

City of Port Colborne 2025 Pollution Prevention Control Plan (PPCP)

Public Information Centre (PIC)

December 3, 2025

3pm – 7pm

Vale Health & Wellness Centre

550 Elizabeth Street, Port Colborne, ON



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Land Acknowledgement

The Niagara Region is situated on treaty land. This land is steeped in the rich history of the First Nations such as the Hatiwendaronk, the Haudenosaunee, and the Anishinaabe, including the Mississaugas of the Credit First Nation.

There are many First Nations, Métis, and Inuit people from across Turtle Island that live and work in Niagara today.

The City of Port Colborne stands with all Indigenous people, past and present, in promoting the wise stewardship of the lands on which we live.



Why are we here? Open House Objectives

Welcome!

Here are the objectives for today's Open House:



Provide the Public and Primary Interest-Holders with an opportunity to learn about the study.



Present the preliminary preferred servicing strategy and capital program of projects and studies.



Answer any questions you may have about the study process or potential outcomes.

Get Engaged!

- ✓ Have a look at the project information on display and chat with the Project Team.
- ✓ Provide your feedback regarding the information presented.



Additional project information can be found on the project website, which can be accessed by scanning the QR Code with your smartphone.



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What is the 2025 Pollution Prevention Control Plan about? **Study Introduction and Aims**

- ❖ The City of Port Colborne is updating its Pollution Prevention Control Plan (PPCP).
- ❖ The project incorporates ongoing planning, management and operations of the City's wastewater infrastructure.
- ❖ The intent of this study is to:
 - Evaluate the performance of the City's existing sewer infrastructure.
 - Establish a short and long-term servicing strategy to manage the wastewater system in anticipation of future growth in the City.

Key Strategic Goals:

- ✓ Fulfill the Class Environmental Assessment process.
- ✓ Ensure the best use of the existing wastewater infrastructure.
- ✓ Plan for wastewater infrastructure required to service future growth.



