

Notice of Comments Received

Following Completion of the Public Review Period

The Regional Municipality of Niagara filed the 2021 Water and Wastewater Master Servicing Plan Update report for the 45-day public review period From Thursday June 22, 2023 to Monday August 7, 2023.

All comments received were tracked in the attached summary table and responses were issued where required. A copy of all comments and responses are attached in Volume 5. Revisions to the 2021 Water and Wastewater Master Servicing Plan Update include the following:

Volume 3

Modifications to table headings for the Comparison of Alternatives including Table 3.A.12, Table 3.B.12, Table 3.E.12, and Table 3.F.12 to identify the Preferred Alternative within the table heading.

Figure captions were updated to address numbering and naming inconsistencies.

Volume 4

Text updated in Section 4.1.6 to address formatting error.

Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon.

Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter.

Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.

Figure captions were updated to address numbering and naming inconsistencies.

Volume 5

Record of consultation dates updated.

Contact list updated in Appendix B.

Date Received (MM/DD/YYYY)	Contact Name / Organization	Comment	Response / Action	Response Date (MM/DD/YYYY)	Status	Related ESR Updates
6/1/2023	Newspaper Ads	Notice of Study Completion and Public Review ads appearing in newspapers.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/20/2023	Project Study Contact List	Notice of Study Completion sent by GM BluePlan on behalf of Niagara Region to project stakeholders (see Appendix V4.2 Contact List) using mass email newsletter.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/20/2023	Niagara Peninsula Energy	Niagara Peninsula Energy acknowledged receipt of Notice of Study Completion.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/22/2023	Indigenous Groups	Reminder email sent from GMBP to the following indigenous groups separate from mass email to notify them that the document is available for review from June 22 to August 7. - Haudenosaunee Development Institute (HDI) - Mississaugas of the Credit First Nations (MCFN) - Six Nations of the Grand River (SNGR)	- No action required	6/22/2023	Complete	- Record of consultation provided in Volume 5
6/27/2023	(Resident)	Resident brought up the following concerns: - Potential underestimation of future sewage flow from Stevensville-Douglastown Lagoons, the new Spring Creek Estates development, and major commercial development in the Netherby and Townline Rd area of Fort Erie. - Sewage redirection from Stevensville-Douglastown lagoons being reconsidered after being identified as not practical or cost effective in the 2016 MSPU. Resident inquired about the following: - Is directing sewage from the Stevensville-Douglastown lagoons to the new SNF WWTP practical and cost effective or not? Resident provided estimate for amount of sewage projected to flow from the proposed commercial development in the Towline and Netherby roads area into the Stevensville-Douglastown sewage lagoons to assist in available capacity projections for the sewage lagoons.	- Region responded with information on growth projections, analysis and evaluation process for the Stevensville and Douglastown lagoons and the recommended projects to be undertaken as a result of the Master Servicing Plan	11/10/2023	Complete	- No further action required.
6/29/2023	(Resident)	Resident brought up the following concerns: - Trouble accessing documents from project website for review.	- Project Manager (Ilija S.) was able to direct (Resident) to download the appropriate document.	6/29/2023	Complete	- Record of consultation provided in Volume 5
7/7/2023	Mr. Moir (Urbantech)	Mr. Moir reached out via contact form on the project website and inquired about the northern reach property in the Town of Welland and wanted to speak about existing sewer capacity at area pump stations.	- Project Manager (Ilija S.) directed Mr. Moir to download and review the project web page and documents	7/10/2023	Complete	- No further action required.
7/31/2023	MECP Project Review Unit	The project team received detailed MECP Project Review Unit comments (see below)	- Documents were revised after the review period based on comments received. See notes below.	N/A	Complete	- See notes below
7/31/2023	MECP Project Review Unit Comment 1	Volume 4 (Wastewater Master Servicing Plan Update) - Introduction, Section 4.1.6 -Grammatical errors where a space should be added in between the words in bold and the rest of the bullet point. For example, there should be a space between "Strategy and "Without" on the second bullet point of this section.	- Section 4.1.6 updated to address formatting concerns.	N/A	Complete	- Text updated in Section 4.1.6 to address formatting errors
7/31/2023	MECP Project Review Unit Comment 2	Appendix V5-B (Public and Agency Consultation) Shareholder Contact List in Volume 5 of the MSP should be revised to have the correct titles for stakeholders. In this case Joan Del Villar Cuicas of the MECP is mislabeled as 'Project Information Form - Online Submission' and should be revised to Regional Environmental Planner. The table should be reviewed to ensure there are no other errors.	- Contact list list updated in Volume 5, Appendix B.	N/A	Complete	- Contact list updated in Volume 5, Appendix B
7/31/2023	MECP Project Review Unit Comment 3	Volume 3 (Comparison of Alternatives) It is recommended that the identified preferred alternative is labeled on Tables 3.A.12, 3.B.12, 3.C.12, 3.D.12, 3.E.12, and 3.F.12 Comparison of Alternatives in Volume 3 of the MSP.	- Tables 3.A.12, 3.B.12, 3.E.12, and 3.F.12 updated to identify the preferred alternative.	N/A	Complete	- Tables 3.A.12, 3.B.12, 3.E.12, and 3.F.12 updated (Parts C and D do not have a Comparison of Alternatives table - text only)
7/31/2023	MECP Project Review Unit Comment 4	Volume 5 (Indigenous Engagement) The proponent should continue to document communication with all communities that have been engaged with as the Class EA proceeds.	- No further action required.	N/A	Complete	- Record of consultation provided in Volume 5
7/31/2023	MECP Project Review Unit Comment 5	Please note that it is the responsibility of the proponent to ensure that Species at Risk (SAR) are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the Endangered Species Act (ESA). As is noted in the Report, if the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact SAROntario@ontario.ca to undergo a formal review under the ESA.	- No further action required.	N/A	Complete	- Record of consultation provided in Volume 5
8/4/2023	Robert Babic (Crozier Consulting Engineers)	Crozier Consulting Engineers provided comments related to the Stevensville Secondary Plan area and the Douglas Town-Black Creek Secondary area plans servicing strategy and concerns and indicated this is a continued and ongoing effort to further discussion regarding development and servicing of these lands. The letter included a request to be included in updates and discussions related to recommendations and preferred strategies to be undertaken by the Region.	- Region responded noting recommendation in the MSP Update were based on the best available planning information and that capacity needs will be reevaluated as new development application are projected. The Region noted Crozier requested to be included in updates and discussions related to recommendation and preferred strategies undertaken within the Stevensville Secondary Plan and Douglastown Black Creek Secondary Plan areas.	11/10/2023	Complete	- No further action required.

Date Received (MM/DD/YYYY)	Contact Name / Organization	Comment	Response / Action	Response Date (MM/DD/YYYY)	Status	Related ESR Updates
8/10/2023	Livia McEachern (City of Welland)	City of Welland provided comments from City staff requesting responses and supplemental information. 1) There are Regional projects identified in Welland’s 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include: Dain City SPS Storage Optimization Woodlawn Trunk Sewer Upgrade Can staff provide some clarification as to why these projects were not identified in the Regional study? 2) The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region’s Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City’s Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade: - Ontario Rd – Southworth to Empress – 172 l/s - Ontario Rd – Empress to Ontario Rd SPS – 205 l/s Can staff provide some clarification as to why this project was not identified in the Regional study? 3) There were low pressures identified in the Hunter’s Point Area. Can staff confirm if the water analysis incorporated the Hunter’s Point Booster Station?	- Comprehensive response provided to address comments and will form part of the communication record. - Input was incorporated in final document preparation.	10/17/2023 and 11/10/2023	Complete	- Provided collaborative response that will form part of the communication document included in the final MSP.
8/16/2023	Mr. Moir (Urbantech)	Mr. Moir reached out to request a meeting to get clarification on items from the MSP as it relates to the towpath pump station (WW-SPS-037).	- Region provided clarification on question related to the towpath pump station site. - Region formally met with Urbantech to discuss the related questions.	9/18/2023	Complete	- No further action required.
9/6/2023	Project Team	Received comments regarding clarification around average and peak flows for the Cole Farm SPS.	- GMBP response provided to Region on 9/8/2023 indicating pump start/stop levels are causing an artificial increase in peak flows but the station wasn’t flagged for any capacity issues.	N/A	Complete	- See below for adjustments made within the MSPU documentation
9/18/2023	Project Team	Received comments regarding Cole Farm SPS flows and Biggar Lagoon operational firm capacity Email from Ilija: Here, I have two corrections to incorporate: Cole Farm SPS – PDWF 14 L/s based on the upstream pipe segment. This is very similar to the flow numbers from Glenn; Biggar Lagoon – Operational firm capacity is 74 L/s instead of 54 L/s; If you know of any other correction that would prevent additional questions and confusion, please feel free to make it and let us know.	- Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon. - Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter. - Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.	N/A	Complete	- Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon. - Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter. - Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.

2021 Water and Wastewater
Master Servicing Plan Update

Volume 5 – Public and Agency Consultation

Final Report

December 5, 2023



Niagara Region is committed to reviewing its practices, processes and the built environment for barriers to access for persons with disabilities. If you require additional or other formats for communicating the details of the appendices in this attached report, please contact the project team at niagaramspu@niagararegion.ca

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LIST OF ABBREVIATIONS

Acronym	Definition
2016 MSPU	2016 Water and Wastewater Master Servicing Plan Update
ANSI	Areas of Natural and Scientific Interest
BOD	Biochemical Oxygen Demand
BPS	Booster Pumping Station
CSO	Combined Sewer Overflow
CT	Contact Time
DFO	Department of Fisheries and Oceans Canada
EA(A)	Environmental Assessment (Act)
ECA	Environmental Compliance Assessment
ESR	Environmental Study Report
ET	Elevated Tank
FF	Fire Flow
GGH	Greater Golden Horseshoe
HADD	Harmful Alterations, Disruption, or Destruction of Fish Habitat
HCA	Hamilton Conservation Authority
HDI	Haudenosaunee Development Institute
HGL	Hydraulic Grade Line
I/I	Inflow and Infiltration
L/c/d	Litres per capita per day
L/e/d	Litres per employment per day
L/s/ha	Litres per second per hectare
LAM	Local Area Municipality
MCP	Master Community Plan
MCFN	Mississaugas of the Credit First Nation
MDD	Max Day Demand
MEA	Municipal Engineers Association
MECP	Ministry of the Environment, Conservation and Parks
MLD	Million Litres per Day
MMAH	Ministry of Municipal Affairs and Housing
MNRF	Ministry of Natural Resources and Forestry
MOE	Ministry of the Environment
MOECC	Ministry of the Environment and Climate Change
MSPU	Master Servicing Plan Update
NEP	Niagara Escarpment Plan
NOTL	Niagara-On-The-Lake

Acronym	Definition
NPCA	Niagara Peninsula Conservation Authority
NRW	Non-Revenue Water
OP	Official Plan
ORMCP	Oak Ridges Moraine Conservation Plan
PHD	Peak Hour Demand
PIC	Public Information Centre
PPCP	Pollution Prevention Control Plan
PPS	Provincial Policy Statement
PRV	Pressure Reducing Valves
PWC	Public Works Committee
PWWF	Peak Wet Weather Flow
QEW	Queen Elizabeth Way
SARA	Species at Risk Act
SCADA	Supervisory Control and Data Acquisition
SD	Stevensville-Douglastown
SNGR	Six Nations of the Grand River
SOGR	State of Good Repair
SPS	Sanitary Pumping Station
TAZ	Traffic Analysis Zones
TRC	Total Residual Chlorine
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

I INTRODUCTION

I.1 Background

Niagara Region currently services the urban area of the municipalities of Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagara-on-the-Lake, Niagara Falls, and Fort Erie. Water and wastewater servicing is operated under a two-tier system.

Niagara Region is responsible for water treatment, transmission mains, feeder mains, storage facilities and major booster pumping stations; as well as wastewater treatment, trunk sewers and sewage pumping stations. The area municipalities are responsible for local water distribution networks and local sewer collection systems.

Niagara Region is part of the Greater Golden Horseshoe (GGH) area situated around the western and southern end of Lake Ontario that continues to be one of the fastest growing regions in North America. The Government of Ontario's legislative growth plan, Places to Grow Act 2005 and recent amendments, identifies substantial population and employment growth for the GGH to year 2051.

Readily available and accessible public infrastructure is essential to the viability of existing and growing communities. Infrastructure planning, land use planning and infrastructure investment require close integration to ensure efficient, safe, and economically achievable solutions to provide the required water and wastewater infrastructure. To balance the needs of growth and sustainability with the protection and preservation of natural, environmental and heritage resources, Niagara Region initiated a Water and Wastewater Master Servicing Plan Update.

The 2021 Master Servicing Plan Update (MSPU) has completed a review, evaluation and development of growth-related water and wastewater servicing strategies, with consideration of sustainability requirements for the existing infrastructure, for all servicing within the urban areas of the Region. The 2021 MSPU uses updated population and employment growth forecasts based on a 2051 planning horizon, and accounts for changes in regulatory and legislative requirements. The 2021 MSPU addresses all Regional infrastructure within the urban areas for all Local Municipalities excluding the Township of Wainfleet.

Through this update of the Master Servicing Plan, the Region has highlighted the need to integrate the MSPU growth-related program with the Region's sustainability program intended to address the condition and performance of the existing infrastructure. The MSPU servicing strategies are based on the need to maintain appropriate levels of service throughout the systems and acknowledges that investment will be needed to support operations, maintenance, staff, and other resources related to maintaining the existing systems and facilities in a state of good repair and performance.

The 2021 MSPU builds on previous work undertaken as part of the 2016 Master Servicing Plan and previous long term infrastructure planning studies. The 2021 MSPU is a critical component in the Region's planning for growth and will provide the framework and vision for the water and wastewater servicing needs for the lake-based service areas of the Region to year 2051, along with consideration for post-2051 growth.

The Study Area for the 2021 MSPU covers primarily the urban areas of the local municipalities in Niagara Region serviced by the lake-based systems. The Township of Wainfleet is not included in the scope of this Master Servicing Plan Update. The study area is presented in **Figure 1.1**.



Figure 1.1 Study Area

The 2021 MSPU builds on previous work undertaken as part of the 2016 Master Servicing Plan and previous long term infrastructure planning studies. The 2021 MSPU is a critical component in the Region's growth planning and will provide the framework and vision for the water and wastewater servicing needs of the lake-based service areas of the Region to year 2051, along with consideration for post-2051 growth.

I.2 Master Servicing Plan Update Objectives

The 2021 MSPU comprehensively documents the development, evaluation and selection of the preferred water and wastewater servicing strategies to meet the servicing needs of existing users and future development to 2051.

The key objectives of the 2021 MSPU are as follows:

- Review planning forecasts to 2051 and determine the impacts on servicing needs for the Region's lake-based water and wastewater infrastructure
- Evaluate the ability of existing and planned water and wastewater infrastructure to efficiently and effectively service the Region's existing users and anticipated growth
- Undertake a comprehensive review and analysis for both water and wastewater servicing requirements
- Address key servicing considerations as part of the development and evaluation of water and wastewater servicing strategies including:
 - Level of service to existing users and approved growth;
 - Operational flexibility and system security and reliability;
 - Mitigation of impacts to natural, social, and economic environments;
 - Opportunity to meet policy, policy statements, regulations, and technical criteria;
 - Opportunity to optimize existing infrastructure and servicing strategies; and,
 - Ensuring the strategies are cost effective.
- Consider and develop sustainable servicing solutions with lifecycle considerations
- Update the capital program cost estimating methodology and utilize updated industry trends and more detailed information from relevant Region studies and projects to provide appropriate capital cost estimates
- Utilize the updated water and wastewater hydraulic models for the analysis of servicing alternatives
- Establish conceptual level water and wastewater servicing strategies, with corresponding capital programs, implementation plans based on the projected growth, and flexibility to be adjusted as growth is realized in the future
- Provide extensive consultation with the public and stakeholders; and
- Complete the Master Servicing Plan Update in accordance with the MEA Class EA process for Master Plans

1.3 Master Servicing Plan Update Report Outline

The 2021 Water and Wastewater Master Servicing Plan Update 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 2021 MSPU documentation is organized into five volumes as illustrated in the following figure and as described below:

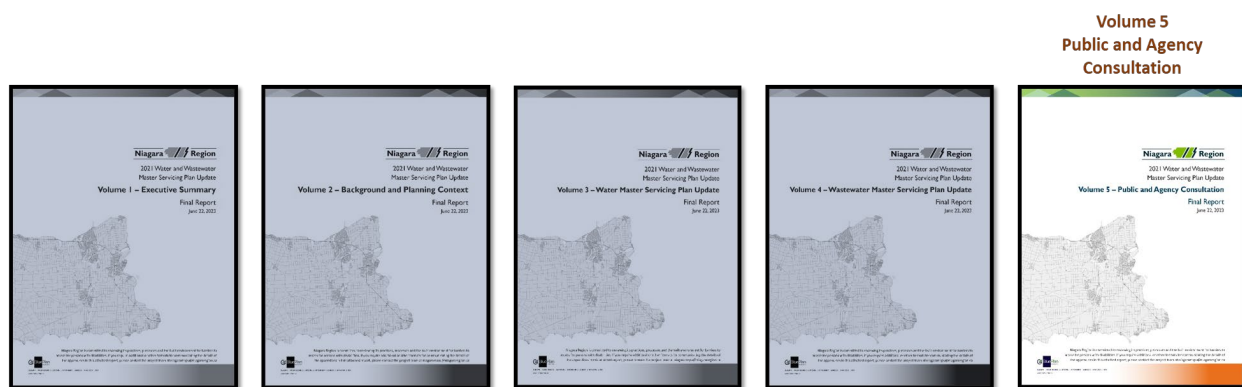


Figure 1.2 Master Servicing Plan Update Documentation

1.3.1 Volume 1 – Executive Summary

Volume 1 provides a brief overview of the 2021 MSPU. It summarizes the information contained in Volumes 2, 3, 4, and 5, including problem statement, purpose of the study, significant planning, policy and technical considerations, and description of the preferred water and wastewater servicing strategies including depiction of the projects and documentation of the capital programs.

1.3.2 Volume 2 – Background and Planning Context

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

I.3.3 Volume 3 – Water Master Servicing Plan Update and Project File

Volume 3 is the principal document summarizing the study objectives, approach, methodologies, technical analyses, evaluation, and selection of the preferred water servicing strategy for each of the water systems. 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.

I.3.4 Volume 4 – Wastewater Master Servicing Plan Update and Project File

Volume 4 is the principal document summarizing the study objectives, approach, methodologies, technical analyses, evaluation, and selection of the preferred wastewater servicing strategy for each of the wastewater systems. This volume contains baseline wastewater system data and performance information. This volume documents the wastewater servicing strategy development with detailed information on the projects and capital program associated with the preferred wastewater servicing strategy.

I.3.5 Volume 5 – Public and Agency Consultation

Volume 5 contains all relevant documentation of the public consultation process including notices, comments and responses, and distribution information. Presentation material from all Public Information Centres (PICs) 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.

I.4 Master Servicing Plan Report Volume 5

The current volume, Volume 5, is a compilation of all relevant documentation related to the public agencies and stakeholder consultation. It also provides the background support for satisfying public consultation requirements under the approved Municipal Engineers Association (MEA) Municipal Class EA Process. The following sections summarize the key components of the consultation strategy with further records available in the supporting appendices.

