City of Port Colborne Water and Stormwater Master Servicing Plan

Volume 5 – Indigenous, Public, and Agency Consultation

November 2026



Agile INFRASTRUCTURE

Submission Details and Version Control

City of Port Colborne
Water and Stormwater Master Servicing Plan

Volume 5 – Indigenous, Public, and Agency Consultation

November 2026

Agile Project No. P01.002.01

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1 Introduction

1.1 Background

The City of Port Colborne (City) is located in southern Ontario along the north shore of Lake Erie and is bisected by the Welland Canal. It is part of the Niagara Region (Region) and is adjacent to the Town of Wainfleet, Town of Fort Erie, and City of Welland.

Water servicing within the City operates under a two-tier system. The Region is responsible for water treatment, storage facilities, pumping stations, and major trunk infrastructure, while the City owns and operates the local water distribution system, including trunk and distribution watermains. The system is supplied by the Port Colborne Water Treatment Plant (WTP), which is a conventional surface water treatment facility that draws raw water from Lake Erie via the Welland Canal. Treated water is distributed through a network of watermains and storage facilities within a single pressure zone.

The City owns, maintains and operates the majority of the stormwater collection and management infrastructure, including catch basins, storm sewers, ditches, culverts, stormwater management facilities, and other related structures. Stormwater runoff is conveyed through a combination of minor and major systems and ultimately discharges to local receiving watercourses and Lake Erie.

Reliable and accessible public infrastructure is critical to supporting existing and future communities. Coordinated infrastructure planning, land use planning, and investment are required to deliver efficient, safe, and cost-effective water and stormwater services.

The Master Servicing Plan (MSP) provides a comprehensive review of existing systems and identifies growth-related servicing strategies, with consideration for long-term sustainability and optimization of existing infrastructure.

1.2 Master Servicing Plan

The City is undertaking a Water and Stormwater Master Servicing Plan to develop a comprehensive strategy and vision for the City's short- and long-term water and stormwater infrastructure needs. The MSP reviews existing system conditions and performance, considers the impacts of growth, and identifies strategies to meet current and future servicing requirements.

The Study establishes a long-term management strategy to guide water and stormwater infrastructure planning through 2051 and beyond and includes an actionable Capital Program and Implementation Plan to support the strategy. The MSP will provide the framework for system capacity allocations, infrastructure upgrades, and financial planning, supporting the City's continued growth and sustainable management of its water and stormwater systems.

1.3 Master Servicing Plan Objectives

The MSP is designed to deliver a strategic, integrated framework for the management, enhancement, and expansion of the City's water distribution and stormwater management systems through 2051 and beyond. This MSP addresses the needs of both systems to ensure reliable service delivery, environmental protection, and support for the City's growth aspirations. The key objectives of the MSP are as follows:

- **Provide Safe and Reliable Services**: Ensure a consistent supply of potable water that complies with the Safe Drinking Water Act, 2002, and effective stormwater management to safeguard public health, property, and infrastructure under current and future conditions.
- **Accommodate Growth**: Evaluate and plan infrastructure capacity to support projected population increases, seasonal tourism demands, and potential industrial development, particularly along the Welland Canal, in accordance with the City's Official Plan.
- **Enhance System Resilience**: Develop adaptive strategies to mitigate the impacts of climate change, including increased storm intensity and fluctuations in Lake Erie water levels, ensuring the longevity and reliability of water and stormwater systems.
- **Meet Regulatory Standards**: Adhere to provincial legislation, Ministry of the Environment, Conservation and Parks (MECP) guidelines, Niagara Region policies, and Niagara Peninsula Conservation Authority (NPCA) requirements, while fulfilling the Municipal Class Environmental Assessment (EA) process.
- **Optimize Infrastructure Performance**: Identify opportunities to reduce non-revenue water losses, improve stormwater conveyance efficiency, and leverage existing assets to deliver cost-effective, sustainable solutions.
- **Protect Environmental Quality**: Minimize impacts on Lake Erie and local watercourses by enhancing stormwater quality, controlling runoff volumes, and incorporating low-impact development (LID) practices where feasible.
- **Foster Collaboration**: Engage residents, businesses, Niagara Region, NPCA, and other stakeholders to align the MSP with community needs, regional priorities, and environmental goals.

These objectives underpin a holistic servicing strategy that ensures Port Colborne's water and stormwater systems are robust, sustainable, and capable of supporting the community's long-term prosperity.

1.4 Master Servicing Plan Documentation Layout

The MSP Report, including all supporting volumes, is the documentation placed on public record for the prescribed minimum 30-day review period. The documentation, in its entirety, describes all required phases of the planning process and incorporates the procedure considered essential for compliance with the Environmental Assessment Act.

The MSP Report is organized into 5 volumes as described below.

1.4.1 Volume 1 - Executive Summary

Volume 1 provides a brief overview of the MSP. It summarizes the information contained in Volume 2, 3, 4 and 5, including the problem statement, purpose of the study, significant planning, environmental and technical considerations, and description of the preferred water and stormwater servicing strategies including depiction of the projects and documentation of the capital programs.

1.4.2 Volume 2 – Plan & Policy

Volume 2 details the master planning process including the Master Plan Class EA process, related studies, legislative and policy planning context, water and stormwater servicing performance objectives, population, and employment growth forecasts, existing environmental and servicing conditions, and future considerations.

1.4.3 Volume 3 – Water Master Plan

Volume 3 consists of the principal document summarizing the study objectives, approach, methodologies, technical analyses, evaluation, and selection of the preferred water servicing strategy. This volume contains baseline water system data and performance information. This volume also documents the water servicing strategy development with detailed information on the projects and capital program associated with the preferred water servicing strategy and implementation plan.

1.4.4 Volume 4 – Stormwater Master Plan

Volume 4 consists of the principal document summarizing the study objectives, approach, methodologies, technical analyses, evaluation, and selection of the preferred stormwater servicing strategy. This volume contains baseline stormwater system data and performance information. This volume also documents the stormwater servicing strategy development with detailed information on the projects and capital program associated with the preferred stormwater servicing strategy and implementation plan.

1.4.5 Volume 5 – Indigenous, Public, and Agency Consultation

Volume 5 contains all relevant documentation of the public consultation process including notifications, comments and responses, and distribution information. Presentation material from the Public Information Centre (PIC) held during the process is included. Other presentation material and discussion information from workshops held with relevant agencies, approval bodies and other stakeholders are also included.

2 Agency and Public Consultation

This Volume, the Public and Agency Consultation, compiles the materials and documentation associated with engagement activities undertaken with the public, stakeholders, and regulatory agencies. It also provides supporting information to demonstrate that consultation requirements under the MEA Class Environmental Assessment process have been fulfilled.

The following sections outline the key elements of the Public Consultation and Communication Strategy, with additional details provided in the appendices.

2.1 Communication and Consultation Summary

Consultation is a key component of the Municipal Class Environmental Assessment (Class EA) process and was integral to the completion of this Master Servicing Plan. The consultation program was designed to facilitate effective, two-way communication with the public, Indigenous communities, regulatory agencies, stakeholders, and municipal staff throughout the study. This approach ensured that interested and affected parties were informed of the study, while also providing opportunities to share input and feedback at key stages.

The communication and engagement approach was guided by the objective of providing clear, consistent, and timely information, while encouraging meaningful participation in the planning process. Engagement activities were undertaken to support collaboration with approval agencies, and obtain relevant technical input, as well as to engage Indigenous rights holders.

Key objectives of the consultation program included:

- Providing clear and accessible information at key milestones in the study;
- Meeting the consultation requirements of the MEA Municipal Class EA process;
- Encouraging participation from interested and affected stakeholders;
- Engaging regulatory agencies early to support approvals and inform the study;
- Documenting feedback received and demonstrating how it was considered in the decision-making process.

The consultation approach was guided by the following principles:

- Respect for all participants involved in the process;
- Clear, consistent, and understandable communication tailored to the audience;
- Transparency in communicating the EA process and study outcomes;
- Flexibility to adapt engagement methods as the study progressed; and,
- Consideration of all feedback received, with responses incorporated where appropriate.

A range of consultation methods were implemented to provide opportunities for engagement, including stakeholder meetings, agency coordination, and public consultation activities. The consultation program was developed at the outset of the study and refined as needed, with the Communications Plan included in **Appendix A**.

Complete documentation of the consultation and communication process is summarized in the following sections, with supporting materials provided in the appendices.

2.2 Stakeholder List

A list of stakeholders, review agencies, and other interested parties was established early in the study to support participation. The contact list was updated periodically as additional individuals became aware of the study or provided input. Stakeholders were able to request inclusion on the contact list at any time to receive project updates, public notices, and information regarding upcoming engagement opportunities. The study contact list is included in **Appendix B**.

2.3 Notice of Commencement

The Notice of Commencement was issued on January 25, 2025, and is provided in **Appendix C**. The notice was circulated through the following methods:

- Distributed by mail and email to stakeholders included on the stakeholder list; and.
- Posted on the City's website.

2.4 Public Information Centre

The study's Public Information Centre (PIC) was organized to gather input on the Class EA process, system constraints and opportunities, alternative servicing concepts, and technically feasible solutions. One PIC was conducted as part of the study.

The notification for the PIC was issued on November 13, 2025. The notice was made available through the following methods:

- Distributed by mail and email to stakeholders on the project contact list; and,
- Posted on the City's website.

The PIC took place during Phase 2 of the Class EA process to present the system opportunities and constraints, introduce preliminary preferred servicing strategies, and obtain public feedback. Details on the date and location of the PIC are provided in **Table 2-1**.

Table 2-1: Public Information Centre Details

Date	Location
December 3, 2025 3:00 pm to 7:00 pm	Vale Health & Wellness Centre 550 Elizabeth Street, Port Colborne

Information on attendance, comments received, and the display panels presented during the PIC is provided in **Appendix D**.

2.5 Indigenous Communities

As rights holders and stewards of the land, Indigenous Communities offer important insights and traditional knowledge about our lands and waters. It was important to engage these communities throughout the study to receive their input and address any concerns.

For this project, the following Indigenous Communities were identified as having an interest in the study:

- Six Nations of the Grand River (SNGR)
- Mississaugas of the Credit First Nations (MCFN)
- Haudenosaunee Confederacy Chief Council and/or Haudenosaunee Development Institute (HDI)
- Métis Nation of Ontario, and the Niagara Region Métis Council

The City led engagement with Indigenous Communities, with Agile preparing supporting information as required. All correspondence and notifications to the communities were issued by the City.

Although no workshops were held for this study, Indigenous Communities were provided opportunities to receive study updates, including notification of Study Commencement, Public Information Centres, and Study Completion. Any input received from these communities throughout the project was documented and considered in the study process. Records of engagement are provided in **Appendix E**.

2.6 Council Involvement

Council members were provided with study updates throughout the project, details and any records of engagement are provided in **Appendix E**.

2.7 Public and Agency Consultation

Residents, Provincial and Federal agencies, and other interested parties were provided with study updates throughout the project. Records of consultation and supporting materials are provided in **Appendix E**.

2.8 Notice of Completion

The Notice of Study Completion was issued in Fall 2026. The notice was public by the following means:

- Mailed and emailed to stakeholders included on the project contact list; and,
- Posted on the City's website.

A copy of the Notice of Study Completion is provided in **Appendix F**.

2.9 30-Day Public Review Consultation

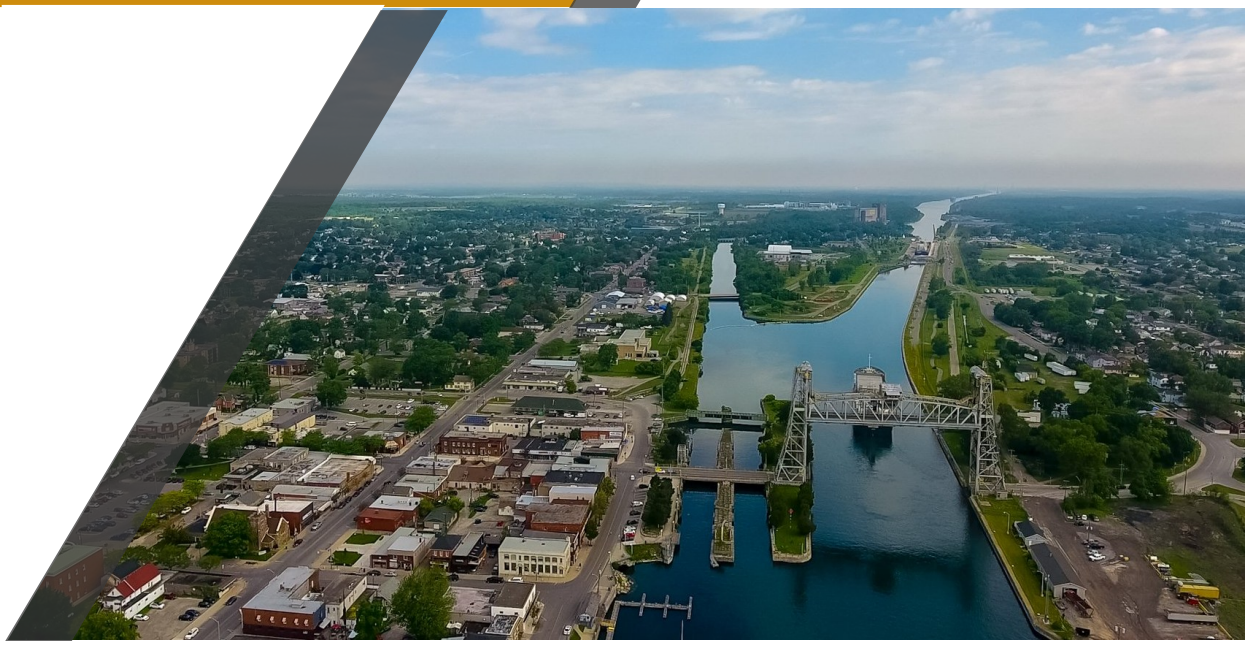
Following the Notice of Study Completion, the MSP report was made available on the project website for a 30-day public review and comment period.

Comments received during the review period, along with responses, will be documented and included in **Appendix G**.

Appendix A – Communications Plan

City of Port Colborne Water and Stormwater Master Servicing Plan

Public and Stakeholder Consultation and Indigenous Community Engagement Plan – Final



Agile INFRASTRUCTURE

City of Port Colborne – Water and Stormwater Master Servicing Plan

Public and Stakeholder Consultation and Indigenous Community Engagement Plan – Draft

PROJECT NO. P01-002-01

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1 Purpose and Objectives

The purpose of this document is to summarize the communications plan for residents, businesses, agencies and other public members identified as stakeholders in the Port Colborne Water and Stormwater Master Servicing Plan (WSMSP) Environmental Assessment (EA) process. It also describes the plan for communication and engagement with Indigenous Communities in the project study area.

The major goal of the plan is to describe the approach for providing effective communication and engagement of local residents, interest groups, agencies and other stakeholders, as well as Indigenous Communities through the EA process. The plan identifies stakeholders and Indigenous Communities and their sensitivities, and describes tactics for:

- Encouraging interested and affected stakeholders' participation throughout the Master Plan process, including PICs, workshops, and other events.
- Engaging approvals agencies to secure early buy-in and identify agency permitting requirements for subsequent stages in project implementation.
- Engaging with Indigenous Communities to receive input on traditional knowledge, interests and concerns.
- Addressing comments received and demonstrating how they are considered in the Master Plan process.
- Documenting the consultation process and its results.
- Building the foundation for future steps in the process including implementation of the individual projects.

This Communications Plan has been developed to meet the consultation requirements for Master Plans as described in the Municipal Engineers Class EA document (2023), and to reduce the risks of receiving Section 16 Orders under Ontario's EA Act.

2 Key Principles

The Public and Stakeholder Consultation and Indigenous Community Engagement Plan is based on these five key principles:

- ✓ **Respect:** for all parties engaged in the process.
- ✓ **Clear, consistent and understandable communication**: the level of communication reflecting the stakeholder and their interests.
- ✓ **Transparency**: communicate the EA process openly.
- ✓ **Flexibility:** communication plan will be adapted and changed to reflect issues and opportunities that may arise through the EA process.
- ✓ **Consideration:** all comments received will be responded to and considered in the assessment and final recommendations, where appropriate.

3 Project Messaging

Key messages that will be conveyed through the course of the WSMSP are:

- The Port Colborne WSMSP is being undertaken to provide an overall management strategy for meeting the City's existing and future water supply and stormwater control needs to the year 2051, with a vision for the long-term (beyond 25 years).
- The Master Servicing Plan will be undertaken as an Approach 1 Municipal Class Master Plan Environmental Assessment, satisfying Phases 1 and 2 Class Environmental Assessment (EA) process. Projects identified in the MSMSP will require subsequent site-specific assessments and consultations.
- The overall management strategy will:
    - Support growth, intensification, land use change, and system expansion.
    - Address existing system issues and deficiencies (e.g. fire flow requirements).
    - Consider public, stakeholder and Indigenous Community input.
    - Be cost effective, while protecting the environment and communities.
    - Respond to changing conditions, such as regulatory requirements, public expectations and climate change.

4 Public/Stakeholders and Sensitivities

4.1 City of Port Colborne

4.1.1 Project Management Team

The project management team includes:

- Joe Colasurdo, Project Manager – City of Port Colborne
- Bryan Bortolon, Project Advisor for the City – 3BP
- Julien Bell (JB) Project Manager– Agile Infrastructure

Meetings will be held regularly with the project team to steer and direct the project.

4.1.2 Other City Staff

Representatives of relevant departments will be invited to participate in project meetings, as required by the City project manager, these include staff representations from planning and development, corporate communications, and operations. To ensure City operations has input into the process, two (2) half-day workshops will be held.

4.1.3 Senior Management and Council

The City project manager will ensure that senior management and Council are kept up to date on major milestones, recommendations and decisions, with the support of Agile.

4.2 External Agencies

4.2.1 Technical Steering Committee

Although several agencies must be consulted with through the Master Plan process, the two agencies that will be most involved are the Regional Municipality of Niagara and the MECP Niagara District office. A Technical Steering Committee (TSC) will be formed at the onset of the study to facilitate decision making, which consists of Niagara Region, MECP Niagara District Office, and City Staff. Four (4) TSC meetings will be held throughout the duration of the project. Four (4) additional meetings with the Regional and City Project Managers are also planned.

