



## IS-SAN-F007 – Wastewater Annual Report Form

**Purpose:** As per CLI-ECA 064-W601 Schedule E Section 4.6 the Owner shall prepare an annual performance report for the authorized system. The report must be submitted to the Director (MECP) 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 year. The report must also be submitted to the District Manager where a collection system overflow or spill of sewage has occurred in the reporting period.

Wastewater System ECA #	064-W601
Wastewater System Name	Town of Fort Erie Wastewater Collection System
Wastewater System Owner	Corporation of the Town of Fort Erie
Period Reported	January 1 <sup>st</sup> – December 31 <sup>st</sup> , 2024

If applicable, include 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.

Not applicable – Waiting for Ministry to issue guidance document.

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

Category / Cause	Number of Issues	Resolution
Manhole Repairs	8	Repaired / Replaced frames/lids, set to grade
Inspection TEE Repairs	14	Repaired / Replaced IT
Sanitary Main Back-up / Blockage	5	Flushed to free blockage, repaired as necessary. Added location to monthly list if required.
Sanitary Lateral Repairs	2	Deficiency noted and repaired as required.
Preventative Manhole Flushing	131	Preventative maintenance washdown
Preventative Sanitary Main Flushing	507	Preventative maintenance washdown
Preventative Sanitary Lateral Flushing	188	Preventative maintenance washdown

Include 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.

No calibration requirements at this time. Maintenance and repairs are outlined in other areas of this report.

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

Category / Cause	Number of Issues	Resolution
Inspection Tee Cap Repair / Missing	71	Replaced / Repaired as necessary, set to grade.
Sewer Smell Complaints	8	Issue related to private plumbing.
Sewer Lateral Back-ups	88	All lateral blockages cleared; repairs completed as needed.
Sanitary Lateral Video Inspections	38	Inspections completed, deficiencies noted and repaired as needed.
Extraneous Flow Inspections	281	Inspections completed, extraneous flow (I & I) noted and repaired as needed.

Include 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.

No alterations pose a Significant Drinking Water Threat. 2024 alterations summarized below:

Location (Project Name)	Alteration Summary	Status
Idylewylde Street	Replacement of sanitary sewers on Idylewylde Street (Mary to Gilmore)	Construction Complete
King Street	Replacement of sanitary sewers on King Street (Garrison to Albany)	Construction Complete
Lindbergh/Burbank	Replacement of sanitary sewers on Lindburgh Drive (Burbank to Burns) and Burbank Terrace (Bowen to Lindbergh)	Construction Complete
Westwind Shores / Thunder Bay	Installation of sanitary sewers on J. Hamilton Way and within Block 45	Construction Complete
Peace Bridge Village Ph 4	Installation of sanitary sewers on Arthur St, Louisa St, Burwell St.	Construction Complete
Ryan Avenue	Installation of sanitary sewers on a portion of Ryan Ave.	Construction Complete

Note: Construction Project details included in appropriate Ministry Future Alteration Forms.

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

- Dates;
- Volumes and durations;
- If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli;
- Disinfection, if any; and
- Any adverse impacts and any corrective actions, if applicable

No Collection System Overflows in 2024. Sewage bypass pumping in 2024 include the following:

Date	Location	Volume/Duration	Sample Results	Disinfection	Adverse Impacts / Corrective Actions
Jan 26, 2024	Nigh Road – Due to rain and snow melt	4026 m3 / 20 hrs	By-Pass Discharge - TSS 22 mg/L - BOD <12 mg/L - Total Phosphorous 0.33 mg/L - Total Kjeldahl Nitrogen 3.5 mg/L - E coli > 220000 MPN/100m	Chlorine Pucks	N/A
Jan 26, 2024	Dominion Road – Due to rain and snow melt	4255m3 / 18.33 hrs	By-Pass Discharge - TSS 285 mg/L - BOD <12 mg/L - Total Phosphorous 1.48 - Total Kjeldahl Nitrogen 10.9mg/L E coli > 12500000 MPN/100m	Chlorine Pucks	N/A
Jan 26, 2024	Winger Road – Due to rain and snow melt	925.1 m3 / 8.5 hrs	By-Pass Discharge - TSS 95 mg/L - BOD 28 mg/L - Total Phosphorous 0.60 mg/L - Total Kjeldahl Nitrogen 7.6 mg/L E coli > 8000 MPN/100m	Chlorine Pucks	N/A
Jan 26, 2024	River Trail (Douglas Town) – Due to rain and snow melt	412.5 m3 / 3.75 hrs	By-Pass Discharge - TSS 56 mg/L - BOD 33 mg/L - Total Phosphorous 0.97 mg/L - Total Kjeldahl Nitrogen 14.1 mg/L E coli > 1220000 MPN/100m	Chlorine Pucks	N/A
Apr 12, 2024	Nigh Road – Due to rain and snow melt	1039.46 m3 / 9.55 hrs	By-Pass Discharge - TSS 231 mg/L - BOD 37 mg/L - Total Phosphorous 0.68 mg/L - Total Kjeldahl Nitrogen 3.8 mg/L E coli > 450000 MPN/100m	Chlorine Pucks	N/A
Apr 12, 2024	Dominion Road – Due to rain and snow melt	1315.9m3 / 4.75 hrs	By-Pass Discharge - TSS 69 mg/L - BOD 17 mg/L - Total Phosphorous 0.48 mg/L - Total Kjeldahl Nitrogen 3.6 mg/L E coli > 490000 MPN/100m	Chlorine Pucks	N/A

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Include 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 reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for 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.

- a) 2024 Manhole Relining Pilot Project using a Polyurea Synthetic Liner to reduce inflow and infiltration (I&I), thereby increased the life span of the infrastructure with a total budget of \$400,000. (MANR24) Scans completed and 17 liners to be installed in 2025  
Expected ROI: The expected Return on Investment (ROI) is anticipated to be 4 years due to reduced treatment costs resulting from the improved infrastructure.  
Sewer Flow Monitors - the flow monitors are utilized to identify areas of concern related to Inflow and Infiltration (I&I) within the sewer system. Annual cost approx. \$20,000  
2024 Extraneous Flow Reduction Program – Subsidy provided to homeowners to reduce extraneous flow by eliminating weeper connections, illegal sump pump connections, broken laterals and installing back water valves to help prevent basement flooding during sewer surcharge events.  
2024 - \$33,213    2024 Budget - \$50,000  
2025 – Wastewater Capital Works Projects Budget - \$3,104,120
- b) PPCP Not applicable – No combined sewers.
- c) Sewer flow monitoring detects patterns and anomalies that indicate potential issues in the system such as I&I Detection, Capacity Planning, Asset Management and Risk Management.
- d) Procedure F-5-5 – Not applicable (no combined sewers). Procedure F-5-1 – Not applicable.
- e) The municipality communicated proactive efforts to improve the sewer infrastructure to the public during capital budget meetings.

As required under Schedule E Section 4.7 This report will be made available by June 1<sup>st</sup> of the same reporting year, to members of the public without charge by publishing the report on the internet.

This report will also be made available on request and without charge, to members of the public who are served by the authorized system.