System Background

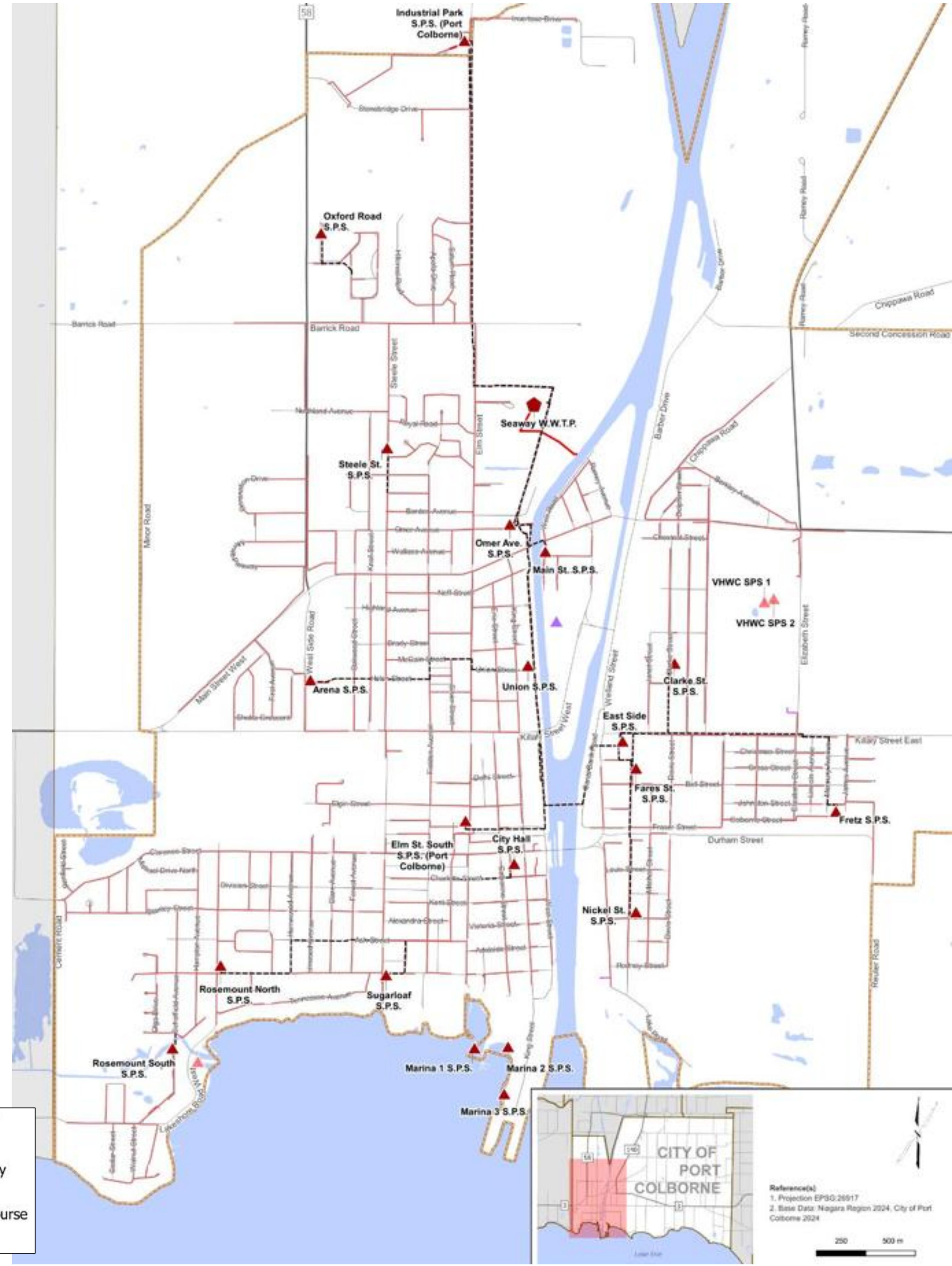
Existing Wastewater System Overview

Port Colborne's wastewater system is managed in partnership by the City and the Region. In this two-tier system:

- ❖ The **City of Port Colborne** is responsible for the collection of wastewater flows from customers through the City owned and operated local sewer system.
- ❖ The **Region of Niagara** is responsible for the treatment of wastewater flows and conveyance of flow through Region-owned trunk sewers and sewage pumping stations.

There are areas within the system with high rates of wet weather flow (inflow & infiltration) which takes up valuable capacity in the sewer pipes and treatment plant. The City also has several combined sewer overflow (CSO) facilities which can activate during high wet weather flow conditions.

Existing Infrastructure		Private Gravity Main	
◆	Wastewater Treatment Plant (WWTP)	—	Private Gravity Main
▲	Regional SPS	—	General Feature
▲	Local SPS	—	Urban Area Boundary
▲	Private SPS	—	Municipal Boundary
—	Force Main	—	Waterbody, Watercourse



Where are wet weather flows coming from? **Inflow and Infiltration**

Inflow and Infiltration (I&I) is stormwater that enters the sanitary sewer system through direct **Inflow** connections (e.g., roof drains) and indirect **Infiltration** sources (e.g., cracks in pipes).