4.2.2 Other Agencies

In addition, to the MECP other Provincial and Federal Ministries will receive notifications related to this study throughout the process, as required. Some of the Ministries include:

- Niagara Region Conservation Authority
- Ontario Ministry of Indigenous Relations and Reconciliation
- Ontario Ministry of Transportation
- Ontario Ministry of Natural Resources and Forestry
- Ontario Ministry of Agriculture, Food and Rural Affairs
- Ontario Ministry of Tourism, Culture and Sport
- Ministry of Citizenship and Multiculturalism
- Ontario Ministry of Children, Community and Social Services
- Ontario Ministry of Health and Long-term Care
- Ontario Ministry of Economic Development, Job Creation and Trade
- Indigenous and Northern Affairs Canada
- Environment Canada
- Fisheries and Oceans Canada Infrastructure Ontario

4.3 Public and Other Stakeholders

The communication plan will be aimed at providing the opportunity for all stakeholders to participate in the study. These include, but not limited to:

- Residents and businesses
- Special Interest Groups, such as business associations
- Welland Recreational Canal Corporation (WRCC) and St Lawrence Seaway Management Corporation
- Developers
- Utilities

The media will also be interested in the study. Agile will support City Communications in getting the right messages to the media.

4.4 Indigenous Communities

As rights holders and stewards of the land, Indigenous Communities offer important insights and traditional knowledge about our lands and waters. It is therefore important to engage Indigenous Communities through the process to receive their input and address their concerns. For this project, the following communities are expected to be interested in the study:

- Six Nations of the Grand River (SNGR)
- Mississaugas of the Credit First Nations (MCFN)
- Haudenosaunee Confederacy Chief Council and/or Haudenosaunee Development Institute (HDI)
- Métis Nation of Ontario, and the Niagara Region Métis Council

It is assumed that Agile will prepare the required information for engaging the Indigenous Communities, but that the City will be the lead (i.e. all correspondence to Indigenous Communities will come from the City).

4.5 Stakeholder and Indigenous Community Sensitivities

Agile will work with the City to gear the level of communications to the stakeholder/Indigenous Community and their concerns, by utilizing a sensitivity analysis (**Error! Reference source not found.**) to outline contact points for each group along with key follow-ups for specific stakeholders. Those in the "Keep Engaged" category will require more in-depth communications. (It is recognized that the level of interest will be more fully identified as the project proceeds, and that the level of communications may require adjustment).

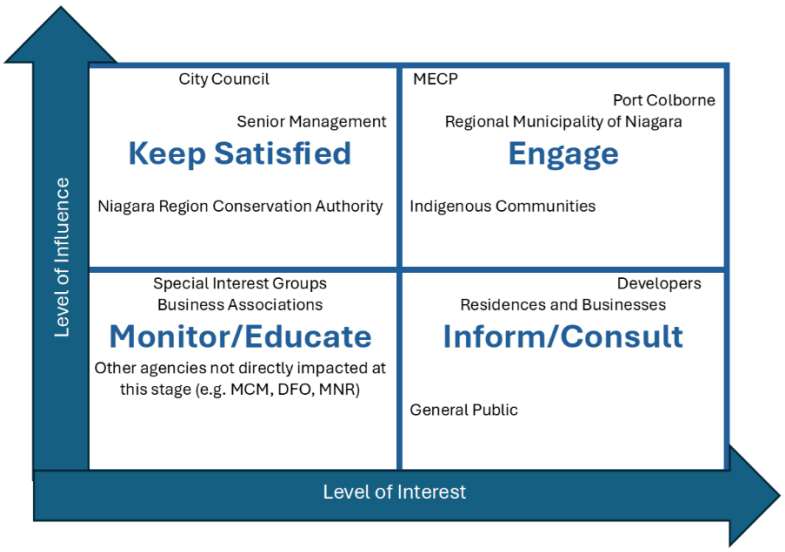


Figure 4.1: Preliminary Stakeholder Identification and Sensitivity Analysis

5 Methods of Communication and Engagement

5.1 Overview of Methods

Multiple methods of communication and engagement will be used including:

- Notices of Commencement, PICs and completion.
- Meetings with TAC, and other stakeholders.
- One virtual PIC and the second PIC in person.
- Distribution of contact information and comment sheets to receive comments from interested and affected parties.
- Response and/or implementation of comments received from open communication, coordination meetings and PICs.
- Online publication of project documents, PIC materials and all associated notices.
- Project website that is continually updated.
- Use of social media to provide notices and updates.
- Follow up emails and phone calls to ensure input is received from key stakeholders and Indigenous Communities.

5.2 Schedule and Milestones for Communications

The milestones in our consultation strategy are described in the following sections.

5.2.1 Communications Plan and Mailing List

As a first step, Agile has prepared this communications plan and a draft mailing list based on the PPCP mailing list and our knowledge of provincial ministries, municipal departments and Indigenous communities that must be consulted with. When registering the Notice of Commencement with the MECP, Agile will confirm the required agencies and Indigenous Communities to be consulted with and update the list accordingly.

The mailing list will be revised, as appropriate, to reflect those agencies or parties who wish no further involvement in the study as well as those new agencies/parties who wish to be added to the mailing list.

5.2.2 Notice of Study Commencement

This will be placed in the local newspapers and mailed to agencies, community associations, interest groups, and Indigenous Communities on the mailing list. It will also be placed on the project website. Personalized letters will be sent to agencies and Indigenous Communities along with the notices. The Notice will identify the study, the approach and EA process, and opportunities for public input.

The Notice of Commencement will be sent in early January 2025.

5.2.3 Public Information Centres

Two Public Information Centres (PICs) are planned. The First PIC will be a virtual PIC and will occur midway through the project and will present the study purpose, existing conditions throughout the study area, constraints and opportunities, and evaluation criteria. Alternatives will also be presented at the PIC. This PIC is currently planned for April 2025.

The Second PIC will be an in-person PIC and will occur at the end of the project. It will walk the public through the alternative development and evaluation process and present the recommended alternative. This PIC is currently planned for August 2025.

The PIC will be advertised in newspaper, on the City's website and on City social media platforms. In preparation for each PIC, Agile will:

- Prepare the Draft Notice of PIC for the City to advertise in local newspapers, and place on the website and other social media platforms.
- Prepare all coloured displays, sign-in sheets and comment forms.
- Provide final displays in PDF format to the City for posting on the project's website.
- Provide professional staff and facilitate the PIC events.

5.2.4 Notice of Completion

The notice will include a description of the study and consultation process, the recommended solution, Master Servicing Plan viewing locations, and public comment options. The goal is to publish the notice of completion in September 2025.

5.3 Roles and Responsibilities

The City will be response for leading the following:

- Publication of notices on the website, in the papers and on social media.
- Media Communications
- Indigenous Community Consultations
- Communications to Senior Staff and Council

Agile will support the above by preparing relevant consultation materials. Agile will also be responsible for maintaining the mailing list, PIC preparation and attendance, responding to comments, preparing notices and all documentation.

6 Consultation and Engagement Documentation

6.1 Issues Management and Tracking

All contact information will be contained in a database such that all comments received can be and stored easily and efficiently. All comments will be responded to, and a comment and

responses log will be prepared, and updated after each PIC. All communication with external parties will be tracked, with exception of confidential information (including name and address of public members) to become part of the Master Plan.

6.2 Consultation Reports

All activities will be documented in the following reports:

- Interim Consultation Report #1 – to be prepared following PIC #1.
- Interim Consultation Report #2 – to be prepared following PIC #2; and include all consultation activities since the commencement of the project.
- Final Consultation Report.

6.3 Master Plan Documentation

The final Master Plan will summarize all public and agency consultation documentation, with the exception of confidential information, notifications, meetings, workshops, PICs, comments and responses will be included.

The Master Plan will be made available for public review as part of the filing at the conclusion of the studies. A Notice of Study Completion will be prepared. The purpose of these notices is to announce the studies' completion and begin the minimum 30-day public review periods. Hard copies of the final ESRs will be filed at agreed public facilities. Electronic copies and supporting appendices will also be made available on the project website.

As with all the notices, the Notices of Study Completion will be advertised on the website and in local newspapers.

6.4 AODA Compliance

All public documents will be compliant with the Accessibility for Ontarians with Disabilities Act (AODA) where possible. Upon request, alternate formats of reports will be made available.

Appendix B – Stakeholder List

City of Port Colborne
Water and Stormwater Master Servicing Plan
Stakeholder Registry

Project Name:	Water and Stormwater Master Servicing Plan
Client:	City of Port Colborne
Version Date:	November 12, 2025 (Version 3)

Organization	Role/Title	Stakeholder Category
3BP	Project Manager	Project Team
City of Port Colborne	Manager of Infrastructure	Project Team
Niagara Region	Manager Water Wastewater Infrastructure Planning	Technical Steering Committee
City of Port Colborne	City Clerk, Port Colborne	Proponent Municipality
City of Port Colborne	Director of Public Works	Proponent Municipality
City of Port Colborne	Chief Planner	Proponent Municipality
City of Port Colborne	Environmental Compliance Manager	Proponent Municipality
Niagara Region	Director	Municipality - Regional
Township of Wainfleet	Director of Operations (Manager of Operations)	Municipality - Neighbouring
City of Welland	Director of Engineering and Public Works	Municipality - Neighbouring
Town of Fort Erie	Director of Infrastructure Services/Public Works	Municipality - Neighbouring
City of Port Colborne	Mayor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Councillor	Proponent Municipality - Council
City of Port Colborne	Regional Councillor	Proponent Municipality - Council
Six Nations of the Grand River	**Consultation Supervisor**	**Indigenous Communities**
Haudenosaunee Development Institute	**Environmental Monitor**	**Indigenous Community**
Mississaugas of the Credit First Nation	**Acting Consultation Coordinator**	**Indigenous Community**
Mississaugas of the Credit First Nation	**Environment Sustainability Councillor**	**Indigenous Community**
Mississaugas of the Credit First Nation	**Director of Consultation and Accommodation**	**Indigenous Community**
Mississaugas of the Credit First Nation	**Chief**	**Indigenous Community**
Assembly of First Nations	Regional Chief, Ontario	Indigenous Community
Association of Iroquois and Allied Indians	Office Manager	Indigenous Community
Metis Nation of Ontario		Indigenous Community

Project Name:	Water and Stormwater Master Servicing Plan
Client:	City of Port Colborne
Version Date:	November 12, 2025 (Version 3)

Organization	Role/Title	Stakeholder Category
Metis Nation of Ontario	Manager, Environmental Assessments and Regulatory Issues	Indigenous Community
Metis Nation of Ontario		Indigenous Community
Niagara Region Metis Council	President	Indigenous Community
Niagara Regional Native Centre		Indigenous Community
Canadian Section, International Niagara Board of Control	Secretary	Ministry - Federal
Canadian Environmental Assessment Agency	Regional Director	Ministry - Federal
Impact Assessment Agency of Canada	Regional Director	Ministry - Federal
Department of Fisheries and Oceans Canada		Ministry - Federal
Department of Environment and Climate Change Canada	Manager Environmental Assessment Section	Ministry - Federal
Department of Indigenous and Northern Affairs Canada	Environmental Assessment Coordinator	Ministry - Federal
Federal Economic Development Agency for Southern Ontario	Manager of Program Delivery, Infrastructure Operations	Ministry - Federal
Federal Economic Development Agency for Southern Ontario	Program Policy Advisor	Ministry - Federal
Health Canada	Ontario Regional Manager	Ministry - Federal
Transport Canada	Regional Manager, Environment and Engineering	Ministry - Federal
Transport Canada	Regional Manager, Navigable Water Protection Program	Ministry - Federal
Transport Canada		Ministry - Federal
Ministry of the Environment, Conservation and Parks	Project Information Form - Online Submission	Ministry - Provincial
Ministry of the Environment, Conservation and Parks	EA & Planning Coordinator, West Central Region	Ministry - Provincial
Ministry of Solicitor General	Manager Capital Planning Facilities and Capital Planning Branch	Ministry - Provincial
Ministry of Solicitor General	Manager Delivery and Operations Facilities and Captial Planning Branch	Ministry - Provincial
Infrastructure Ontario	Environmental Management Director	Ministry - Provincial
Infrastructure Ontario	Vice President Portfolio Planning and Development	Ministry - Provincial
Infrastructure Ontario	Planning Analyst	Ministry - Provincial
Ministry of Agriculture, Food and Rural Affairs		Ministry - Provincial
Ministry of Citizenship and Multiculturalism	Team Lead Heritage	Ministry - Provincial
Ministry of Citizenship and Multiculturalism	Heritage Planner	Ministry - Provincial
Ministry of Economic Development , Employment and Infrastructure	Assistant Deputy Minister, Infrastructure Policy Division	Ministry - Provincial
Ministry of Infrastructure	Director, Infrastructure Policy Division	Ministry - Provincial
Ministry of Municipal Affairs and Housing	Senior Housing Advisor	Ministry - Provincial
Ministry of Tourism, Culture and Sports	Coordinator Resource-Based Tourism	Ministry - Provincial
Ministry of Tourism, Culture and Sports	Senior Policy Advisor	Ministry - Provincial
Ministry of Transportation	Manager Environmental Policy Office	Ministry - Provincial
Ministry of Transportation	Manager Engineering Program Devliery Central	Ministry - Provincial

City of Port Colborne
Water and Stormwater Master Servicing Plan
Stakeholder Registry

Project Name:	Water and Stormwater Master Servicing Plan
Client:	City of Port Colborne
Version Date:	November 12, 2025 (Version 3)

Organization	Role/Title	Stakeholder Category
Ministry of Indigenous Affairs and First Nations Economic Reconciliation		Ministry - Provincial
Ontario Provincial Police	Facilities Envrionmental Consultant	Ministry - Provincial
Ontario Provincial Police	Facilites Coordinator	Ministry - Provincial
Peace Bridge Authority	General Manager	Ministry - Provincial
Ministry of the Attorney General, Aboriginal Justice Division	Director	Ministry - Provincial
Ministry of Indigenous Affairs		Ministry - Provincial
Ministry of Economic Development, Employment and Infrastructure	Assistant Deputy Minister, Infrastructure Policy	Ministry - Provincial
Ministry of Municipal Affairs and Housing	Manager Community Planning and Development	Ministry - Provincial
Niagara Escarpment Commission	Senior Strategic Advisor, South Region	Escarpment Commission
Niagara Peninsula Conservation Authority	Ecology Technician - Planning & Regulations	Conservation Authority
Niagara Peninsula Conservation Authority	Senior Manager, Water Resources	Conservation Authority
Niagara Peninsula Conservation Authority	Water Quality Specialist	Conservation Authority
Niagara Peninsula Conservation Authority	Project Manager, Niagara River Remedial Action Plan	Conservation Authority
CN Rail	Public Works	Rail/Transit
CP Rail	Director Project and Public Works	Rail/Transit
CP Rail		Rail/Transit
CP Rail		Rail/Transit
Metrolinx	Director Environmental Programs and Assessment	Rail/Transit
TransCanada Pipelines	Project Manager, Eastern Region	Rail/Transit
TransCanada Pipelines	Canada Pipeline Operations, Eastern Region	Rail/Transit
TransCanada Pipelines	Community Relations Liaison, Eastern Region	Rail/Transit
TransCanada Pipelines	Maintenance Manager Maple/Niagara Facilities, Eastern Region	Rail/Transit
Trans Canada Pipelines	Supervisor, Right-of-Way	Rail/Transit
Great Lakes St. Lawrence Seaway		Rail/Transit
Ontario Power Generation	Senior Manager EH&S	Utillities
Infrastructure Ontario	Landuse Planning Analyst	Ministry - Provincial
Infrastructure Ontario	Notice Review Email	Ministry - Provincial
Upper Canada Planning & Engineering Ltd.		Developer/Engineer

Appendix C – Notice of Study Commencement

City of Port Colborne

Notice of Study Commencement

Water and Stormwater Master Servicing Plan

About the Study

The City of Port Colborne has initiated the Water and Stormwater Master Servicing Plan Study. The Study will:

- Review the existing condition and performance of the current water and stormwater systems.
- Consider the impacts of population growth on the water and stormwater systems.
- Identify and assess strategies for meeting existing and future water and stormwater servicing needs.
- Establish an overall management strategy and vision for meeting short- and long-term water and stormwater infrastructure needs through to the year 2051 and beyond.

The City will use the Water and Stormwater Master Servicing Plan's resultant Capital Program and Action Plan to inform future water and stormwater system capacity allocations, infrastructure upgrades, and financial planning decisions.

The Process

The Master Servicing Plan Study will be completed in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Planning, satisfying Phases 1 and 2 of the Class EA process.

Get Involved

Key audience input is a critical part of the Master Planning Process. The City of Port Colborne encourages its residents, businesses, and other interested parties to participate in the development of the Water and Stormwater Master Servicing Plan.

You may provide comments, questions, and concerns to the project team at any time during the study. Two Public Information Centres will be held throughout the study.

How to Participate

The City of Port Colborne will be posting information about the Water and Stormwater Master Servicing Plan on a project website at portcolborne.ca/waterandstormwater. Additional project notices will be advertised on the City's website, in the Welland Tribune newspaper, and mailed (or emailed) to potentially impacted residents, businesses, Indigenous Communities and other key audiences. When the study is completed, a copy of the Water and Stormwater Master Servicing Plan report documenting the study process and recommendations will be available for public review and comments.

You can also contact the project team with any questions related to this study or to be added to the project contact list:

Joe Colasurdo
Manager of Strategic Projects
City of Port Colborne
1 Killaly Street West
Port Colborne, ON L3K 6H1
905-228-8135
Joe.Colasurdo@portcolborne.ca

Julien Bell, P.Eng.
Project Manager
Agile Infrastructure
16 Welsh Drive
Ayr, ON N0B 1E0
416-254-6247
Julien.Bell@agileinfrastructure.ca

This notice was first issued on Saturday, January 25, 2025

With the exception of personal information, all comments will become part of the study's public record.

If you require this information in an accessible format, please contact 905-835-2900.

Appendix D – PIC Materials

PORT COLBORNE

November 13, 2025

RE: Project Status Update – 2025 Pollution Prevention Control Plan
Project Status Update – Water and Stormwater Master Servicing Plan

Greetings,

The City of Port Colborne would like to begin by respectfully acknowledging that the Niagara Region is situated on treaty land, steeped in the rich history of the First Nations, including the Hatiwendaronk, the Haudenosaunee, and the Anishinaabe peoples, as well as the Mississaugas of the Credit First Nation. Today, many First Nations, Métis, and Inuit peoples from across Turtle Island continue to live and work throughout the Niagara Region. The City of Port Colborne stands with all Indigenous peoples, past and present, in promoting the wise stewardship of the lands and waters on which we live.

The City also acknowledges that Indigenous peoples are the enduring stewards and caretakers of these lands and waters, continuing to uphold their responsibilities to ensure their health, integrity, and sustainability for generations to come.

