



Wastewater Collection System 2024 Annual Report

Period Covering: January 1 to December 31, 2024

(Prepared in accordance with CLI-ECA 287-W601, Schedule E)

Contents

1	Introduction.....	3
1.1	Annual Reporting Requirements	3
1.2	System Description	4
2	Monitoring Data	4
2.1	Monitoring	4
3	Calibration, Maintenance, and Repairs	4
3.1	Planned Maintenance, Repairs & Minor Modifications.....	4
3.2	Calibration	5
4	Operating Problems	5
4.1	Equipment and Infrastructure Failure	5
4.2	Complaints.....	5
4.3	Overflows and Spill Events.....	6
	4.3.1 <i>Overflows</i>	6
	4.3.2 <i>Spills</i>	6
5	Alterations to the System	6
6	Conclusion	6

1 Introduction

1.1 Annual Reporting Requirements

The annual Wastewater Collection System report summarizes the systems performance over the previous calendar year (2024). The intent of this report is to provide a record of compliance for the conditions outlined within the systems Environmental Compliance Approval No. 287-W601 (the ECA), which was issued on June 19th, 2024. The Ear Falls Wastewater Collection System is owned and operated by the Corporation of the Township of Ear Falls (the Township).

This annual report is submitted to the director and shall be made available to members of the public free of charge. The report has been prepared in accordance with Schedule E, Section 4.6 of the ECA and contains the following information at a minimum:

- 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 system or system operations;
- a summary of any operating problems encountered, and corrective actions taken;
- a summary of all calibration, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the collections system;
- a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- a summary of all alterations to the system within the reporting period that are authorized by the ECA including a list of alterations that pose a significant drinking water threat;
- a summary of all collection system overflows and spills, including dates, volume and duration of discharge, sampling results, any disinfection efforts, adverse effects, and corrective actions; and
- a summary of efforts made to reduce overflows and spills.

1.2 System Description

The Ear Falls Wastewater Collection System is owned and operated by the Township of Ear Falls. The collection system transports sanitary sewage to the Ear Falls Wastewater Treatment Plant, which discharges effluent to the English River. Sewage makes its way to the wastewater plant via gravity and the assistance of two lift pumping stations. The lift pumping stations are equipped with two submersible pumps that operate duty and standby. One of the lift stations is equipped with an overflow which would discharge into an unnamed creek flowing into the English River.

2 Monitoring Data

2.1 Monitoring

In accordance with Schedule E, section 4.6.3 a summary of all required monitoring data and interpretation of that data must be included in this annual report. Monitoring of the Ear Falls Wastewater Sewage Collections System is conducted manually by licenced operators. Lift stations are checked daily, and pump run time hours are recorded to verify proper function. No other monitoring process or equipment is in place in the collection system. Flows are not recorded in the collection system but rather totalized at the wastewater treatment plant. There is no monitoring data to interpret or to draw conclusions from.

3 Calibration, Maintenance, and Repairs

3.1 Planned Maintenance, Repairs & Minor Modifications

In accordance with Schedule E, Section 4.6.5 of the ECA, this report must include a summary of all calibration, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing that forms part of the sewage collections. The Township's maintenance program at the Ear Falls Wastewater Treatment Plant and wastewater collection system ensures that the sewage works, and related equipment are properly operated and maintained. Operators verify lift station functions daily. Significant maintenance activities and minor repairs and modifications that occurred during the reporting period are summarized in Table 1.

Table 1: Summary of maintenance activities, repairs, and minor modifications - 2024	
Date	Task
March 22, 2024	A representative with Viking Electric completed a thermal imaging inspection of the electrical equipment.
July 4, 2024	The Waterfront Lift Station panel was straightened and repainted.
Sept. 30, 2024, to Oct. 11, 2024	The Public Services and Operations Department flushed the collection system.

3.2 Calibration

This report must summarize the calibration of any piece of equipment that comprises the collection works system. The Ear Falls Wastewater Collection System does not utilize any monitoring or measuring equipment that requires calibration.

4 Operating Problems

In accordance with Schedule E, Condition 4.6.4 and 4.6.6 of the ECA, this report summarizes any operating problems encountered and corrective actions taken during the reporting period. For the purposes of this report, operating problems may be indicated by observed equipment and infrastructure failure, customer complaints, or overflow and spill events.

4.1 Equipment and Infrastructure Failure

Operating problems associated with significant equipment, infrastructure, and process failures occurring during the reporting period are summarized below. These events did not result in an overflow or spill as these events are referred to in section 4.3. There were no equipment or infrastructure failures that resulted in operational problems.

4.2 Complaints

Complaints that were received during the reporting period are summarized with any corrective actions taken in response by operators as per Schedule E, Section 4.6.6 of the ECA. No complaints related to the operation and maintenance of the Ear Falls Wastewater Collection System were received during the reporting period.

4.3 Overflows and Spill Events

In accordance with Schedule E, Section 4.6.8 of the ECA, this report must provide a summary of all overflow and spill events. In addition, the ECA requires a summary of efforts to reduce overflows and spills in the system in Section 4.6.9. The collection system does not report overflows or spills frequently, and efforts to reduce abnormal discharge events are not applicable.

4.3.1 Overflows

An overflow means a discharge to the environment from the Wastewater Collection System at a location other than the intended final effluent location at the Wastewater Treatment Plant. Overflows are prohibited except in certain situations, and special reporting, sampling, and recording requirements apply in the event of an overflow. There was no collection system overflow within the reporting period.

4.3.2 Spills

Spills are releases of pollutants into the natural environment from or out of a structure, vehicle, or other container that is abnormal in quality or quantity. Concerning the Ear Falls sewage works, spills include the release of all pollutants other than raw sewage. There were no spills during the reporting period.

5 Alterations to the System

In accordance with Schedule E, Condition 4.6.7 of the ECA, this report must provide a summary of any alterations to the system that occurred throughout the reporting period. Authorized alterations to the system are approved by the conditions in Schedule D of the ECA. There were no alterations to the system during the reporting period.

6 Conclusion

There is limited data to draw conclusions from the Ear Falls Wastewater Collections System. However, despite limited data, there were no major unplanned maintenance, emergency repairs, or failures in the system, and it can be concluded that the system functioned within its compliance limits and design objectives. The Ear Falls Collection System is expected to maintain its favourable performance in the next reporting period.