This volume has been organized in nine (9) sections as described below:

1. Introduction
2. Stakeholder List
3. Public Consultation and Notifications
4. Indigenous and First Nations Engagement
5. Municipal Consultation
6. Council Involvement
7. Public and Agency Consultation
8. Notice of Completion
9. 45-Day Public Review Consultation

Volume 5 is one of five volumes that make up the complete Master Servicing Plan Class EA Study Report and should be read in conjunction with the other volumes.

2.0 Consultation Goals and Objectives

Consultation is an integral component of the Class EA process, enabling the Region to inform the public about the study while eliciting input from interested and affected parties during the study process. The following outlines the objectives of the project's **Public Consultation and Stakeholder Engagement Plan**:

- Meet and exceed legislative requirements for Master plans (Approach #2)
- Build awareness and understanding of MSP Update study and purpose
- Promote active public participation in Public Information Centre (PICs), community events and online feedback mechanisms
- Meaningful and timely engagement with Indigenous First Nations
- Increase understanding of Niagara Region's wastewater management practices and needs

The following key principles drives the approach to public consultation for the Niagara MSPU:

- **Respect:** for all parties engaged in the process.
- **Clear, consistent communication:** to ensure broad understanding, and that all communicators on behalf of the MSP Update are using consistent messages.
- **Demonstrated organizational and community values:** ensure all communications reflect the values of Niagara Region as an organization and as a community.
- **Transparency:** communicate the EA Master Plan process and its results openly.
- **Flexibility:** The Plan will be a living document allowing adaptability when opportunities arise throughout the EA Master Plan process.
- **Offer a variety of feedback options:** A broad a range of methods for the public to provide input will be offered throughout the EA Master Plan process including comment forms at public consultation events and online or virtual consultation opportunities including by email, web page or virtual meetings to ensure documentable, accessible and simple procedures are in place.

The **Public Consultation and Stakeholder Engagement Plan** was developed at the Class EA outset and updated throughout the Class EA process. A copy of the plan is attached in **Appendix A**. Documentation of the Class EA consultation and communication process is summarized in the following sections.

3.0 Stakeholder List

A list of stakeholders, public review agencies and other interested parties was developed at the outset of the study to encourage active participation. This list was regularly updated throughout the study as more individuals became aware of the study or provided feedback. Interested parties had the opportunity to be added to the contact list at any point during the study to receive public notices, newly available public information, and attend in-person or virtual public events.

The final stakeholder list is provided in **Appendix B**.

4.0 Public Consultation and Notifications

Public Information Centres (PICs) were held to collect input at key milestones of the Class EA process. These milestones included introducing the study problem and opportunities, presenting servicing alternatives that have been evaluated, and what the final recommendations are to inform the Region's framework and vision is for the water and wastewater servicing needs to year 2051, along with consideration for post-2051 growth.

The project held two PICs and provided a project update mid-way through the project. Following each PIC, a summary report was developed to document the notified parties, presented material and format, record of attendee participation, documentation of public comments received, and responses provided.

Notifications were distributed through digital and print media in the following papers:

- Niagara This Week (Niagara-on-the-Lake, Fort Erie, Grimsby, Port Colborne, Welland, Niagara Falls)
- The Standard (St. Catharines)
- Fort Erie Observer
- Welland Tribune
- Thorold News
- Niagara Falls Review
- Voice of Pelham

4.1 Project Commencement and Public Information Centre No. 1

A combined Notice of Commencement and PIC No. 1 was formally initiated on April 8, 2011. A virtual Public Information Centre (PIC) No. 1 was held from April 21 to May 5, 2021 virtually due to restrictions to public gatherings in the event of the COVID-19 pandemic. This PIC included an introductory video presentation, project materials for review, and opportunity for interested individuals to provide comments via the project email. Two notifications were sent out via e-mail, newspaper, and online media. The first newspaper notice was posted during the week of April 5-9, 2021, and the second notification on the week of April 12-16, 2021.

Details on PIC No. 1 attendance, comments received, and materials presented are provided in **Appendix C**.

4.2 Project Update: Development Charge Policy Task Force

A project update was provided as part of the Regional Development Charges Policy Task Force on May 19, 2022. The task force was established by Regional Council through the Corporate Services Committee, to function as an advisory group to Regional Council on matters related to the Region's DC By-law. This is critical to the 2021 Niagara MSPU as the update is to be coordinated with other Regional plans which includes the Region's DC Background Study and By-law. Details on the presentation and meeting minutes are provided in **Appendix D**.

4.3 Public Information Centre No. 2

The notification of Public Information Centre (PIC) No. 2 was first issued on January 5, 2023. PIC No. 2 was also held virtually due to the COVID-19 pandemic. A live webinar was held on the evening of January 18, 2023, from 6-7:30 p.m. via Zoom. Two notifications were sent out via e-mail, newspaper, and online media. The first newspaper notice was posted during the week of January 7, 2023, and the second notification on January 14, 2023. The live webinar event was attended by 31 individuals (34 including the project team). Following the live event, presentation materials and transcripts were posted on the project website for public review to provide comments to the project team by February 6, 2023.

Details on PIC No. 2 attendance, comments received, and materials presented are provided in **Appendix E**.

5.0 Indigenous Engagement

Indigenous and First Nation communities have a deep and unique understanding of the natural environment given their long standing relationship with their lands, practices, and way of life. As such, they provide valuable information to help identify solutions and measures to mitigate impacts to natural and cultural resources. The following list of Indigenous First Nations communities were provided by the MECP for the 2021 Niagara MSPU at the commencement of the project:

- Six Nations of the Grand River (SNGR)
- Mississaugas of the Credit First Nation (MCFN)
- Haudenosaunee Development Institute (HDI)

Details and records of engagement with Indigenous communities are presented and provided in **Appendix F1**.

6.0 Municipal Consultation

Meetings with Local Area Municipalities (LAM) were engaged to collect information to provide input as part of the 2021 Niagara MSPU process. At the outset of the project, an initial project introduction meeting was held with all 11 municipalities on April 8, 2021. Following this initial meeting, the project team met with each municipality separately to collect additional information pertaining to the details of the project.

As the study evolved, the Region hosted the following meetings with all local municipalities to discuss the proposed strategies:

- **Monday, May 31 to Wednesday, June 9, 2021 – Individual Local Municipality Review**
 - Presented MSPU objectives, baseline system demand and flow context, and solicited local municipality feedback on individual systems.
- **Thursday, September 16, 2021 – Pre-PIC No. 2 Consultation**
 - Presented updated project schedule, planning scenarios, water and wastewater design criteria and standards, and master planning guidelines; and solicited local municipality feedback on individual systems.
- **Wednesday, February 16 to Wednesday, February 23, 2022 – Draft Capital Program**
 - Presented draft water and wastewater capital programs and solicited local municipality feedback on individual systems.
- **Thursday, December 8, 2022 – Final Capital Program**
 - Presented final water and wastewater capital programs and solicited local municipality feedback on individual systems.

Details and records of engagement with LAMs are presented and provided in **Appendix F2**.

7.0 Council Involvement

Council members were notified with study updates throughout the project. Key council consultation records and materials can be found in **Appendix F3**.

8.0 Public and Agency Consultation

Residents, Provincial / Federal Agencies, and those who have an interest in the project were notified with study updates. Consultation records and materials were documented and can be found in **Appendix F4 and Appendix F5**.

9.0 Notice of Completion

The Notice of Study Completion was first posted on **June 1, 2023**. This notice was sent to the public by mail, email, advertisement on the project website, and in the same local newspapers/publications previously used. A copy of the Notice of Study Completion is provided in **Appendix G**.

10.0 45-Day Public Review Consultation

Following the Notice of Study completion, a copy of the 2021 Niagara MSPU report will be available via the project website for public review and comment for 45-days from **Thursday June 22, 2023 to Monday August 7, 2023**.

A copy of comments received, and responses will be documented and appended to this volume in **Appendix H**.

A large, bold, grey letter 'A' that serves as a section marker. It is positioned to the right of a horizontal bar with a green-to-blue gradient and several overlapping triangles in shades of blue and green.

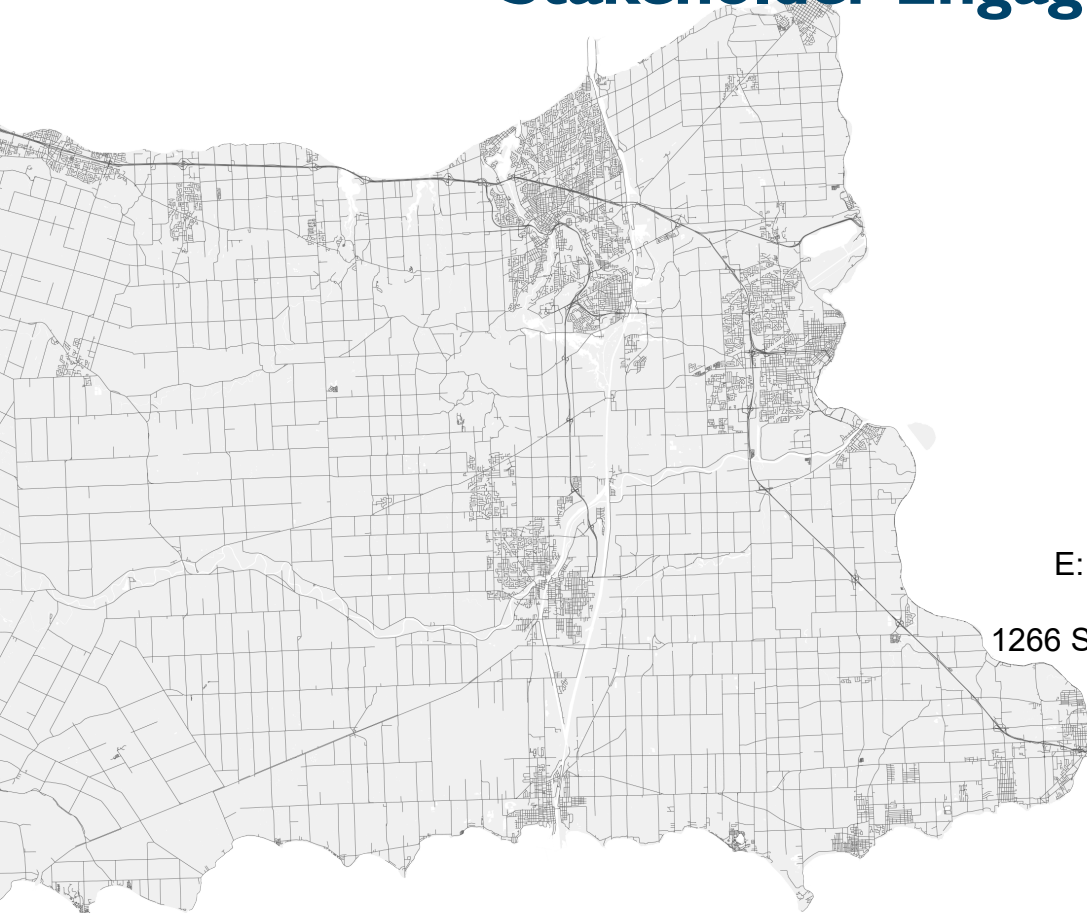
Regional Municipality of Niagara

APPENDIX A

PUBLIC CONSULTATION AND STAKEHOLDER ENGAGEMENT PLAN

2021 Water and Wastewater Master Servicing Plan Update

Public Consultation and Stakeholder Engagement Plan



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Version Updates

The following is a record of the changes/updates that have occurred on this document:

Version	Changes / Updates	Author	Date
1	Draft Document	EL & DM	2021/03/04
2	Internal Draft Document Review and QA/QC	LB	2021/03/05
3	Region Draft Document Review	AL	2023/06/14
4	Final Document		

1 Project Overview

Niagara Region (the Region) is taking a proactive approach to planning their infrastructure systems to meet the needs of their residents and businesses. The Region is undertaking a 2021 Water and Wastewater Master Servicing Plan Update (MSP Update) to ensure a comprehensive vision for water and wastewater management for the Region and its local area municipalities.

According to the recent release of the Provincial Growth Plan (Schedule 3), continued growth pressures are anticipated across the Region, including greenfield development and intensification at key growth nodes. As such, the MSP Update will serve to identify infrastructure needs to the year 2051, with a vision for the long-term (i.e. potential future build-out). The MSP Update will meet the requirements of the Municipal Engineers Association's (MEA) Municipal Class Environment Assessment (EA) for Master Plans and will provide the input to the Development Charge (DC) By-Law Background Study.

The MSP Update is a standard 5-year update to the Region's 2016 Water and Wastewater Master Servicing Plan. The objectives of the MSP Update are:

- Consider growth options for 2051 and potential post-2051 build-out in Niagara and its local area municipalities, including potential servicing to properties outside the urban areas.
- Harmonize with the New Niagara Official Plan and other relevant studies.
- Identify and assess a wide range of reasonable alternatives.
- Identify and develop preferred solutions incorporating considerations at Financial, Technical and Operational, Environmental, Legal / Jurisdictional and Socio / Cultural levels.
- Confirm solutions address the 2051 growth forecast and beyond, as provided by the Provincial Growth Plan.
- Actively engaging the public, government agencies and other key stakeholders.
- Support the Development Charges Study.

The MSP Update will be filed for a public review period for a minimum of 30-days. Upon completion of the 30-day review and responding to any stakeholder comments, modelling services and client support will be provided to the Region for a period of one (1) year.

Public and stakeholder participation is critical and mandated as part of MSP Update. Given the complexity and potentially sensitive nature of the MSP Update, it is imperative that the communication and consultation plan is extensive enough to communicate to all

stakeholders. It must be a two-way process with an overall goal to provide information, listen to, and work to address issues and concerns. This Public Consultation and Stakeholder Engagement Plan goes beyond the legislative requirements specified in the MEA Class EA process.

This plan outlines the overall approach to communications and consultation for the MSP Update, and is in alignment with Niagara Region's public engagement and communications policies and protocols. It leverages knowledge and lessons learned on past efforts in reaching and engaging the Niagara audiences, to better understand and anticipate potential sensitivities related to the MSP Update. It presents the tactics for communication based on the challenges and opportunities, goals and objectives, and audiences to be consulted with, as detailed in the following sections.

2 Key Considerations and Opportunities

The approach to communicate and consult with stakeholders is driven by five key considerations.

- Keeping Niagara Region and area municipality councillors and senior management up to date and aware of study progress and findings.
- Undertaking and maintaining the appropriate level of communication with the public and stakeholders.
- Effectively engaging Indigenous Communities.
- Maintaining Niagara's brand and public reputation.
- Reducing risks of Part II orders.

Considering the above factors, this consultation and engagement program aims to offer the following key opportunities:

- Educating the community about the water and wastewater infrastructure systems, so they recognized that the systems are necessary and positive community assets.
- Building public and stakeholder understanding and buy-in to support the EA process and the preferred solutions.
- Raising awareness of Region services.
- Building the foundation for future steps in the project including implementation of subsequent studies and designs.

3 Principles, Goals and Objectives

3.1 Purpose and Consultation Principles

This Public Consultation and Stakeholder Engagement Plan serves as the guide for the communication and consultation efforts through the MSP Update, and outlines a framework for providing and receiving input from stakeholders and other parties interested in the study. It includes a catalogue of internal and external communications which will form a record for the final MSP Update documentation.

As with any EA process, this project has a heavy emphasis on public relations. The successful delivery of this MSP Update rests in the ability to anticipate, solicit, process and effectively respond to public and agency input. Throughout the process, the team will look for opportunities to educate and inform audiences to build public buy in to support the project early and reduce issues later in the process.

Six key principles drive the Public Consultation and Stakeholder Engagement Plan.

- **Respect:** for all parties engaged in the process.
- **Clear, consistent communication:** to ensure broad understanding, and that all communicators on behalf of the MSP Update are using consistent messages.
- **Demonstrated organizational and community values:** ensure all communications reflect the values of Niagara Region as an organization and as a community.
- **Transparency:** communicate the EA Master Plan process and its results openly.
- **Flexibility:** The Plan will be a living document allowing adaptability when opportunities arise throughout the EA Master Plan process.
- **Offer a variety of feedback options:** A broad a range of methods for the public to provide input will be offered throughout the EA Master Plan process including comment forms at public consultation events and online or virtual consultation opportunities including by email, web page or virtual meetings to ensure documentable, accessible and simple procedures are in place.

3.2 Communication and Consultation Goals

Integral to the study is effective communication and consultation with government agencies, conservation authorities, indigenous communities, utilities, community groups

and other. As such, a primary goal of this plan is to the encouragement of two-way communications.

The following table outlines objectives of the Public Consultation and Stakeholder Engagement Plan and how each objective will be measured for success.

Table 1 – Measures of Success for Communication and Consultation

Objective	Measurement of Success
Meet and exceed legislative requirements for Master Plans (Approach 2)	- Approval/acceptance of the plan by the MECP - Public and stakeholder buy-in into preferred solutions
Build awareness and understanding of MSP Update study and purpose	Media coverage messaging, social media feedback, website information
Promote active public participation in Public Information Centres (PICs), community events and online feedback mechanisms <i>(Note: The PIC may be a physical public event, a live streamed public event or a virtual PIC depending on the circumstances with respect to COVID-19)</i>	PIC attendance numbers, online feedback submission numbers
Meaningful and timely consultation and engagement with local Indigenous Communities	Feedback and support from Indigenous Community key contacts, participation by indigenous representatives
Increase understanding of Niagara Region's wastewater management practices and needs	Comments received through the Class EAs

4 Key Messages and Branding

The approach to consultation and engagement will focus on a unique and customized “made-for-Niagara” solution. One of the key principles driving this Plan is clear, consistent communication. Throughout the MSP Update, it is critical that the project team, regional and local councillors and other involved stakeholders use similar language when talking about the Master Plan strategies. Therefore, establishing and sharing clear anchor messaging at the outset of the project will provide a foundation to build from throughout the project.

This messaging will highlight the importance of water and wastewater servicing, the purpose and objectives of the MSP Update, the evaluation process and the recommended strategy, as well as demonstrate the Region's commitment to an open and transparent process where residents and stakeholders will have opportunities to learn more and have a voice in the process.

The GM BluePlan team will work with the Region Project Team and Corporate Communications to coordinate communications activities, messaging, and public engagement. The established messaging will be tailored to the specific stakeholder we are communicating with at the appropriate level of detail. For instance, key agencies such as the area municipalities and Niagara Peninsula Conservation Authority (NPCA) will receive technical information necessary to meet their requirements at the required level of detail, in contrast to the style, format, and language (educational level) of all communications to the general public which will be easy to understand by the average person. Further, as it is in all parties' best interest to provide a coordinated and unified public engagement program, GM BluePlan will work with the Region and area municipalities to coordinate communications with the other upcoming, ongoing or past projects.

GM BluePlan will ensure that any branding used throughout will be consistent with the **"Niagara 2051" brand** the Region has established. The overall project will allow for consistent messaging between all team members, identification of the long-term project vision, and promotion of the team approach to planning, all within Niagara's overall brand.

5 Audiences and Stakeholder Sensitivities

GM BluePlan will work with the Region Project Team to communicate to the following audiences through the course of the MSP Update.

5.1 Niagara Region Staff

5.1.1 Project Management Team

Throughout the project timeline, progress meetings will be held with Region staff and GM BluePlan. The GM BluePlan team will present study findings and solicit technical input during each meeting, as well as prepare and distribute agendas and minutes. Visioning, risk and engineering workshops (7 workshops planned) will be held at key milestone dates during the project to ensure project goals and objectives are established and met, and quality solutions developed.