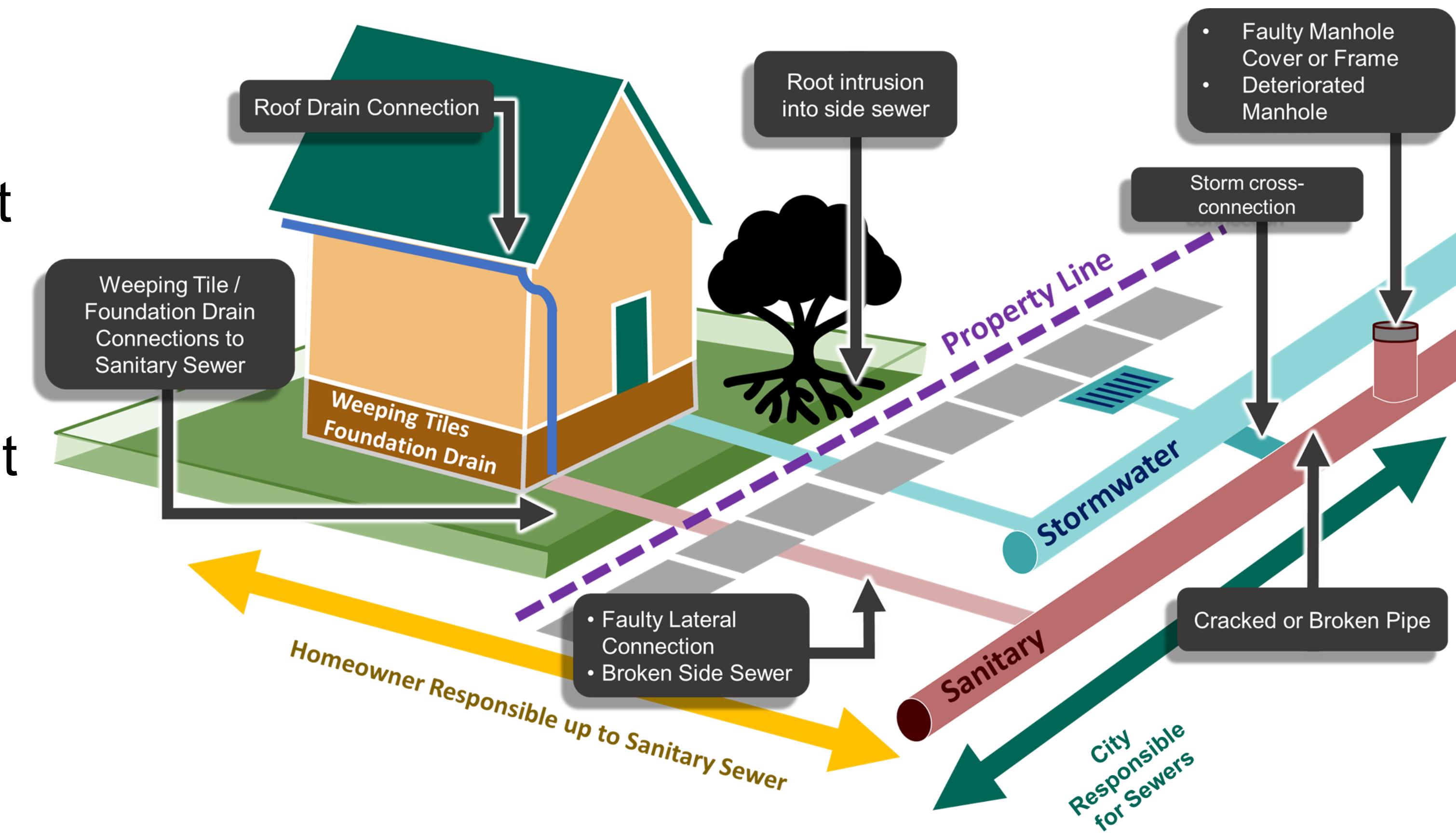
I&I is an accepted component of municipal wastewater sewer systems. Municipalities make an allowance for a reasonable amount of I&I in the design of wastewater infrastructure.

However, if too much I&I enters the system it increases the risk of basement flooding and overflows to the environment and reduces system capacity.

The goal of I&I reduction is to:

- Reduce basement flood and overflow risk.
- Minimize cost of pumping and treating I&I.
- Maximize the existing capacity of wastewater infrastructure; capture capacity for growth.

Sources of Wet Weather Flow



Separated System



Why is this study being conducted? Planning for Growth

The City of Port Colborne is growing! The focus of this project is on identifying the wastewater infrastructure needed to support the City's growth to 2051 and beyond (buildout growth).

The City's 2051 planning projections estimate approximately an additional 12,000 residents and an additional 10,000 jobs (plus significant process wastewater flows from industrial development).

