

# Township of Woolwich



## Stormwater Management System Annual Performance Report 2025

Prepared in accordance with Ministry of Environment, Conservation and Parks'  
Consolidated Linear Infrastructure Environmental Compliance Approval  
(#114-S701), Schedule E, Section 5



March 16, 2026



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The Corporation of the Township of Woolwich is the owner and operating authority for the Municipal Stormwater Management System ECA Number: 114-S701



## Introduction

The Township of Woolwich (Township) has prepared this report to satisfy the reporting requirements of Ministry of Environment, Conservation and Parks (MECP) Consolidated Linear Infrastructure Environmental Compliance Approvals (CLI-ECAs) Schedule E, Section 5, as outlined below and covers the period January 1, 2025, to December 31, 2025.

In 2022, CLI-ECAs were first introduced to modernize the approach to municipal linear infrastructure permissions concerning sanitary sewage conveyance and stormwater management. They include pre-authorization conditions and design criteria similar in scope to municipal drinking water to reduce the burden on municipalities, developers, and the MECP, while imposing a consistent set of conditions intended to improve environmental protection in sewage and stormwater system design, construction, and operations across Ontario.

The Township of Woolwich's first CLI-ECA (114-S701) for Municipal Stormwater Management System was issued on January 11, 2023. Previous to this, all compliance and maintenance requirements for Stormwater Management Facilities (SWMFs) and associated infrastructure were outlined in Environmental Compliance Approvals (ECAs) issued specifically to each facility.

## List of Abbreviations and Terms

**“Adverse Effect(s)”** has the same meaning as defined in section 1 of the EPA.

**“Alteration(s)”** includes the following, in respect of the Authorized System, but does not include repairs to the system:

- a) An extension of the system,
- b) A replacement or retirement of part of the system, or
- c) A modification of, addition to, or enlargement of the system.

**“Approval”** means this Environmental Compliance Approval including any Schedules attached to it.

**“Authorized System”** means the Sewage Works comprising the Municipal Stormwater Management System authorized under this Approval”.

**“Contaminant”** has the same meaning as defined in section 1 of the EPA.

**“CWA”** means the *Clean Water Act*, R.S.O. 2006, c.22.

**“Director”** means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of EPA (Environmental Compliance Approvals).

**“District Manager”** means the district manager or a designated representative of the Local Ministry Office.

**“Facility”** means the entire operation located on the property where the Sewage Works or Equipment is located.

**“LID”** means “low impact development” a Stormwater management strategy that seeks to mitigate the impacts of increased runoff and Stormwater pollution by managing runoff as close to its source

as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration, and detention of Stormwater.

**"Minister"** means the Minister of the Ministry or such other member of the Executive Council as may be assigned the administration of the EPA and OWRA under the *Executive Council Act*, R.S.O. 1990, c. E.25.

**"Ministry"** means the Ministry of the Minister and includes all employees or other persons acting on its behalf.

**"Monitoring Plan"** means the monitoring plan prepared and maintained by the Owner under condition 4.1 in Schedule E of this Approval.

**"Municipal Drain"** has the same meaning as drainage works as defined in section 1 of the *Drainage Act* R.S.O. 1990, c. D.17.

**"Municipal Sewage Collection System"** means all Sewage Works, located in the geographical area of a municipality, that collect and transmit sanitary Sewage and are owned, or may be owned pursuant to an agreement with a municipality entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

- a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or
- b) A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

**"Municipal Stormwater Management System"** means all Sewage Works, located in the geographical area of a municipality, that collect, transmit, or treat Stormwater and are owned, or may be owned pursuant to an agreement entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

- a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or
- b) A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

**"Natural Environment"** has the same meaning as defined in section 1 of the EPA.

**"Operating Authority"** means, in respect of the Authorized System, the person, entity, or assignee that is given responsibility by the Owner for the operation, management, maintenance, or Alteration of the Authorized System, or a portion of the Authorized System.

**"Owner"** for the purposes of this Approval means the Corporation of the Town of Woolwich and includes its successors and assigns.

**"OWRA"** means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40.

“**O&M Manual**” means the operation and maintenance manual prepared and maintained by the Township of Woolwich

“**Qualified Person (QP)**” means persons who have obtained the relevant education and training and have demonstrated experience and expertise in the areas relating to the work required to be carried out by this Approval.