5.1.2 Niagara Region Corporate Communications – Strategic Communications and Public Affairs Division

Niagara Region's Corporate Communications will play an important role in providing input and advice on the Public Communication and Consultation Plan. GM BluePlan will coordinate and communicate with the Corporate Communications staff for the development and review of external communications.

5.1.3 Other Niagara Region Departments and Divisions

Representatives of relevant departments and divisions will be invited to participate in technical and project meetings, when necessary. Besides the Infrastructure Planning and Development Engineering Division leading the project, other Departments and Divisions that will be impacted by the MSP Update as well as provide useful information in its development are:

- Corporate Services (Financial Management and Planning Division).
- Planning and Development Services (Community and Long-Range Planning and Development Planning Divisions).
- Public Works (Transportation Services and Water and Wastewater).

GM BluePlan will work with the Region's Project Manager to ensure that the above departments/divisions are included in the study as required. We will also coordinate with all appropriate Region consultants, such as Hemson or Watson, on updates to growth forecasts, the Regional Policy Plan, and Development Charges.

5.1.4 Senior Management, Public Works Committee (PWC) and Council

GM BluePlan will support the Region Project Manager in communicating overall project status and decisions with Senior Management, PWC and Council. GM BluePlan Project Manager, Chris Hamel, will present the serving strategy evaluation and the final recommendations to PWC and Council in a clear, concise, factual and straightforward manner, so they can easily provide input and make decisions on the evaluation and final recommendations. Two (2) presentations to the PWC and Council are planned.

5.2 Local Area Municipalities

The study area includes 11 of 12 local municipalities within Niagara Region:

- Cities of St. Catharines, Niagara Falls, Thorold, Port Colborne and Welland.
- Towns of Niagara-on-the-Lake, Lincoln, Pelham, Grimsby and Fort Erie.
- Township of West Lincoln.

The Township of Wainfleet is currently not serviced by the Niagara water and wastewater system.

Crucial to the success of this study is the support and input from the area municipalities. GM BluePlan will coordinate and conduct workshops the area municipalities to receive their input at key stages, including model, strategy development, evaluation and final solutions development stages. Virtual follow-up meetings will be completed with each municipality to ensure their input is considered.

5.3 External Agencies

As required as part of the Municipal Class EA process, government agencies with potential interest or approval requirements must be consulted with through the MSP Update. Key Niagara Agencies that must be consulted with are:

- Niagara Peninsula Conservation Authority (NPCA).
- Niagara Parks Commission.
- Niagara Regional Police.
- Niagara Regional Housing.

Provincial and Federal agencies that will be notified and consulted include:

- Ministry of the Environment, Conservation and Parks (MECP).
- Ministry of Natural Resources and Forestry (MNRF).
- Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI).
- Ministry of Transportation (MTO).
- Ministry of Indigenous Affairs.
- Ministry of Municipal Affairs and Housing.
- Ministry of Economic Development, Job Creation and Trade.
- Ministry of Agriculture, Food and Rural Affairs (OMAFRA).
- Ministry of Health and Long-Term Care.
- Environment Canada.
- Department of Fisheries and Oceans Canada (DFO).
- Transportation Canada.
- Health Canada.

As the study progresses, specifically when detailed solutions have been identified, it may also be necessary and advantageous to meet directly with the key affected and concerned agencies. These agencies could include those dealing specifically with the Niagara Region, including the Niagara Peninsula Conservation Authority (NPCA) and the Niagara Parks Commission.

5.4 Utilities, Communication, Rail and Transit

The previous 2016 Master Servicing Plan identified several utilities, communication, rail and transit companies that must also be consulted with. The following local, provincial and federal utility companies will be contacted throughout the MSP Update processes at a minimum:

- Metrolinx.
- Enbridge Pipelines and Gas.
- Bell Canada.
- Hydro One.
- Ontario Power Generation.
- CN Rail and CP Rail.
- TransCanada Pipelines.
- Cogeco Cable Inc.

In addition, railway and local transit companies will be included in the master stakeholder contact list and will be advised of the project.

5.5 Public and Special Interest Groups

Through the process members of the public interested in the study will be identified through responding to notices or attending PICs. These members of the public will be added to the mailing list and continue to be communicated with throughout the MSP Update process.

The previous 2016 Master Servicing Plan also identified several special interest groups that that must also be consulted with. Some of these include:

- Niagara Catholic District School Board.
- Niagara Emergency Medical Services.
- District School Board of Niagara.

- Niagara College.
- Niagara Home Builders Association.
- Niagara Region Bicycling Community.

It is expected that others will be identified as we progress through the MSP Update process, including local residential and business groups, universities and colleges; school boards, environmental and social special interest groups, and developers.

5.6 Indigenous Communities

Indigenous communities have unique understanding of the natural environment given their relationship with traditional lands, practices and way of life. As such, they provide unique and valuable information to identify solutions and measures to mitigate impacts to natural and cultural resources. Indigenous communities will at times be consulted based on interests; other times, a project might impact established or asserted Indigenous rights or Métis communities. The Mississaugas of the Credit First Nations, Six Nations of the Grand River, and Haudenosaunee Confederacy Chiefs Council will have interest, as most of Niagara Region is within their traditional territories. They were also identified by the MECP upon the project initiation.

Proponents are required to follow the protocols set by the Indigenous Communities and must contact MECP following project commencement to receive an official list of Indigenous contacts. GM BluePlan will work with Niagara Region to ensure that engagement with Indigenous groups is as complete as required and is implemented in a responsible and respectful manner.

5.7 Media

Niagara Region will be responsible for communications with the media, with GM BluePlan providing supporting information. There are several venues to communicate with the media including websites, newspaper, twitter, facebook, radio, newsletters, and information sessions. The anticipated outcome is that relevant project information can be shared across a larger platform.

Prior to each public event, the internal team can host an additional information session if requested for interested media representatives to meet the project team and learn more about the study.

5.8 Stakeholder Sensitivities

In order to identify the best tactic for communication to the public and stakeholders, an understanding of the stakeholder's level of interest, concern or perceived attitude and the influence or power they may have during the process is important. Based on early understanding of the overall project, a mapping of the audiences based on their influence and level of concern has been established to help the tactics for communication. **Figure 1** illustrates this audience mapping. As the MSP Update proceeds, stakeholder interests, concerns and perceived attitudes may become more apparent. The Communications and Consultation program is sufficiently flexible to accommodate different audiences and levels of concern.

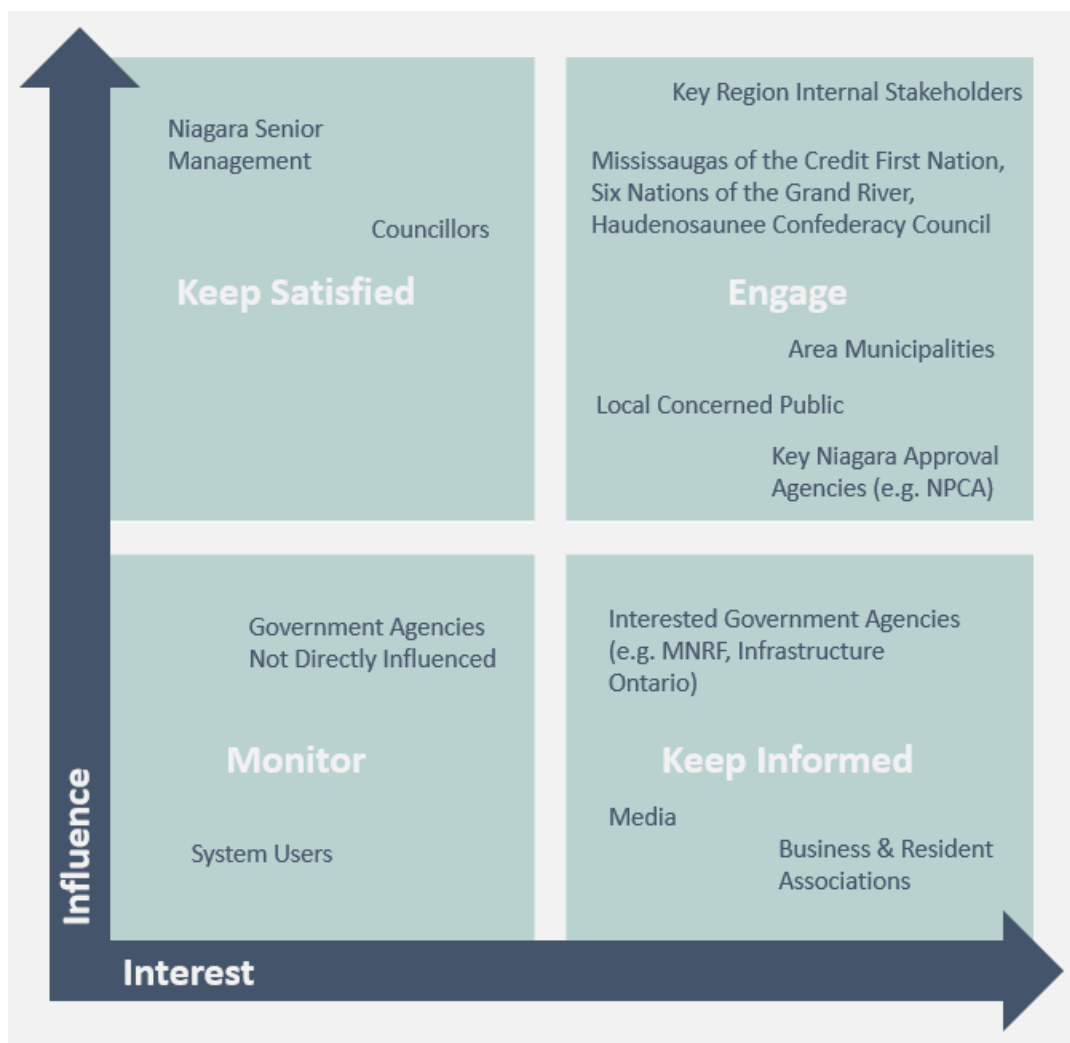


Figure 1 - Audience Mapping

6 Tactics for Engagement and Communication

6.1 Stakeholder Mailing List

A stakeholder mailing list will be established that include all stakeholders as listed in Section 5 and be updated regularly based on public input. GM Blue Plan will maintain the mailing list.

6.2 Study Notices

The MSP Update will include a joint Notice of Study Commencement/Public Information Centre (PIC) No. 1, and individual notices for PIC No. 2, and a Notice of Study Completion. All draft notices will be developed by GM BluePlan and finalized with the Region's Strategic Communications and Public Affairs Division. The Region will coordinate with local newspapers in each of the area municipalities, including (but not limited to) the following:

- Niagara This Week (published to all lower-tier municipalities within Niagara Region)
- St Catharines Standard
- Welland Tribune
- Niagara Falls Review
- Fort Erie Observer
- Voice of Pelham
- News Now (which serves Grimsby, Lincoln, West Lincoln, Winona).
- Thorold News

The notices will also be placed on the Region's website and advertised on social media (e.g. Facebook, Twitter, LinkedIn), as determined by the Region's Corporate Strategic Communications and Public Affairs Division.

In addition to newspaper notices, the GM BluePlan Team will prepare a project brochure to accompany notices of PIC No. 1, PIC No. 2, and study completion for distribution to the Study Mailing List. The GM BluePlan Team will follow-up with select agencies either in person or virtually to facilitate the collection of information relevant to the study. The GM BluePlan Team will maintain a file of all correspondence sent and received. This documentation will be included in the appendices of the final MSP Update Report.

Internal contacts and notification will be coordinated through the Regions's Project Manager. A summary of tasks and responsibilities for tasks associated with all Notices is provided below.

Table 2 – Summary of Tasks and Responsibilities

Task	Responsibility
Prepare draft Ad / Letter format Notices for Regional review	GM BluePlan
Organize and coordinate Notices with local newspapers	Niagara Region
Finalize and mail Ad / Letter format Notices to Study Mailing List	GM BluePlan
Distribute Notices to internal Niagara Region Departments and Divisions, PWC and Councillors	Niagara Region
Prepare and maintain a Comment Tracking Sheet	GM BluePlan
Prepare any required written responses to questions and issues	GM BluePlan & Niagara Region

6.3 Public Information Centres

Two (2) PICs are planned for this project. PICs are significant to the decision-making processes and are used to collect and gauge public concerns. Three PICs are merited due to the complexity of the project, the interrelationships between the Niagara and area municipality systems, and the need to identify and navigate key issues early in the process. Due to the current global situation, the first PIC will be held virtually. Opportunity to host the remaining PICs in person will be considered closer to the scheduled date.

The planned PICs are listed below:

- **PIC No. 1** – The first is planned for late April 2021. This PIC will help support the decision making and defensibility of the study through the introduction the MSP Update. This introduction will address purpose, objectives, background, and the Master Plan approach at a high level.
- **Project Update** – The second event is planned for later in the summer of 2021. The purpose will be to provide a project status update and present the servicing strategies and evaluation methodology and criteria for assessing.

- **PIC No. 2** – At the end of Phase 2 of the Master Plan Class EA, the final PIC will be held to receive input on the overall preferred servicing solutions, mitigation measures and implementation plan.

It is assumed that the first, and likely the second PIC, will be virtual. Because PIC No. 1 is intended to provide the public with baseline introduction and high-level project overview, a well-advertised short video (5-minute overview) and accompanying storyboard (i.e. ArcGIS StoryMaps) will be utilized on the Region's dedicated Project Website. ArcGIS Storymaps is an Accessibility for Ontarians with Disabilities Act (AODA) compliant and user-friendly platform which has seen success in similar PICs completed by GM BluePlan.

A virtual comment sheet will be available to all PIC attendees with a proceeding two-week submission period. Since PIC No. 1 will focus on high-level project overview, a virtual and open-ended comment sheet will allow attendees to provide feedback in a less rigid format. For PIC No. 2, when more specific feedback is preferable, a transition to a questionnaire with specific information may be utilized. If the PICs occur in person, the Region may wish to consider PDF Panels, one-on-one discussions, sign in and comment sheets, maintaining online presence (i.e. facebook live), or other ventures to get more involvement.

In preparation for PICs, the GM BluePlan Team will:

- Prepare the Draft Notice of PICs for mail-out and for the Region to advertise in local newspapers, the Region's website and on social media;
- Prepare all coloured displays (e.g. PDF format Panels, if in-person and Storyboards using ArcGIS StoryMaps, if virtual as decided upon in the Communications Planning meeting between GM BluePlan and the Region), sign-in sheets (if in-person) and comment forms;
- Provide final displays to the Region in advance of the PIC for posting on the project's website;
- Prepare and narrate the oral presentation (e.g. 5-minute Education Videos) that accompanies the final displays for the PIC events;
- Prepare draft responses to comments/concerns raised by attending public members and stakeholders for Region review;
- Issue approved response letters;
- Update the project contact list to include additional public members and stakeholders who wish to be directly notified of future project related events; and

- Coordinate the most appropriate online engagement techniques and platforms for the community and will provide the public with details and accessibility.

6.4 Information Bulletins, Fact Sheets, Questionnaires

In order to provide additional education pieces for the public and stakeholders who want to stay informed, communication materials such as fact sheets, information bulletins, and lists of frequently asked questions (FAQs) can be developed to enhance the PIC meetings. Virtual questionnaires or comment sheets may also be made available to seek public and stakeholder input on factors important to them in the evaluation of alternatives. GM BluePlan will work with the Region to identify when to incorporate these pieces through the MSP Update process.

6.5 Workshops

A series of workshops will be held throughout the project's timeline to work with the Region to develop project goals and objectives, establish model criteria and calibration requirements, develop and assess alternatives, and financial review. GM BluePlan will prepare all information for these workshops, facilitate the meetings, and produce meeting summaries. Outcomes of the workshops will be incorporated into the MSP Update as it proceeds. Seven (7) workshops are planned through the study.

6.6 Multi-media and Online Engagement

Along with virtual PICs, other multi-media and online tactics could be considered for advertising or engagement including Twitter, Facebook/Instagram, and YouTube. GM BluePlan will work with the Niagara Project Manager and Corporate Communications to implement multi-media and online engagement communication tactics to enhance engagement with all interested groups. GM BluePlan will provide content and information to the Region's Communications team, the Region will review and provide comments, and GM BluePlan will update the final content appropriately prior to the Region posting.

The online and social media presence will evolve as success of the engagement plan is monitored over the course of the study. As a minimum, the following approach will be undertaken:

1. Establish a dedicated project web site page for the 2021 MSPU. This page will be accessed through www.niagararegion.ca. Content for the page will be developed by GM BluePlan with review by the Region project team. Niagara Region will be responsible for content upload.
2. Establish a dedicated email address for contact throughout the project. Niagara Region is responsible to creation and monitoring of the mailbox.
3. The project web site page will host permanent project update information. The page will also be the source to access the PIC information.
4. Niagara Region social media feeds including Facebook, Instagram and Twitter will be used to support the news releases for the project and advertisement for PICs.

7 Stakeholder Documentation

7.1 Study Mailing Lists

GM BluePlan will prepare and maintain a study mailing list, which will include all relevant agencies, stakeholders and interested parties will be included in the contact lists, as indicated in Section 5. Throughout the MSP Update, the 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. As such, the study contact mailing list will constantly be updated to ensure that all possible efforts are made to include all interested agencies/parties throughout the MSP Update process.

All communication with external parties will be tracked, with exception of private information (including name and address of public members) to become part of the final MSP Update report.

In addition, all comments received, along with a response tracking table, will be prepared at the project on-set and will be kept up to date throughout the study process.

7.2 Issues Management and Tracking

All contact information will be recorded in a database such that all comments received can be directly linked and stored easily and efficiently. A comment and response log will be prepared and updated as required. All comments will initially be directed to the Region Project Manager via the website and newspaper notices. A separate project email may also be set up in order to monitor all project inquiries, noting that the Niagara Region will not disclose the private information contained in any inquiry.

7.3 MSP Update Class EA Documentation

A comprehensive MSP Update Report, including all technical information and summaries of all public and agency consultation documentation, will be prepared by GM BluePlan. To support Region review, the draft MSP Update will be issued in sections. The final MSP Update will be structured to document the full study in an easily understood manner to ensure clear communication with the public and stakeholders.

Upon finalization of the MSP Update, a Notice of Study Completion will be prepared, and the MSP Update will be available for a minimum 45-day review period. The public will be encouraged to read the reports and provide comments to the Regional Project Manager during the review period. Hard copies of the final MSP Update will be filed at agreed public facilities. Electronic copies and supporting appendices will also be made available on the project website.

The overarching consultation goal is to ensure there are no outstanding concerns from the public or stakeholders at the end of the review period to allow the projects to proceed to implementation. Communications methods that will encourage the public to participate in the 45-day review period by issuing notices to the public once the reports have been finalized and are available. The notice will outline where the reports can be reviewed, including a link to the online copy through the project webpage as well as hard copies at local agreed upon public places. These public places will be located around the Region and listed in the notice.

7.4 AODA Compliance

GM BluePlan will ensure that all public documents will be produced through compliance with the Accessibility for Ontarians with Disabilities Act. Upon request, alternate formats of reports will be made available.