Background and Scope:

The City of Port Colborne is undertaking two Master Plan studies:

- 2025 Pollution Prevention Control Plan (2025 PPCP) (with GEI Consultations Canada) - The purpose of the 2025 PPCP is to develop an action plan that outlines and prioritizes long-term strategies to manage the wastewater system and future growth in the City.
- Water and Stormwater Master Servicing Plan (WSMSP) Update (with Agile Infrastructure) – The purpose of this study is to establish an overall management strategy and vision for meeting short- and long-term water and stormwater infrastructure needs in the City of Port Colborne through to the year 2051 and beyond

The purpose of this letter is to:

1. Update you on the progress on the 2025 PPCP and WSMSP Update studies, and their preliminary recommendations.
2. Provide notification of the upcoming Joint Public Information Centre (PIC).

PORT COLBORNE

3. Invite you to provide input into the studies in a manner you prefer, such as meetings to discuss recommendations or providing comments on information presented herein.

While the 2025 PPCP and the WSMSP Update studies are being undertaken independently, there are comment elements to each study. As such, we are providing information on both studies in this letter. In additional, the City is planning a Joint Public Information Centre (PIC) to present information on the Master Plan studies. The objectives of the PIC are to present preliminary evaluation results and receive input and feedback on the each of the proposed strategies.

The 2025 PPCP and the WSMSP Update are being undertaken as Approach 1 Master Planning studies, satisfying Phases 1 and 2 of the Municipal Engineers Association Class Environmental Assessment process (October 2000, as amended in 2007, 2011, 2015, 2023, and 2024), which is an approved process under the *Ontario Environmental Assessment Act*. Each study will:

- Identify the problem to be solved through review of the existing conditions and performance of the current systems, and consideration of the impacts of population growth on these systems.
- Identify and assess strategies for meeting existing and future servicing needs.
- Establish overall management strategies to inform future policies, practices and capital planning decisions to support future servicing needs to 2051.

Profile of Proponent and Study Area:

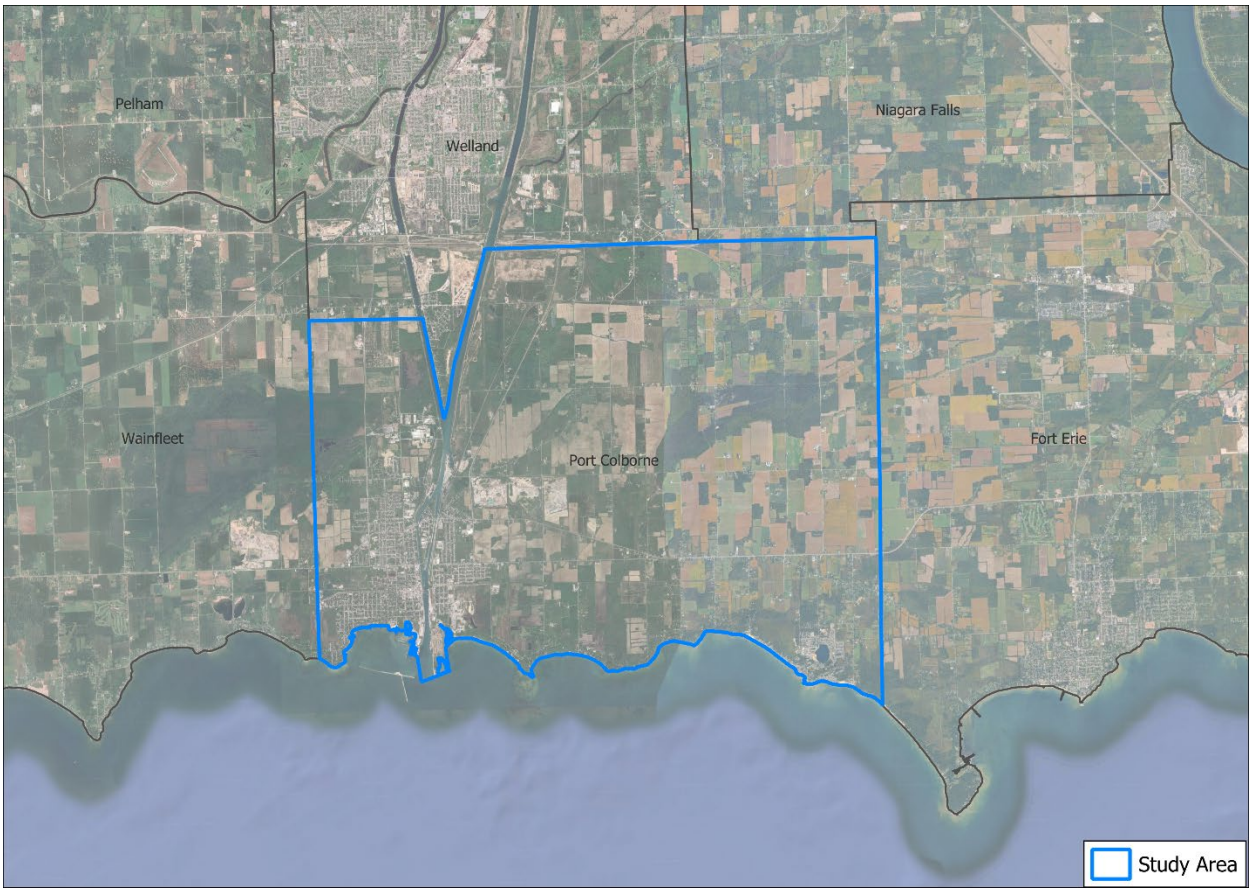
The City of Port Colborne is one of twelve local tier municipalities within the Regional Municipality of Niagara (Region). The City of Port Colborne is situated on the north shore of Lake Erie, at the mouth of the Welland Canal. It is bounded by the Township of Wainfleet to the west, the Town of Fort Erie to the east and the Cities of Welland and Niagara Falls to the north. Additionally, the lands are within Treaty 3, Between the Lake Purchase.

The City of Port Colborne and the Regional Municipality of Niagara (Niagara Region) share responsibilities in providing water and wastewater services to the citizens of Port Colborne. The Region is responsible for wastewater treatment and conveyance, as well as water treatment and distribution, through its network of pumping stations, force

mains, storage facilities, and major trunk sewers and watermains. The City is responsible for the local wastewater collection and water distribution systems, which consist of City owned and operated local sewers and watermains, and smaller City-owned pumping stations, forcemains and storage facilities.

Unlike the water and wastewater systems, it is predominantly the City's responsibility to manage the stormwater conveyance systems and treatment facilities. Outside of the City's urban boundary, the stormwater system largely consists of roadside ditches and culverts collecting and conveying stormwater runoff to local creeks and rivers before discharging to the Welland Canal, Lake Erie, or to the Niagara River (via tributaries). While inside the City's urban boundary the stormwater system largely consists of a conventional sewer network, with limited areas serviced by roadside ditches.

The Study Area for both the 2025 PPCP and the WSMSP Update is the same and encompasses the City of Port Colborne, as shown on **Map 1**.



Evaluation Process of Alternatives:

As a first step in each study, the condition and performance of the existing systems were analyzed and capacity requirements to meet future population growth needs were identified. Alternative strategies to meet future servicing needs, while improving system operations where required were then identified.

To evaluate alternatives strategies, a multi-step evaluation process considering technical, natural environment, social-cultural heritage and financial criteria was used to select the best overall strategies, while minimizing and mitigating impacts on the environment and communities. The following principles were used to selecting preferred strategies:

- Avoid natural areas of significance as identified in the City of Port Colborne's Official Plan including significant valleylands, wildlife habitats, woodlots, and Areas of Natural and Scientific Interest (ANSIs).
- Avoid areas where archaeological and cultural heritage resources have been previously identified.
- Select routes or sites for wastewater, water and stormwater infrastructure with areas that have already been disturbed, such as existing Right of Ways.
- Utilize existing infrastructure versus building new infrastructure, where feasible.

It is noted that no new studies or investigations of natural heritage, archaeological resources, or cultural heritage resources were completed as part of the Master Planning processes. These studies will be undertaken when specific infrastructure projects identified in the Master Plan studies are to be implemented.

Recommended Pollution Prevention Control Plan Strategy:

The City is aware of the cultural importance and the community interests in the quality and safety of the water of Lake Erie as the downstream waterbody for any system overflows and bypasses. The strategy therefore is aimed at reducing the frequency and volume of wastewater overflows and bypasses from the system to the environment. To reduce the potential for untreated discharges into Lake Erie, the preferred strategy focuses on reducing the amount of wet weather flow that makes its way into the wastewater system during extreme rainfall events, which in turn, overwhelms the sewers and pumping stations. The wet weather flow reduction involves activities such as lateral lining, sewer rehabilitation works, and disconnections to the wastewater system. The City is currently undertaking this work.

PORT COLBORNE

Capital Projects are proposed at key locations, including sewer upsizing sections, new sewer sections, and new forcemains, which are adequately sized to handle larger storm events and improve the system's overall flood resiliency. However, the 2025 PPCP recommends additional flow monitoring and localized model recalibration after completing the wet weather flow reduction activities to confirm if upsizing Capital Projects are still required.

Recommended Water and Stormwater Master Servicing Strategy:

The recommended water servicing strategy is aimed at improving the existing system performance through reducing water loss and at providing sufficient capacity to meet existing and future community and fire flow needs. The projects involve upgrades and rehabilitation of existing watermains and construction of new watermains. These watermains are planned to be constructed in road right of ways. The review and recommendations for additional treatment, pumping or storage facilities are not included in the scope of this study.

The recommended stormwater management strategy involves upgrading and expanding the current stormwater system through sewer upgrades, new sewers, re-configuration and upgrades to local drainage networks and outlets, as well as existing outlet improvements. For new greenfield development, the strategy is a combination of Low Impact Development (LID**)** methods to manage stormwater at source, and construction of facilities such as detention pond, retention basin, to manage and treat stormwater prior to discharge to receiving waters. New infrastructure will be subject to additional studies and investigations prior to implementation.

Next Steps and Engagement Plan:

The City of Port Colborne recognizes the importance of the engagement and consultation process and values the input and feedback from your community. We invite you to provide your community's comments and perspectives on the studies, as well as attend the Joint PIC:

Date: **Wednesday, December 3, 2025**

Time: **3:00 pm to 7:00 pm**

Location: Vale Health & Wellness Centre, 550 Elizabeth Street, Port Colborne Golden Puck Room

PORT COLBORNE

The PIC will provide you with an opportunity to hear project updates, provide input, and ask questions. Representatives from the City, and their consultants will be available to discuss project information and respond to questions.

Based on comments received the recommended strategies will be finalized, and Master Plan reports prepared. It is anticipated that 2025 PPCP and the WSMSP Update reports will be complete in 2026 and made available for a 30-day public review at that time.

We look forward to your involvement in the 2025 PPCP and WSMSP Studies. Should you have any questions or would like to meet (in-person or virtual), please don't hesitate to contact the me.

Sincerely,



Joe Colasurdo C.E.T.
Manager of Strategic Projects
City of Port Colborne
1 Killaly Street West
Port Colborne, ON L3K 6H1
905-228-8135
Joe.Colasurdo@portcolborne.ca



Agile
INFRASTRUCTURE

CITY OF PORT COLBORNE

WATER AND STORMWATER MASTER PLAN

Public Information Centre

December 3, 2025 | 3 – 7 PM

Vale Health & Wellness Centre
550 Elizabeth Street, Port Colborne, ON

Welcome to the Public Information Centre

Public Information Centre Objectives

- Present the study objectives and Problem and Opportunity Statement
- Present the Master Plan Class Environmental Assessment (EA) process
- Present an overview of the City's existing water and stormwater systems
- Present planned future growth and the associated opportunities and challenges to the water and stormwater systems
- Present the proposed alternatives, water and stormwater evaluation, and preliminary preferred long-term management strategies.
- Receive feedback on all the presented materials and incorporate it into the project moving forward

- Please sign in and take a comment sheet
- Review the information on the display boards and talk to the Project Team
- Submit comments in person or online

Project Objectives

The 2025 Water and Stormwater Master Plan will identify and develop a **long-term water and stormwater servicing strategy** and capital forecast to achieve the desired infrastructure performance objectives for **existing and future residents and businesses**, with consideration for expanding services to support critical employment opportunities. This will support projected **future growth in the community to 2051** and consider **potential impacts beyond 2051**.

- Detailed Inventory and Characterization of Existing Systems
- Update and Calibrate the Water Hydraulic Model & Develop New Stormwater Hydraulic Model
- Confirm Desired Water and Stormwater System Performance Targets
- Quantify How the System is Performing Now and, in the Future, (with Growth)
- Identify the Long-Term Management Strategy
- Develop Capital Program (Budget) and Implementation Plan (Schedule)

Master Plan and Class EA Process

Through the Water and Stormwater Master Plan, we will complete Phases 1 and 2 of the Municipal Engineers Association (MEA) Class EA process.

Environmental Assessment Process – Phases 1 and 2

Problem and Opportunity

- What is the state of the existing infrastructure?
- How does the system work?
- Where is the system working well and where are there issues?
- Problem and opportunity statement

Identify Alternative Solutions

- How do we meet existing and future needs?
- What are potential concepts and strategies that would achieve our needs?
- What type of infrastructure upgrades and modifications are required for each potential solution?

Evaluate Alternative Solutions

- How well does each potential solution perform against various criteria?
- Are there opportunities to merge potential solutions to optimize outcomes?
- What is the best solution and why?
- **Public Information Centre**

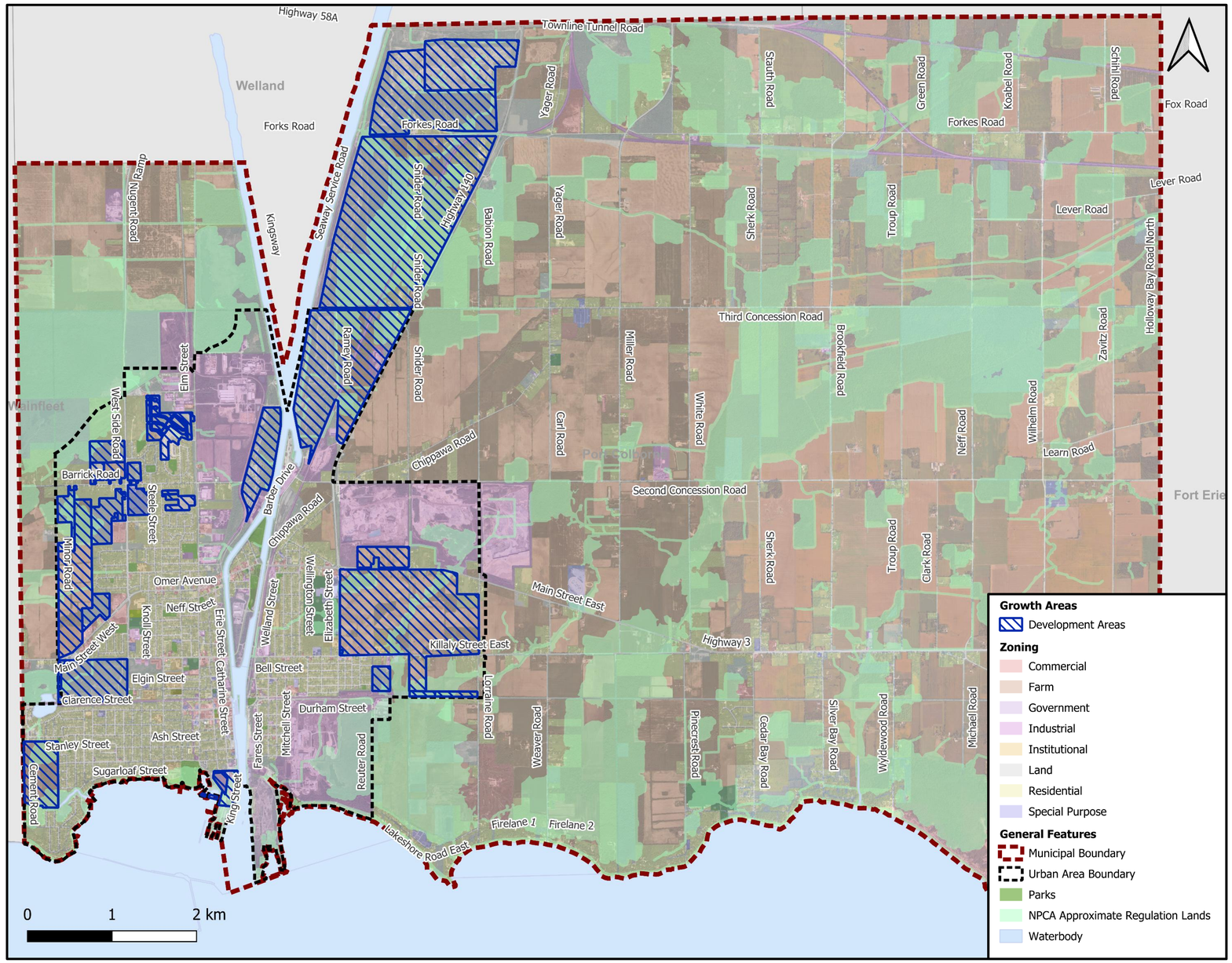
We are here

Select Preferred Solution

- What are the next steps required to implement the preferred solution?
- Project file reports – documentation of the Master Plan
- Project Notice of Completion
- 30-Day Public Review
- Finalization of Project File

The Master Plan process is outlined in Section A.2.7 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (Oct 2000, as amended in 2007, 2011, 2015, 2023, 2024)

Growth Scenario



Growth Planning:

- **Water and Stormwater Infrastructure have 50 to 100 + year life span –** Need to build a resilient network that supports reliable service as the City grows
- **Plan for the long-term** using a 2051 planning horizon while considering full build-out
- Growth includes several larger water users to support industrial processes

	2051 Growth Scenario	Buildout Growth Scenario
Residential Growth (people)	11,447	19,167
Employment Growth (people)	10,271	10,271
Additional High Water Use Employment Area (ha)	191	191
Additional High Water Use Employment Area (MLD)	14.9	14.9

Alternatives Development and Evaluation Process

How do we know that we need to upgrade the water or stormwater infrastructure?

What thresholds do we use to identify infrastructure upgrades?

How do we balance minimizing project costs while maintaining a sufficient capacity buffer?

Identify Long List of Servicing Concepts

→

Screen Long List of Servicing Concepts based on their ability to meet the Problem/ Opportunity Statement

→

Evaluate Short List of Servicing Alternatives based on Detailed Evaluation Criteria

→

Identify Preferred Water and Stormwater Servicing Strategies

Detailed Evaluation Criteria

Technical

- Meets existing and future servicing objectives
- Supports growth servicing and phasing
- Minimizes operational complexity and implementation risk
- Provides system operational reliability and resilience to climate change

Environmental

- Minimizes impacts to natural heritage systems, wildlife and species at risk
- Minimize contributions to climate change.