“**Sewage**” has the same meaning as defined in section 1 of the OWRA.

“**Sewage Works**” has the same meaning as defined in section 1 of the OWRA.

“**Sewer**” has the same meaning as defined in section 1 of O. Reg. 525/98 under the OWRA.

“**Significant Drinking Water Threat**” has the same meaning as defined in section 2 of the CWA.

“**Significant Storm Event(s)**” means a minimum of 25 mm of rain in any 24 hours period.

“**Standard Operating Policy for Sewage Works**” means the standard operating policy developed by the Ministry to assist in the implementation of Source Protection Plan policies related to Sewage Works and providing minimum design and operational standards and considerations to mitigate risks to sources of drinking water, as amended from time to time.

“**Storm Sewer**” means Sewers that collect and transmit, but not exfiltrate or lose by design, Stormwater resulting from precipitation and snowmelt.

“**Stormwater**” means rainwater runoff, water runoff from roofs, snowmelt, and surface runoff.

“**Stormwater Management Facility(ies)**” means a Facility for the treatment, retention, infiltration, or control of Stormwater.

“**Stormwater Management Planning and Design Manual**” means the Ministry document titled “Stormwater Management Planning and Design Manual”, 2003 (as amended from time to time).

## 1. Compliance Reporting Requirement

Schedule E, Section 5.2 of the CLI-ECA requires the Township to prepare performance reports on a calendar year basis and submit them to the Director on or before April 30th of the calendar year following the reported period. The report shall contain, but is not limited to, the following information pertaining to the reporting period:

- Includes a summary of all monitoring data along with an interpretation of the data and an overview of the condition and operational performance of the Municipal Stormwater Management System and any Adverse Effects on the Natural Environment.
- Includes a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years.
- Includes a summary of any operating problems encountered and corrective actions taken.
- Includes a summary of all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the

### Municipal Stormwater Management System.

- Includes a summary of the calibration and maintenance carried out on all monitoring equipment.
- Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- Includes a summary of all Alterations to the Municipal Stormwater Management System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat;
- Includes a summary of all spills or abnormal discharge events;
- Includes a summary of actions taken, including timelines, to improve, or correct performance of any aspect of the Municipal Stormwater Management System; and
- Includes a summary of the status of actions for the previous reporting year.

## 2. Availability of the Stormwater Management Annual Report

In accordance with Schedule E, Section 5.3 of the CLI-ECA, a copy of the Annual Stormwater Management System Performance Report is available to the public, free of charge, from the following outlets:

- Township of Woolwich website (<https://www.woolwich.ca/>); and,
- Public request at the Municipal Office located at 24 Church St, W, Elmira

The public is advised of the report's availability and how to obtain a copy, without charge, on the Township of Woolwich website through annual public reporting to Council and on the stormwater dedicated landing page.

## 3. Stormwater Management Facility Descriptions

SWMFs are designed to protect downstream infrastructure from flooding by temporarily storing runoff and improving water quality by trapping pollutant-laden sediment in runoff from urban drainage areas. The centralized collection of polluted sediments in these facilities helps to prevent their release into rivers, streams, and lakes where they can degrade water quality, harm aquatic life, and adversely impact downstream recreational areas.

As of December 31, 2024, there are twenty-six (26) SWMFs operated by the Township of Woolwich, comprised of dry ponds, wet ponds, and low-impact developments (LIDs). These facilities collect, transmit and treat stormwater before reaching their ultimate receivers in the Grand River and finally the Lake Erin watersheds.

Dry ponds detain water for a short period of time (less than 48 hours) to allow particles and pollutants picked up along the way to settle and reduce stormwater peak flow rates.

Wet ponds hold a permanent pool of water that stores stormwater runoff while releasing it back into the environment at a controlled rate. These types of facilities provide treatment through extended retention time which allows for the settling of suspended solids and contaminants.

LIDs are land planning and engineering design strategies used to prevent and/or mitigate erosion, sedimentation and pollution caused by stormwater runoff. They are features that mimic natural water



cycles by increasing stormwater infiltration into the soil where it is filtered and absorbed by plants and/or specialized filter media.