8 COVID-19 Communication Protocols

Our world is experiencing unprecedented disruption due to a global pandemic caused by COVID-19. We recognize that Niagara Region, as an essential service provider, must continued to operate and maintain existing infrastructure and plan for future growth. GM BluePlan's approach to project management and public communications is to remain flexible and adjust our programs to adapt to changing needs. We are fully aware of the Region's Corporate Communications and IT Solutions "Recommended practices for virtual public meetings" and will adhere to requirements in the delivery of this project. GM BluePlan has a variety of virtual platforms to communicate with our clients, including Skype, Microsoft Teams, GoTo Meeting and Zoom. In accordance, with the Region's recommended practices the MSP Update will utilize Zoom to consult and communicate with Niagara. Information will be shared through the meetings, SharePoint sites, phone conversations and e-mail. Further, GM BluePlan has protocols in place to meet safely in large board rooms if acceptable. All staff, including field support, are trained and aware of all COVID-19 Health and Safety protocols.

The GM BluePlan team is also versed in developing and presenting at *virtual* public consultation events and will work with the Region's Communication Team to develop the preferred design and engagement approaches for the PICs.

A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background design.

B

Regional Municipality of Niagara

APPENDIX B

STAKEHOLDER CONTACT LIST

Stakeholder Name	Organization	Title / Role	Address	City / Province	Postal Code	Phone Number	Email
Indigenous Communities							
Chief Mark B. Hill	Six Nations of the Grand River	Chief	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0	519-732-2905	markhill@sixnations.ca
Arleen Maracle	Six Nations of the Grand River	Community Liaison Officer	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0		arleenmaracle@sixnations.ca
Dawn LaForme	Six Nations of the Grand River	Secretary	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0		dlaforme@sixnations.ca
Lonny Bomberri	Six Nations of the Grand River	Director of Lands and Resources	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0	519-753-0665	lonnybomberri@sixnations.ca
Joanne Thomas	Six Nations of the Grand River	Archaeological Coordinator	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0	519-753-0665	jthomas@sixnations.ca
Tanya Hill-Montour	Six Nations of the Grand River	Archaeology Supervisor - Six Nations Lands & Resources	2498 Chiefswood Road (P.O. Box	Ohsweken , ON	N0A 1M0	(519) 753-0665	tanyahill-montour@sixnations.ca
	Haudenosaunee Confederacy Chiefs Council		2634 6th Line Road (P.O. Box 714	Ohsweken , ON	N0A 1M0	519-445-4222	hdi2@bellnet.ca
	Haudenosaunee Confederacy Chiefs Council						info@hdi.land
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Warren Hoshizaki	District School Board of Niagara	Director of Education	191 Carlton Street	St. Catharines, ON	L2R 7P4		
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	Lundy's Lane BIA		P.O. Box 26008 (Lundy's Lane RP	Niagara Falls, ON	L2G 7X2	905-401-8247	
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[illegible]

A large, stylized, grey letter 'C' that serves as a background element for the title.

Regional Municipality of Niagara

APPENDIX C

NOTICE OF STUDY COMMENCEMENT AND PIC NO. I

A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background for the title.

CI

Regional Municipality of Niagara

APPENDIX CI

PROJECT NOTICE

NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE NO. 1

2021 Water and Wastewater Master Servicing Plan Update

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- Development Charges Background Study and By-law
- Transportation Master Plan Refresh
- Regional Official Plan - 2051 Population and Employment Forecasts

In 2016, Niagara Region completed a Water and Wastewater Master Servicing Plan that charted infrastructure needs to the year 2041, while maintaining levels of service. This 2021 update to the plan will incorporate recent knowledge and current priorities to ensure we can accommodate further growth expected by 2051 and beyond, as per the amended *Growth Plan for the Greater Golden Horseshoe*.

The Process

The study follows the master planning process as established by the Municipal Engineer's Association (MEA) Class Environmental Assessment process for Master Plans, which is an approved Ontario Environmental Assessment process. The Master Servicing Plan Update will satisfy phases 1 and 2 of the Class Environmental Assessment process including developing and evaluating alternative servicing strategies for the Region's systems and facilities. Public and stakeholder input will be sought throughout the process and a Master Servicing Plan Update Report will be prepared and filed for public review.

Get Involved

Public feedback is important. Information about the project will be available on Niagara Region's website as part of Public Information Center (PIC) No. 1. You can learn about how this project will contribute to Niagara's overall growth plan, key servicing issues being considered, and how you can have your voice heard.

Public Information Centre No. 1 Details

A recorded video and information regarding this project will be made available for PIC No. 1 on the project website beginning **Wednesday, April 21, 2021**. This will be followed with a two-week period to submit PIC No. 1 related comments to the Project Team.

Access the project website using the link below or by scanning the QR Code with your smart phone.

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>



Contact the Team

If you have any questions, comments or wish to be added to the study mailing list, please contact:

Ilija Stetic

Project Manager, Niagara Region
289-668-4536
niagaramspu@niagararegion.ca

Accessibility

If you require any accommodations in order to participate, please let us know in advance so that arrangements can be made in a timely manner. Special accessibility accommodations and materials in alternate formats can be arranged by contacting:

Accessibility Advisory Coordinator

Niagara Region
905-685-4225 ext. 3252
accessibility@niagararegion.ca

The page features several large, overlapping geometric shapes in shades of green, blue, and grey. A horizontal bar with a green-to-blue gradient is positioned above the 'C2' text. Below the 'C2' text, there are more geometric shapes, including a large grey triangle and a blue triangle.

Regional Municipality of Niagara

APPENDIX C2

NOTIFICATION ADS AND PROOFS

Ham and cheese puffs use up those holiday leftovers

GRETCHEN MCKAY

One of the best parts of any holiday dinner is the leftovers. With Easter, there's a good chance you might still have some surplus ham kicking around.

Rather than simply slapping some slices between two pieces of bread with a dab of mustard or mayo, why not dice it up and use it as a filling for an elegant tart?

This tart recipe is so easy because you start with store-bought puff pastry sheets instead of stressing over home-made dough. The filling is a snap to pull together, too. Creamy bechamel sauce that binds the filling together requires just three ingredients and five minutes of cooking time. Now, who doesn't know how to chop up some ham and/or spinach?

Don't forget the egg wash; it helps the pastries become shiny, golden-brown and super crispy.

The tarts can be served hot, or at room temperature. Depending on how much filling is used, you can eat the tarts either with your hands or may require a knife and fork. Pair them with a

crisp salad and you've got an easy, and elegant, dinner or brunch offering.

HAM, CHEESE AND SPINACH TARTS

2 sheets frozen puff pastry, thawed
2 tablespoons unsalted butter
2 tablespoons all-purpose flour
1/4 cups warm milk
Salt and freshly cracked pepper, to taste
Pinch of ground nutmeg
2 large handfuls fresh spinach, rinsed and chopped (about 2 cups)
1/2 pound cooked ham, diced
1 cup grated Swiss or Gruyere cheese, divided
1 egg, beaten

Preheat oven to 400 degrees.

Place thawed pastry sheets on a floured surface and gently roll each out to a 10-by-15-inch rectangle. Cut the puff pastry sheets into 5-inch squares and place on a large parchment paper-covered cookie sheet. (You will get 12 squares.) Set aside while you make the sauce.

For the bechamel sauce, melt butter over medium heat in a



GRETCHEN MCKAY PITTSBURGH POST-GAZETTE

saucepan. Add flour. Cook, stirring frequently, until the mixture has a slightly nutty aroma, about two minutes.

Pour in warm milk 1/4 cup at a time, stirring constantly with wooden spoon or whisk until smooth. Bring to a boil, then season to taste with salt and pepper and a pinch of nutmeg.

Lower the heat, and cook, stirring for two to three minutes more, until thick and bubbly. Stir in spinach and cook for 1 minute, until spinach is wilted.

Add ham and half the cheese

and stir well. Set aside.

Spoon a tablespoon or two of the bechamel mixture on top of each pastry square. Divide the remaining half of the grated cheese on top, and close the pockets by folding the corners toward the center. Don't worry if the edges don't meet; you're not looking for perfection here. Brush the tops of each tart with egg wash.

Alternatively, for a double-crusted tart, spread 2 tablespoons of the bechamel mixture on top of six squares, leav-

ing a half-inch border around the edge. Brush the edges with an egg wash, then top with grated cheese, and place another square on top. Crimp edges with a fork to hold it together, brush the tops with egg wash and then cut a few slits in the top to allow steam to escape.

Bake in the oven for 20 minutes, until puffed and golden. Allow to cool for a few minutes and then serve hot or warm, with a crisp salad.

Serves 6.
Pittsburgh Post-Gazette

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The Standard

Ross' Ramblings: A tough battle, but we must try to smile and laugh

Ross Robinson
Special to The Lake Report

As we continue to wrangle with COVID-19, we must retain our ability to smile. As importantly, we must retain our desire to laugh.

On a recent Friday evening at Betty's Restaurant in Chippawa, before the latest lockdown, I joined four friends for two physically distanced hours of great food and Niagara wine, engaging banter, and some tearfully funny stories. We laughed and loved, in the face of the global pandemic. Someday, a new normal will release us into the fresh air and allow us to visit more often. Concerts at Jackson-Triggs.

We arrived for fish and pie after a lovely drive along the Niagara Parkway, enjoying the world-famous views of the Falls, determined to have fun. Fun can still be done, as so many of us know.

We read about new walking groups, we see more dogs walking their owners, and so many more cyclists on the streets and along the Niagara River Recreational



These six young ladies from the GTA, Halifax and Zimbabwe enjoyed an elegant bachelorette luncheon in Ryerson Park last August. It would be totally within the various rules of the proposed NOTL parks pylon. No fire, no loud noise, no booze and over by 10 p.m. What's not to love about this tableau? ROSS ROBINSON

Trail. Online yoga and aerobics have taken off.

Let's be tolerant and abide the good people who enjoy a macho drive on a motorcycle or in their vintage or souped-up cars. They pay taxes, work hard and are courteous, respectful visitors.

Could there be a better place to be battling a global pandemic than here in our magnificent Niagara region? Last week, an Expedia user survey named NOTL the third-most friendly town in Canada. It seems to me that in spite of ourselves, we have been described as being warm, hospitable and friendly to each other and to

visitors to our small town.

This is where I get confused sometimes. And I hope we can somehow simultaneously pull and push in regards to tourism. As folks report how much they enjoy spending time here, our town council adopts a parks bylaw "as crowds begin to appear at parks." There is no easy answer to the current dilemma. I can almost hear my mom saying to me, "So, you want to have your cake and eat it too?"

Our town facilities, amenities and parks, including those operated by Niagara Parks, are first class because of funding from

local taxpayers, Niagara regional contributions, and provincial and federal dollars. And, when tourists spend money here, a portion of the taxes are spent right here, locally. It seems to me, therefore, that our parks are everyone's parks. Just like when we travel and enjoy their parks. Logical?

We have all chosen to live here for different reasons. Culture, mild weather and short winters (for Canada), wineries and agricultural land, recreational amenities, and so little traffic congestion. Now, throw in the friendly and helpful locals, including you and me, lovely parks and beautiful landscaping displays. Seriously, what's not to like?

Wait patiently until our various festivals return, along with almost non-stop theatre, concerts and heritage events. Hats off to the determined and talented people who have been skillfully and enthusiastically providing Zoom lectures and online entertainment. Sure, it's not perfect, but it's so much better than nothing. Keep up the enthusiastic work, and know we appreciate your efforts.

Let's not be tiny-minded. Different people enjoy different things. As we small-town folk enjoy an occasional visit to a big city, those big-city folk enjoy a visit to rural and small town Canada.

Welcome them with a smile or wave, respect their space, and understand that some wild and crazy people enjoy enjoying a park after dark. Star gazing, the silence and bigness of a dark sky moon, the cool breeze off a lake or river. Maybe even a dip in the fresh water. Yikes, after 10 p.m.? What is more pure than seeing someone reading a book in one of our parks, as the sun comes up? Yikes, before 7 a.m.?

Allow people to cook their favourite foods on a hibachi. With only rare exceptions, they leave the area clean.

And hey, we spend millions to grow our unique cool climate grapes and skillfully blend different wine varietals. Then our wineries spend big bucks and do their best to market and sell the products. Now you want to tell us we can't enjoy a pleasant Chardon-

nay or Merlot in our parks? Or, a craft-brewed Oast House Barnraiser?

But I ramble on ...

Yes, we have a parking problem in a few areas of NOTL, for perhaps 300 or 400 hours a year. Think of the lucky people who live near Fenway Park or the Montreal Canadiens' home rink. What about the country folk who live within a few kilometres of Merrittville Speedway? Va-room, Va-room. Go to the stock car races this summer. Expand your minds. The fastest dirt track in Canada, on our doorsteps. A really fun Saturday summer evening. Trust me.

Our professional town staff will solve the parking issue, and enforce any new rules. Let's share the love with our bylaw officers, as they ease into the new regulations.

And let us all treat each other with kindness and friendliness, as we enjoy our Niagara and NOTL.

The visitors are a coming. Let's be thankful we live in such a popular and "quaint" town.

We are so fortunate to live in Canada ... in 2021.

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HOPPIN'

continued from Page 9

lies were spending time and making memories together as they made their way through the different challenges. The Hunt really allowed for the teams to be part of something, even though they were not physically together.”

Both of the such hunts hosted by the Town in recent months—the Family Day Adventure, and the Hoppin’ Easter Hunt—have received positive responses and will not be the last of their kind. Another hunt is planned for Canada Day.

JABBED

continued from Page 2

week that online and 1-800 number logjams could have been avoided if local public health units had been allowed to load their own clinic dates and times via the province's registration portal, a task currently handled by provincial staff. When residents eventually managed to access the system, they learned all Niagara's clinics were booked solid. Another factor is that thousands of clinic appointments have been reserved for teachers and other education personnel over spring break.

Hirji expects close to 150,000 Niagara residents to be vaccinated by the end of the month.

Clyde McCombs and his wife, Constance, were two Pelham seniors who received their vaccinations last week. The couple has been married for 71 years, and they still live in the Fonthill house on Pancake Lane where Clyde was born in 1927. Constance attended the clinic in a wheelchair, and was assisted by their son Leonard, 64, who is still waiting for an appointment for his injection. He confided that he was “a little leery” of the Astra-Zeneca vaccine, due to some worrisome reports in the media.

Clyde bluntly assessed the registration process.

“It was no good. We don't have a computer, so we called the 1-800 number, but they wouldn't accept us because we didn't have an email address. I had to get a nephew to arrange the appointment. He got everything done, but it was frustrating. We've talked to a lot of older people who said the same thing.”

Inside the MCC, Clyde said the process was, “fantastic...very smooth and professional...the people are just great.”

Clyde said he could barely feel the injection.

“I don't know how they can get all that juice in the hole in the needle...you don't feel a thing.”

The McCombs received an instruction sheet with details for monitoring their health post-vaccination, and information on the second jab to come this summer.

Asked if she feels confident that, freshly vaccinated, she has plenty of years ahead of her, Constance smiled and replied, “Yes, I think so!”

Niagara Health encourages all residents, regardless of whether they have been vaccinated, to practice public safety protocols to help stop the spread of COVID-19. These measures include continuing wearing a mask, washing hands often, staying at least two metres from others, avoiding non-essential travel and contact with others outside the household, and self-isolating when sick.

Some pharmacies in Niagara are currently vaccinating residents 55 years of age and older with the AstraZeneca vaccine. To book an appointment, go to <https://covid-19.ontario.ca/vaccine-locations>.

Questions about vaccination can be directed to the COVID-19 Info-Line at 905-688-8248.

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THANKS

continued from Page 12

buying groceries for their family. We are worried it's going to become a trend, because of COVID, and all the strain that it's put on people's finances.”

Accessing the food bank is a painless process, said Gilmour, and there is absolutely no judgement involved.

“The ones I often worry about are those too proud to come and ask for help, it just wasn't the way they were brought up. It's especially sad this year, because there are a lot of seniors living alone,

trying to do the right thing, staying away from other people. Their families can't visit them, and I know some are going downhill, emotionally and physically. We certainly try to be there for them, providing food, free rides for medical appointments, and referring them to local services.”

Gilmour emphasized that the ongoing generous support of Pelham Cares by individuals, businesses, and service organizations was critical.

“We couldn't do anything without the assistance of the community,” she said.

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PUBLIC NOTICE

Notice of Study Commencement and Public Information Centre #1 2021 Water and Wastewater Master Servicing Plan Update

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Ilija Stetic

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289-668-4536

niagaramspu@niagararegion.ca

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Town asking for feedback on park restrictions

Penny Coles
The Local

When the town passed a parks bylaw, restricting or banning many activities, councillors discussed the need for public input.

In order to get the bylaw passed for the coming warm weather, councillors agreed, on the advice of director of operations Sheldon Randall, that the summer could be considered a trial period, before deciding whether changes to the bylaw are required.

The bylaw was passed in March to regulate the use of municipal parks and green spaces, to establish rules for the shared public use and enjoyment of such spaces, and to aid in the protection of the natural environment, a recent town news release says.

"Niagara-on-the-Lake has many wonderful parks and green spaces that res-

idents and visitors enjoy year-round," says Lord Mayor Disero. "While our parks are intended for the use and enjoyment of the public, it is important that we regulate various activities to ensure our shared spaces are kept safe, clean, and welcoming for everyone."

The bylaw sets hours of operation for each park, and prohibits activities such as barbecuing, lighting, building or stoking campfires or bonfires, setting off fireworks, consuming alcohol, erecting tents, amplifying sound, allowing pets off-leash, using motorized vehicles and parking (except in designated parking areas), damaging property, using a metal detector, feeding wildlife, commercial activities, and more.

Some of the previously listed activities are permissible by way of a permit, which can also allow

for large gatherings.

Temporary signs are being posted in some parks, with permanent signage going up in all town parks and green spaces prior to the summer season.

Members of the "municipal park patrol team" will be rotating throughout parks on weekends to educate and assist with compliance, the town's news release says.

Town bylaw officers will respond to complaints made throughout the week, as required.

The public is now being asked to provide feedback on the bylaw throughout the spring and summer.

A public survey will be published at the end of the summer to solicit additional feedback, as well as a summary of all comments received.

To comment on the bylaw, visit jointheconversationnotl.org/parks-by-law.

Best advice is take first vaccination available

Continued from page 1

to attend a Public Health clinic should take those appointments, which will open up more spots for others at pharmacies.

AstraZeneca is not available to those 55 and under, and everyone has to make the best decision for themselves, he says, adding, "the best advice is to get the first vaccine available to you."

He has 10 trained staff able to administer the doses, and says the ability to get shots in arms is not the limiting factor — it's the time-consuming job of filling out the necessary documentation to report to the province that will be the challenge.

Niagara residents 70 or older in 2021 (born in 1951 or earlier) can book an appointment online at Ontario.ca/bookvaccine or by calling 1-888-999-6488. Residents can book an appointment at any clinic across Niagara.

For those 55 or older, Ontario.ca/bookvaccine will direct residents to the pharmacies nearest them.