Social and Cultural

- Minimizes short- and long-term impacts on residents, businesses, and the community
- Minimizes impacts to local cultural heritage and archeological features

Financial

- Capital cost
- Operational and maintenance cost

Water System Management Objectives

Two Tier System

Water servicing is operated under a two-tier system; Niagara Region and the City of Port Colborne

Niagara Region

- Responsible for water treatment, transmission mains, storage facilities, pumping stations
- Long-term planning is guided by the Region's Master Servicing Plan, which identifies system needs and future upgrades

City of Port Colborne

Manages the local water distribution system, including all distribution watermains

City Master Servicing Plan

- Focuses on local water distribution
- Ensures adequate pressures and fire protection
- Maintains high water quality

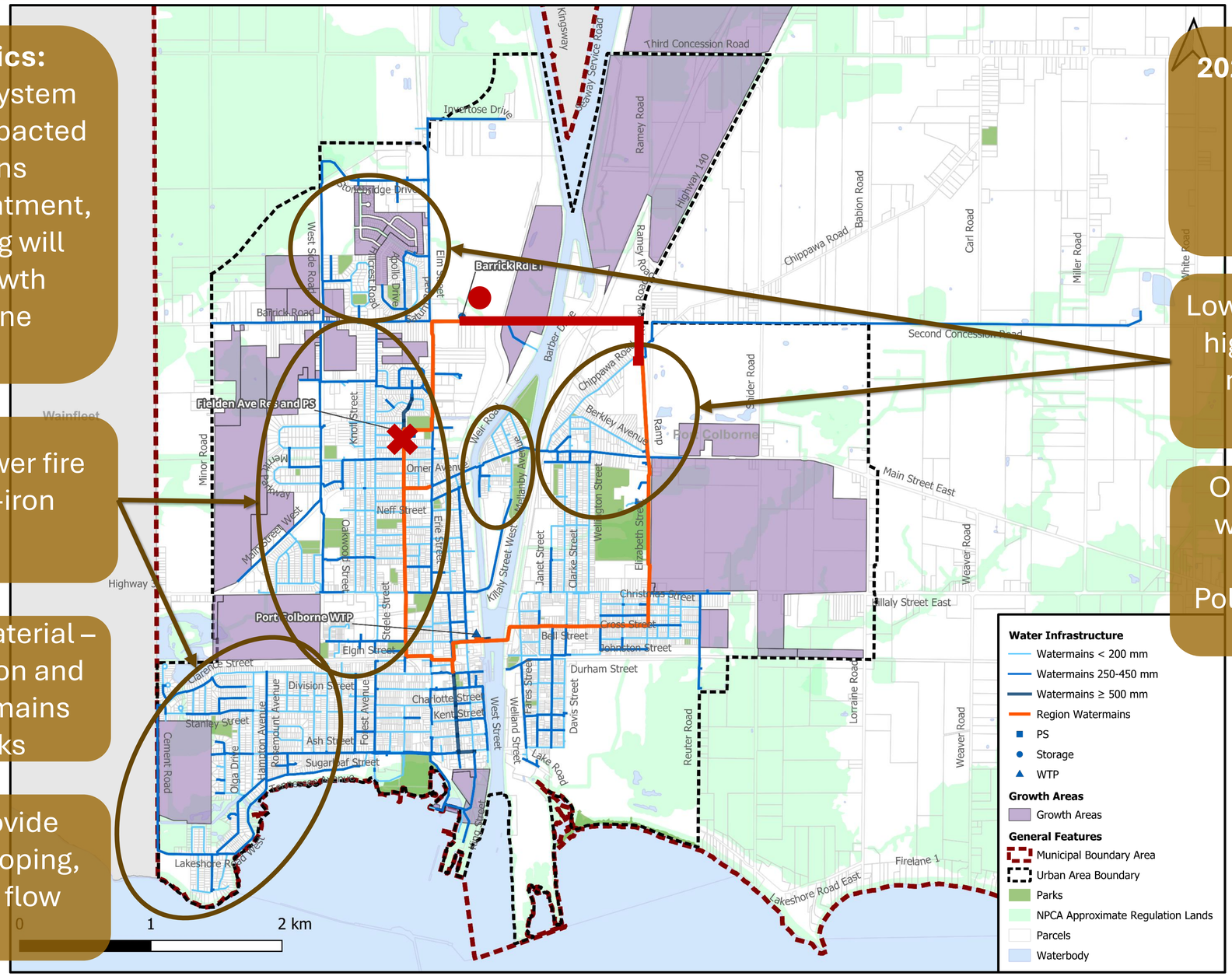
Water System Opportunities and Constraints

System Characteristics:
- Supplied by Region; system pressure and flows impacted Regional operations
- Assumed Regional treatment, storage, and pumping will expand to meet growth
- Single pressure zone maintained

High concentration of lower fire flow in areas with cast-iron watermains

Watermain condition & material – signification aging cast-iron and asbestos cement watermains with a history of breaks

Future growth areas provide opportunity for system looping, leading to improved fire flow capacity

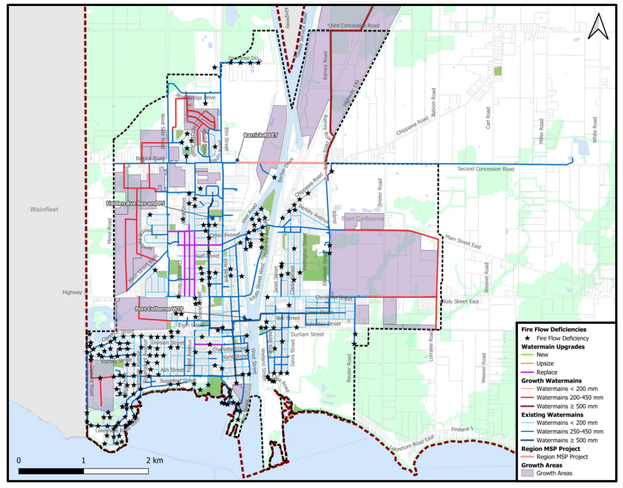


2021 Region MSP Projects:
- New canal crossing
- New Elevated Tank
- Fielden Reservoir decommissioning

Lower pressures in areas with higher elevation; pressures remain above minimum pressure targets.

Opportunity to coordinate with wastewater projects identified through the Pollution Prevention Control Plan (PPCP)

Water System Servicing Concepts & Evaluation

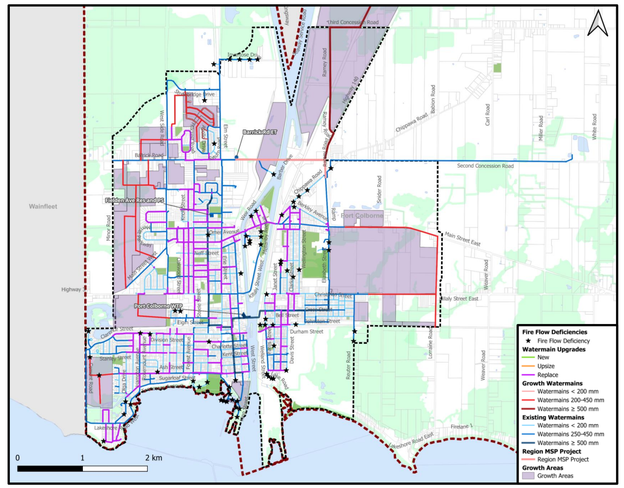


A: Buildout Capital Program

- City's planned watermain replacements
- Targets watermains with frequent breaks or ongoing issues
- Coordinates upgrades with planned municipal construction

Length Replaced**: 4.5 km**

Total System Deficiencies: **31%**

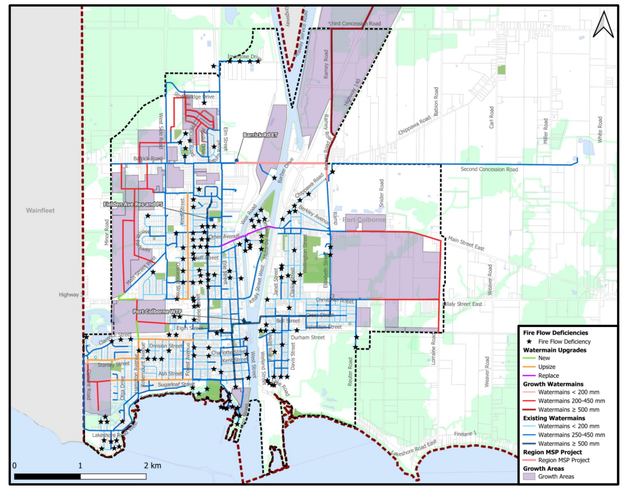


B: Cast Iron Replacement

- Including City's Capital Program
- Replaces all Cast Iron watermains in system
- Focused on localized renewal in areas with frequent watermain breaks
- Limited impact on overall system hydraulics

Length Replaced**: 30.9 km**

Total System Deficiencies: **11%**

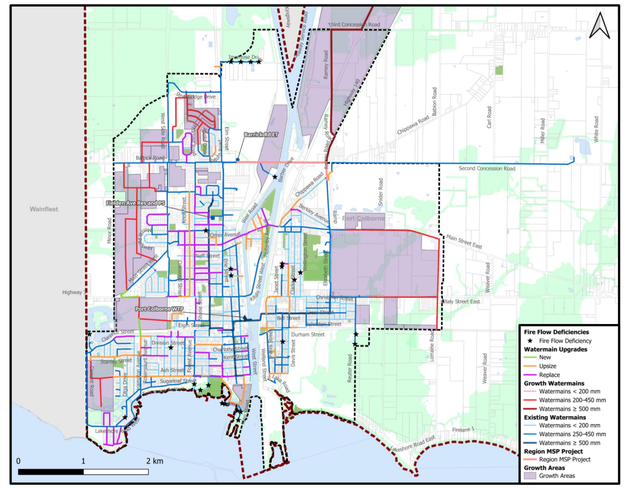


C: Sub-Trunk Loops

- Adds new sub-trunk watermains to enhance fire flow capacity with minimal watermain replacement
- Focused on system performance rather than watermain replacement
- Does not focus on Cast Iron watermains or City problem areas

Length Replaced**: 6.9 km**

Total System Deficiencies: **23%**



C+B: Sub-Trunk Loops & Target Upgrades

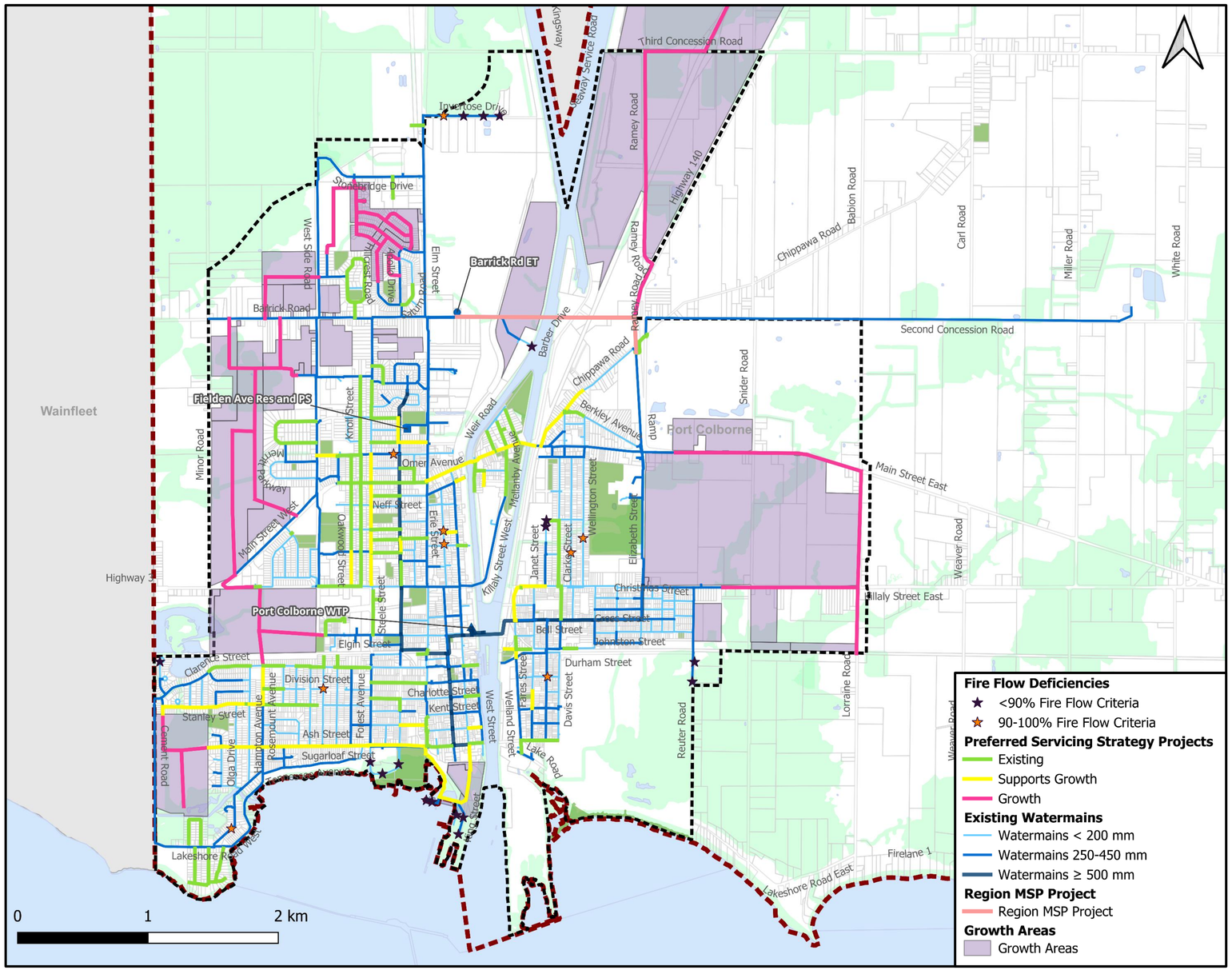
- Combines new looping with replacement of undersized watermains
- Aligned with Cast Iron watermains and watermain breaks
- Focuses on system reliability and addressing fire flow deficiencies

Length Replaced**: 26.1 km**

Total System Deficiencies: **4%**

	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
A: Buildout Capital Program	Medium	Medium	High	High	Not Recommended: Does not address large portion of fire flow deficiencies. To be included as part of overall upgrade plan.
B: Cast Iron Replacement	High	Low	High	Medium	Not Recommended: Provides no additional system resiliency and does not address all fire flow deficiencies
C: Sub-Trunk Loops	Medium	Medium	High	Medium	Not Recommended: Fails to address most fire flow deficiencies or watermain breaks; to be included as part of overall upgrade plan
C+B: Sub-Trunk Loops & Target Upgrades	High	High	High	Medium	**Recommended:** Looping provides additional system resiliency and target upgrades address watermain break issues and fire flow deficiencies

Preliminary Preferred Servicing Strategy



Balanced Approach

- **Alternative C+B (Sub-Trunk Loops and Target Upgrades)** provides the best mix of system resiliency with the looping and meeting fire flow requirements
- Trunk looping to support greenfield growth – 300 mm watermains to accommodate medium-density residential and industrial development

Targeted Investment

- Addressing both deficient areas and loop connectivity
- CI watermain lining and replacement to improve local fire flow
- Prioritize lining where feasible; replace where lining is not viable

Flexibility in Implementation

- Supports a phased approach – Capital Program upgrades can proceed first, followed by looping and local upgrades

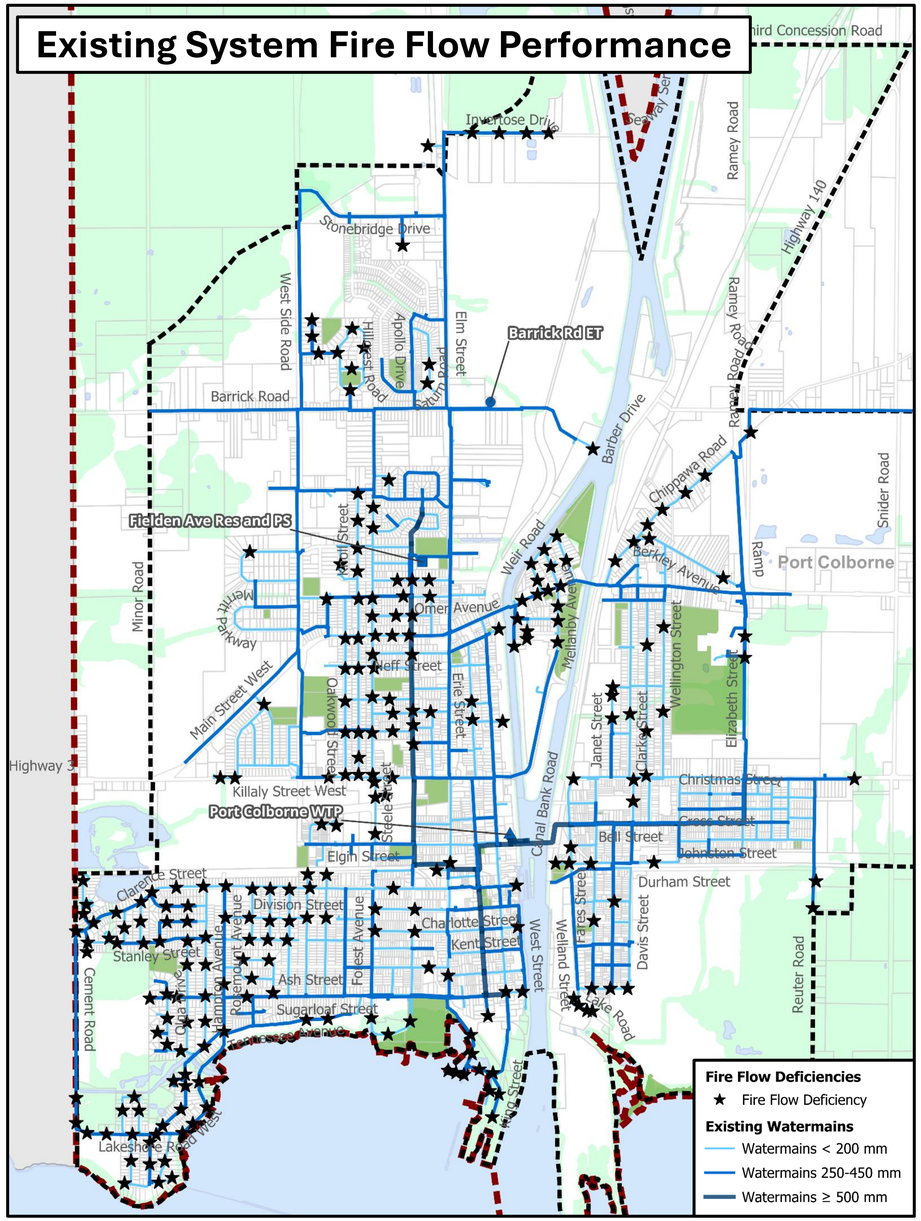
Meets Requirements

- Pressures within allowable range
- Meets fire flow requirements for >95% of system

