



Township of South Frontenac
Municipal Stormwater Management System
ECA Number: 166-S701

2024 Annual Report

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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 2024 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.

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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 2024.

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 complement of environmental and licenced operator resources of a traditional urban municipality. There have been staffing resource challenges ramping up for the new requirements of the new CLI ECA authorized for the 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, 2024, to December 31st, 2024:

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) July 24th to August 2nd, 2024 - 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. No blocked structures were identified during the program however some damaged catch basin grates were identified.

Township staff carried out follow up field inspections of the cleaned structures, each of which were marked in the field with a green paint mark. Three (3) catch basin frames in the Village of Verona were identified as needing repair in the Village of Verona.

- ii) August 9th, 2024 (Verona) – The Township retained the services of a Contractor to excavate and repair two separate catch basins along the west side of Road 38 in the Village of Verona that had settled under traffic loads. Structures were located on Road 38 in front of civics 6681 Road 38 (single CB) and 6781 Road 38 (double CB). Each of the structures was excavated, new grade rings added, new ironworks placed and adjusted to match the paved surface.
- iii) December 17th, 2024 (Hartington) - The Township retained Quinte Sewer Services to carry out cleaning and CCTV inspections on 273m of storm sewers along Road 38, Holleford Road, and Boyce Road varying in size from 450mm to 750mm. Inspection results were aimed at informing capital works priorities and forecasting work within the asset management plan.

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 December 13th, 2023. No oils or sheens present and the sediment depth was measured at 203mm. Sediment removal was recommended.
- Water samples taken on January 17, 2024, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on January 31, 2024, and approximately 0.52 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 December 13th, 2023. No oils or sheens present and the sediment depth was measured at 229mm. Sediment removal was recommended.
- Water samples taken on January 17, 2024, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on January 31, 2024, and approximately 0.40 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 December 13th, 2023. No oils or sheens present and the sediment depth was measured at 889mm. Sediment removal was recommended.
- Water samples taken on January 17, 2024, and confirmed to be free of PHC's and volatile organics.

- Structure cleaned on June 5th, 2024, and approximately 1.57 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 December 13th, 2023. No oils or sheens present and the sediment depth was measured at 250mm. Sediment removal was recommended.
- Water samples taken on January 17, 2024, and confirmed to be free of PHC's and volatile organics.
- Structure cleaned on January 31, 2024, and approximately 0.44 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 inspected on May 19th, 2022, and 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 June, July, August and September of 2024 as part of the vegetation management program.
- Site inspected on June 24th, 2024, after the mowing and the area was dry, there was no standing water, and there had been no rainfall in the preceding days. 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.

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 which was outside of the reporting period.

4) Alterations to the Stormwater Management System

There were no alterations to the Stormwater Management System in 2024. Additionally, there were no stormwater alterations that posed a significant drinking water threat to the Sydenham Drinking Water System.

5) Spills / Discharge Events

April 24th, 2024 - The Township received a notification call from the Spills Action Centre that they have received a report relating to Graham Road. A call was received at the public works office informing staff that a resident was power washing a driveway and the resulting oil/grease was being discharged into an adjacent ditch. The MECP requested that the Township investigate. The event was logged under # 1-65JWWM. The Environmental Compliance Officer #1311 from the Kingston District Office of the MECP attended the site that day and reported that they had spoken with the homeowner. There was no evidence of any oil or sheen from the driveway or in the ditch. The MECP advised the owner of the nature of the report and the potential to impact neighbouring wells. Alternative methods for cleaning were encouraged. The MECP officer advised that the file would be closed off.

September 11th, 2024 – Notice of a spill event was received by emergency services for a tractor trailer on Davidson Road, east of Perth Road in Inverary. The truck was situated in the westbound lane of Davidson Road. Fire Department was on scene at 1pm and called into Spills Action Centre (MECP # 1-APFEJ9). An environmental contractor (GFL) was on scene at 4:10pm that day to do initial clean up of diesel spill. Final testing and clean up of the area was completed on February 27th, 2025. The Environmental Compliance Officer #1311 from the Kingston District Office was involved in the MECP report and the file was closed. This spill occurred approximately 500m south of the stormwater network located at Perth Road and Moreland Dixon Drive and otherwise did not impact the stormwater collection system.

October 22nd, 2024 - The Township received a report of a motor vehicle collision including a farm tractor and a hydro one pole at the southwest corner of the intersection of Bank Street and Road 38 in Verona. Emergency locates for the pole replacement were dispatched locally at 2:52pm. At the time of the event, it was reported by staff that there was no spill in the municipal right of way. On October 25th, MECP followed on a SAC report that was filed by Hydro One for a spill relating to the incident. The spill was reported for a transformer and Hydro One reported that oil released did not contain PCB's. Township staff further

investigated the site and there was no evidence that any spill had reached the nearby catchbasin or the stormwater collection system. These findings were reported back to Environmental Compliance Officer #1311.

There were otherwise no other spills reported to SAC by the Public Services Department related to the Municipal Stormwater Management System.

6) Complaint Summary

The Public Services Department did not receive any complaints regarding the municipal stormwater management system during the reporting period of 2024.

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.

Stormwater systems in Hartington are currently the oldest stormwater assets in the Township. These systems were camera inspected in December of 2024 and will be forecasted for rehabilitation and/or replacement within the 1-5 year horizon as part of the next AMP updates.

8) Update on Previous Action Items

The Township received complaints from the public in 2023 regarding the lack of regular vegetation management at the dry stormwater management pond located at Sandstone Court (Asset ID # 91611). The regularly scheduled maintenance activities carried out throughout 2024 appear to have fully resolved these issues in 2024.

APPENDIX A

Manufactured Stormwater Treatment Units Monitoring Trends (2021 to 2024)

MANUFACTURED STORMWATER TREATMENT UNITS TRENDING (2021 to 2024)																
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)	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			
Bellrock Village OGS	90007	0	200	N	0	80	N	0	229	N	0	229	Y			
Sydenham Village OGS	91002	0	700	Y	0	300	N	0	889	N	0	889	Y			
Sunbury Village OGS	91610	0	100	N	0	230	N	0	250	N	0	250	Y			
Duration Between Clean-outs (Tracking since January 2021)																
Location	Asset ID															
Bellrock Village OGS	90000	TRENDING - 3 YR CYCLE - Cleaned December 8, 2021 and last cleaning January 31, 2024.														
Bellrock Village OGS	90007	TRENDING - GREATER THAN 3 YEAR CYCLE - Cleaned December 8, 2021 and last cleaning January 31, 2024.														
Sydenham Village OGS	91002	TRENDING - 3 YR CYCLE - Cleaned June 25, 2021 and last cleaning June 5, 2024.														
Sunbury Village OGS	91610	TRENDING - GREATER THAN 3 YEAR CYCLE - Cleaned December 8, 2021 and last cleaning January 31, 2024.														