Niagara pharmacies offering vaccinations:

Niagara-On-The-Lake

Simpson's Apothecary -
223 King Street

Virgil

Simpson's Pharmacy -
1882 Niagara Street

Niagara Falls

Shoppers Drug Mart -
3701 Portage Road, Unit 1

Costco Pharmacy -
7500 Pin Oak Drive

WalMart Pharmacy -
7481 Oakwood Drive

Shoppers Drug Mart -
5125 Montrose Road

Boggio and MacKinnon
Pharmacy -
6680 Drummond Road

Rexall -
6485 Lundy's Lane

Welland

Shoppers Drug Mart -
Seaway Mall (H2-800
Niagara Street North)

Shoppers Drug Mart -
595 South Pelham Road

Loblaws Pharmacy -
821 Niagara Street North

Rexall - 399 King Street

St. Catharines

Shoppers Drug Mart -
1-387 Scott Street

WalMart Pharmacy -
420 Vansickle Road

Loblaws Pharmacy -
221 Glendale Ave.

Fort Erie

Rexall -
310-C Garrison Road

Crescent Park Pharmacy -
5-1264 Garrison Road

Grimsby

Shoppers Drug Mart -
43 St. Andrews Ave., Unit 1

Port Colborne

Boggio Pharmacy Ltd -
200 Catharines St.

Ridgeway

Boggio & Edwards
Ridgeway IDA -
307 Ridge Road N

Beamsville

Rexall -
4486 Ontario Street

Smithville

RX Drug Mart -
144 Griffin Street

Recently added Niagara Public Health clinics:

April 11 to 12
Niagara Falls: MacBain
Community Centre

April 13 to 14

Port Colborne:
Vale Health and
Wellness Centre

April 15 to 16

Grimsby:
Niagara West YMCA

April 17 to 18

Welland:
Niagara Centre YMCA

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A rare, healthy adult spotted salamander lies beside a much tinier and more common eastern red-backed salamander. (Owen Bjorgan)

Future of rare salamander looks bleak in Niagara



Owen Bjorgan
Special to The Local

The bright, yellow spots of this spectacular creature leap off its slimy skin.

As I rolled the log over, a large black salamander riddled with yellow polka dots lays squat. I can count on one hand the number of times I've come across this memorable species of mole salamander, simply named the spotted salamander (*Ambystoma maculatum*).

This was last weekend, out on another trip that found me with my girlfriend in the depths of Backus Woods, near the shore of Lake Erie.

The first time I encountered one of these superb salamanders was when I was barely old enough to remember it. Yet, it was unforgettable. I was maybe six years old. My Dad (Moe) wanted to take me hiking, so he invited his coworker and friend, nicknamed Crow, out for a local Niagara Escarpment adventure. Crow was talked up as an avid salamander enthusiast, and he still lives true to that title today.

The three of us delicately searched the trailsides under waterlogged logs and flat stones. What I remember most vividly was the moment those bright yellow "lights" flashed up from the dark soil. Crow had found one, and as a budding nature enthusiast before I even knew it, I was hooked for a lifetime to see what else is out there. Nothing looks quite like a spotted salamander.

Since then, I have seen just three others at different locations in southern Ontario. These amphibians live and love where old growth forests grow on mounds of land. They like these hills adjacent to stagnant

wetlands in their various valleys. All in all, it's an increasingly hard combo to come by in southern Ontario.

This is exactly the type of habitat scenario you can find out toward Backus Woods and Long Point, which I have made a habit of exploring during the onset of spring conditions.

From this exact time last year, I remember where I discovered a small, pinky-finger sized juvenile of the spotted salamander. It was tiny, but provided a huge sign that big, chubby adults were in the area. That's the one you see pictured with this article, which was found after selectively searching the same area where we found last year's little one. Populations of these creatures tend to remain in a certain geographical area which specifically suits their habitat needs.

Emphasis might be put on the word "needs." Spotted salamanders have relatives of the same family, like the blue-spotted salamander and Jefferson salamander. This robust trio of mole salamanders all share the same requirements of habitat. Humans simply can't recreate the soil composure and habitat features that thousands of years of uninterrupted processes yield.

I found another spotted salamander on this trip, roughly one-third the mass of the one pictured, but even more vividly spotted. The expression of brighter and more vivid colouration is common across younger reptiles and amphibians around the globe.

What strikes me more than the fascinating colours is the power of a story from my childhood. That curiosity has carried forward over the years, and it keeps me looking for those heart-racing finds. It's important to locate and recognize where certain species are for the sake of environmental knowledge and conservation. It's equally important to take a

moment and look at this alien-like creature, which is actually much more earth-like than you. It's a distinguished moment when you share time and space with such a living thing.

I pick up the salamander while my partner holds the log back. I am purposeful to muddy my hands with the surrounding soil, so I can minimize any potential skin damage to the sensitive being, which absorbs both water and nutrients through its skin. The log is placed back without squishing the virtuous vertebrate, and I remark, how can a creature the size of your hand keep propelling you into worlds that are thousands of acres in size?

Even if you don't find the salamander you're looking for, it's a lot like golfing or fishing. You can score really poor at golf, or perhaps catch no fish, but you can still have the happiest day out. The outdoors environment is constantly rewarding curious minds with its plot twists and beautiful seasonal changes. I believe that when I look back to the specific afternoon hike with my Dad and Crow as a kid, it was that moment which led me to the biggest and best salamander find in my life a few days ago.

Did I mention the epic canoeing routes, sandbank cookouts, and hundreds of acres to yourself? Those are just some of the things that came packaged with the hunt for a spotted salamander.

We do have a resident population here in Niagara-on-the-Lake. It is small, and likely genetically isolated from other "spotties." With continued habitat degradation of lands surrounding the Niagara Escarpment, their future as NOTL residents looks bleak at this rate.

With moments of discovery come moments of appreciation for our natural surroundings, and we may find ourselves surprised at where we end up next because of it.

December, when Ontario went into lockdown. When things began to lift again in March, Debbie resumed her weekly Fort Erie classes and added Ridgeway classes at the Crystal Ridge Community Centre for a few weeks until this new lockdown.

MORE ABOUT NIA

Debbie explained there is a combination of routine and encouragement to move on your own. It's about expression and response to the music. "You don't have to follow the teacher exactly. We encourage that."

To further the experience, "We also encourage people take make some noise. It's more release. Like when punching out, make a HAA! sound. This was hard at first for me. We aren't used to this type of outward release. She explained, with being able to modify, it works with the limits of any injuries. "Because it's non-impact aerobics, you're still moving, you're getting your heart rate up, working your muscles and joints, but its not hard on your body because you are in charge of your own

moves."

Debbie looks forward to returning to her classes as soon as the pandemic restrictions lift to allow.

"The first class is free so anyone can try it to see if it is for them without any obligation."

You can contact Debbie Baer-Gilbert on Facebook. Women and men are welcome.



BTower, first NIA class Oct 2020 - Cloudia Gonzalez, Stephanie Roots, Carla McLean, Tami Dickson, Dale Baer and Avril Kevill



FORT ERIE'S NEW FIRE STATION TO SAVE MONEY, BETTER SERVE THE COMMUNITY

Submitted by Dominique Lalama

In 2020, two years after a new fire station in Fort Erie was proposed, Town Council approved plans. Fort Erie Fire Station 4 will be rebuilt by combining Stations 4 and 6.

The proposal arose out of a recommendation from the Fort Erie Fire and Emergency Services organizational review conducted by POMAX consulting in 2017. The review acknowledged that response times could be improved upon for the communities of Ridgeway and Crystal beach if their Stations, 4 and 6, were amalgamated, and last year, council agreed with that recommendation.

Fire Station 4 is predicted to cost around \$6.55 million, but can be considered to be more cost-efficient in the long run as it will reduce the need for improvements in both individual Stations by \$275,000, and the profit made from the selling of both

buildings will go towards the development of the new station.

The blending of the two stations has also been estimated to save taxpayers \$900,000 in the next decade, as it will reduce fleet size while maintaining the same level of fire services. Construction for the new Fire Station 4 is expected to be completed in February 2022.

The building will be located at Ridge Road North between Frances Street and Rebstock Road.



Breaking Ground with Fire Chief Ed Melanson and Mayor Wayne Redekop at the new Fire Station 4 location.

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THOROLD NEWS

Thorold now has over 100 active cases of COVID-19

BEYOND LOCAL: Indigenous youth are playing a key role in solving urgent water issues 2

Good morning, Thorold!

BEYOND LOCAL: Why some songbirds make migratory pit-stops to replace worn and ragged feathers

ONTARIO: Province lowers minimum age for AstraZeneca shot to 40 from 55 starting Tuesday

CANADA: How you can use social media to help debunk COVID-19 misinformation

Good morning, Thorold!

BEYOND LOCAL: Too much sitting is bad for you — but some types are better than others

Ontario walks back new pandemic police powers following widespread backlash

Second anti-lockdown rally in Niagara draws hundreds, including federal party leader (4 Photos) 2

REMEMBER THIS? In 1959, the Second Canal was drained 1

Two more charged in connection to St. Catharines gathering

BEYOND LOCAL: How to cope with pandemic

TOP STORY



Testing shows Brazilian, South African variants likely present in Niagara, Hirji says

PUBLIC NOTICE

Notice of Online Public Information Centre #1
Water and Wastewater Master Servicing Plan Update

[Learn More](#)

Niagara Region
niagararegion.ca/projects

SPOTLIGHT



Gain control of your personal finances the DIY way



7 ultimate backcountry adventures in Caledon

You've written your will, but what else do you need to plan?

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Listings Today

Events	4	13
view all	This Week	Total
Buy & Sell	1	5

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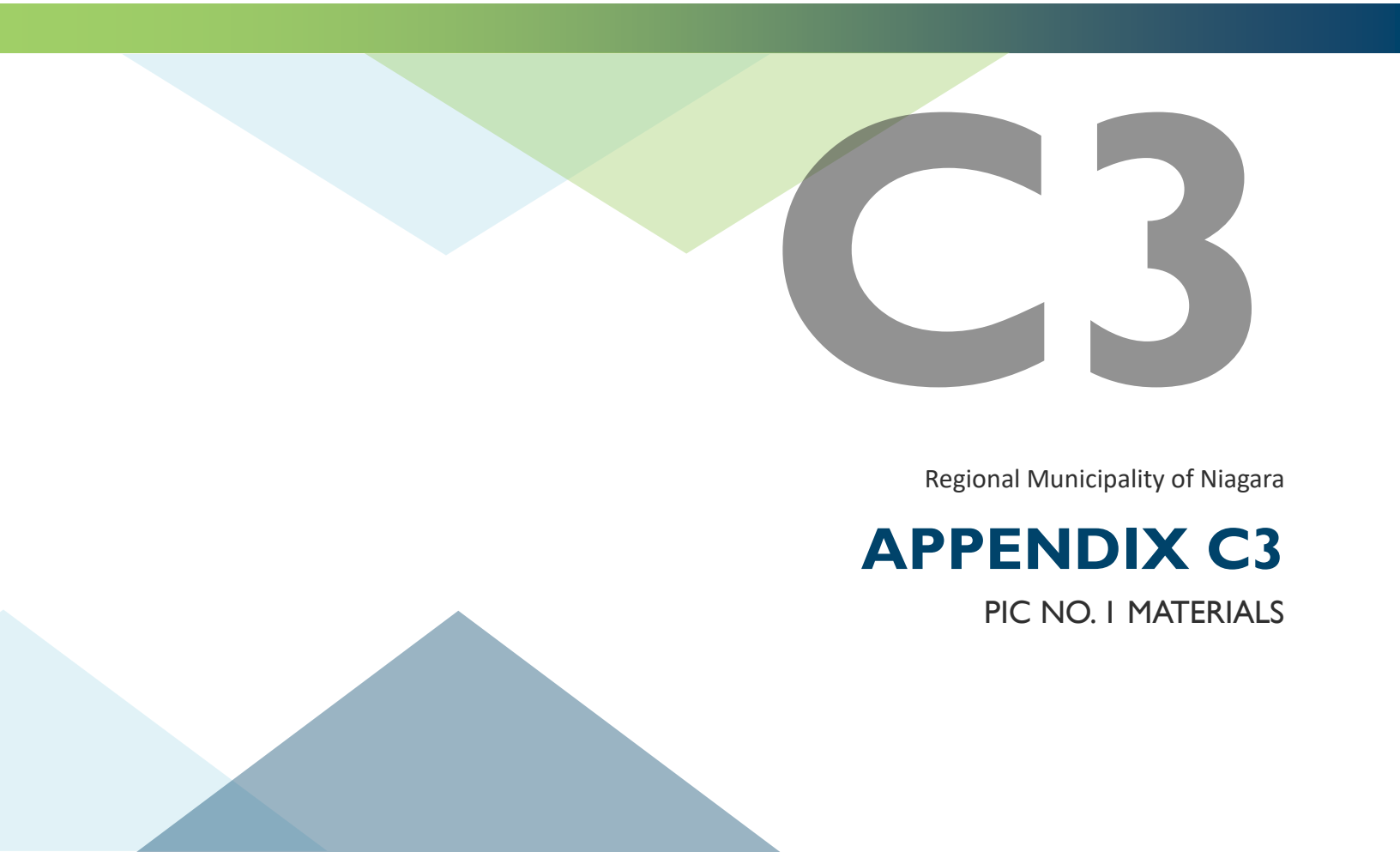
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A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background for the title section.

C3

Regional Municipality of Niagara

APPENDIX C3

PIC NO. I MATERIALS

Virtual Public Information Centre No. 1

This document is provided as an alternative format that is originally hosted using ESRI StoryMaps. It is provided for those who may not have the compatible browser to view the original virtual public information materials online.

Project Introduction

The Regional Municipality of Niagara has initiated a Region-Wide Water and Wastewater Master Servicing Plan Update (MSPU) to provide safe, sustainable and optimized Water and Wastewater services that support growth.

This study is in response to the Provincial Growth Plan forecasts which identified the need for an additional 214,000

people and 81,000 jobs in the Niagara Region by 2051. Another key driver of this study is the need to sustain existing levels of service. This study will identify the need, timing and cost of water and wastewater servicing infrastructure required to support Region growth to 2051.

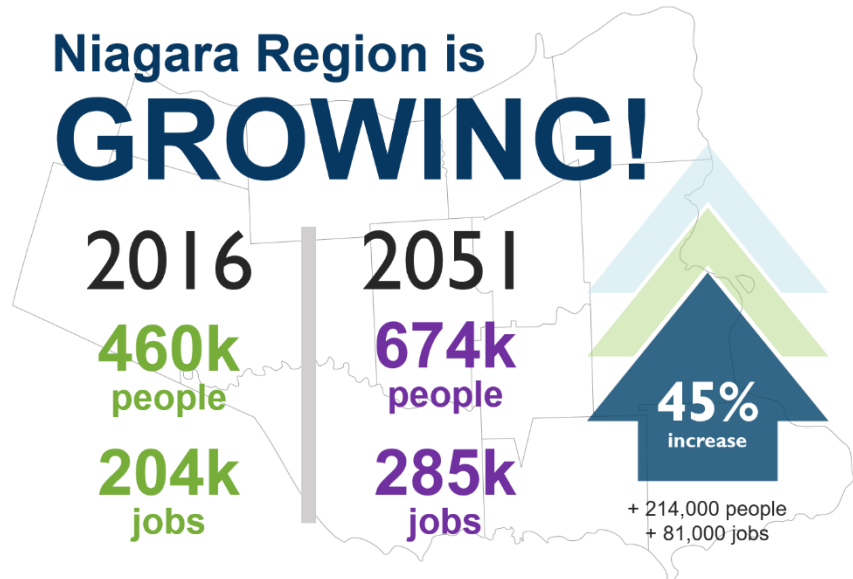
The MSPU follows the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans and will satisfy Phases 1 and 2 of the Class EA process.

Problem and Opportunity Statement

Niagara Region has completed several updates to the Water and Wastewater Master Plan. The most recent 2016 MSPU, completed in 2017, looked at servicing planned growth to year 2041.

With an updated planning horizon to 2051, the 2016 Master Servicing Plan needs to be updated to determine how the Region's water and wastewater infrastructure will establish a cost effective infrastructure program that meets the service needs of existing and future users, meets regulatory and legislative requirements, supports growth in a sustainable and responsible manner, and addresses the priority areas impacted by wet weather issues, climate change, energy management, infrastructure optimization, system security, and resiliency.

The 2021 Master Plan Update will identify and develop a long-term water and wastewater servicing strategy and capital forecast to ensure level of service for existing and future residents and businesses. This will support future growth in the community to 2051, and consider potential impacts beyond 2051.



Public Information Centre (PIC) Objectives

The objectives of the virtual PIC No. 1 are to:

1. Present the public and stakeholders with an opportunity to learn about Niagara Region's water and wastewater systems and provide insight to future growth needs in a sustainable manner.
2. Outline the MSPU project schedule and what steps are being taken to support the decision-making process.
3. Answer any questions you may have about the project process or potential outcomes.

Timeline

April 21, 2021:
Project information, project overview video, and transcript posted

April 21 to May 5, 2021:
Submit questions or comments to the Niagara Region Project Manager
niagaramspu@niagararegion.ca

May 19, 2021
Responses to questions and comments posted



Present the Public and Stakeholders with an opportunity to learn about Niagara Region's water and wastewater systems and provide insight to future growth needs and sustainability.



Outline the Master Servicing Plan Update (MSPU) project schedule and what steps are being taken to support the decision-making process.



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

Project Approach

Municipal Class Environmental Assessment Process

This project is following the Class Environmental Assessment process for Master Plan Projects, which is a decision-making process that all Ontario municipalities follow for rehabilitating and building new infrastructure.

The 2021 Niagara Region Water and Wastewater MSPU will satisfy Phases 1 and 2 of the Municipal Class EA Process.

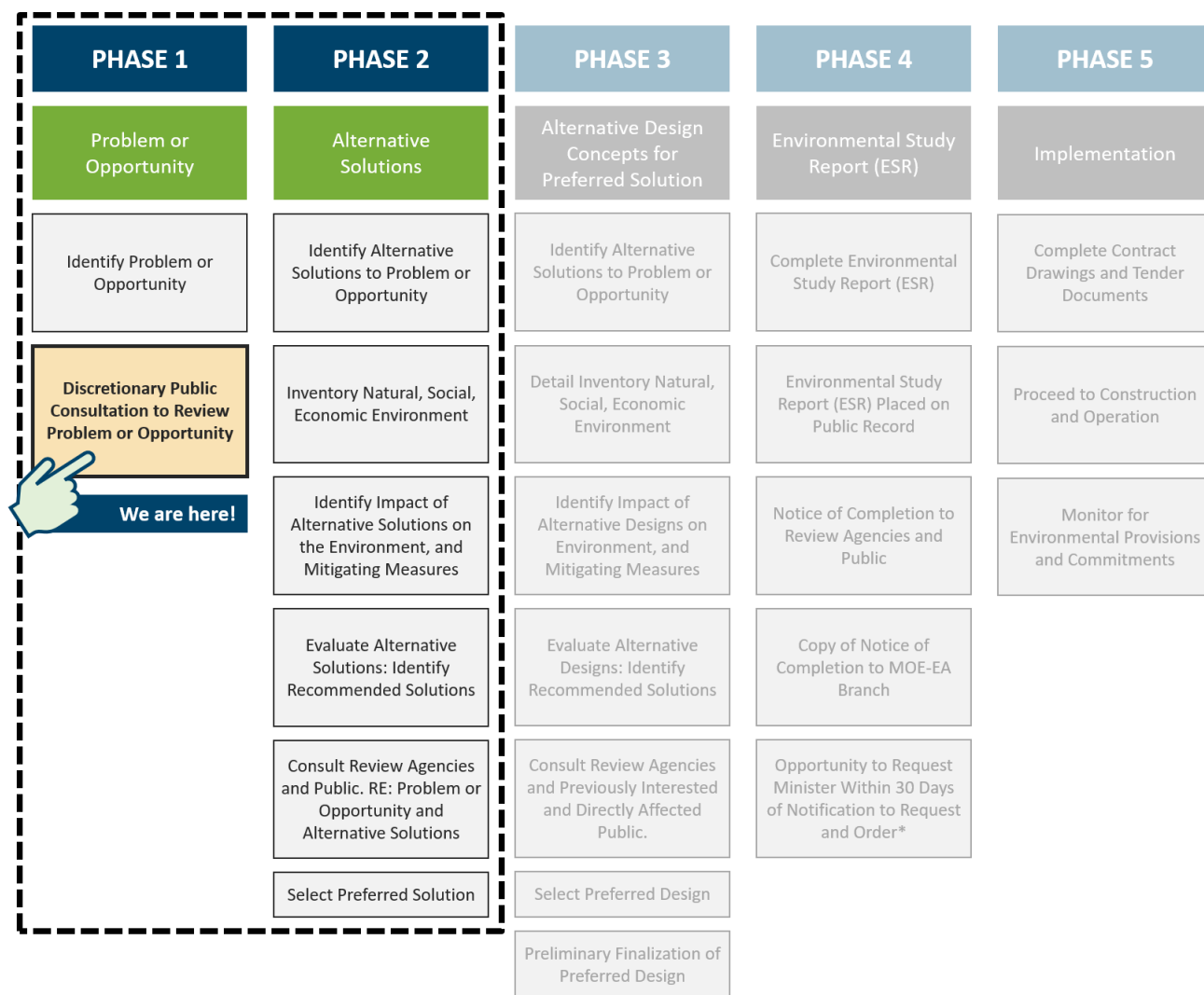


Figure 1 MEA Mandated Requirements

2051 Integration

The Provincial Growth Plan forecasts an increase in Niagara Region's population by approximately 45% from 2016 to 2051. With Niagara growing to 674,000 people and 285,000 employees by 2051, the alignment of growth, infrastructure and finance is crucial for proactively managing growth.