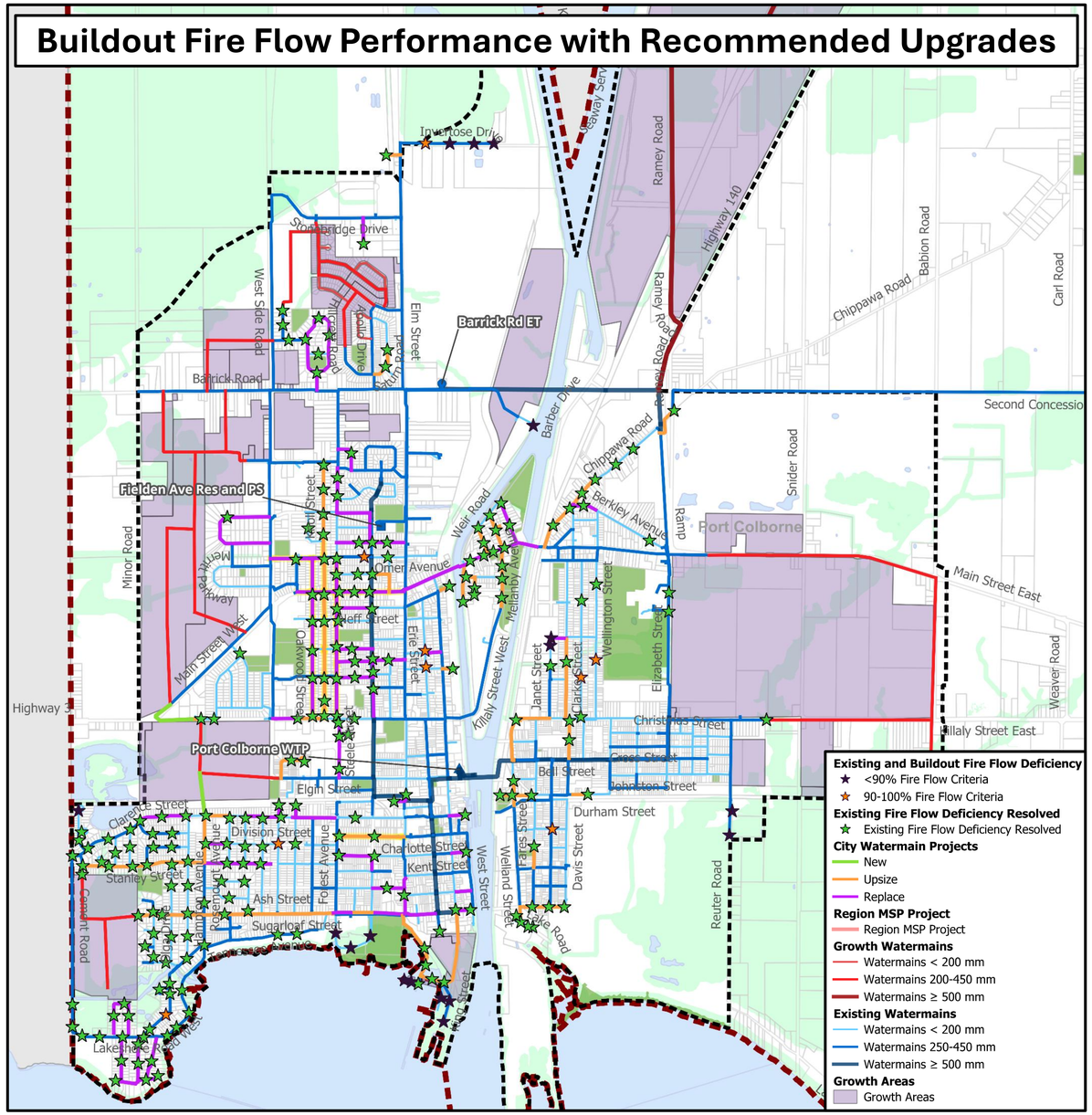
	Length (km)
New Watermains including Growth Areas	20.0
Line Existing Watermains	5.9
Upsize Existing Watermains	11.7
Watermain Replacements (potential lining based on condition)	8.5
Total	**46.1**

Water System Performance

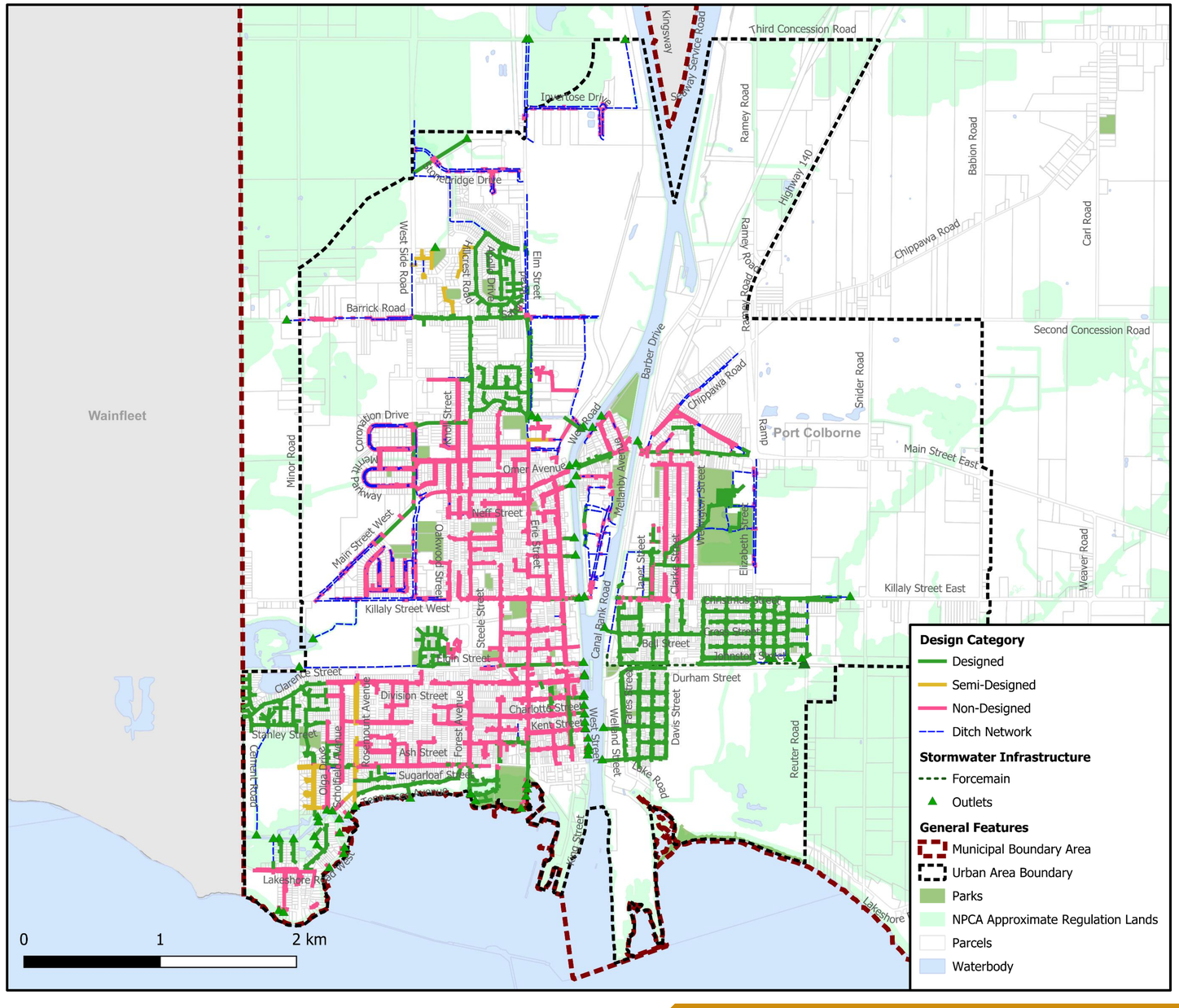
Existing System Fire Flow Performance



Buildout Fire Flow Performance with Recommended Upgrades



Stormwater System Overview



Designed Areas

- Newer stormwater system and trunk sewers
- Built to be consistent with engineering standards
- Generally meets intended design performance

Semi-Designed Areas

- Combination of designed and non-designed sections
- Portions added or modified over time
- Inconsistent design approaches across neighbourhoods

Non-Designed Areas

- System developed ad hoc over many years
- No clear underlying design standards
- Often characterized by parallel pipes and informal routing

Stormwater System Management Objectives

Designed Systems

- To meet the City's design criteria
- Identify localized upgrades and targeted investigations

Semi-Designed / Non-Designed Systems

- Risk and cost-based review
- Review both minor and major systems
- Identify areas needing major upgrades and develop a trunk servicing strategy

City Master Servicing Plan

Focuses on trunk conveyance to the outlets

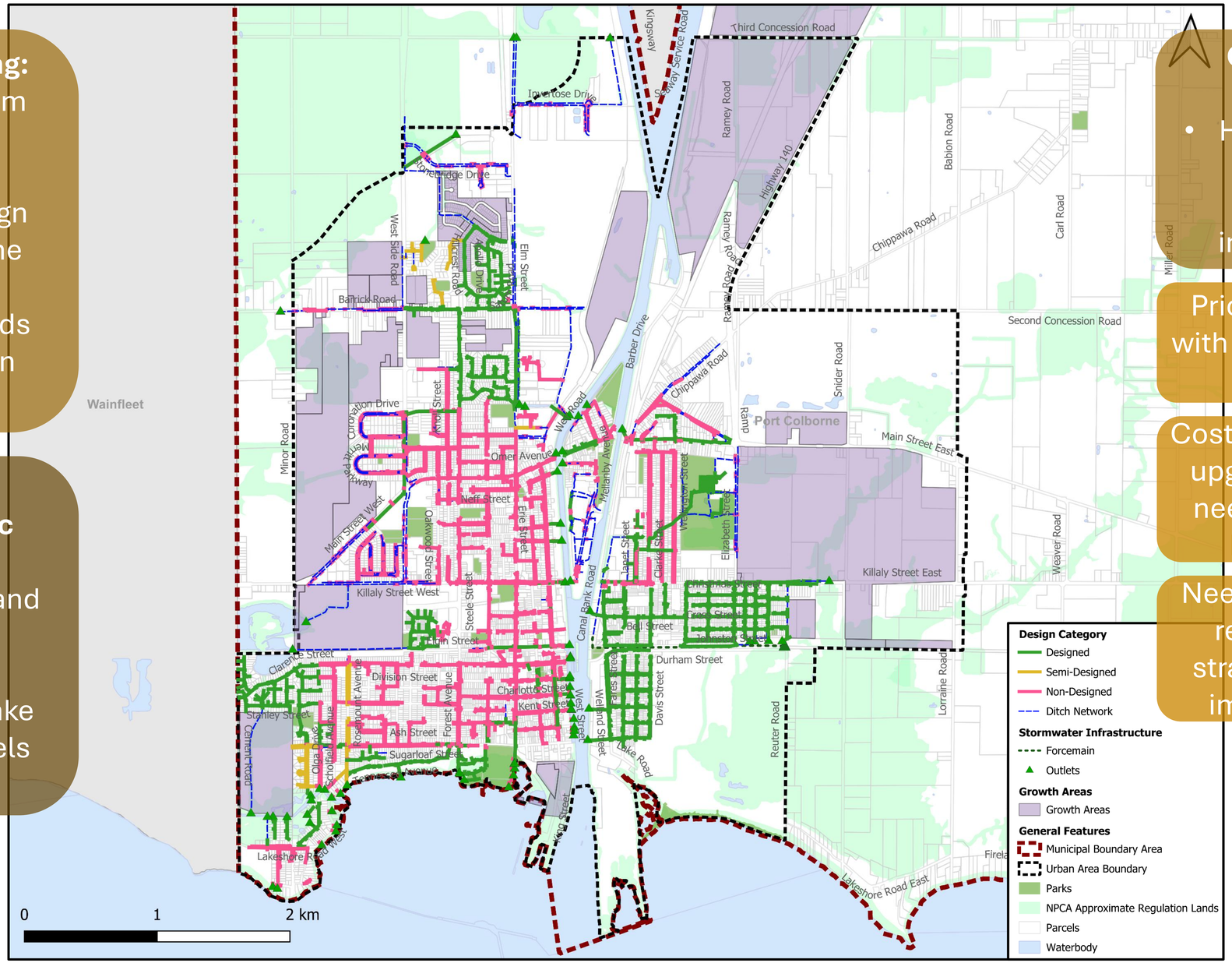
Major Deficiencies: Rebuild and redesign; requirement for major studies and investigation to confirm design

Moderate Deficiencies: Trunk upgrades prioritized; identify key investigation areas

Stormwater System Opportunities and Constraints

System Understanding:
- Uncertainty in system configuration and condition
- Mix of different design standards across the network
- Many neighbourhoods lack a formal design basis

Overland & Hydraulic Constraints
- Limited formal overland flow routes
- Outlet capacity restrictions due to lake and canal water levels



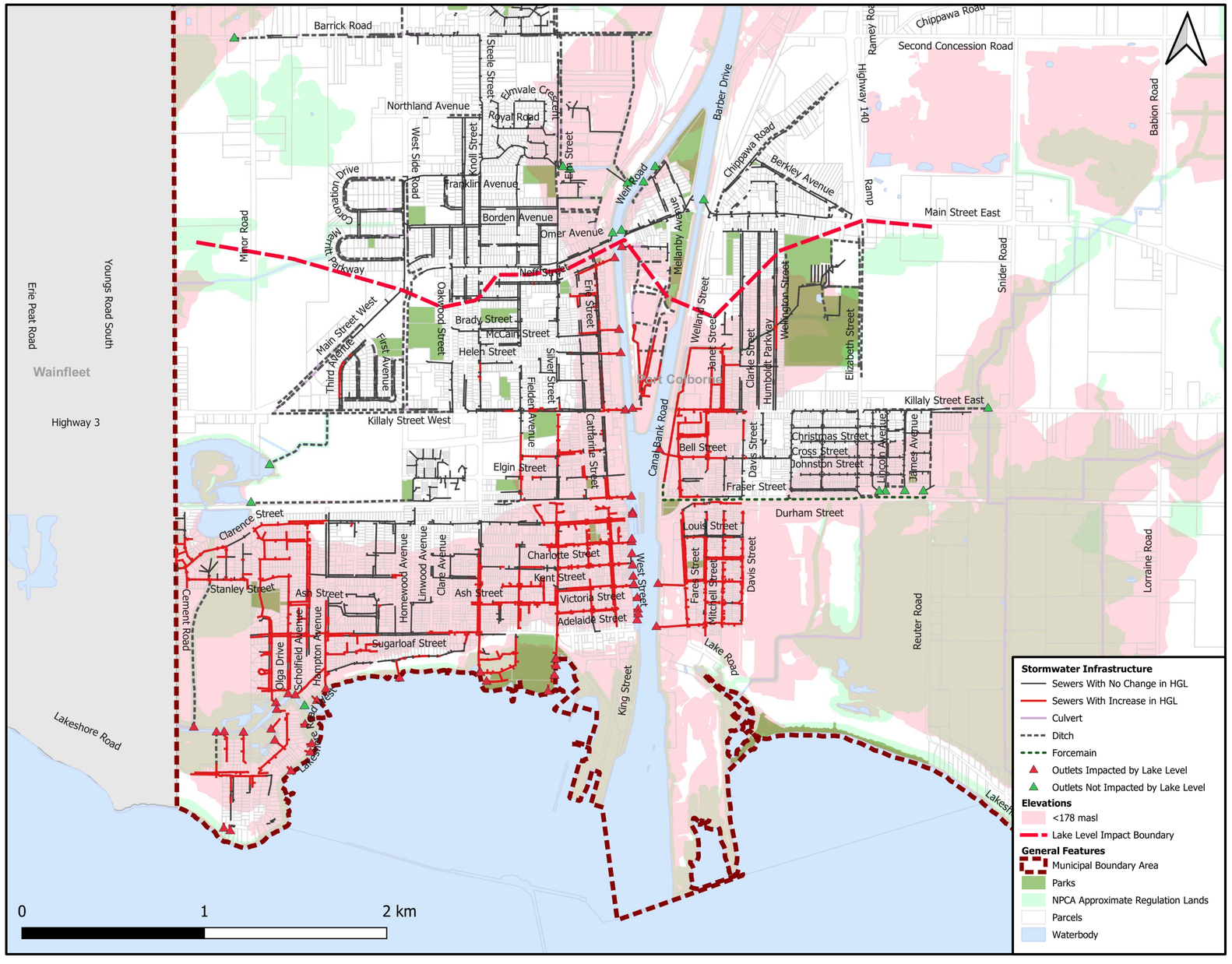
Construction & Cost Considerations
- High cost and complexity of upgrades
- Need to balance investment with priorities

Prioritize solutions in areas with known history of flooding issues

Cost to implement full system upgrades not feasible – will need to prioritize upgrades based on system risk

Need to develop a long-term rehab and replacement strategy to manage system improvements over time

