



TOWNSHIP OF EDWARDSBURGH CARDINAL INFORMATION ITEM

Committee: Combined Committee of the Whole - AF - PWESF

Date: August 8, 2022

Department: Environmental Services

Topic: Edwardsburgh/Cardinal Consolidated Linear Environmental Compliance Approvals

Background:

[Municipal Sewage Collection System](#)

The MECP issued the first Consolidated Linear Environmental Compliance Approval (155-W601) for the Cardinal, Industrial Park and Spencerville Sewage Collection Systems on July 27th, 2022. The new ECA streamlines and outlines what alterations can be made to the authorized system, conditions that must be met and the reporting requirements after completion of the work. The streamlined approach will allow projects to commence without obtaining a new ECA for every proposed alteration in the authorized system.

Operational Plan

The new ECA requires an operational plan to be developed and implemented by May 19th, 2023. The operational plan must include procedures for the maintenance and inspection of the collection systems, spills response/reporting, complaint handling and record keeping.

Overflow Reporting

The Henry St. and Spencerville Station 1 Pumping Stations have overflow capabilities in the event of a system failure. The new ECA outlines specific requirements including sampling, overflow/spill reporting and calculating the loading of Biological Oxygen Demand (BOD), Total Suspended Solids, Total Kjeldahl Nitrogen, total phosphorus and *E.Coli* into the environment after an overflow event. The new ECA requires one grab sample to be collected by November 19th, 2022 for the parameters listed above at the Henry St. and Spencerville Station 1 pumping stations.

Source Water Protection

The new ECA requires the owner to complete a “Significant Drinking Water Threat Assessment Report for Proposed Alterations” by May 19th, 2023. The report must include an outline of potential alterations that could pose a significant drinking water threat, an outline of how drinking water threats are identified and the mitigation measures that can be implemented to reduce the overall risk.

Assessment of Wet Weather Flows compared to Dry Weather Flows.

The new ECA requires a report that evaluates available data from wet weather flows versus dry weather flows that caused at least one overflow event from January 1, 2012 to December 31, 2021. If the data review shows that an overflow event occurred during an average flow period the report must outline an action plan that identifies the root cause of the overflow events and corrective actions. The assessment report must be completed by November 19th, 2023.

Overflow Signage

On or before May 19th, 2025 all overflow pipework must have permanent signage installed to notify the public. Signage details must include: type of Collection System overflow, identifying potential hazards and limitations of water use, ECA Number or System Asset ID number and the owner’s contact information.

Annual Reporting

The new ECA requires an annual performance report to be submitted to the MECP on or before March 31st of the following year. The annual report will include a summary of monitoring data, operational problems, maintenance and repair, alterations to the systems, and overflow/spill event summary. The first report will be due March 31st, 2024 for 2023.

Renewal

The ECA renewal due date is June 15th, 2026. The renewal process may include updating system descriptions to reflect new alterations or the addition of new requirements by the MECP.

Budgetary Considerations

Chemical sampling at the Henry St. and Spencerville Pumping # 1 Station
Signage for the Henry St. and Spencerville Pumping Station # 1.

Municipal Stormwater Management System

The MECP issued the first Consolidated Linear Environmental Compliance Approval (155-S701) on July 27th, 2022 for the Cardinal, Johnstown and Spencerville Stormwater Management Systems. The new ECA streamlines and outlines what alterations can be made to the authorized systems, conditions that must be met and the reporting requirements after completion of the work.

Operational Plan

The new ECA requires an operational plan to be developed and implemented for the stormwater system by May 19th, 2023. The operational plan must include inspection and maintenance procedures for all outfalls, treatment systems and pipe works. The operational plan must also include procedures for spills reporting, complaint handling and record keeping.

Monitoring Plan

On or before May 19th, 2024 or within twenty-four months of the date of the publication of the Ministry's monitoring guidance, a monitoring plan must be developed and peer-reviewed by a third-party qualified person. The monitoring plan must identify stormwater treatment systems, key receivers, sampling frequencies, water quality goals and procedures to assess the environmental impact of the Municipal Stormwater Management System. Procedures must also be developed to verify the operational performance of the treatment system and corrective actions to address performance issues. The monitoring plans will be applicable to the Spencerville and Johnstown oil-grit separator and swale systems.

Source Water Protection

The new stormwater ECA requires the owner to complete a "Significant Drinking Water Threat Assessment Report for Proposed Alterations" by May 19th, 2023. The report must include an outline of potential alterations that could pose a significant drinking water threat, an outline of how drinking water threats are identified and the mitigation measures that can be implemented to reduce the overall risk.

Storm Sewer Catchment Assessment Inventory

The new stormwater ECA requires an inventory and/or mapping to be completed by May 19th, 2025 that delineates the level of stormwater treatment for all systems.

Annual Reporting

An annual performance report must be submitted to the MECP on or before April 30th of each year that covers the period from January 1st to December 31st of the previous year. The report must include a summary and interpretation of all monitoring data, operational problems, inspection and maintenance activities, alterations completed, spill reporting, system complaints and corrective actions completed. The first report is due April 30th, 2024 for the 2023 operating year.

Signage

On or before May 19th, 2025 all stormwater management facilities must have permanent signage installed to notify the public. Signage details must include: identifying that the site is a stormwater management facility, identifying potential hazards and limitations of water use, the purpose of the facility, ECA Number or System Asset ID number and the owner's contact information.

Renewal

The ECA renewal due date is June 15th, 2026. The renewal process may include updating system descriptions to reflect new alterations or the addition of new requirements by the MECP.

Budgetary Considerations

The cost to develop and implement a monitoring plan for the Johnstown and Spencerville Stormwater Systems is being determined.

Preventative maintenance activities for the oil-grit separator and swale systems.

CCTV Inspection program for the stormwater system in Cardinal.

Signage for the Johnstown and Spencerville stormwater systems.

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