Stormwater Management Facility Inventory Table

<b>SWMF ID</b>	<b>Facility Name</b>	<b>Stormwater Management Facility Type</b>
370001	Golf Course Road	Wet Pond
370002	Farmer’s Market Road	Wet Pond
370003	Water Quality Sedimentation Pond	Wet Pond
370004	Musselman Crescent	Dry Pond
370005	St Boniface Dr	Dry Pond
370006	Weigel Drain Pond	Wet Pond
370007	South Parkwood Boulevard	Dry Pond
370008	Southend of Burlwood Dr	Wet Pond
370009	Southfield Business Park	Wet Pond
370010	Southfield Business Park	Wet Pond
370011	Reist Industrial Development	Wet Pond
370012	Elmira Area 5 Subdivision	Wet Pond
370013	Valley View	Wet Pond
370014	Hopewell Heights	Wet Pond
370015	Hopewell Heights	Wet Pond
370016	Westfield Acres	Wet Pond
370017	Riverland	Wet Pond
370018	Country Club Estates	Wet Pond
370021	Hopewell Crossing	Wet Pond
370022	Hopewell Crossing	Wet Pond
370023	Heidelberg Estates Subdivision	Wet Pond

### 3.1 Developer Operated Facilities

There are also stormwater management facilities owned and operated by developers that will eventually be assumed by the Township once development conditions have been fulfilled. These are identified in the table below.

Table 2: Developer-Operated Facilities and Facilities with Individual ECAs

<b>SWMF ID</b>	<b>Facility Name</b>	<b>Stormwater Management Facility Type</b>
370019	Sunset Hills Estates	Wet pond
370020	Listowel Road	Wet Pond
370024	Jacobs Trail 2	Wet Pond
370025	2025 Ottawa Street	Wet Pond
370026	2005 Ottawa Street	Wet Pond

## 4. Monitoring and Environmental Trends

Operation and maintenance programs ensure that the infrastructure within the Municipal Stormwater Management System is functioning correctly and effectively by continuing to meet the water quality and quantity design objectives while maintaining and protecting water resources.

The main objectives of stormwater management are:

- Protect life and property from flooding and erosion.
- Maintain water quality for ecological integrity, recreational opportunities, etc.
- Protect and maintain groundwater flow regime(s).
- Protect aquatic and fishery communities and habitats.
- Maintain and protect significant natural features.
- Protect and provide diverse recreational opportunities that coincide with the environment.

The creation of an Operation & Maintenance Manual for all facilities was completed in 2024. The monitoring data portion will be added once it is finalized.

### 4.1 Monitoring Data

Monitoring the effectiveness of the infrastructure in the Municipal Stormwater Management System encourages the protection and restoration of surface water and groundwater resources. Proactive monitoring allows time for issues to be found and rectified at the source and helps develop strategies to improve existing conditions and protect downstream water uses.

Public works completes visual inspections of urbanized stormwater management infrastructure directly related to the Municipal Stormwater Management System (including but not limited to inlet(s), forebay(s), weirs, aft bay(s), outlet(s), overflow(s) and outfall(s), LID features including infiltration trenches and bio-retention cells, all pipes as well as, manholes, catchbasins and culverts immediately adjacent to SWM facilities. The Township of Woolwich staff manages the remaining conveyance and collection infrastructure such as manholes, catch basins, ditches, culverts, as well as agricultural/rural drainage (ditches, municipal drains, swales, and culverts).

CLI-ECA, Schedule E, Section 4.0 requires that the Township develop and implement a fulsome monitoring plan for the Municipal Stormwater Management System by October 28, 2024 or within twenty-four (24) months of the date of the publication of the Ministry's monitoring guidance, whichever is later. As of December 31, 2024, the Ministry guidance document has yet to be published.

### 4.2 Environmental Trends

Monitoring programs, including environmental trends, are in the process of continued development. As such, future reports are envisioned to include historical data trending and expanded commentary on local and changing climate and seasonal weather patterns.

## 5. Operational Issues and Corrective Actions

There were no significant operational issues or corrective actions identified in 2025. Routine operational

issues were identified and addressed through the maintenance and repair completed and summarized under Section 4.4.