Lake and Canal Level Impacts



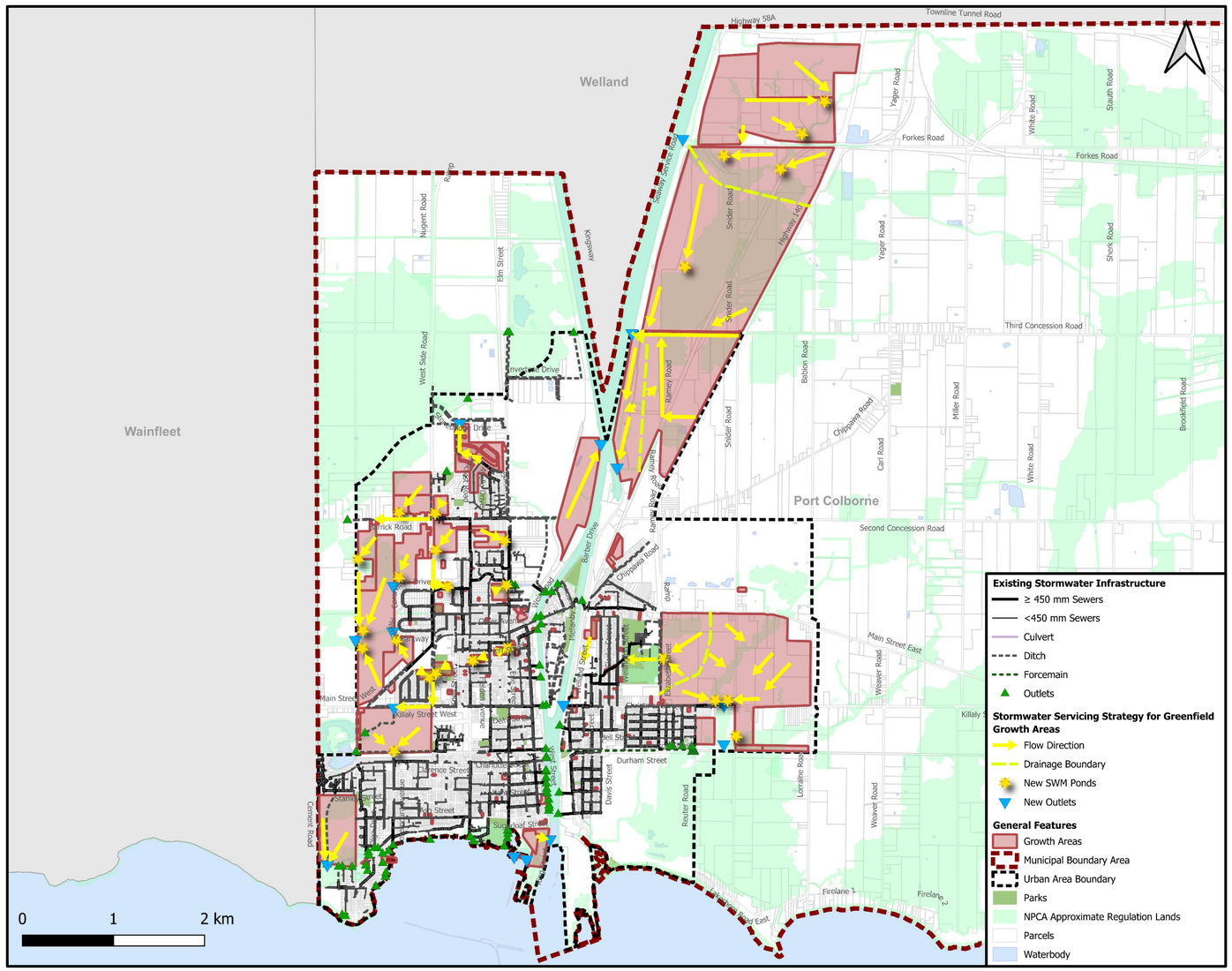
Lake Level Considerations

- Influenced by long-term seasonal trends
- Additional impacts from seiche (storm) events

Welland Canal Levels

- Water levels regulated by the Seaway
- Analysis based on reported operational levels

Growth Servicing Needs



Increasing Impervious Areas

- Growth adds more hard surfaces (roads, rooftops, driveways), which increases stormwater runoff and reduces natural infiltration

On-Site Stormwater Management

- New developments are generally required to manage runoff on-site so that post-development peak flows match pre-development conditions

Existing Built-Up Areas

- In established neighbourhoods, future growth is assumed not to increase peak flows, but may require targeted improvements or controls

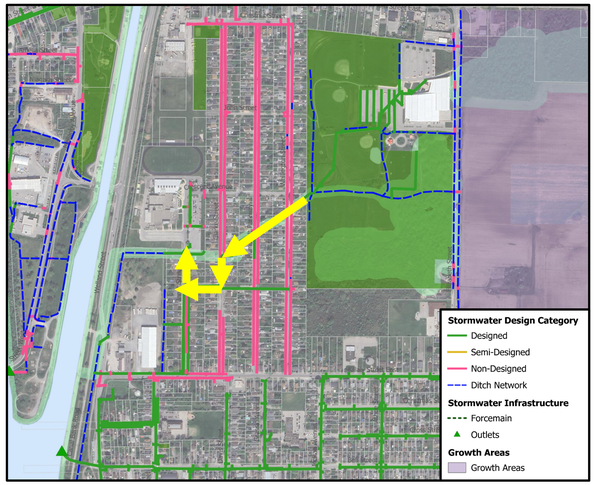
Provisional Planning for Upgrades

- Growth planning identifies:
  - General system needs
  - Potential improvement areas
  - Suitable outlets to tie into the existing stormwater network

Need for Site Specific Designs

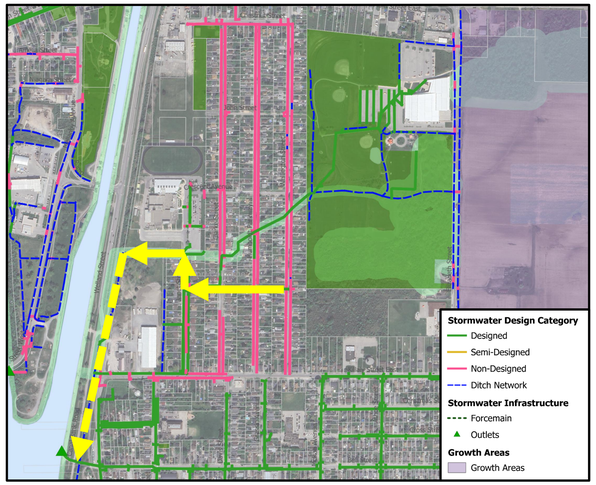
- Individual developments must complete detailed stormwater management (SWM) studies to confirm appropriate solutions to ensure compatibility with the local system

Clarke Street Drainage Servicing Concepts & Evaluation



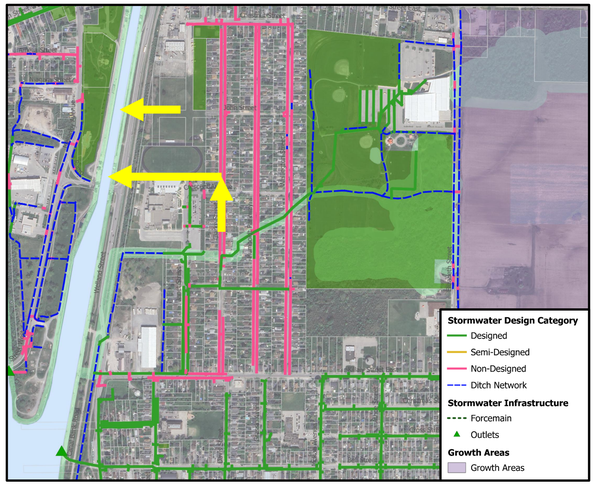
Sewer Upgrades Existing Alignment

- Utilizes the existing sewer network
- Faces access and encroachment issues
- Local sewers remain undersized for future development
- Trunk sewer still requires rehabilitation or replacement



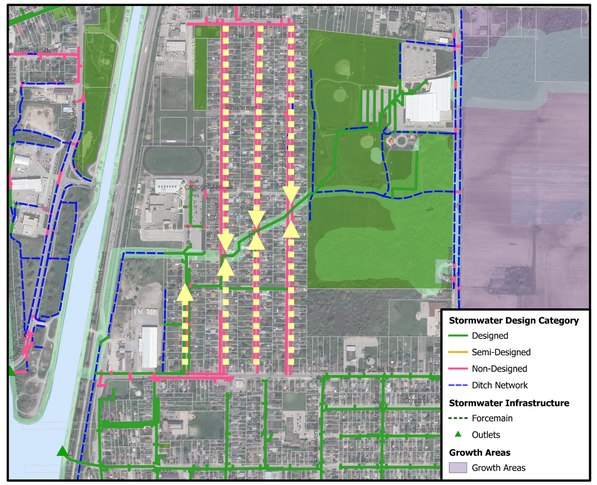
Trunk Sewer Realignment

- Shifts the trunk sewer into road rights-of-way for better access and long-term maintenance
- Enables system optimization and flow diversion opportunities
- Requires reconstruction of local sewers and may involve routing through parklands



Diversion to New Outfalls

- Potential to reduce the amount of upstream sewer upgrading and relieve downstream capacity issues
- Outfall placement options are limited by canal/lock infrastructure
- Would likely require land acquisition, further EA processes, and still does not address trunk sewer rehab needs

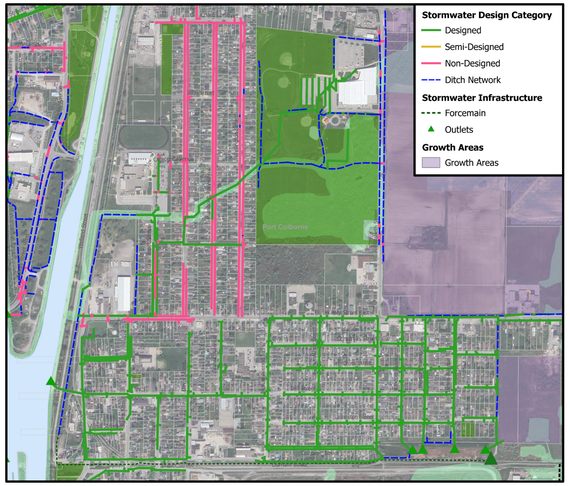


Localized Sewer Upgrades

- Addresses localized capacity issues at lower cost
- Does not address broader system wide issues

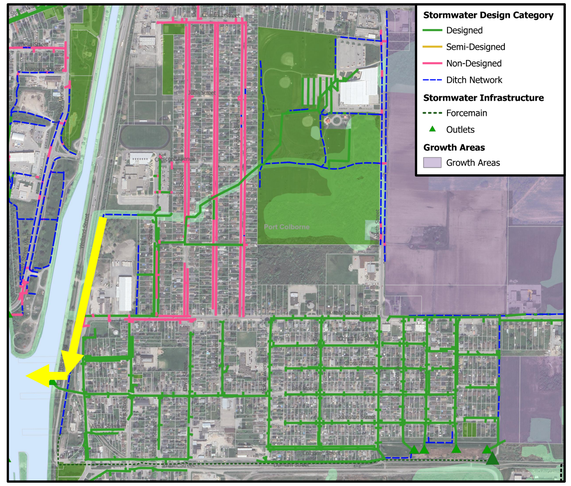
	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
Sewer Upgrades Existing Alignment	Medium	Medium	High	Medium	Not Recommended: Does not address long-term O&M issues of the existing trunk sewer and provides limited opportunity to address existing local system deficiencies
Trunk Sewer Realignment	High	High	High	High	**Recommended:** Addresses the long-term O&M issues for the existing trunk sewer and provides opportunity to reconfigure local system
Diversion to New Outfalls	Medium	Low	Medium	Medium	Not Recommended: Due to technical challenges related to securing and constructing a new outlet; does not address long-term O&M issues of existing trunk sewer
Localized Sewer Upgrades	Low	Low	High	High	**Recommended:** To address localized issues

Clarke Street Outlet Servicing Concepts & Evaluation



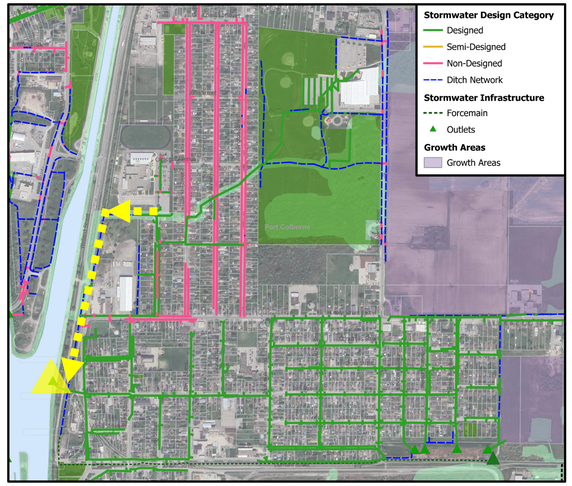
Status Quo

- Maintains the existing system with minimal disruption
- Relies on current storage to manage peak flows
- Does not provide protection against high lake levels



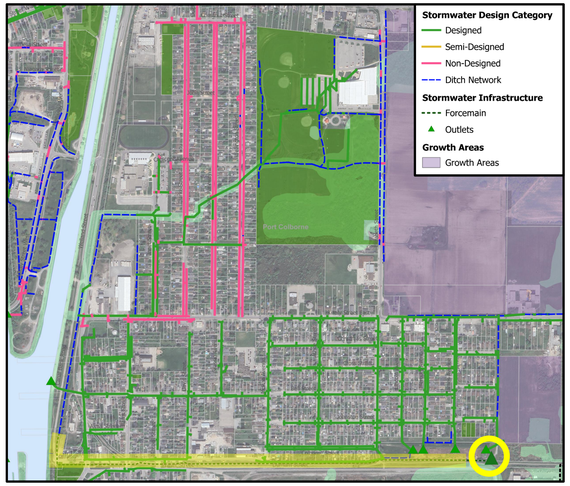
Capacity Upgrades

- Increases conveyance to reduce flooding risk
- Does not protect against high lake levels
- Requires coordination of works in the canal



Flood Protection & Storage Improvements

- Provides protection against high lake levels
- Increases storage to manage peak flows and/or flows during high lake levels
- May involve environmental impacts from canal bank/ditch work and requires coordinated construction in the canal

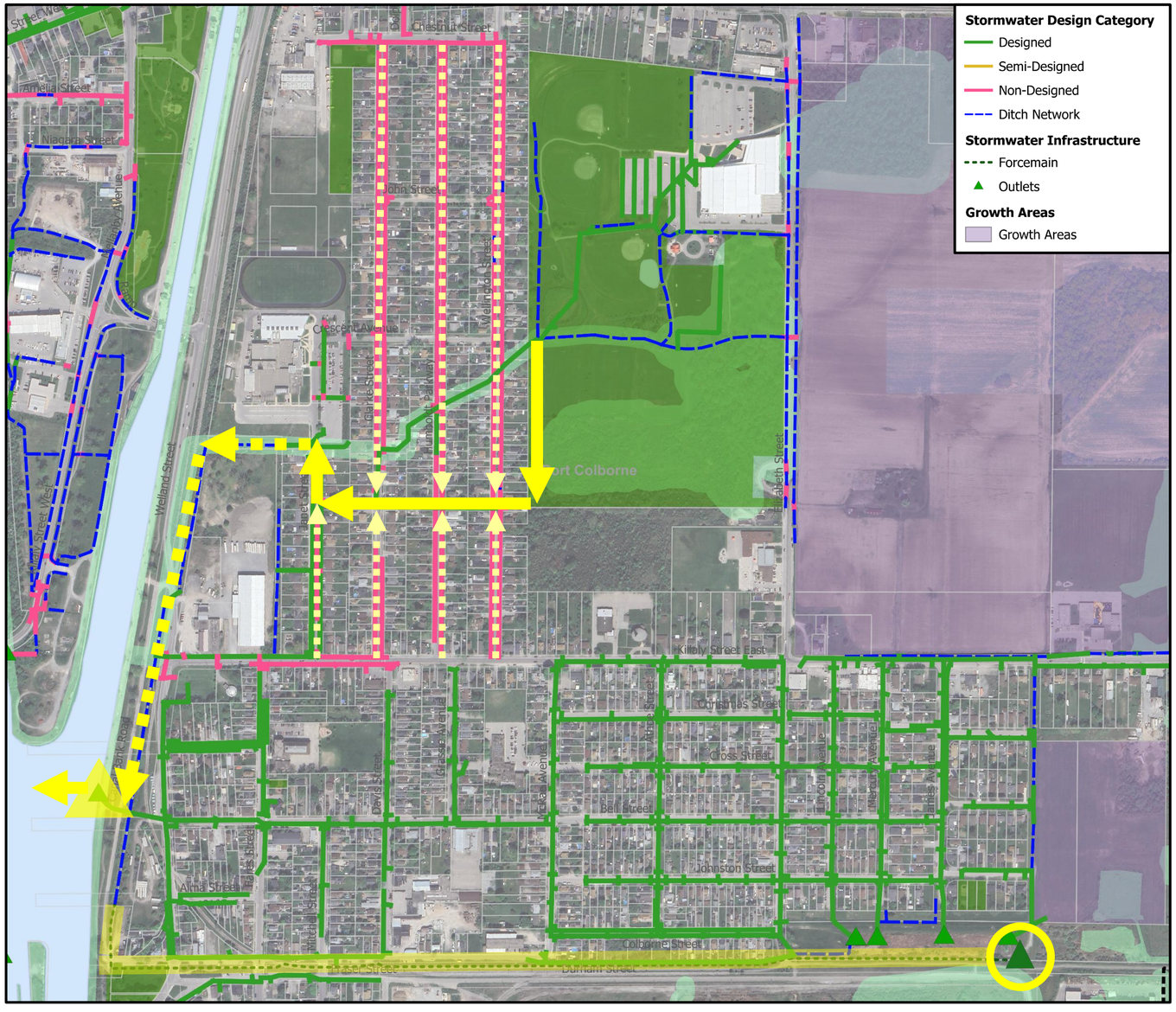


Real-time Control

- Uses operational controls to optimize existing infrastructure at relatively low cost
- Minor increase in flooding risk in the Elizabeth Street Area

	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
Status Quo	Low	Low	High	Low	Not Recommended: Does not address flooding issues
Capacity Upgrades	Medium	Medium	Medium	Medium	**Recommended as part of Hybrid Solution:** Minimizes risk of flooding, and ensures storage is available during high lake levels
Flood Protection & Storage Improvements	Medium	High	Low	High	**Recommended as part of Hybrid Solution:** Best protection against high lake levels
Real-time Control	Medium	Medium	High	High	**Recommended as part of Hybrid Solution:** Low-cost solution and provides additional benefit.

Clarke Street Preliminary Preferred Servicing Strategy



Trunk Sewer Realignment & System Reconstruction

- Realign the trunk sewer along **Russell Avenue**
- Fully reconstruct the local sewer network north of **Killaly Street** to support future growth and reliability.