2051 Growth Scenario:



+ 12K Residents
+ 10K Jobs

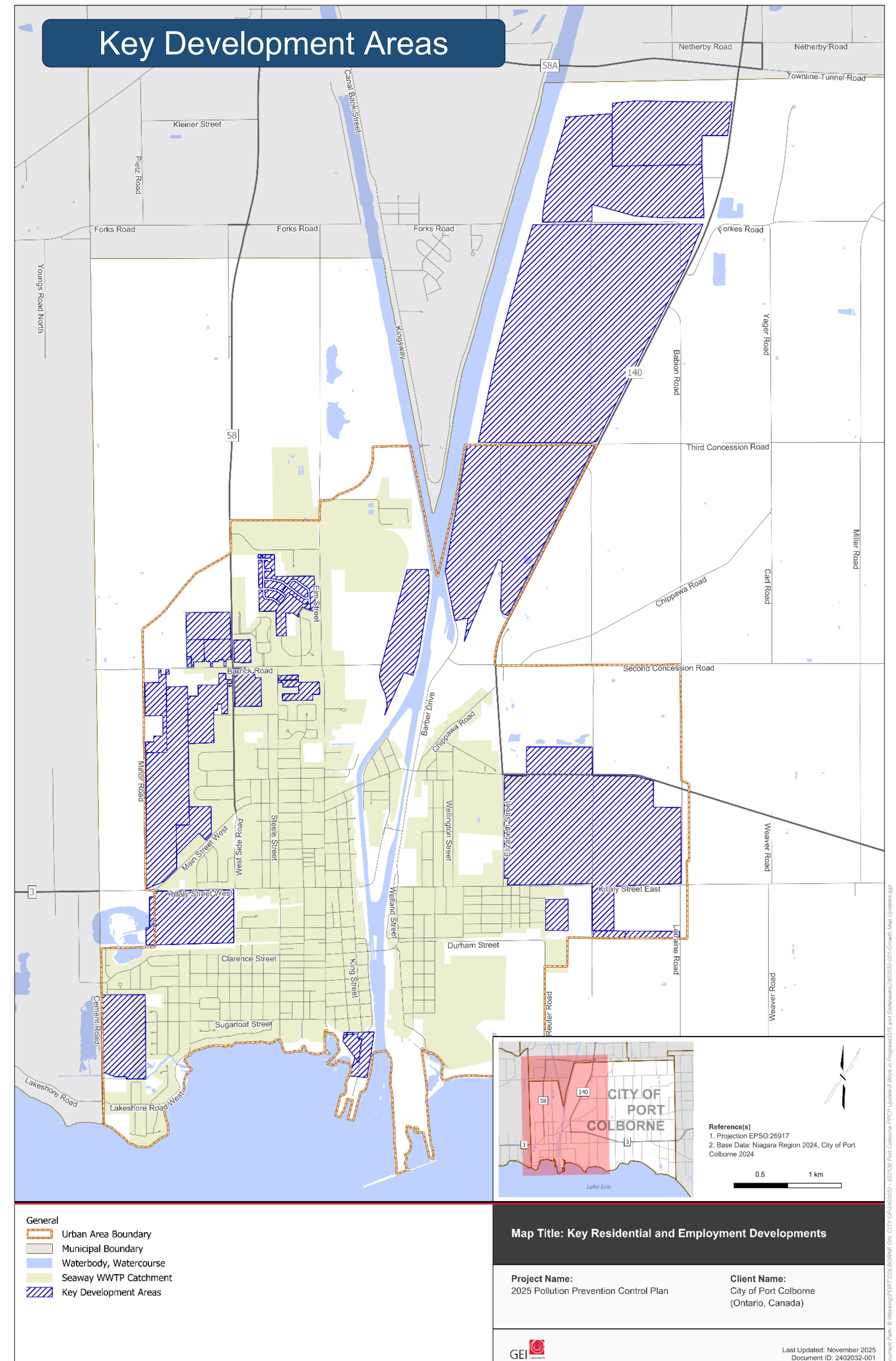
Buildout Growth Scenario:



