment capacity of 1453 L. The recommended service depths are 255mm for oil and 255mm depth for sediments accordingly.
- The structure was inspected by Dedicated Environmental Services on August 21st, 2025. No oils or sheens present and the sediment depth was measured at 355mm. Sediment removal was recommended.
- Water samples taken on November 17, 2025, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on December 3rd, 2025, and approximately 0.62 cubic meters of dewatered grit sent to Portland Landfill.

**iii) Sydenham Village – OGS Discharge to Millhaven Creek
(Asset ID # 91002)**

- The oil grit separator located at the intersection of George Street and Portland Avenue is a Stormceptor Model STC 200 (2400mm) with an oil capacity of 2890L and a sediment capacity of 6279 L. The recommended service depths are 965mm for oil and 350mm depth for sediments accordingly.
- The structure was inspected by Dedicated Environmental Services on August 21st, 2025. No oils or sheens present and the sediment depth was measured at 380mm. Sediment removal was recommended.
- Water samples taken on November 17, 2025, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on December 5th, 2025, and approximately 1.72 cubic meters of dewatered grit sent to Portland Landfill.

**iv) Sunbury Village – OGS Discharge to Bear Creek
(Asset ID # 91610)**

- The oil grit separator located at 3195 Sunbury Road, Sunbury Village is a Stormceptor Model EF06 (1800mm) with an oil capacity of 610L and a sediment capacity of 3470 L. The recommended service depths are 350mm for oil and 230mm depth for sediments accordingly.
- The structure was inspected by Dedicated Environmental Services on August 21st, 2025. No oils or sheens present and the sediment depth was measured at 275mm. Sediment removal was recommended.
- Water samples taken on November 17, 2025, and confirmed to be free of PHC's and volatile organics.

- Structure cleaned on December 3rd, 2025, and approximately 0.70 cubic meters of dewatered grit sent to Portland Landfill.

**v) Dry Stormwater Management Pond – Sandstone Court
(Asset ID # 91611)**

- The dry stormwater management pond was originally constructed by the developer of Sandstone Court. The facility was originally assumed by the municipality on June 8th, 2022. The facility is located on the east side of Sandstone Court approximately 380m south of the intersection of Moreland Dixon Road. The pond has capacity for 1851 cubic meters of storage at a total depth of 2m. A total of 423.5 cubic meters of the storage is for extended detention of 48 hours.
- The pond was mowed monthly under contract during May, June and July of 2025 as part of the vegetation management program. Brush and small saplings were also trimmed from the inlet and outlets to avoid future obstruction.
- Site inspected in August of 2025, following rainfall on the previous day. The area was dry, there was no standing water,. Staff findings indicated: a) heavy grass vegetation had been cut, b) pipe inlets and outlets were clear of debris, c) orifice controls were in place, d) no litter was observed in the area, and e) no invasive plants were observed such as phragmites or wild parsnip.
- Warning signage complying with the Township’s ECA requirements was ordered in the spring of the year and installed at the site in the fall of 2025.

vi) Stormwater Treatment Facilities – Not Assumed

The following stormwater management facilities have not been officially transferred to the Township and remain the responsibility of the respective developers:

Hartington Subdivision – Stormwater Management - Wet Pond located at the end of Bittersweet Drive in Village of Hartington (Engineer – Forefront Engineering / Developer – 1278804 Ontario Inc.)

The Public Services Department carries out routine inspections of the subdivision sites and reports any issues. No houses were occupied within the new Plan of Subdivision in 2024. The first home occupancies occurred in February of 2025.

4) Alterations to the Stormwater Management System

There were no alterations to the Stormwater Management System in 2025. Additionally, there were no stormwater alterations that posed a significant drinking water threat to the Sydenham Drinking Water System.

5) Spills / Discharge Events

There were no other spills reported to SAC by the Public Services Department related to the service areas served by the Municipal Stormwater Management System(s).

6) Complaint Summary

The Public Services Department did not receive any complaints regarding the municipal stormwater management system during the reporting period of 2025.

7) System Improvements

The Township completed reporting for Core Assets under Ontario Regulation 588//17 in December of 2023. The new asset data compiled for the stormwater network provides improved and enhanced data for decision making in support of capital investments. The AMP also provides a new framework of risk management in decision making.


The Township will be working on the final phase of Asset Management Reporting in the next reporting period of 2026 and will be working with Township Council to update the 2023 AMP and refine technical and community service levels, growth needs and operating/capital funding requirements to meet any established service levels targets.

8) Update on Previous Action Items

The Township did not have any new action items coming out of the 2024 report.

APPENDIX A

Manufactured Stormwater Treatment Units Monitoring Trends (2021 to 2025)

 MANUFACTURED STORMWATER TREATMENT UNITS TRENDING (2021 to 2025)																
Location	Asset ID	2021 Readings			2022 Readings			2023 Readings			2024 Readings		2025 Readings			
		Oil Depth (mm)	Sediment Depth (mm)	Clean Out (Y/N)	Oil Depth (mm)	Sediment Depth (mm)	Clean Out (Y/N)	Oil Depth (mm)	Sediment Depth (mm)	Clean Out (Y/N)	Oil Depth (mm)	Sediment Depth (mm)	Clean Out (Y/N)			
Bellrock Village OGS	90000	0	750	Y	0	50	N	0	203	N	0	203	Y	0	275	Y
Bellrock Village OGS	90007	0	200	N	0	80	N	0	229	N	0	229	Y	0	355	Y
Sydenham Village OGS	91002	0	700	Y	0	300	N	0	889	N	0	889	Y	0	380	Y
Sunbury Village OGS	91610	0	100	N	0	230	N	0	250	N	0	250	Y	0	275	Y
Location	Asset ID	Duration Between Clean-outs (Tracking since January 2021)														
Bellrock Village OGS	90000	TRENDING - 3 times in 5 YR CYCLE - Cleaned DEC 8, 2021 / JAN 31, 2024 / DEC 3, 2025														
Bellrock Village OGS	90007	TRENDING - 3 times in 5 YR CYCLE - Cleaned DEC 8, 2021 / JAN 31, 2024 / DEC 3, 2025														
Sydenham Village OGS	91002	TRENDING - 3 times in 5 YR CYCLE - Cleaned JUN 25, 2021 / JUN 5, 2024 / DEC 5, 2025														
Sunbury Village OGS	91610	TRENDING - 3 times in 5 YR CYCLE - Cleaned DEC 8, 2021 / JAN 31, 2024 / DEC 3, 2025														