Sewer Investigation & Inspection

- Conduct detailed inspection and condition assessments of existing sewer infrastructure to target rehabilitation needs and validate design assumptions

Localized Capacity Enhancements

- Implement targeted sewer upgrades in the **Bell Street Area** to resolve localized capacity bottlenecks

Hybrid Outlet Improvements

- Increase outlet capacity to better manage system flows
- Integrate flood-protection measures to guard against high lake levels

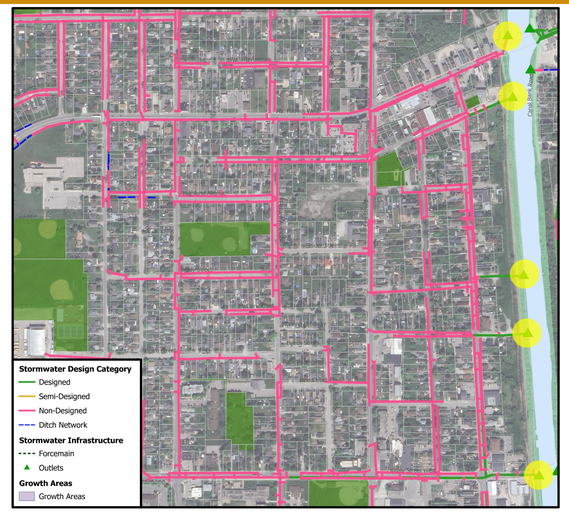
Canal Bank Channel Rehabilitation

- Rehabilitate and strengthen the drainage channel along **Canal Bank Road**
- Where feasible, expand storage capacity through in-ditch improvements or retention features

Real-Time Control Strategy

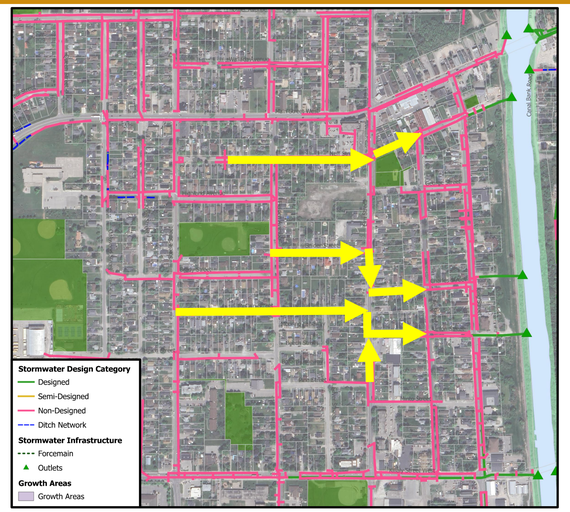
- Install real-time control mechanisms at **Johnston Pump Station** to delay pumping when canal storage in use

Elm Street & King Street North Servicing Concepts & Evaluation



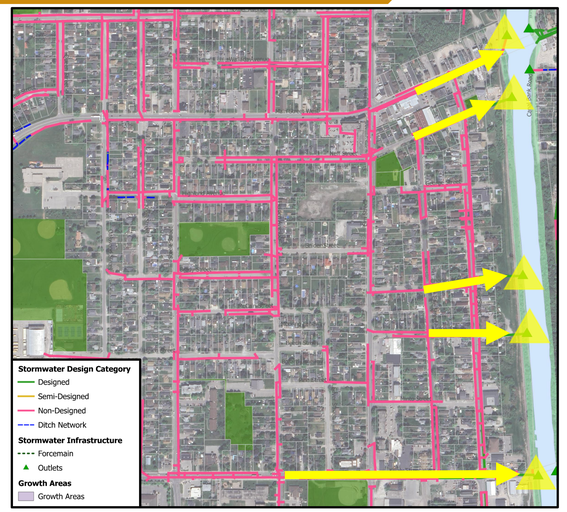
Outlet Flood Protection

- Inspect and rehab outlets
- Partial protection from high lake levels
- Reduces backwater effects at the outlet
- No increase in system capacity
- Still vulnerable during extreme lake conditions
- Requires canal-side construction



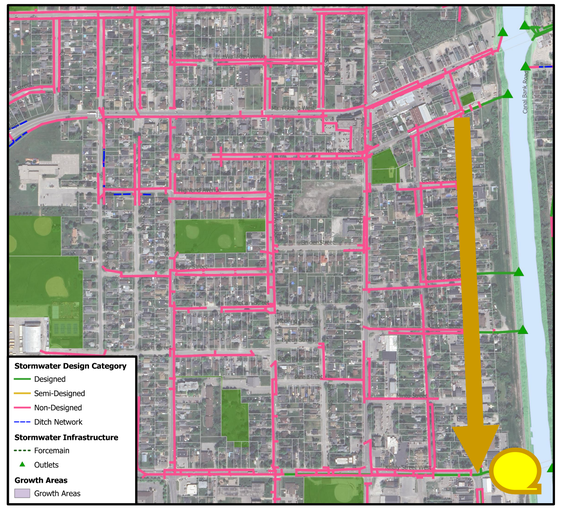
Localized Sewer Upgrades

- Leverage existing outlets and capacity
- Improve conveyance and capacity
- Addresses localized capacity issues
- Limited by existing outlet capacity
- No protection from high lake levels



Outlet Capacity Upgrades

- Increase outlet capacity
- Paired with local network improvements
- Can add storage benefits with flood protection measures
- Outlet options constrained by canal lock locations
- Still susceptible to high lake levels
- Requires coordinated work in the canal

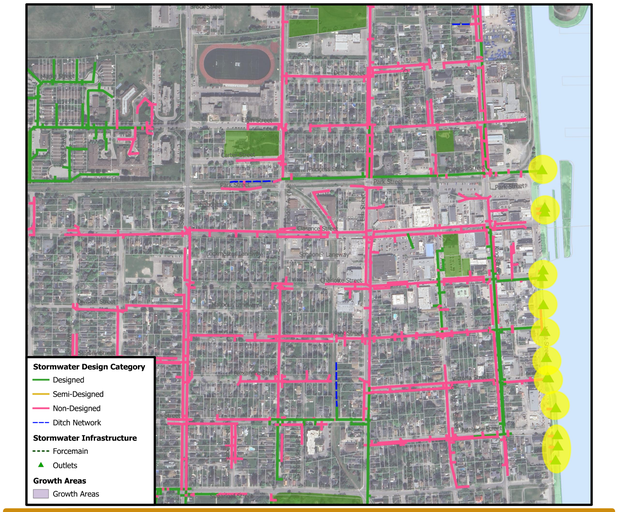


Diversion and Pumping

- New trunk sewer and pump station
- Pump operates during high lake levels
- Protection from high lake levels
- Substantial improvement to overall system performance
- Requires significant new infrastructure
- Higher long-term operating costs due to pumping

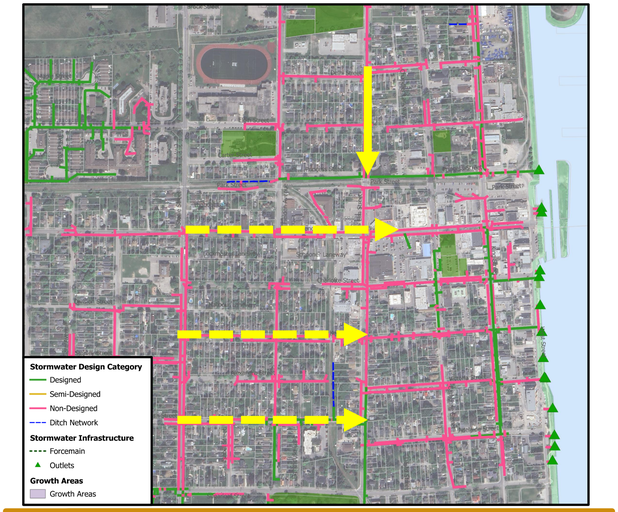
	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
Outlet Flood Protection	Low	High	Medium	High	**Recommended as part of Hybrid Solution:** Provides partial protection against high lake levels
Localized Sewer Upgrades	Low	High	High	High	**Recommended as part of Hybrid Solution:** Targeted upgrades to address highest flood risk areas
Outlet Capacity Upgrades	Medium	Medium	Medium	Medium	Not Recommended: Outlets sufficiently sized to support existing design objectives. Upsizing provides marginal benefit
Diversion and Pumping	High	Low	Low	Low	Not Recommended: High implementation and operational cost.

Elm Street & King Street South Servicing Concepts & Evaluation



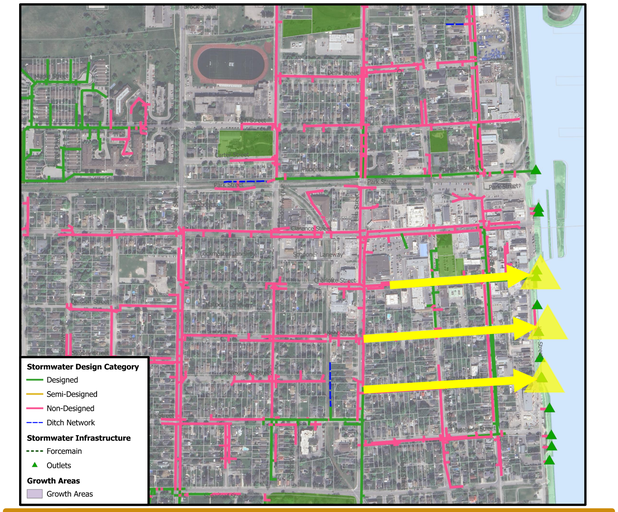
Outlet Flood Protection

- Inspect and rehab outlets
- Partial protection from high lake levels
- Reduces backwater effects at the outlet
- No increase in system capacity
- Still vulnerable during extreme lake conditions
- Requires canal-side construction



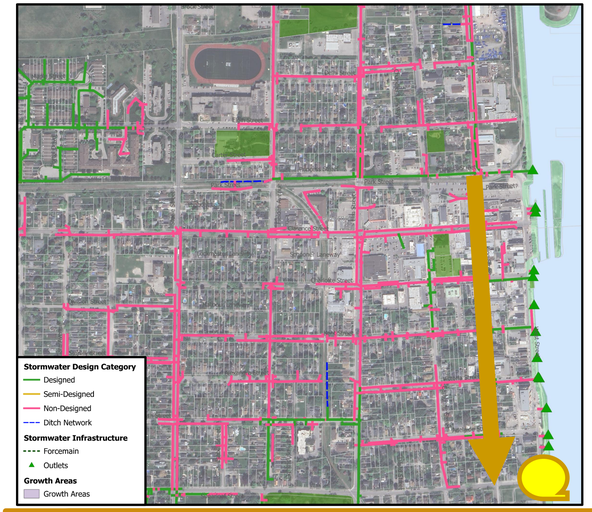
Redirection of Drainage Areas

- Leverage existing outlets and capacity
- Improve conveyance and capacity
- Addresses localized capacity issues
- Limited by existing outlet capacity
- No protection from high lake levels



Outlet Capacity Upgrades

- Increase outlet capacity
- Paired with local network improvements
- Can add storage benefits with flood protection measures
- Outlet options constrained by canal lock locations
- Still susceptible to high lake levels
- Requires coordinated work in the canal



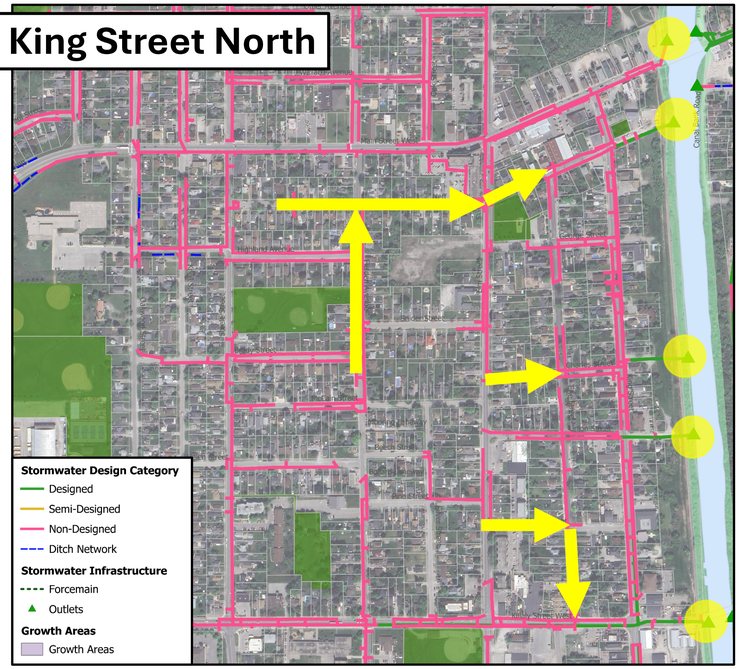
Diversion and Pumping

- New trunk sewer and pump station
- Pump operates during high lake levels
- Protection from high lake levels
- Substantial improvement to overall system performance
- Requires significant new infrastructure
- Higher long-term operating costs due to pumping

	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
Outlet Flood Protection	Low	High	Medium	High	**Recommended:** Provides partial protection against high lake levels
Redirection of Drainage Areas	Medium	Medium	High	High	Not Recommended: Limited by capacity of existing drainage network
Outlet Capacity Upgrades	Medium	Medium	Medium	Medium	Not Recommended: Outlets sufficiently sized to support existing design objectives. Upsizing provides marginal benefit
Diversion and Pumping	High	Low	Low	Low	Not Recommended: High implementation and operational cost.

Elm Street and King Street Preliminary Preferred Strategy

Elm Street & King Street North



Sub-Trunk Improvements

- Construct a new trunk sewer along **Neff Street** to enhance system capacity and connectivity
- Build a new trunk sewer along **Field Avenue** to support future growth and reliability

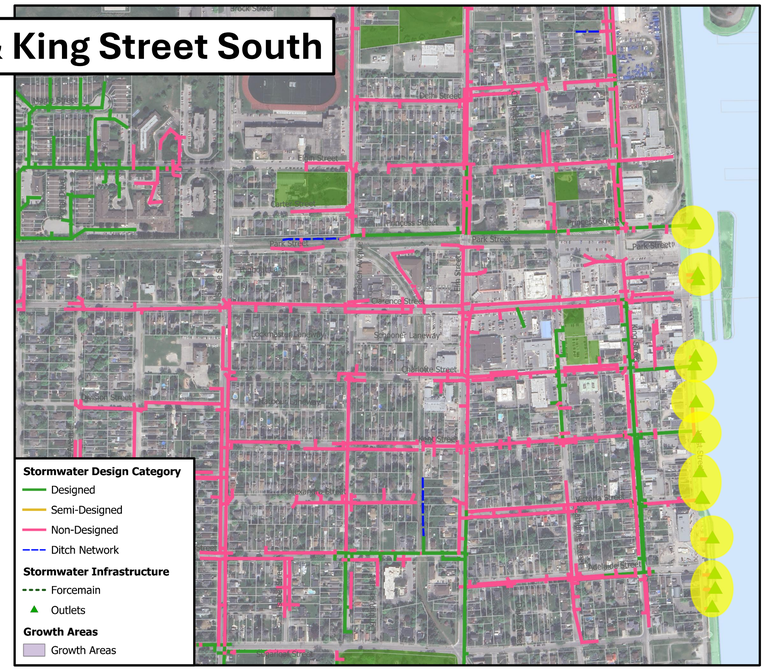
Local Sewer Improvements

- Implement local sewer improvements on **Charles Street** to address existing deficiencies
- Upgrade local sewers on **Minto** and **Erie Streets** to improve flow and service reliability

Outlet Improvements

- Enhance outlet performance through inspection, rehabilitation, and flow protection measures

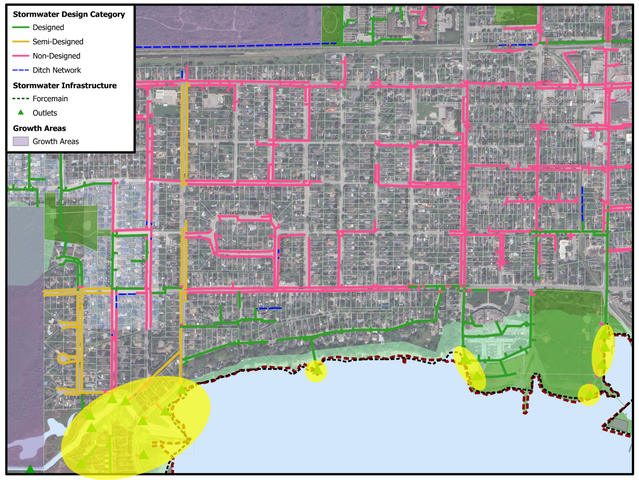
Elm Street & King Street South

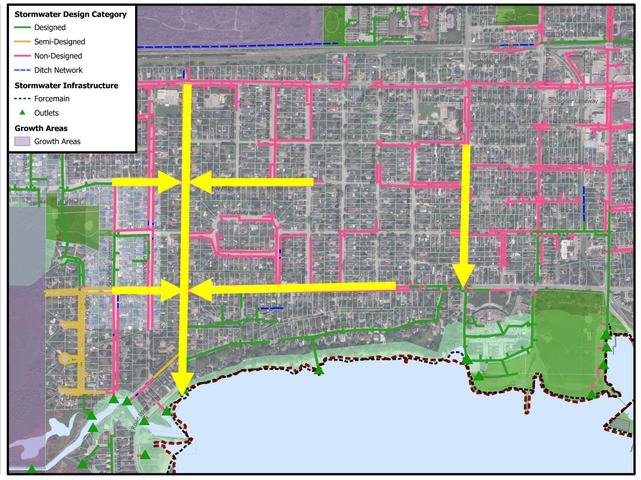


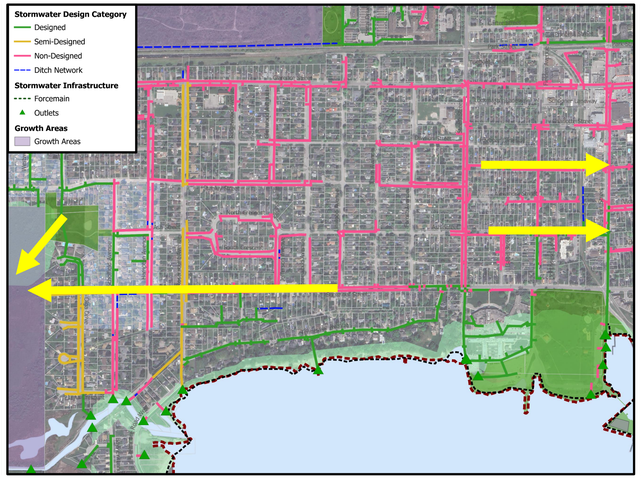
Outlet Improvements

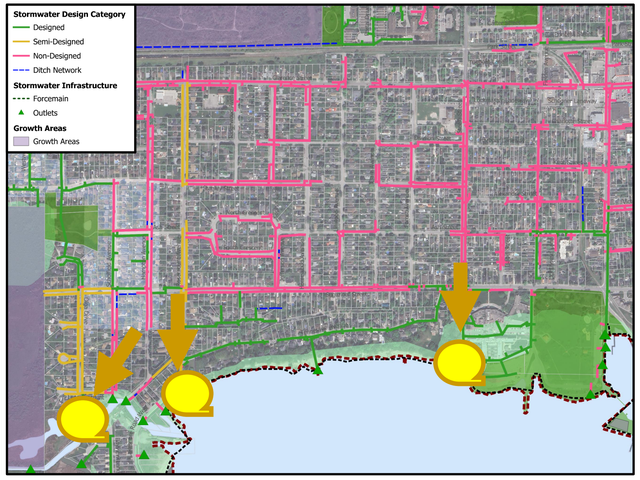
- Inspect and rehabilitate outlets to maintain structural integrity and hydraulic performance
- Implement flow protection measures to reduce erosion and enhance system reliability