+ 19K Residents
+ 10K Jobs



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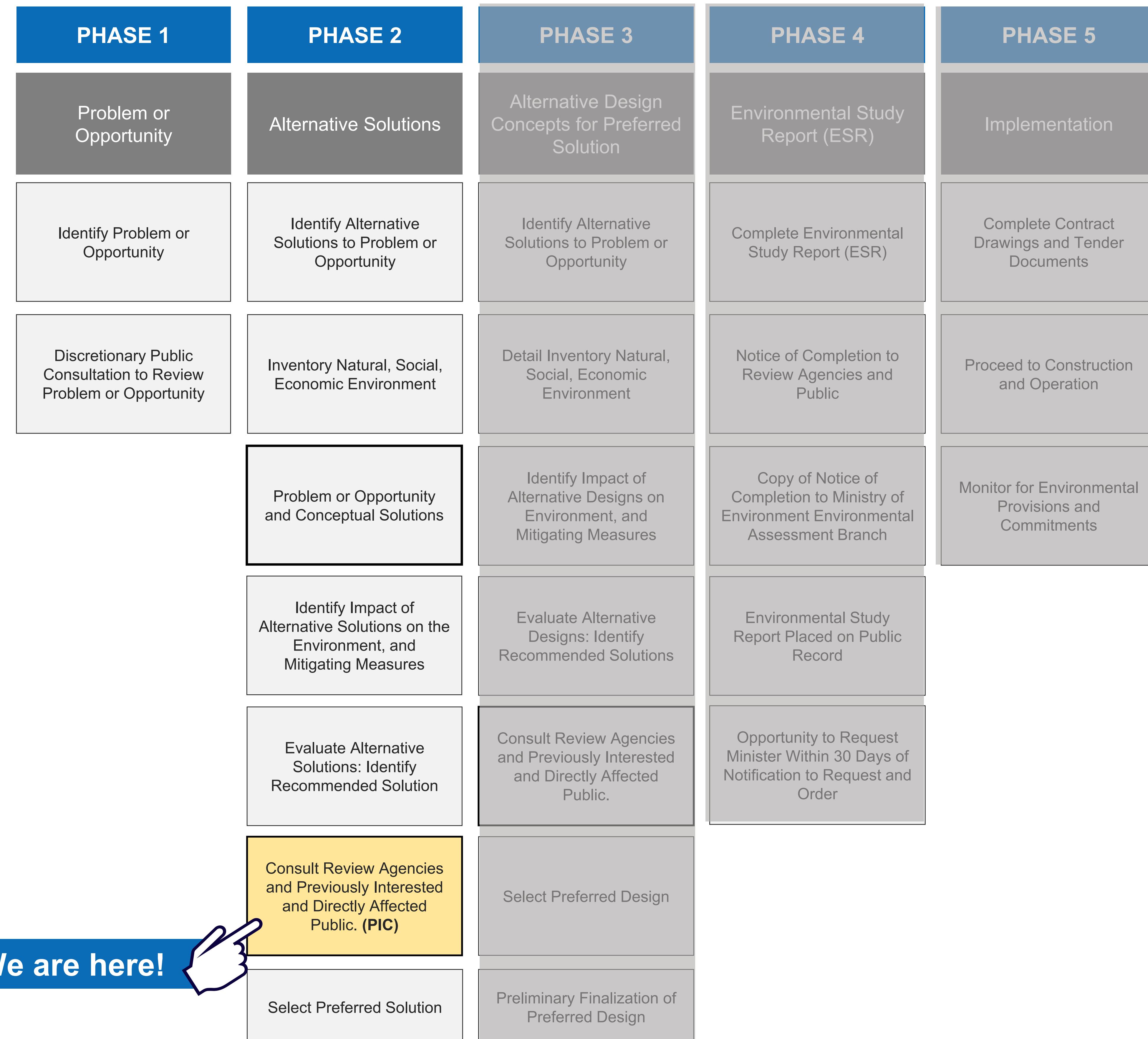
How is the study being conducted?

Municipal Class Environmental Assessment Process

The **2025 Pollution Prevention Control Plan** is being completed following the Municipal Class Environmental Assessment (MCEA) process.

The study will satisfy **Phases 1 and 2** of the MCEA process.

This study will hold one Public Information Centre (PIC).



We are here!



How are flows treated? **MECP Procedure F-5-5**

- ❖ Combined Sewer Overflows (CSOs) and Sanitary Sewer Overflows (SSOs) release untreated sewage to the environment when the system is overwhelmed – typically during an extreme rainfall event.
- ❖ The **Procedure F-5-5** defines the rules for treating sewage and reducing CSOs and SSOs to achieve provincial water quality objectives.

All of the City's overflow sites are compliant with Procedure F-5-5.

- ❖ While the sewer system is compliant with Procedure F-5-5, the City is continuing to **proactively invest** in infrastructure improvements to resolve other existing capacity and flooding issues while also planning new capacity for future growth.



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Learn more at:
<https://www.ontario.ca/page/f-5-5-determination-treatment-requirements-municipal-and-private-combined>

What are the servicing strategies? Capital Program Overview

The 2025 Pollution Prevention Control Plan's preliminary capital program evaluated alternatives to identify wastewater **system needs** and **triggers for upgrades** to service growth.

The preliminary preferred capital program aims to:

- ❖ Make improvements to the existing networks.
 - Optimize the replacement of older sewers.
 - Deliver a consistent and sustainable level of service to existing customers.
- ❖ Support areas of proposed growth.
 - Identification of new infrastructure or upgrades to the existing system to support growth.
- ❖ Increase overall resiliency and performance.
 - Strengthen systems through key upgrades and key initiatives.
 - Undertake key operations and maintenance activities to improve system performance.
 - Identify potential funding sources for the capital program (Development Charges, Rate Reserves, grants, etc.).

Program Components	Cost Estimate
Wastewater Capital Projects	\$34 million
Inflow and Infiltration Prioritization Capital Projects	\$1.2 million ¹

\$ 35.2 Million Total



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¹Inflow & infiltration prioritization costs represent the remaining investigation and remediation work within select high-priority areas as of 2025 (significant work has already been completed to-date).