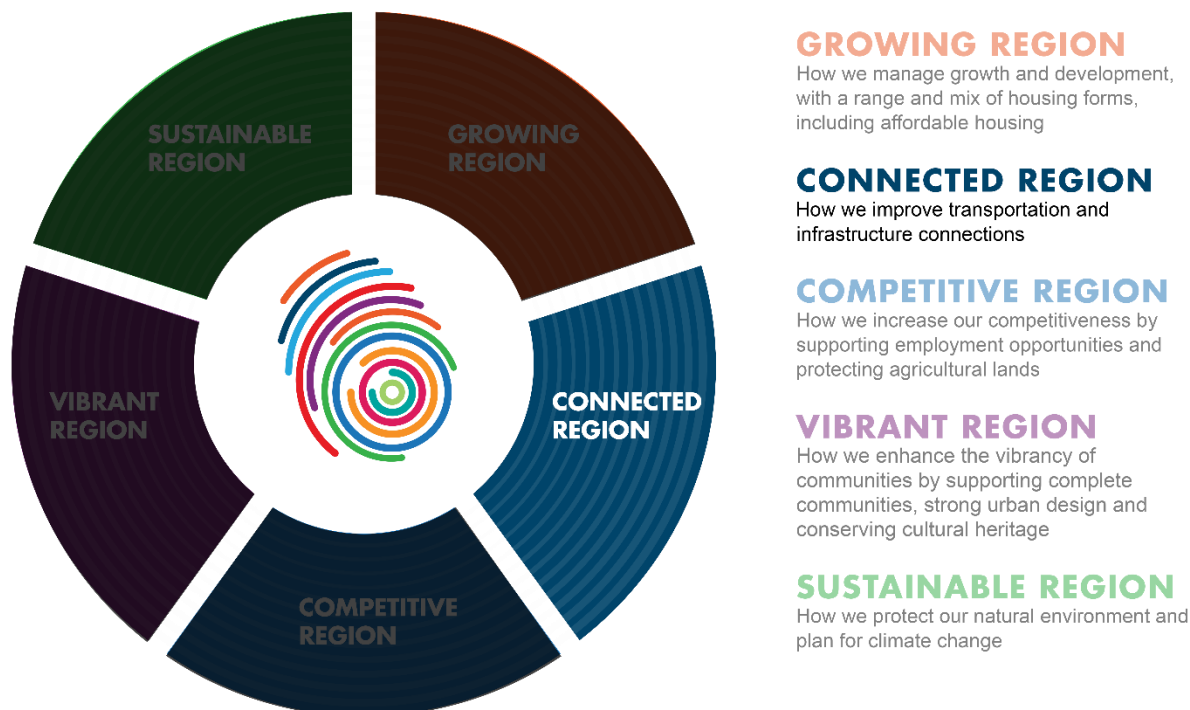


Figure 2 New Niagara Official Plan. (Source: <https://www.niagararegion.ca/official-plan/pdf/pic1-display-boards.pdf>)

Niagara 2051 represents a coordinated approach of Niagara Region's strategic projects including:

- Development Charges (DC) Background Study and By-Law
- Water and Wastewater Master Servicing Plan Update (MSPU)
- Transportation Master Plan (TMP) Refresh
- Region Official Plan – 2051 Population and Employment Forecasts

Niagara 2051 will be the overarching umbrella for the coordination of these projects to ensure consistency in public engagement as well as other project components. These studies are all linked with the anticipated growth out to 2051 and the required capital projects to support this growth.

Key Issues and Considerations

This project will build on the 2016 MSPU and evaluate technical, environmental, social and cultural, and financial components to select the preferred water and wastewater servicing strategies with a sustainable capital plan.



Key Issues and Considerations Include:

- Sound decision making for growth area selection
- Continuous improvement in Master Planning
- Integrate process with Niagara 2051
- Greenfield and intensification servicing requirements and impacts
- Integrate new infrastructure with the existing systems
- Support policy and meet regulations
- Manage capacity both regionally and locally
- Clear communication and engagement

Water and Wastewater Servicing

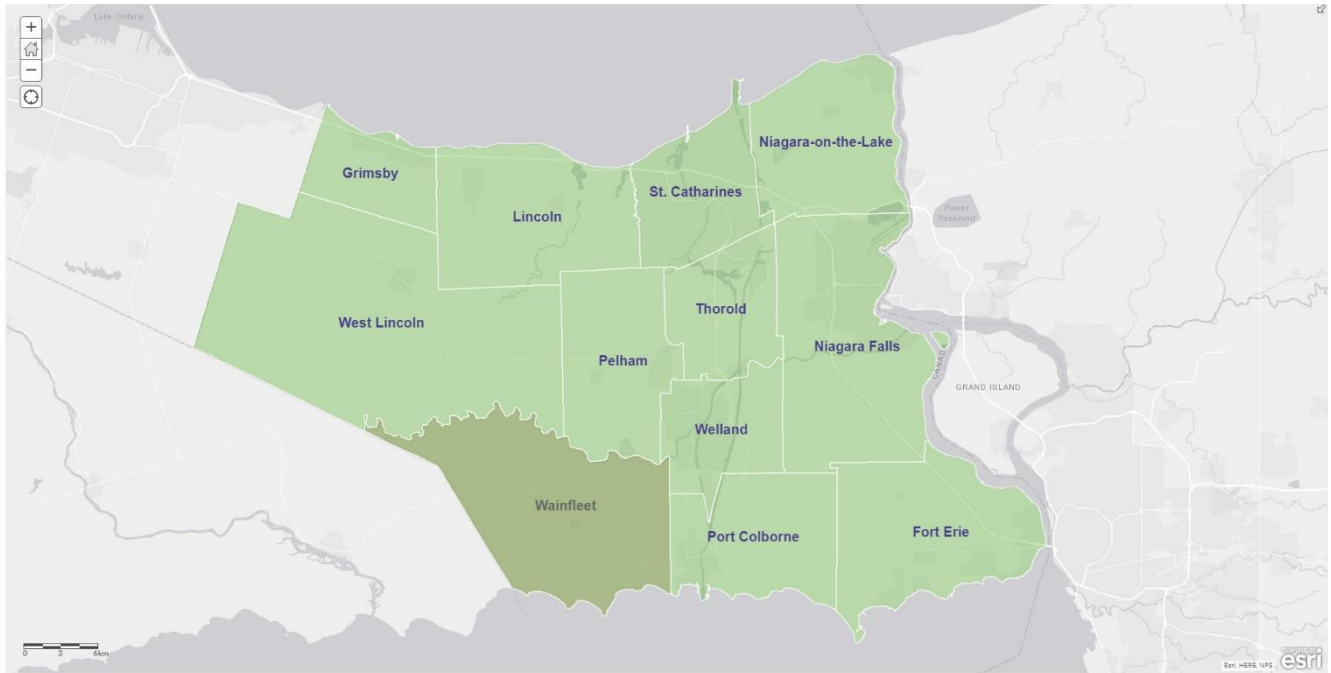
Master Plan Strategy Development and Process

Key drivers of the MSPU include planning policies at the provincial level with the Provincial Policy Statement and A Place to Grow: Growth Plan for the Greater Golden Horseshoe, as well as the Niagara Region Official Plan at the regional level.

These drivers impact master servicing plan policies, criteria and standards. They are all critical in developing water and wastewater servicing options throughout the Region. **The identification and evaluation of these servicing options is a fundamental component of the master planning process through collaborative involvement with all Municipal partners.**

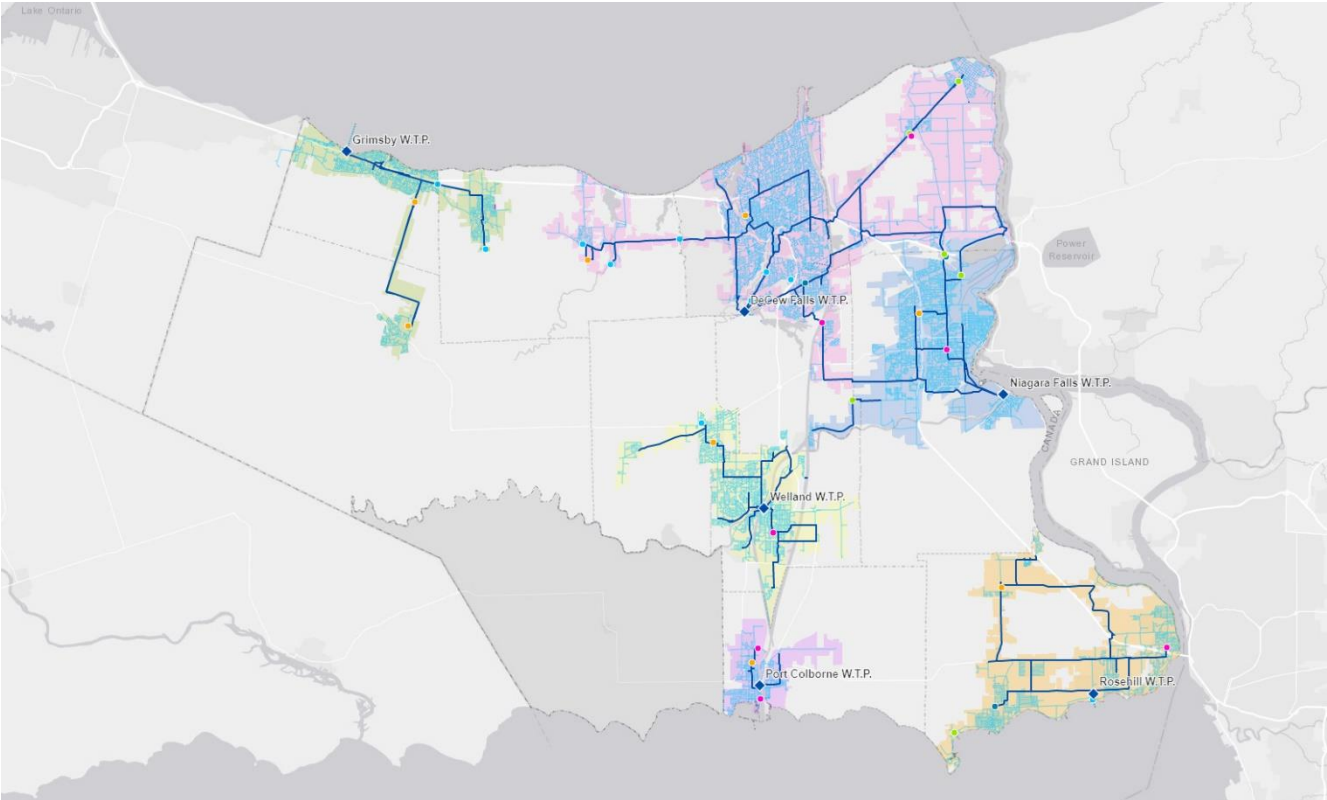


Niagara Region currently services the urban area of the municipalities of Grimsby, West Lincoln, Lincoln, St. Catharines, Thorold, Welland, Pelham, Port Colborne, Niagara-on-the-Lake, Niagara Falls, and Fort Erie. Wainfleet is not included in this study as they do not have urban Municipal services.

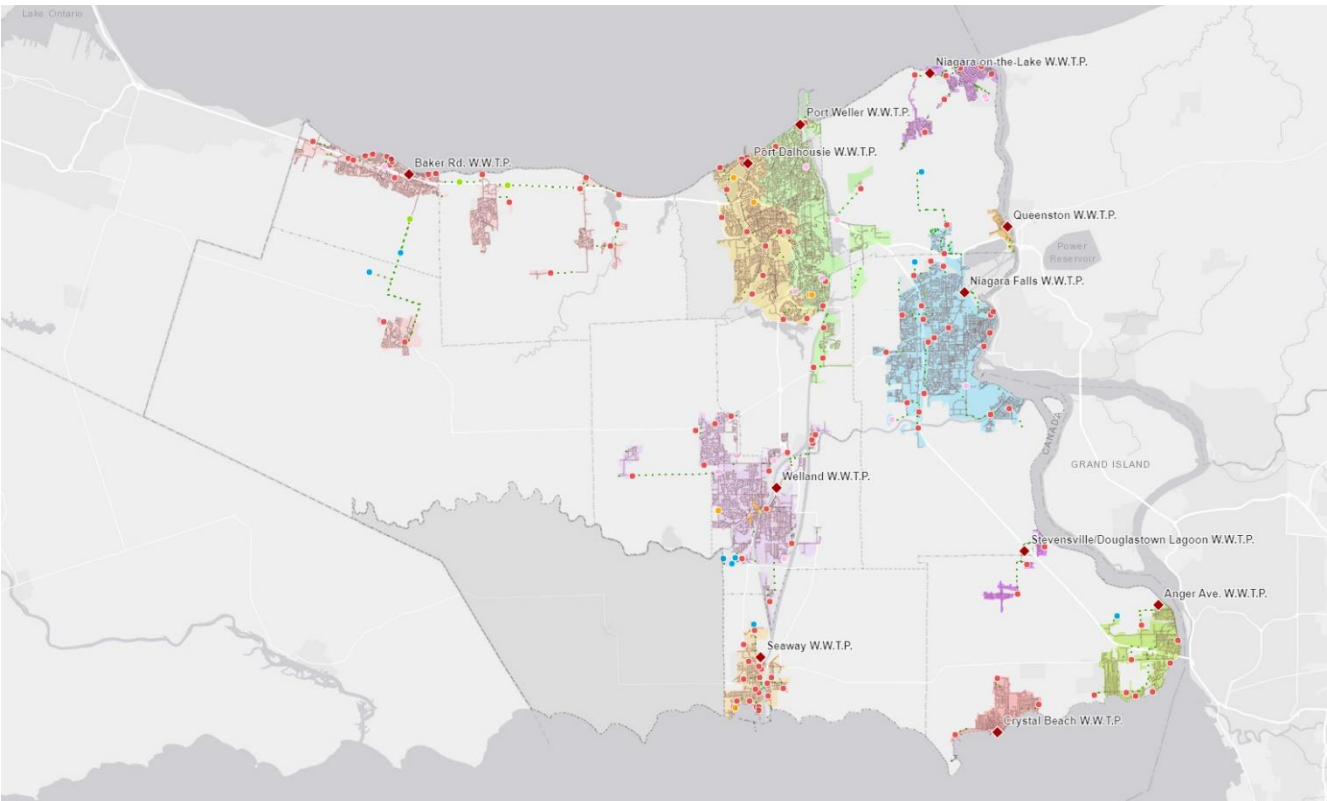


Water and wastewater servicing is operated under a two-tier system. Niagara Region is responsible for water treatment, transmission mains, storage facilities and major booster pumping stations; as well as wastewater treatment, trunk sewers and sewage pumping stations. The area municipalities are responsible for local water distribution networks, local sewer collection systems, and direct billing to the customers.

Existing Water System (Entire Region-Wide System)

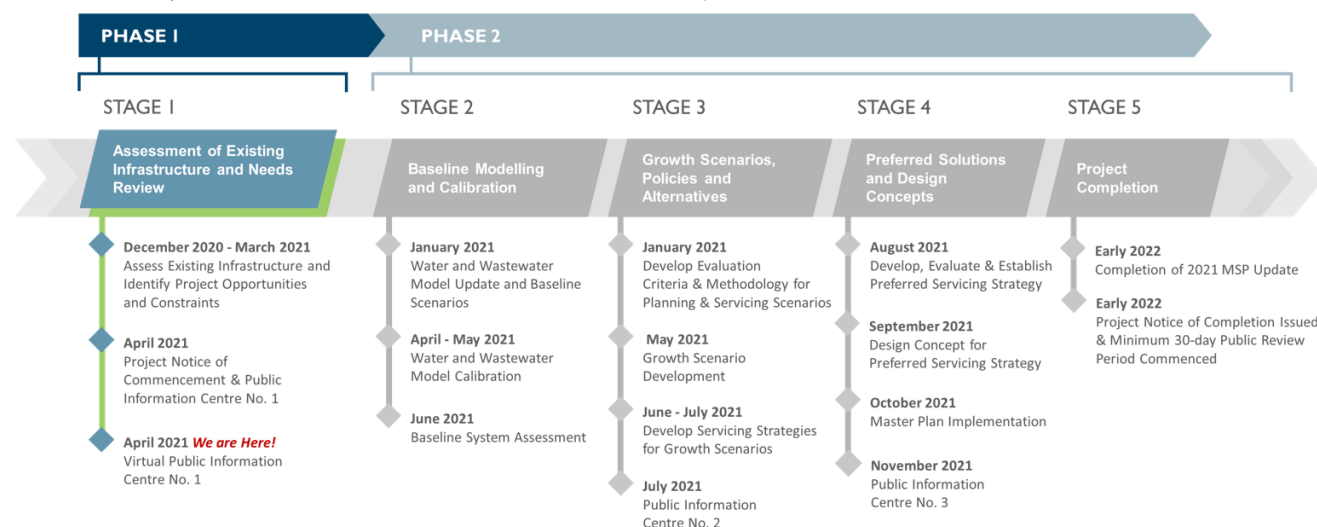


Existing Wastewater System (Entire Region-Wide System)



Project Workplan

The Municipal Class Environmental Assessment Process for Master Plan Projects



Get Involved

Public feedback is important. Sign-up to be added to the study contact list and submit any questions or comments to the Project Team.