## 6. Inspections, Improvements, Maintenance, and Repairs

### 6.1 Inspections

All the assumed Stormwater facilities were inspected in 2025. Deficiencies were noted.

### 6.2 Improvements

New signs were posted in accordance to the conditions of the CLI-ECA. The signage needs to notify the public:

- Identification that the site contains a Stormwater Management Facility;
- Identification of potential hazards and limitations of water use, as applicable;
- Identification of the purpose of the Facility;
- ECA approval number and/or asset ID; and
- Owner's contact information.



### 6.3 Maintenance Scheduled for Next Year

Replace structure 350392 - Dunke St N. Culvert. This includes the associated elements: inlet, outlet, deck, sidewalk, approach guide rails, signs, curbs, hand railings, barrels, and embankments.



Dunke Culvert 2026 replacement project

### 6.4 Maintenance Started or Completed in 2025

April 25, 2025, the Riverside stormwater manhole was repaired and leveled by J. Weber. This information was captured in work order #5977.

June to October 2025 The Township contracted the cleanout of Weigel Stormwater Pond (SMF # 370006). This stormwater facility is in Elmira.

This project included:

- bathymetric survey
- dewatering
- removal of accumulated sediments in the inlet channel, forebay, and the main cell
- flush & CCTV of inlet and outlet pipes
- re-grading of the ditch inlet
- remove and dispose of existing damaged headwall
- corrugated steel pipe to be replaced with 1536mm (span) by 975mm (rise) concrete elliptical pipe with a grate at the inlet
- re-grading of the drainage ditch, storm service connections, granular base and asphalt placement supply and place rip rap along west inlet swale
- landscape restoration including the removal of phragmites and the planting of native grasses and trees

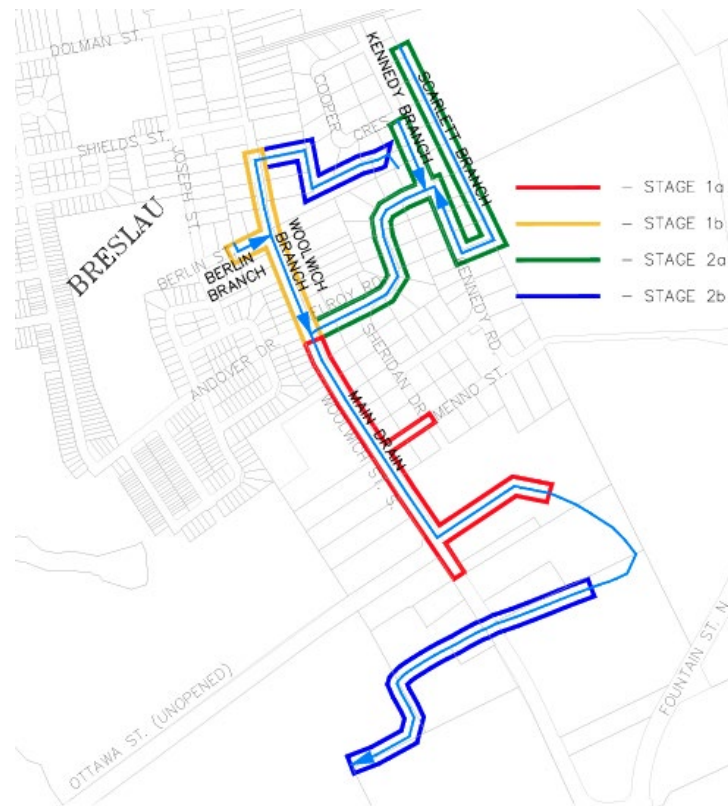


**Legend**  
 Project Location

May 1 to September 2025 the Township hired K. Smart Associates and E. E. Seegmiller Limited to work with the developer Madwest to improve the drainage in the Elroy acres subdivision. This project was in Breslau.