What are the servicing strategies?

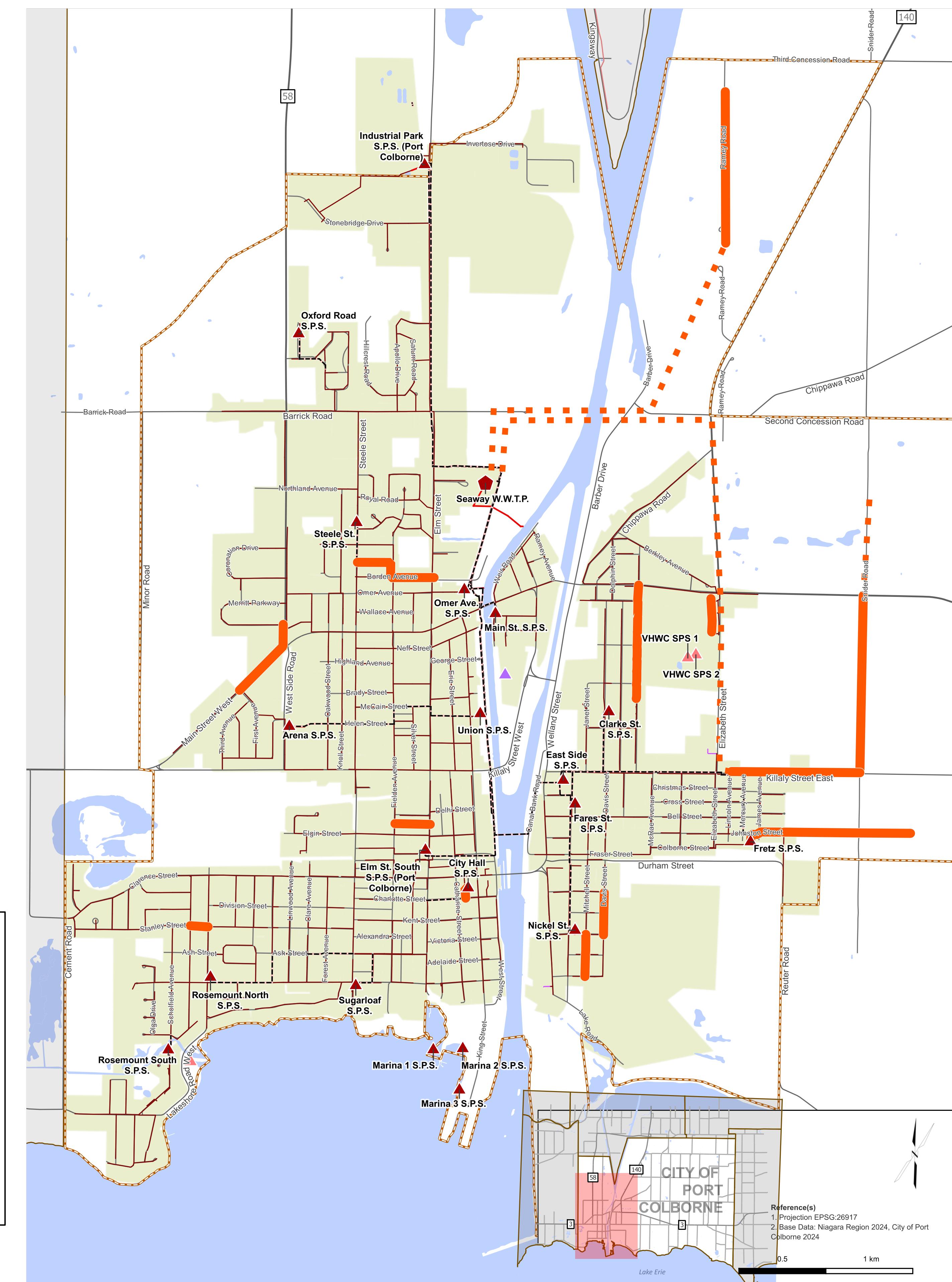