Key Dates

- **April 21, 2021:** Virtual PIC No.1 online and running for two (2) weeks accepting questions and/or comments
- **May 5, 2021:** Deadline to submit questions and/or comments related to the project
- **May 19, 2021:** Responses to questions and comments to be published on Project Website

Submit your Questions/Comments

Sign-up for Project Notification Updates

To receive project updates and electronic invitations for future public information centres, please sign-up below. You will be added to our study contact list.

Sign-up for Project Updates

Contact Us

Ilija Stetic, Project Manager Niagara Region | niagaramspu@niagararegion.ca

Privacy and Accessibility

Niagara Region is committed to reviewing its practices, processes and the built environment for barriers to access for persons with disabilities. If you require additional or other formats for communicating, contact Niagara Region to make arrangements.

Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. All comments related will become part of the public record and may be included in the study documentation prepared for public review.

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2021 Water and Wastewater Master Servicing Plan Update – Virtual Public Information Centre (P.I.C.) No. 1

[00:01] Thank you for your interest in the Niagara Region 2021 Water and Wastewater Master Servicing Plan Update. We just initiated the project and we look forward to sharing some initial project information with you.

[00:12] Hi, I'm Chris Hamel. I'm part of the project team with GM BluePlan. We're the consultants working closely with Niagara Region to define the vision for long-term water and wastewater servicing across the Region. Let's have a look at the background info that supports the master plan.

Project Introduction

[00:28] Niagara Region is growing. With more people and more jobs out to the year 2051, this means we'll need to make sure our infrastructure, pipes, pumping, storage facilities [and] treatment plants...they need to be capable of servicing this growth.

Project Problem and Opportunity Statement

[00:42] The Niagara Region Master Servicing Plan [Update] is a big picture study that looks at the servicing needs holistically for all systems across the Region. The Region's completed Master Plans before, with the most recent in 2016. Our goal will be to build on the last one, but update the strategies with new information, new insight, and with perspective on what's important to the Region today and into the future.

[01:05] This study will develop a long-term water and wastewater servicing strategy and establish a cost-effective infrastructure capital program. This strategy will meet the servicing needs of existing and future users, meet regulatory and legislative requirements, support growth in a sustainable and responsible manner, and address the priority areas of climate change, energy management, system optimization, and system security and resiliency.

P.I.C. Objectives

[01:34] We have recorded this presentation to support our public consultation and engagement as part of the Master Servicing Plan. In the past, we would have normally held a public meeting in a central location to meet in person and discuss the study. However, with our public gathering restrictions related to COVID-19, we are finding that we can still get a great deal of information shared through these virtual approaches.

[01:55] Along with this video, we've posted project information online at our project page on the Niagara Region website. Our objectives at this first point of contact during the study, or what's important right now is the following.

[02:08] We're hoping you can learn more about the water and wastewater systems at Niagara Region and start to understand how growth and sustainability principles impact these systems.

[02:18] We want to outline the Master Servicing Plan Update process, outline the overall schedule, and show you the steps and decision-making process involved in completing the study.

[02:28] And we want to make sure you have an opportunity to get involved in the Master Plan process. We'll provide an opportunity to provide comments or ask questions and ultimately, we will get back to you.

Project Approach

[02:40] The Niagara Region Master Servicing Plan Update will follow Phases 1 and 2 of the Class Environmental Assessment process. This is a prescribed process that ensures we properly define the problems and opportunities, we look at a number of different alternatives for servicing strategies, we evaluate these alternatives across environmental, social, legal, technical and economic criteria, and that we establish a sustainable and supported preferred water and wastewater strategy. This approach will be completed with public and stakeholder engagement through each step.

Niagara 2051

[03:11] It's also important to understand the Master Plan is component under Niagara 2051. Niagara 2051 is a coordinated approach for the Niagara Region's strategic projects including the Region Official Plan and comprehensive growth management strategy update, the Region's Development Charges By-law update, a refresh to the Transportation Master Plan, and our Water and Wastewater Master Servicing Plan Update.

Key Issues and Opportunities

[03:35] There are many key issues and elements being considered under this update [such as] how can servicing inform and support the decision making for growth planning? Understanding the unique impacts of servicing greenfield versus intensification areas, or how will the new infrastructure integrate with the existing systems and facilities, and understanding the coordination and integration needed between the Niagara Region's infrastructure and operations and each of the Local Area Municipalities infrastructure and operations.

[04:05] We will ensure we look at key servicing issues such as managing wet weather flows and providing system security and resiliency. And we need to provide clear communication and engagement throughout.

Study Area

[04:19] The Master Servicing Plan is focused on the municipal urban systems across the Region. This includes servicing for all Local Area Municipalities except Wainfleet.

[04:29] Water and wastewater servicing is operated under a 2-tier system. Niagara Region is responsible for water treatment, transmission, storage facilities and major pumping stations; as well as wastewater treatment, trunk sewers and sewage pumping.

[04:41] The Local Area Municipalities are responsible for the local water distribution networks, local sewer collection systems and direct billing to the customers.

[04:50] As a foundation to our study, we review key baseline and performance information on the existing systems and facilities.

Water Servicing

[04:57] For water, we're going to look at each of the systems. Some are independent, like down in Fort Erie, while some are interconnected for multiple communities like the system that services Grimsby, Lincoln and West Lincoln.

Wastewater Servicing

[05:09] Similarly for wastewater, we will look at all the collection systems and facilities. Wastewater is conveyed by gravity as much as possible to the treatment plants and some areas need to be pumped to gravity sewers. Some systems are independent like Anger Avenue down in Fort Erie, and others are interconnected like Baker Road that also services parts of Grimsby, Lincoln and West Lincoln.

Project Work Plan

[05:35] Our goal for the Master Servicing Plan Update is to work through the alternatives and develop a preferred strategy before the end of the year. We're proposing to come back to the public and stakeholders in the summer and late fall, with subsequent public information centres formatted similar to this event.

[05:50] This will provide further opportunity to comment and provide feedback on the Master Servicing Plan, as well as see documentation and decision making as we move along the process.

Get Involved or Contact Us

[06:00] Please refer to our project page on Niagara Region's web site. There's helpful information, background as well as more detailed information related to the materials for this project's information centre.

[06:11] There's also access to comment forms for submission to our project team. We will consolidate the comments, and any other information and feedback received through this PIC. This will allow our project team to move forward into the development and evaluation of alternative water and wastewater strategies. We'll also continue to keep all interested parties informed of the progress of the study.

[06:33] So on behalf of Niagara Region, we appreciate that you have taken the time to watch this video and please don't forget to access the project website. So again, thank you for your interest in the Niagara Region Water and Wastewater Master Servicing Plan Update.

A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background for the title section.

C4

Regional Municipality of Niagara

APPENDIX C4

PIC NO. I SUMMARY REPORT

2021 Water and Wastewater Master Servicing Plan Update

Public Information Center No.1 – Comments Received

Virtual Public Information Centre (PIC) No. 1 was held from April 21 to May 5, 2021. This included an introductory video presentation, project materials for review, and opportunity for interested individuals to provide comments via the project email.

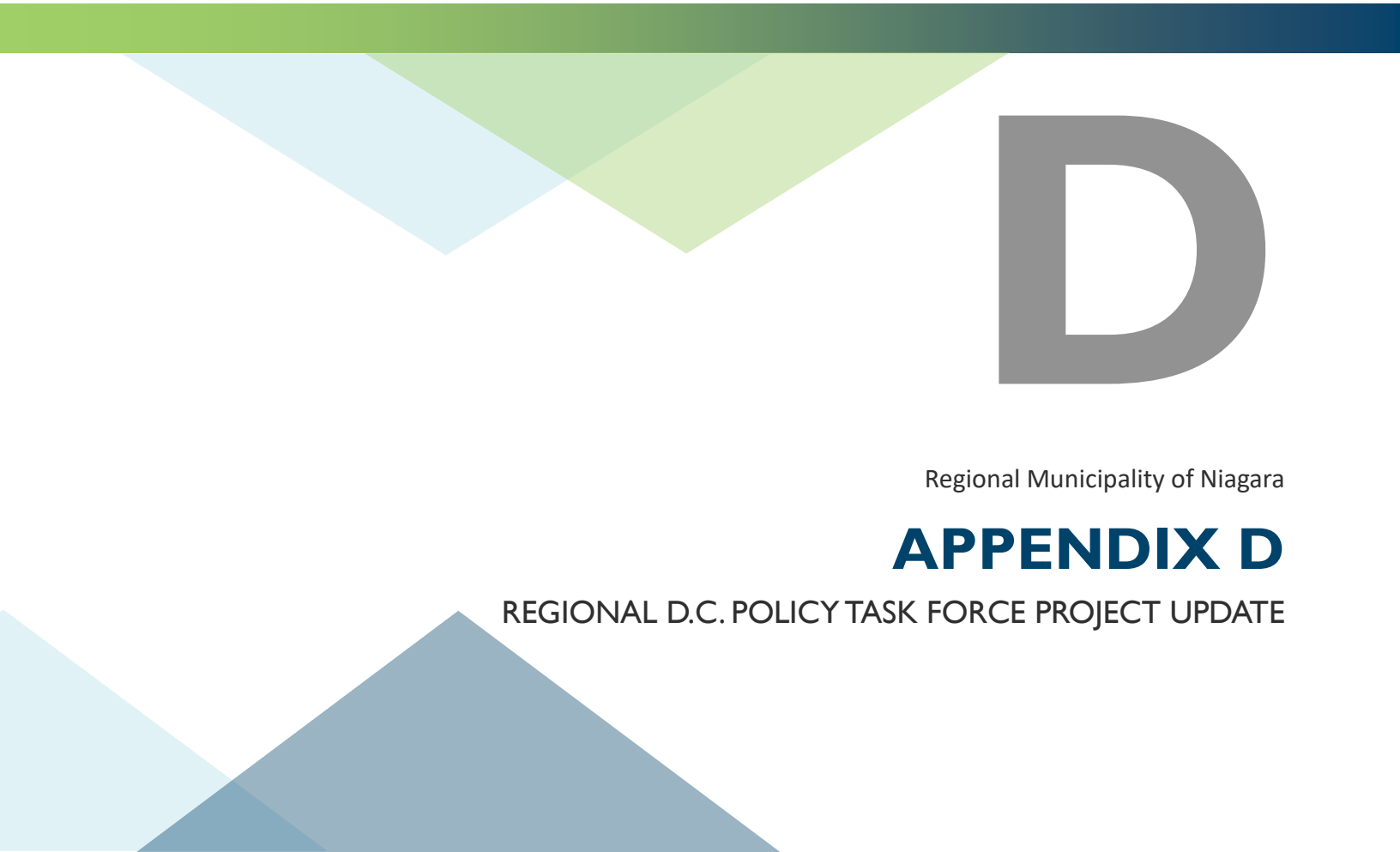
PIC No. 1 materials for review included project introduction, the problem and opportunity statement, project approach, key issues and considerations, preliminary 2051 growth numbers, review of existing water and wastewater systems, and preliminary project workplan. These materials will remain posted on the Master Servicing Plan Update project website:

- Video Presentation: <https://www.youtube.com/watch?v=ehitqhS16hQ>
- Project Information: <https://arcg.is/OvGb40>

During the 2-week engagement period, the video presentation received 98 views. Emails were received from interested stakeholders and comments were provided to support the Master Servicing Plan Update evaluation process:

- Received confirmation of review agency contacts;
- Interested residents signed-up to receive future project notices;
- Requested consideration for planned Queenston Quarry redevelopment;
- Requested status of Baker Road Wastewater Treatment Plant site alternatives, capacity concerns, expansion plans, and impacts to nearby residential areas (the Master Servicing Plan Update will look at long-term needs and identify additional upgrades required – this will determine the need for a Class Environmental Assessment/Detailed Design to address capacity concerns, residential impact, and other potential concerns);
- Received Hydro One infrastructure and associated rights-of-way mapping to identify potential conflicts and scheduling needs;
- Requested consideration for odour control practices; and,
- Requested management of system overflows.

The feedback above will be considered in the development and evaluation of water and wastewater system alternatives. The Master Servicing Plan Update will satisfy Phases 1 & 2 of the Municipal Class Environmental Assessment process and will host two (2) additional Public Information Centres to present the preliminary preferred water and wastewater servicing alternatives and servicing solutions respectfully.

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D

Regional Municipality of Niagara

APPENDIX D

REGIONAL D.C. POLICY TASK FORCE PROJECT UPDATE

**THE REGIONAL MUNICIPALITY OF NIAGARA
REGIONAL DEVELOPMENT CHARGES POLICY TASK FORCE
MINUTES**

**RDCPTF 3-2022
Thursday, May 19, 2022
Council Chamber / Video Conference
Niagara Region Headquarters, Campbell West
1815 Sir Isaac Brock Way, Thorold, ON**

Committee Members Present in the Council Chamber : Foster (Committee Vice-Chair), Insinna (Committee Chair), Ip, Rigby, Steele

Committee Members Present via Video Conference: Bradley (Regional Chair), Butters, Bylsma, Disero, Greenwood, Huson, Junkin, Zalepa

Other Councillors Present in the Council Chamber: Easton, Gibson

Absent/Regrets: Chiochio, Jordan, Redekop

Staff Present in the Council Chamber: H. Chamberlain, Director, Financial Management and Planning / Deputy Treasurer, T. Harrison, Commissioner, Corporate Services/Treasurer, B. Hutchings, Senior Tax and Revenue Analyst, P. Lambert, Director, Infrastructure Planning & Development Engineering, P. Miltenburg, Transportation Capital Plan Specialist, M. Murphy, Associate Director, Budget Planning and Strategy, A.-M. Norio, Regional Clerk, A. Rotundo, Revenue Analyst, C. Ryall, Director, Transportation Services, M. Sergi, Commissioner, Planning & Development Services, G. Spezza, Director, Economic Development, J. Spratt, Administrative Assistant to the Regional Clerk, R. Tripp, Chief Administrative Officer, B. Zvaniga, Interim Commissioner, Public Works

Staff Present via Video Conference: E. Acs, Manager, Community Planning, D. Barnhart, Chief of Staff, Governance, Dr. M. M. Hirji, Acting Medical Officer of Health, A. Jugley, Commissioner, Community Services, K. Lotimer, Legislative Coordinator, K. Scholtens, Manager, Business Development, Expedited Services, I. Stetic, Water & Wastewater Development Planning Project Manager, S. Wood, Legal Counsel

Others Present via Video Conference: D. Abbs, Manager, Watson & Associates, C. Hamel, President, GM Blue Plan

1. CALL TO ORDER

Committee Chair Insinna called the meeting to order at 4:00 p.m.

2. DISCLOSURES OF PECUNIARY INTEREST

There were no disclosures of pecuniary interest.

4. DELEGATIONS

4.1 Regional Development Charge By-law Update (RDCPTF-C 7-2022 (Agenda Item 5.1))

4.1.1 Sarah Marshall, Phil Tregunno, George Lepp, and Kai Wiens, Ontario Tender Fruit Growers

Sarah Marshall, Ontario Tender Fruit Growers, appeared before the Task Force, to request that agricultural use exemptions continue in the new by-law and that an exemption for farm accommodations (farm help houses) be included in the new by-law.

4.1.2 Debbie Zimmerman, Grape Growers of Ontario

Debbie Zimmerman, Chief Executive Officer, Grape Growers of Ontario, appeared before the Task Force, to request that Council continue with agricultural use exemptions in the Region's Development Charges By-law, highlighting the importance of these exemptions to the agricultural industry in Niagara.

4.1.3 Chris Mullett Koop, Niagara Federation of Agriculture, and Ben Lefort, Ontario Federation of Agriculture

Chirs Mullett Koop, Niagara Federation of Agriculture, and Ben LeFort, Ontario Federation of Agriculture, appeared before the Task Force, to request that Council extend the August 31, 2022, expiry date of the current Development Charges By-law, to allow for further consultation with the Niagara agriculture industry and to request the re-instatement of the exemption for farm help houses in the new by-law.

- 4.1.4 Andrew Morse, Executive Director, Flowers Canada (Ontario) Inc., Flowers Canada Growers and Dr. Jeanine West, Grower Technical Analyst, Landscape Ontario Horticultural Trades Assoc.

Andrew Morse, Executive Director, Flowers Canada, and Dr. Jeanine West, Grower Technical Analyst, Landscape Ontario, appeared before the Task Force to request that Council maintain the current agriculture use exemptions for all agricultural buildings and the re-introduction of the farm help house exemption in the new by-law.

4.2 Brownfield Prepayment Agreement Criteria (RDCPTF-C 8-2022 (Agenda Item 5.2))

- 4.2.1 Luciano Piccioni, President, RCI Consulting and Chris Hawkswell, President, 2806598 Ontario Limited

Luciano Piccioni, President, RCI Consulting, and Chris Hawkswell, Principal, 2806598 Ontario Limited, and Niacon, appeared before the Task Force, to request that the deadline for the submission of applications for the Regional Development Charge Brownfield Reduction Program be extended from June 30, 2022, to December 31, 2022.

3. PRESENTATIONS

3.1 Transportation Services - 2022 DC Study Update

Carolyn Ryall, Director, Transportation Services, provided information respecting Transportation Services - 2022 DC Study Update. Topics of the presentation included:

- Transportation Master Plan (TMP) 2017
- 2022 TMP Confirmation Exercise
- Cost Considerations in 2022 DC Study
- Growth Related Projects in 2022 DC Study
- Long Term Strategic Transportation Projects

3.2 Water and Wastewater Development Charges Capital Program Summary

Chris Hamel, President, GM Blue Plan, provided information respecting Water and Wastewater Development Charges Capital Program Summary. Topics of the presentation included:

- Planning and Servicing Context
- Policy, Guidelines and Design Criteria
- Cost Estimating Approach
- Water Servicing Strategy and Capital Program
- Wastewater Servicing Strategy and Capital Program
- DC Program Summary

3.3 2022 Development Charges Background Study & By-law

Daryl Abbs, Manager, Watson & Associates, presented information respecting 2022 Development Charges Background Study & Bylaw. Topics of the presentation included:

- Overview of Project Status
- Policy Report and Discussion with Local Area Municipalities and the Development Community
- Summary of Growth Forecast
- Development Charges Calculations
- Survey of DCs
- Status of Transit Service

5. ITEMS FOR CONSIDERATION

5.1 RDCPTF-C 7-2022

Regional Development Charge By-law Update

Moved by Councillor Steele

Seconded by Councillor Ip

That Report RDCPTF-C 7-2022, dated May 19, 2022, respecting Regional Development Charge By-law Update, **BE RECEIVED** and the following recommendations **BE APPROVED**:

1. That the draft Regional Municipality of Niagara Development Charges Background Study **BE APPROVED**; and
2. That the Task Force **RECOMMEND** that the draft Regional Municipality of Niagara Development Charges By-law in Appendix 2 of Report RDCPTF-C 7-2022 be prepared for Regional Council consideration on July 21, 2022.