This project included:

- Drain (storm sewer) work beginning at the outlet pipe by the wetland on future Ottawa Street to Woolwich Street South (approx. 245 metres);
- Sanitary sewer and drain works along Woolwich Street South from #255 to #200 Woolwich Street South (approx. 430 metres);
- Drain work from #200 to #127 Woolwich Street South (approx. 460 metres);
- Drain work on Berlin Street from Woolwich Street South to #14 Berlin Street (approx. 70 metres);
- Drain (storm sewer) work on Elroy Road from Woolwich Street South to Kennedy Road (approx. 450 metres);
- Drain work on Kennedy Road from civic #31 to #76 (Approx. 250 metres);
- Drain work on an unopened road allowance off of Kennedy Road (Approx. 70 metres);
- Drain work behind existing properties on Kennedy Road (Approx. 490 metres)
- Drain work on private property beginning at civic #127 Woolwich Street South and ending in the backyards of civic #7 Cooper Crescent and #76 Kennedy Road and
- Open ditch cleanout from the downstream end of the wetland to the drain outlet at the Forwell Property.



**KEY PLAN**

## 7. Monitoring Equipment Calibration Activities

There is no monitoring equipment located in the Municipal Stormwater Management System that requires calibration or maintenance.

## 8. Complaints

There were two complaints in 2025. Both complaints were from April 2-3, 2025, storms and were on the same street, Muscovy. A farmer’s field flooded into the catch basin clogging and blocking it. They are captured in Work Orders 5937 and 5938. The basin was cleared and the water drained.

## 9. Alterations to the Municipal Stormwater Management System

The following alterations to the Municipal Stormwater Management System were processed from Jan 2023 to Dec 2025 period as follows:

Development Name	San sewer CLI-ECA	Storm Sewer CLI-ECA	SWM CLI-ECA	3 <sup>rd</sup> pipe CLI-ECA	Start of unground Maintenance	Underground Assumption	Comments
Southwood 4 Phase 2	Completed and signed off by Jared	Completed and signed off by Jared	N/A	N/A	Maintenance has started.	Assumption has not taken place	SW 1 form not signed by Jared for maintenance to start
Madwest CLI-ECA (Ottawa St. Construction)	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Maintenance has not started	Assumption has not taken place	
Madwest CLI-ECA (subdivision)	Completed and signed off by Jared	Completed and signed off by Jared	N/A	Completed and signed off by Jared	Maintenance has not started	Assumption has not taken place	
Madwest CLI-ECA for the san sewer on Woolwich St.	Completed and signed off by Jared	N/A	N/A	N/A	Maintenance has not started.	Assumption has not taken place	
Riverland Phase 3 scoped subdivision infrastructure	Completed and signed off by Jared	Completed and signed off by Jared	N/A	N/A	Maintenance has not started	Assumption has not taken place	Riverland was split into two components scoped (outlet works/Andover Dr.) and entire sub.
Riverland Phase 3 subdivision	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Maintenance has not started	Assumption has not taken place	
18 Ernst St.	N/A	Completed and signed off by Jared	N/A	N/A	Maintenance has not started	Assumption has not taken place	
Hawkridge Dev (36-68 Union St)	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Completed and signed off by Jared	Maintenance has not started	Assumption has not taken place	

## 10. Spills and Abnormal Discharge Events

Any spills or discharge events that occur are recorded and addressed in accordance with Part X of the Environmental Protection Act, Ontario Regulation 675 (as amended) and reported with notification (by telephone, and in writing) to the MECP Spills Action Centre, the Medical Officer of Health, and the

MECP District Manager, as applicable.

One spill/abnormal discharge occurred September 3, 2025, on Arthur St. S. This was a spill of food waste grease. The Region's Environmental Enforcement department was notified. The Region of Waterloo swept the road. The spill did not enter the waterways and was cleaned without any environmental impact.

### 11. Status of Actions from Previous Reporting Year

No action items from the previous year needed additional work. The work on the Breslau Drain continued from 2024 and was completed in the fall of 2025.

### 12. Financial Planning

The operation and maintenance of the Municipal Stormwater Management System is supported through capital and operating budget allocations approved by the Township's Council and funded by the municipal tax base (property taxes).

### 13. Conclusion

The Township of Woolwich believes that this report satisfies the reporting requirements of Schedule E, Section 5.2 of the CLI-ECA (114-S701).

Any questions regarding this report should be directed to Infrastructure Services.



2025 Weigel Drain Pond Cleanout