



# 2024 Annual Performance Report

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## The Blue Mountains Wastewater Collection System

**Prepared by: Wastewater Operations**

**Date: March 24, 2025**

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## Executive Summary

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This report has been prepared as required by Environmental Compliance Approval for a Municipal Sewage Collection System Number 111-W601, Issue 1

Section 4.6 under Schedule E requires the Owner to prepare an annual performance report for the Authorized system that is submitted to the Director on or before March 31<sup>st</sup> of each year and covers the period from January 1<sup>st</sup> to December 31<sup>st</sup> of the preceding calendar. The report shall contain, but not be limited to the following information pertaining to the reporting period:

4.6.3 If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized Systems or system operations.

4.6.4 Includes a summary of any operating problems encountered and corrective actions taken.

4.6.5 Includes a summary of all calibration, maintenance and repairs carried out on any major structure, Equipment, apparatus, mechanism or thing forming part of the Municipal Sewage Collection System.

4.6.6 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.

4.6.7 Includes a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of alterations that pose a Significant Drinking Water Threat.

4.6.8 Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including:

- a) Dates;
- b) Volumes and durations;
- c) If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli;
- d) Disinfection, if any; and
- e) Any adverse impact(s) and any corrective actions, if applicable.

4.6.9 Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:

- a) A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that which the report is submitted.

- b) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines
- c) An assessment of the effectiveness of each action taken
- d) An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives
- e) Public reporting approach including proactive efforts.

All the requirements listed in Section 4.6 have been met and will be further explored throughout the report.

### **Summary of Monitoring Data**

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The Blue Mountains Wastewater Collection System is not required to undertake any sample monitoring.

### **Summary of Operating Problems Encountered and Corrective Actions Taken**

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- Craigeith Main Sewage Pump Station had Pump #1 rebuilt, due to a failed bearing and bearing housing.

### **Summary of Calibration, Maintenance and Repairs Carried Out**

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Calibration of flow monitoring equipment at the Craigeith Main Sewage Lift Station, Delphi Sewage Pumping Station, Peel Sewage Pumping Station and Sunset Sewage Pumping Station was undertaken on May 15, 2024.

- Valves were replaced at Margaret Pumping Station with like for like, check and isolation valves. Flow meter was installed but not commissioning until 2025.
- Duck Bill Valve was replaced at Sunset Sewage Pumping Station with like for like.
- Air Release, Drain and Isolation Valves on Delphi and Lakeshore Forcemain's were replaced with like for like.
- Both Mill Pump Station Pumps were rebuilt, pump maintenance program.
- Wet Wells checked monthly and cleaned when required.
- Wet Well High-Level Alarms tested monthly.
- Generators were serviced by third party Contractor and tested monthly.
- Annual inspection of all safety equipment.
- Replacement of lifting davits.
- Bi-annual inspection of all gas monitors.
- Bi-annual vibration testing performed on all large pumps.
- All building ventilation was serviced.

- (6) Six backflow preventers were tested at Sunset Sewage Pumping Station, Mill Street Sewage Pumping Station, Lakeshore Sewage Pumping Station, Delphi Sewage Pumping Station and Craigleith Main Sewage Pumping Station.
- Multiple small horsepower pumps had annual inspection and service performed.
- 900 manholes were inspected.
- (4) Four manholes repaired for leaks.
- Grey Road 21 manholes were re-benched and leaks were repaired.
- 11,400 meters of collection system was flushed within the Town.

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### **Summary of Complaints Received and Steps Taken to Address**

There was (1) one odour complaint received related to the Craigleith Main Sewage Pumping Station and (2) two complaints related to different parts of the collection system. All complaints were investigated and follow-up discussion with affected residents was undertaken.

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### **Summary of Alterations to the Authorized System including a list of Alterations that pose a Significant Drinking Water Threat**

Not applicable

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### **Summary of all Collection System Overflow(s) and Spill(s) of Sewage**

None

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### **Summary of Efforts Made to Reduce Collection System Overflows, Spills, STP Overflows and/or STP Bypasses**

The Town has undertaken a Wastewater Master Plan to identify the collection system needs for existing and future build-out. The Wastewater Master Plan is scheduled to be complete in 2025.

The Town has reconstructed a major part of Thornbury collection system with Thornbury West 1A. Phases 1B and 2 are in the Engineering stages. Phase 1B construction is scheduled for 2025.

In 2022 Staff presented Staff Report CSOP.22.059 to Town Council which endorsed the development of an Inflow and Infiltration(I&I) Reduction Strategy that focused on five key components to ensure continuous improvement and effective implementation. In addition to this, the Town is undertaking several capital projects designed to reduce and fix leaky infrastructure.

The Town has undertaken studies in the past such as the 2014 Inflow and Infiltration Study, a 2019 Needs Assessment and a new sanitary model that identified locations with high I&I rates and provided remediation strategies to address them.

The Town has established an I&I flow Monitoring Program and has initiated the Town wide Wastewater Collection Master Plan which will provide vital information to help focus our efforts.

Staff have installed (5) five weather stations at key locations throughout the wastewater collection system to improve our relationship between wet weather / rainfall events and wastewater flow.

The Town hired WT Infrastructure to engineer upgrades to the Craigleith Pumping Station, Mill Street Pumping Station, a second Forcemain for Mill St to help with capacity and Bay Street Reconstruction to help with I&I.

### **Summary of Notice of Modifications to Sewage Works Completed**

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N/A