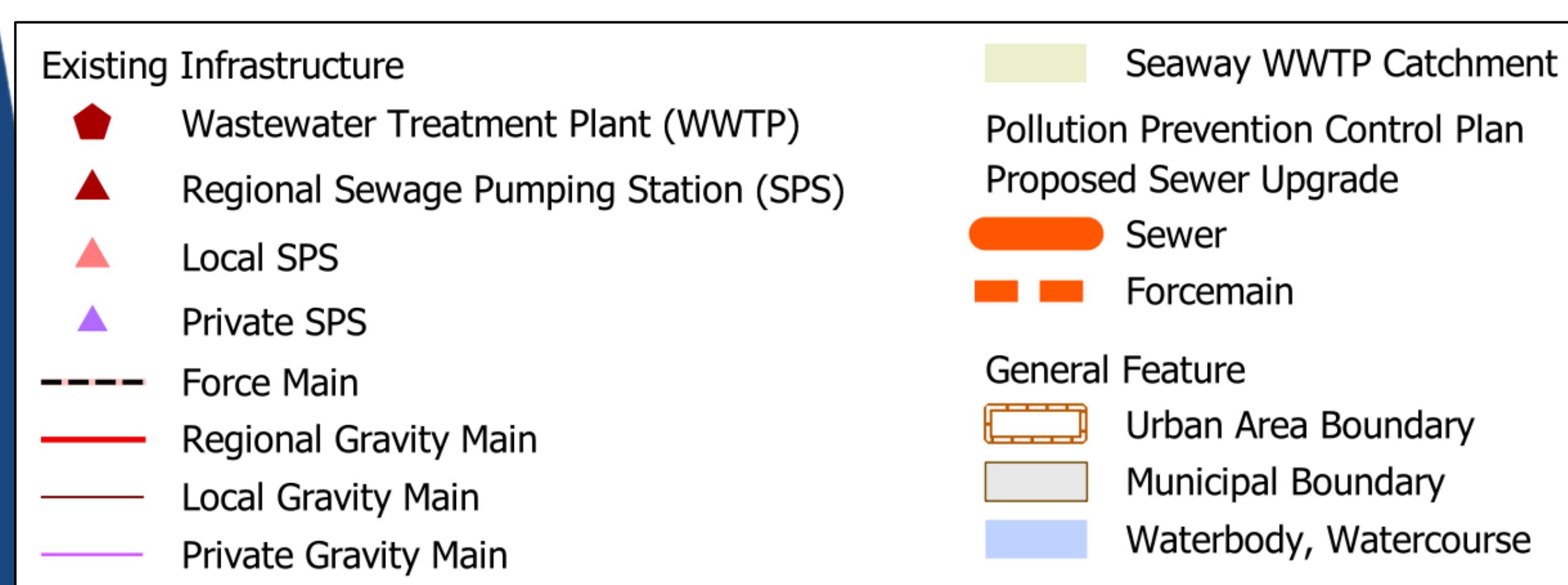
Preliminary Preferred Capital Program – Wastewater