Sugarloaf Area Servicing Concepts & Evaluation









Outlet Flood Protection

- Flood protection at outlets to reduce high lake level impacts
- Inspect and rehabilitate outlets to maintain performance
- Requires lakeshore work
- Does not increase system capacity for growth areas

Improve Conveyance to Existing Outlets

- Construct new trunk sewers and improve outfalls to increase capacity
- Address existing system condition and align with planned road improvements
- Supports future growth areas
- May require substantial upgrades and lakeshore work

Divert Flows to Other Catchments

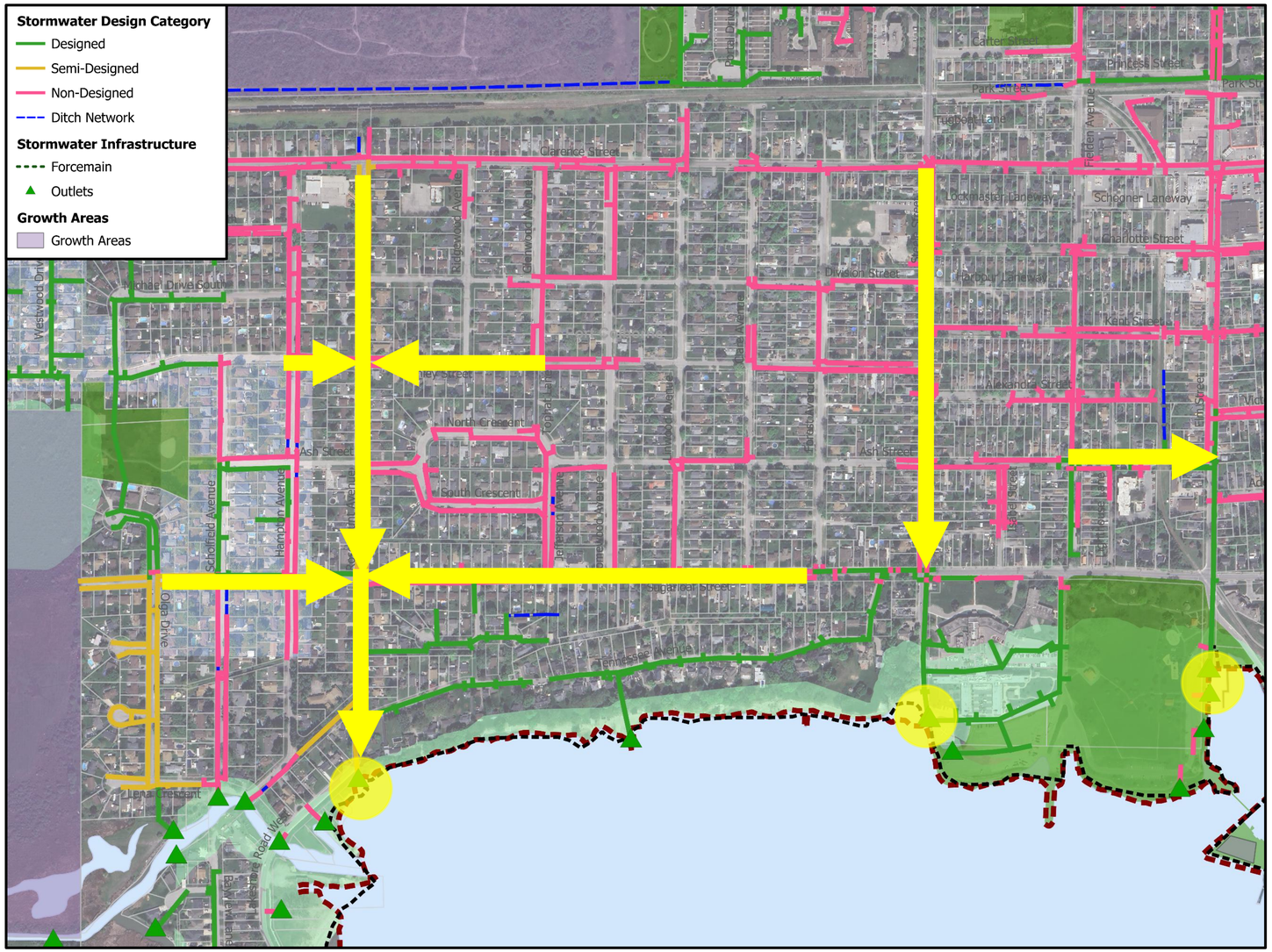
- Enhance capacity in undesigned systems to better serve local areas
- Divert minor flows to East and West catchments to reduce trunk demand
- Limited effect on overall system capacity
- Timing and downstream development may constrain effectiveness

Diversion and Pumping

- Intercept and divert flows along Sugarloaf to the west into new development areas
- Install pump stations to outfalls to operate during high lake levels
- Can be combined with conveyance upgrades to improve overall system performance
- Requires significant infrastructure investment and increases operational costs

	Financial	Technical	Environmental	Social & Cultural	Recommended Alternative
Outlet Flood Protection	Low	Medium	Medium	High	**Recommended as part of Hybrid Solution:** Provides partial protection against high lake levels
Improve Conveyance to Existing Outlets	Medium	High	Medium	Medium	**Recommended as part of Hybrid Solution:** Address existing system capacity issues and provides capacity for growth areas
Divert Flows to Other Catchments	Low	Medium	Medium	Medium	Not Recommended: Trunk upgrades still required and triggers additional downstream upgrades. Limited by the timing of the development
Diversion and Pumping	High	Low	Low	Low	Not Recommended: High implementation and operational cost

Sugarloaf Area Preliminary Preferred Servicing Strategy



Greenfield Growth Servicing

- Provide an outlet to the development area north of **Clarence Street**
- Provide capacity to allow partial diversion of flow away from Quarry Ponds

New Trunk Network and Outlets

- Construct new trunk sewers along **Rosemount Avenue**, **Sugarloaf Street**, and **Stanley Street** to improve system capacity and reliability
- Provide upgraded outlets to support existing and future drainage areas

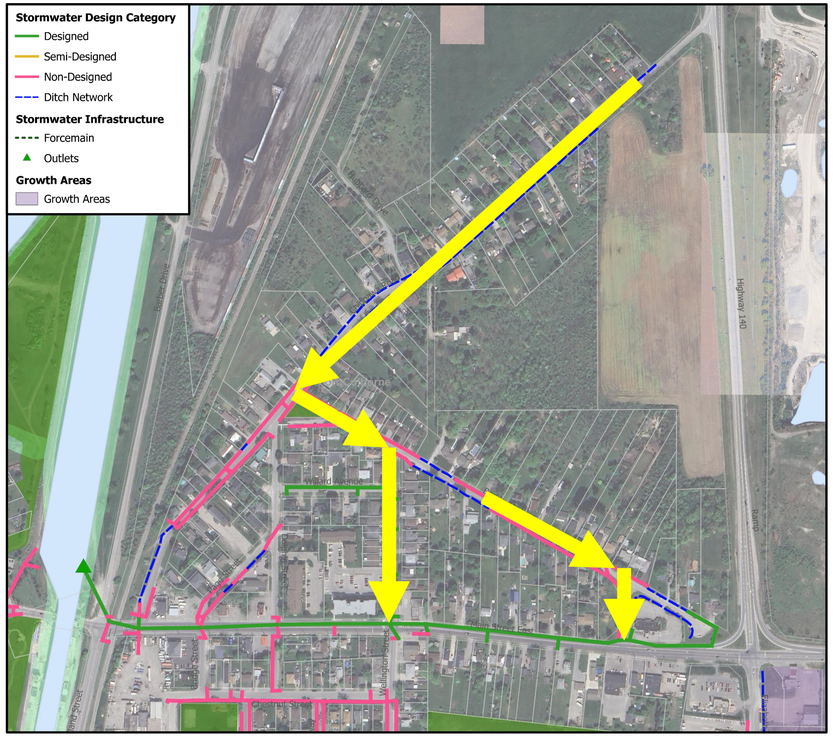
Local Trunk Upgrades

- Upgrade local trunk sewers on **Steele Street** and **Ash Street** to address current deficiencies and improve flow performance

Outlet Improvements

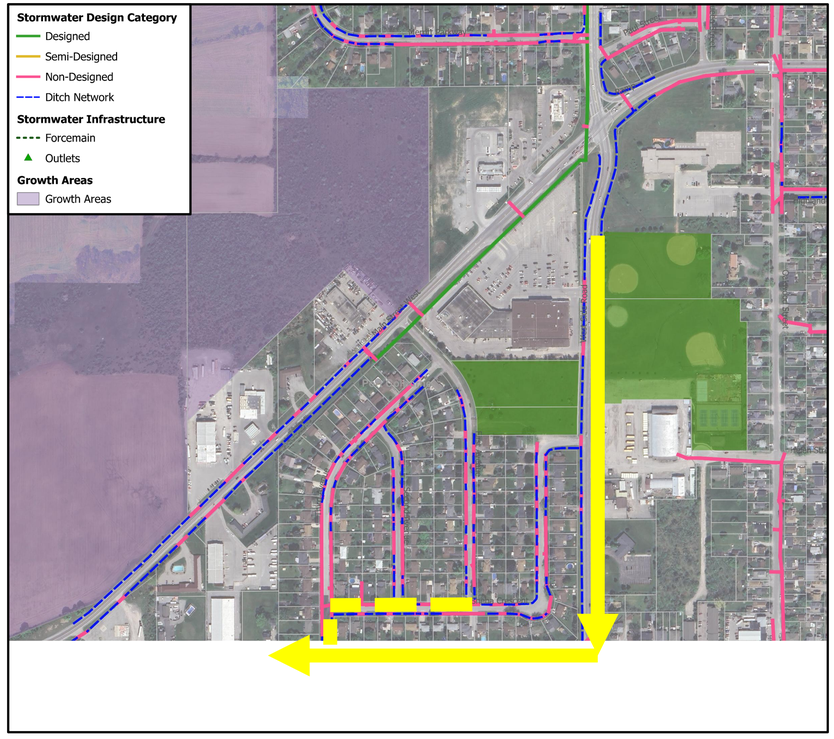
- Inspect and rehabilitate existing outlets to maintain structural integrity
- Implement flow protection measures to reduce erosion and improve system reliability

Local Stormwater System Upgrade Needs



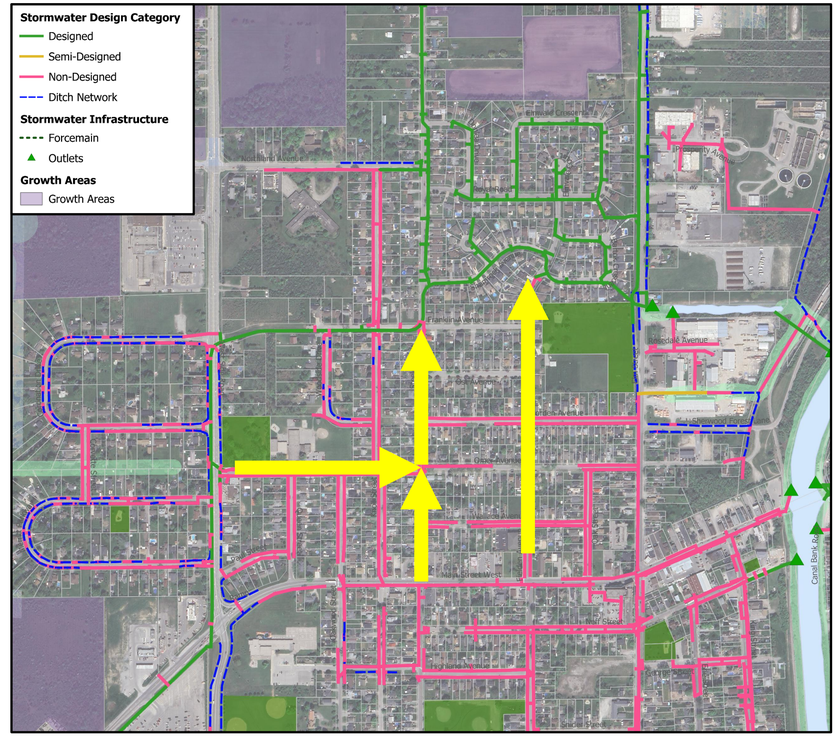
Chippawa Road Area

- Redirect flows from Chippawa Road to the Wellington Street trunk sewer
- Upgrade the Wellington Street sewer to provide adequate conveyance
- Implement drainage improvements along Chippawa Road and Berkley Avenue



Third Avenue Area

- Investigate and confirm sizing requirements for local culverts and roadside ditches
- Upgrade sewers and ditch drainage along Killaly Street and West Side Road to improve conveyance
- Implement targeted drainage improvements on Third Avenue and Sheba Crescent
- Coordinate upgrades with planned growth to ensure long-term system performance



Omer Avenue Area

- Construct new sub-trunk sewers on Fielden Avenue and Omer Avenue/Steele Street to expand conveyance capacity
- Implement partial flow re-direction to relieve constraints and improve performance along Main Street
- Coordinate timing with planned wastewater upgrades to maximize corridor efficiency

Thank you for your participation!

Project Next Steps

- Confirm Preferred Servicing Strategies
- Develop Capital Program and Costing
- Coordination of Water, Wastewater and Stormwater Programs
- Develop Project Implementation Plan
- Council Presentation
- Project Notice of Completion

If you have questions, comments, or want to hear more about this project, let us know!

Joe Colasurdo C.E.T
Manager of Strategic Projects
Project Lead, City of Port Colborne
(905) 228-8135
Joe.Colasurdo@portcolborne.ca

Julien Bell, P.Eng.
Consultant Project Manager
Project Lead, Agile Infrastructure
(416) 254-6247
Julien.Bell@agileinfrastructure.ca

Appendix E – Consultation Records

November 14, 2025

Policy Name: Pollution Prevention Control Plan and Water and Stormwater Master Servicing Plan
DOCA Project Number: 2025-1162 and 2025-1163
Agent: City of Port Colborne

Dear Joe Colasurdo,

This letter is to confirm receipt of the correspondence sent by the City of Port Colborne, on November 13, 2025, regarding the Pollution Prevention Control Plan and the Water and Stormwater Master Servicing Plan.

The Mississaugas of the Credit First Nation (MCFN) are the Treaty Holders of the land on which the City of Port Colborne is located – specifically, the Between the Lakes Treaty #3 (1792). The MCFN holds Indigenous and Treaty Rights specific to this location and its environs. The Department of Consultation and Accommodation (DOCA) is designated by the MCFN to handle consultation matters on its behalf.

The DOCA consultation team has filed the correspondence identified above. **We have no questions or comments for you at this time.** DOCA expects to be notified of any and all future Plan updates and/or changes, ad review the draft plans when available.

If you have any questions for the DOCA consultation team, please feel free to contact us.

Thank you,

Megan DeVries

Megan DeVries
Manager of Consultations
Department of Consultation and Accommodation
Phone: 905-768-4260
Email: megan.devries@mncfn.ca

CC
Lindsay Wong, Manager of Environment, lindsay.wong@mncfn.ca
Abby (LaForme) Lee, Consultation Coordinator, abby.laforme@mncfn.ca

SIGN-IN SHEET

Name (Organization if applicable)	Address	Email Address	Would you like to be added to the contact list? (✓/X)
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓
[redacted]	[redacted]	[redacted]	✓

Aside from personal information, all comments will form part of the study's public record. The study is being conducted according to the requirements of the Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

SIGN-IN SHEET

Name (Organization if applicable)	Address	Email Address	Would you like to be added to the contact list? (✓/X)
[redacted]	[redacted]	[redacted]	N
[redacted]	[redacted]	[redacted]	Y
[redacted]	[redacted]	[redacted]	YES
[redacted]	[redacted]	N/A	
[redacted]	[redacted]	[redacted]	Y
[redacted]	[redacted]	[redacted]	N.
[redacted]	[redacted]	[redacted]	X
[redacted]	[redacted]	[redacted]	

Aside from personal information, all comments will form part of the study's public record. The study is being conducted according to the requirements of the Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

City of Port Colborne Water and Stormwater Master Plan
Public Information Centre
December 3, 2025

COMMENT SHEET

Name: [redacted]

Mailing Address: [redacted]

Email Address: [redacted]

Please print all responses. Use back of page if necessary.

SUGGESTIONS:

UTILIZE GRAVITY WHEREVER POSSIBLE.
ie: STORM SEWER CONVEYANCE TO NORTH OF WEIR (even from LOW AREAS JUST NORTH OF SUGARLOAF ST.)

ENSURE STORM SEWER OUTLETS HAVE "STORMCEPTOR" OUTLET F.O.G. PROTECTION.

Please return the comment sheet at the PIC, or submit it by mail or email by **December 17th, 2025** to either:

Joe Colasurdo, C.E.T.
Manager of Strategic Projects
Project Lead, City of Port Colborne
(905) 228-8135
Joe.Colasurdo@portcolborne.ca

Julien Bell, P.Eng.
Consultant Project Manager
Project Lead, Agile Infrastructure
(416) 254-6247
Julien.Bell@agileinfrastructure.ca

Aside from personal information, all comments will form part of the study's public record. The study is being conducted according to the requirements of the Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Appendix F – Notice of Completion

City of Port Colborne
Notice of Study Completion
Water and Stormwater Master Servicing Plan

The City of Port Colborne has completed the Water and Stormwater Master Servicing Plan Study, which has:

- Reviewed existing condition and performance of the current water and stormwater systems.
- Considered the impacts of growth will have on the water and stormwater systems.
- Identified and assessed strategies for meeting existing and future water and stormwater servicing needs.
- Established an overall management strategy and vision for meeting short and long-term water and stormwater infrastructure needs through to the year 2051 and beyond.

The City will use the Water and Stormwater Master Servicing Plan's resultant Capital Program and Action Plan to inform future water and stormwater system capacity allocations, infrastructure upgrades, and financial planning decisions.

The study was completed in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Planning, satisfying Phases 1 and 2 of the Class EA processes.

If you are interested in providing written comments, you may contact our project team directly using the contact information below by December 31, 2026. Following this date, the Master Servicing Plan will be reviewed and revised, taking into consideration the comments that are received from the public.

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City of Port Colborne
1 Killaly Street West
Port Colborne, ON L3K 6H1
905-228-8135
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All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential.

This notice was first issued in November 2026.

Appendix G – 30-Day Public Review