The preliminary preferred wastewater capital program enhances the existing wastewater system through:

- ❖ Strategic upsizing of wastewater sewers to increase existing system capacity.
- ❖ Upsizing existing wastewater sewers to support intensification growth.
- ❖ Construction of new sewers to support greenfield growth.

Recommended programs and studies include:

- ❖ Flow monitoring program to monitor sewer capacity and overflow volumes.
- ❖ Inflow and Infiltration reduction program.
- ❖ Updated-F-5-5 analysis (through next PPCP update).



What are the servicing strategies?

Preliminary Preferred Capital Program – Inflow and Infiltration

Areas of high Inflow and Infiltration (I&I) have reduced wastewater system capacity and increased risk of basement flooding.

The I&I reduction program is prioritized with aims to:

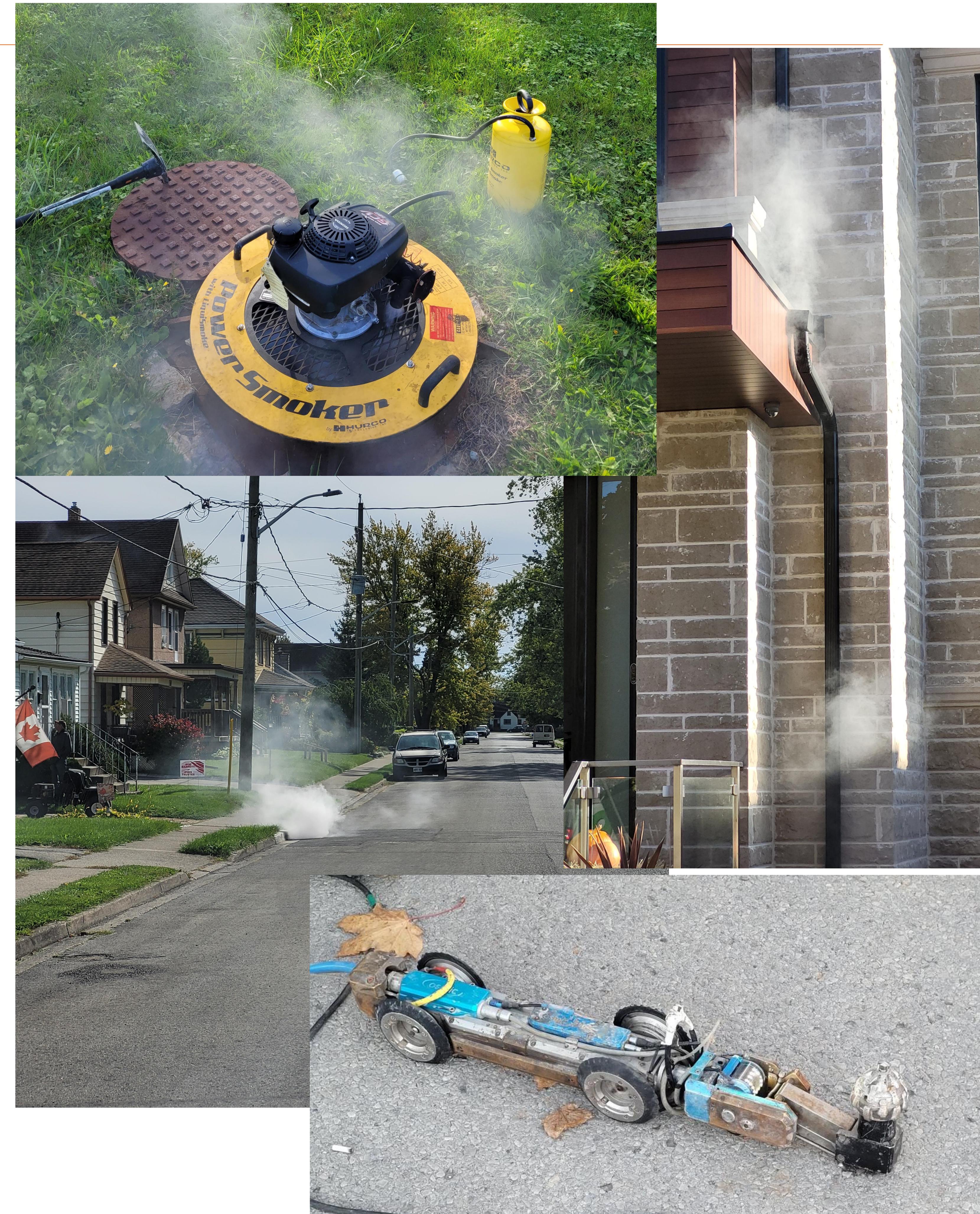
- ❖ Remove undesirable wet weather flows.
- ❖ Maximize existing system capacity.
- ❖ Provide climate change resiliency.
- ❖ Capture capacity for growth.

The I&I reduction program may consist of the following components:

- ❖ Flow monitoring (pre/post completion of works).
- ❖ CCTV sewer inspection and rehabilitation.
- ❖ Smoke and dye testing.
- ❖ Curbside drainage surveys.
- ❖ Lateral (sanitary service connection) inspection and repair.
- ❖ Downspout and weeping tile disconnections.
- ❖ New subdivision flow monitoring and acceptance criteria.



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Thank You! Please Stay Engaged!

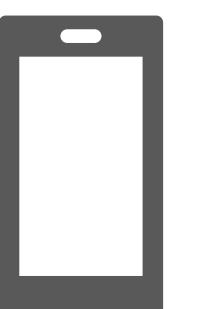
Study Timeline

December 2025: Public Information Centre.

January 2026: Completion of PPCP Update Study & 30-day Public Review Period.

February 2026: Present Implementation Plan to City Council.

Engagement with Indigenous Communities, review and approval agencies, the public as well as other primary interest-holders will continue throughout the 30-day public review period upon notice of study completion.



Additional project information can be found on the project website, which can be accessed by scanning the QR Code with your smartphone.

How to Stay Involved

- ✓ Fill out the questionnaire and comment sheet.
- ✓ Sign-up for project information updates.



Do you have any questions, comments, or want to stay up to date? Please contact us anytime.

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Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments received will become part of the public record and may be included in the study documentation prepared for public review. If you need any accommodations to provide comments and/or feedback for this study, please contact the Project Manager.