The following friendly amendment was accepted by the Committee Chair, and the mover and seconder of the motion:

That staff **INCLUDE** wording in the new Development Charge By-law that provides exemptions for non-residential lands and buildings used for agricultural use where agricultural use is defined to mean bona fide farming purposes as defined below:

“Agricultural use” means use or intended use for bona fide farming purposes including (but not limited to):

- i. Cultivation of crops, whether on open land or in greenhouses, including but not limited to fruit, vegetables, herbs, grains, field crops, marijuana, sod, trees, shrubs, flowers and ornamental plants;
- ii. Raising of animals, including (but not limited to) cattle, horses, pigs, poultry, livestock, fish and
- iii. Agricultural animal husbandry, dairying, equestrian activities, horticulture, fallowing, pasturing and market gardening;

But excluding:

- i. Retail sales activities; including but not limited to restaurants, banquet facilities, hospitality facilities and gift shops; and
- ii. services related to grooming, boarding or breeding of household pets; and marijuana processing or productions facilities

The Committee Chair called the vote on the motion, as amended:

That Report RDCPTF-C 7-2022, dated May 19, 2022, respecting Regional Development Charge By-law Update, **BE RECEIVED** and the following recommendations **BE APPROVED**:

1. That the draft Regional Municipality of Niagara Development Charges Background Study **BE APPROVED**; and
2. That the Task Force **RECOMMEND** that the draft Regional Municipality of Niagara Development Charges By-law in Appendix 2 of Report RDCPTF-C 7-2022, as amended, be prepared for Regional Council consideration on July 21, 2022.

Recorded Vote:

Yes (10): Bradley, Butters, Disero, Foster, Greenwood, Huson, Insinna, Ip, Junkin, Rigby, Steele.

No (0).

Carried

Councillor Information Request(s):

Notify religious organizations of upcoming public consultation sessions respecting the proposed changes to the Region's Development Charges By-law. Councillor Huson.

5.2 RDCPTF-C 8-2022
Brownfield Prepayment Agreement Criteria

Moved by Councillor Foster
Seconded by Councillor Steele

That Report RDCPTF-C 8-2022, dated May 19, 2022, respecting Brownfield Prepayment Agreement Criteria, **BE RECEIVED** and the following recommendation **BE APPROVED**:

1. That the criteria for the basis of prepayment agreements for the Regional Development Charge Brownfield Reduction Program, listed in Table 1 of Report RDCPTF-C 8-2022, **BE APPROVED**.

The following friendly amendment was accepted by the Committee Chair, and the mover and seconder of the motion:

That the criteria in Table 1 of Report RDCPTF-C 8-2022 **BE AMENDED** as follows:

3. Proof that Owner has ~~completed~~ **commenced** the mandatory remediation measures identified in the ESA ***and proof, including a cost estimate, that the Owner has retained qualified contractors to perform the mandatory remediation measures to remediate identified contaminants at the Property***
4. ~~Proof that the Owner has submitted a Record of Site Condition to the Province~~
7. ~~Application no later than June 30, 2022 and~~ ***Subject to the above being submitted by June 30th, 2022, an Agreement executed by August 31, 2022, and prepayment of net DC payable based on proof of remediation cost estimate***
8. ***a) By December 1, 2022, reconciliation and proof of actual remediation costs incurred to December 31, 2022***
b) By December 31, 2022, proof that the owner has submitted Record of Site Condition to the Province
9. ***(For clarification based on last paragraph of Analysis section) Agreements will expire if a building permit is not executed by***

December 31, 2022, and all DCs will be payable based on the DCs in effect on the date the first building permit is issued.

The Committee Chair called the vote on the motion, as amended:

That Report RDCPTF-C 8-2022, dated May 19, 2022, respecting Brownfield Prepayment Agreement Criteria, **BE RECEIVED** and the following recommendation **BE APPROVED**:

1. That the criteria for the basis of prepayment agreements for the Regional Development Charge Brownfield Reduction Program, listed in Table 1 of Report RDCPTF-C 8-2022, **BE APPROVED** as amended.

Carried

6. CONSENT ITEMS FOR INFORMATION

Moved by Councillor Huson

Seconded by Councillor Greenwood

That the following items **BE RECEIVED** for information:

RDCPTF-C 6-2022

Engagement Session Update 4

RDCPTF-C 13-2022

A letter from T. DiGiovanni, Executive Director, Landscape Ontario Horticultural Trades Association, dated May 16, 2022, respecting Proposed Development Charges for Agriculture

RDCPTF-C 14-2022

A letter from P. Tregunno, Chair, Ontario Tender Fruit Growers, D. Hipple, Chair, Fresh Grape Growers' Marketing Board, and B. Hipple, President, Niagara Peninsula Fruit & Vegetable Growers' Association, dated May 17, 2022, respecting Proposed Development Charge By-law

RDCPTF-C 15-2022

A letter from D. Zimmerman, CEO, Grape Growers of Ontario, dated May 17, 2022, respecting Proposed Development Charge By-law

RDCPTF 2-2022

Regional Development Charges Policy Task Force Minutes - April 7, 2022

RDCPTF-C 17-2022

A letter from S. Honey, dated May 18, 2022, respecting Proposed Development Charge By-law

RDCPTF-C 18-2022

A letter from E. Scharringa, President, Christian Farmers Federation of Ontario, and J. Kikkert, President, Niagara Christian Farmers Association, dated May 18, 2022, respecting Proposed Development Charge By-law

Carried

7. OTHER BUSINESS

There were no items of other business.

8. NEXT MEETING

The next meeting will be at the call of the Chair.

9. ADJOURNMENT

There being no further business, the meeting adjourned at 6:35 p.m.

Councillor Insinna
Committee Chair

Kelly Lotimer
Legislative Coordinator

Ann-Marie Norio
Regional Clerk

Water & Wastewater Master Servicing Plan Update

Water and Wastewater
Development Charge Capital
Program
Summary

—
May 11, 2022



Agenda

1. Planning and Servicing Context
2. Policy, Guidelines and Design Criteria
3. Cost Estimating Approach
4. Water Servicing Strategy and Capital Program
5. Wastewater Servicing Strategy and Capital Program
6. DC Program Summary
7. MSPU Next Steps

Objectives

1. Provide overview of the servicing strategies developed through the Master Servicing Plan Update
2. Provide overview of the Development Charges related to water and wastewater

Planning and Servicing Context

- Master Servicing Plan Update (MSPU) based on addressing growth to the year 2051 planning horizon with strategic consideration for potential build out requirements
- MSPU focused on municipally serviced systems (excluding Wainfleet)
- Population and Employment Forecasts based on Region led process:
 - 2051 Region Population – 694,000 people
 - 2051 Region Employment – 272,000 jobs

Key Servicing Policies

- Niagara Region will endeavor to maintain sufficient reserve capacity in its water and wastewater infrastructure and facilities to provide operational flexibility and meet potential changes in servicing conditions
- Niagara Region shall endeavor to provide reliability, redundancy and security in its water and wastewater systems with attention to high risk and critical areas
- Niagara Region shall be aware of and consider the potential impact of climate change on the planning and sizing of infrastructure
- Niagara Region shall design water and wastewater facilities with consideration to energy use
- Niagara Region will consider levels of storage beyond MOE Guidelines where appropriate in order to provide operational flexibility, energy management and system security
- Niagara Region will review a combination of servicing strategies including infrastructure and non-infrastructure (e.g. i/i reduction) solutions to meet wet weather level of service and provide sufficient wastewater capacity
- Niagara Region will approach Guidelines F-5-5 and F-5-1 such that new development will not put the Region out of compliance with regulations and the Region will consider opportunities to not increase wet weather overflows beyond current conditions

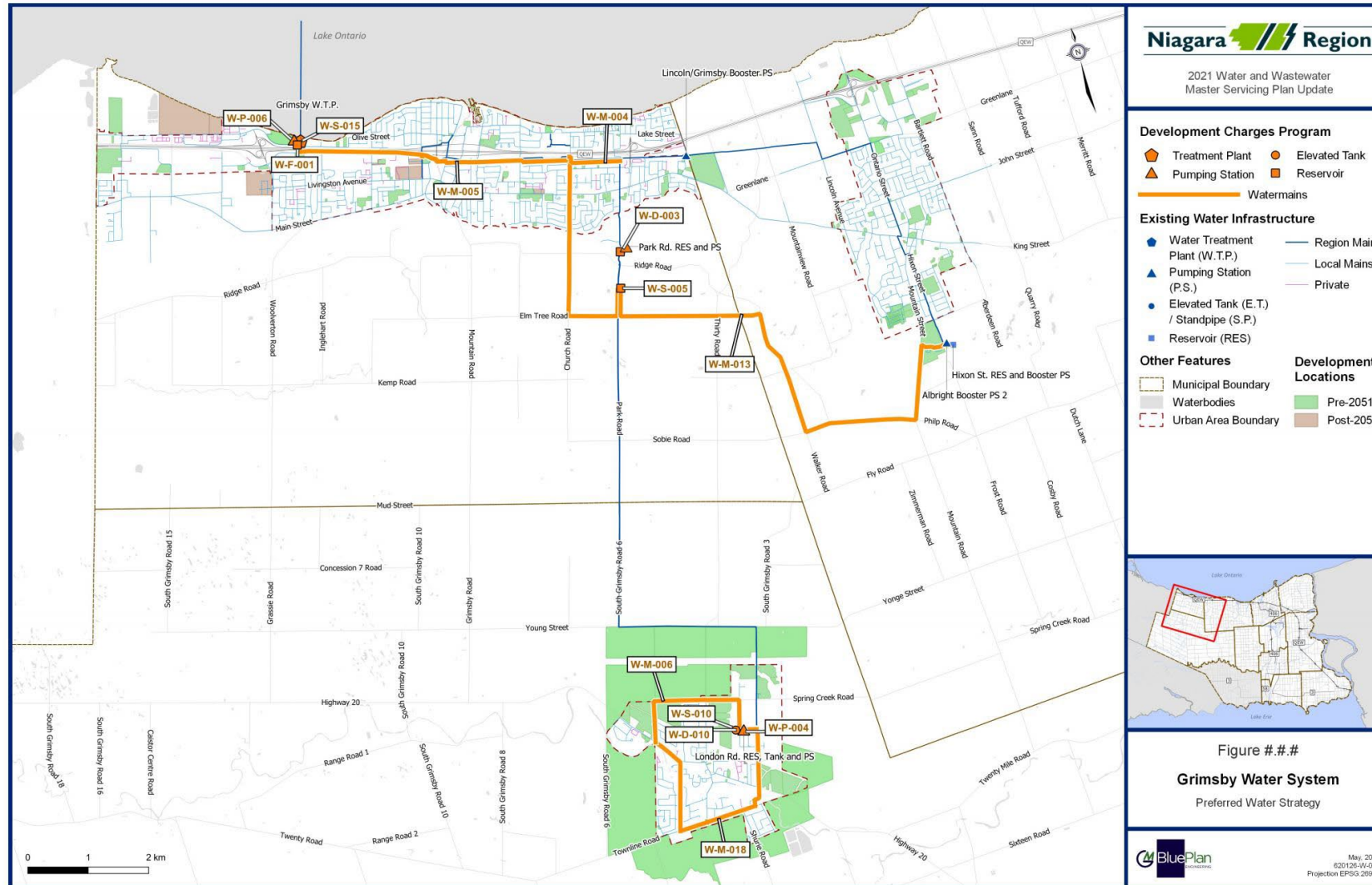
Design Criteria

- MSPU process undertook a review of per capita water consumption and wastewater flows for each system – indicates opportunity for reduction
- The Design Criteria applied to the growth projections and used to plan and size growth related infrastructure has been reduced from previous studies
 - Water per capita reduced from 300 Lpcd to 248 Lpcd equivalent (17% reduction)
 - Wastewater per capita reduced from 275 Lpcd to 267 Lpcd equivalent (3% reduction)
 - Wastewater extraneous flow adjusted from 0.286 L/s/ha to 0.286 L/s/ha for new growth areas only and 0.4 L/s target for existing areas

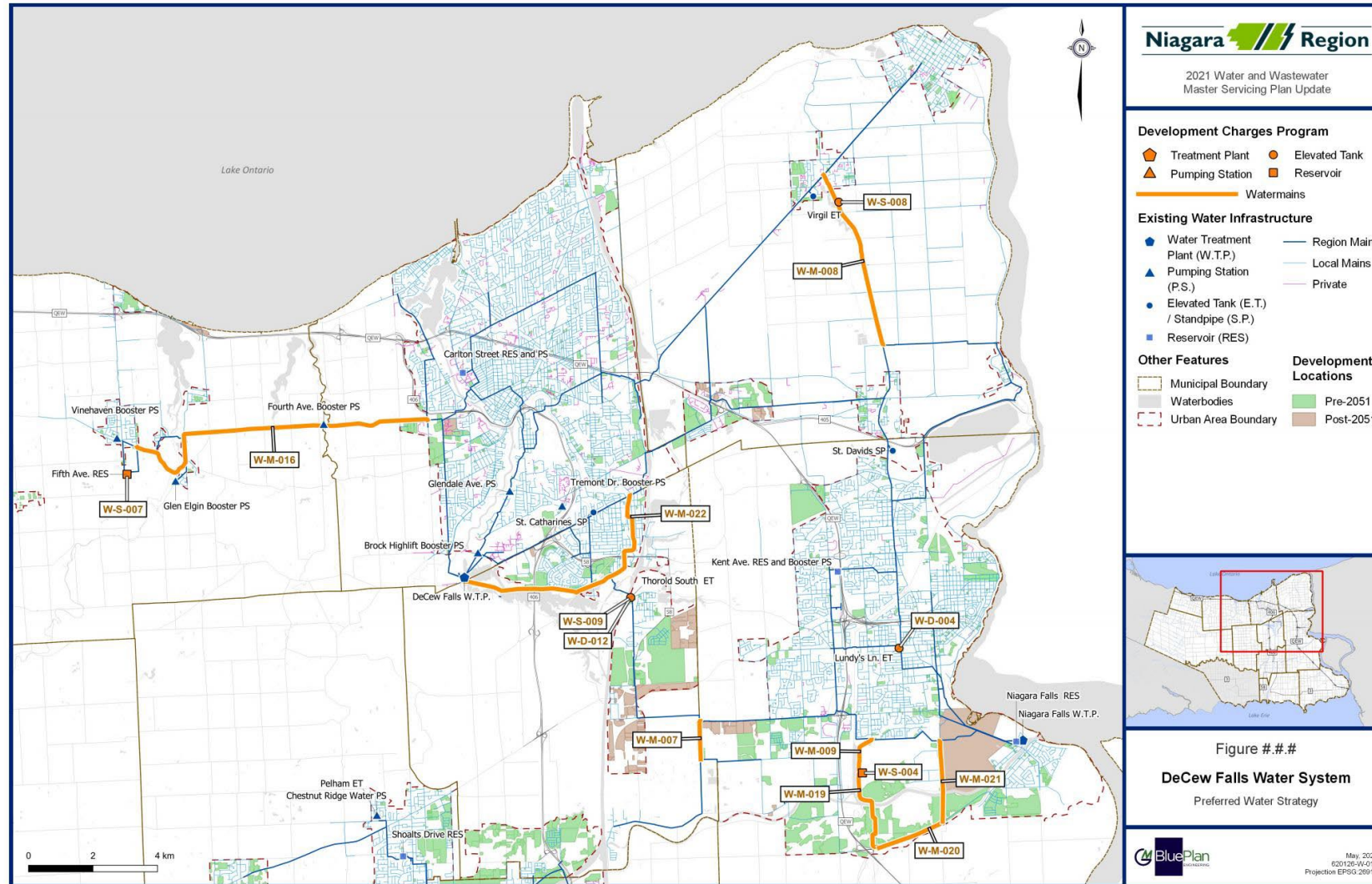
Cost Estimating Approach

- Base unit costs indexed by 4% per year from 2016 MSPU
- Property costs updated based on current market conditions
- Utilize recent studies for detailed estimates (SNF)
- Utilize perspective from construction projects in Niagara and other Regions
- Update project components
 - Internal project costs
 - Odour control
 - Facility impacts

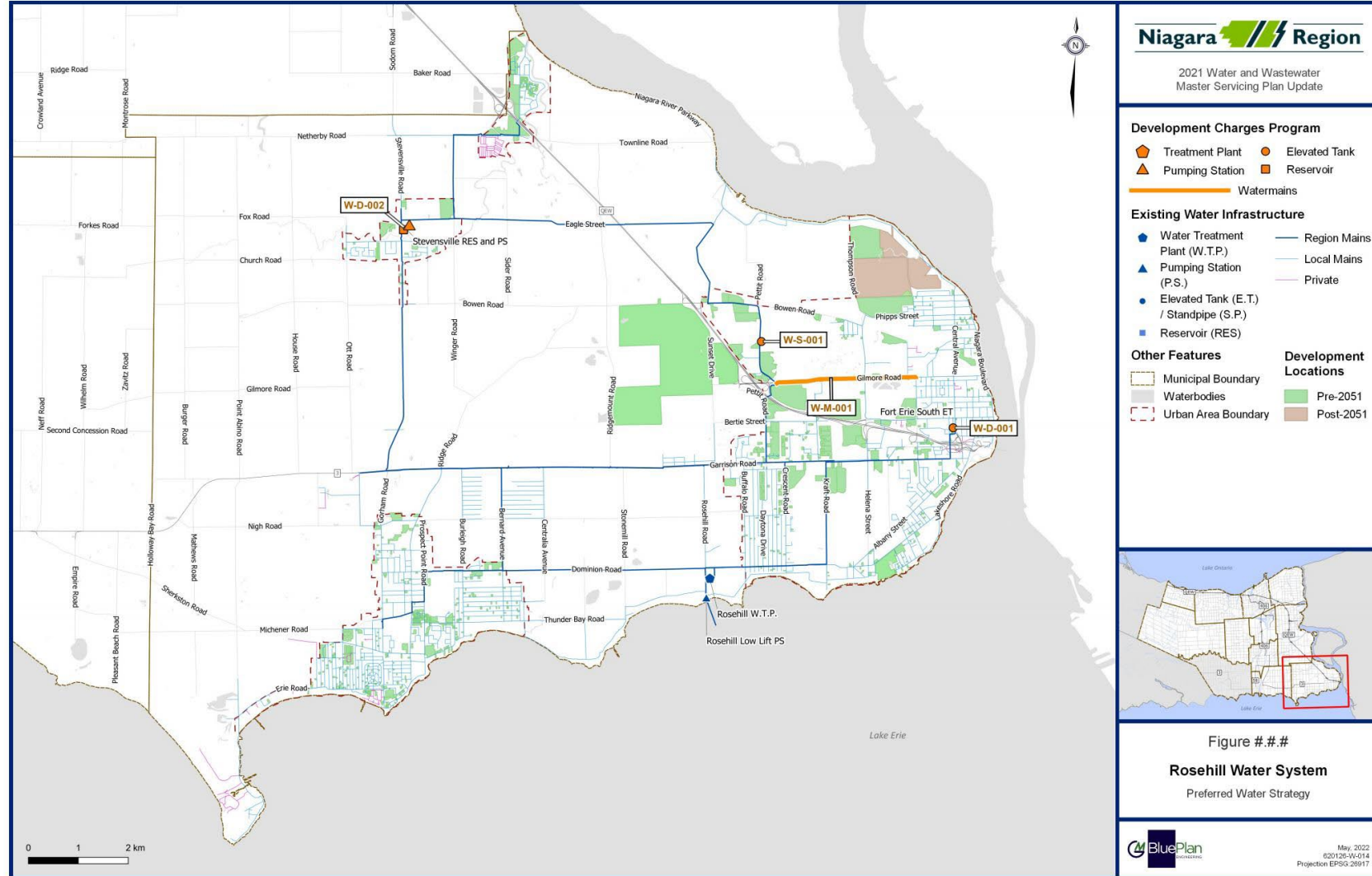
Water Servicing Strategy



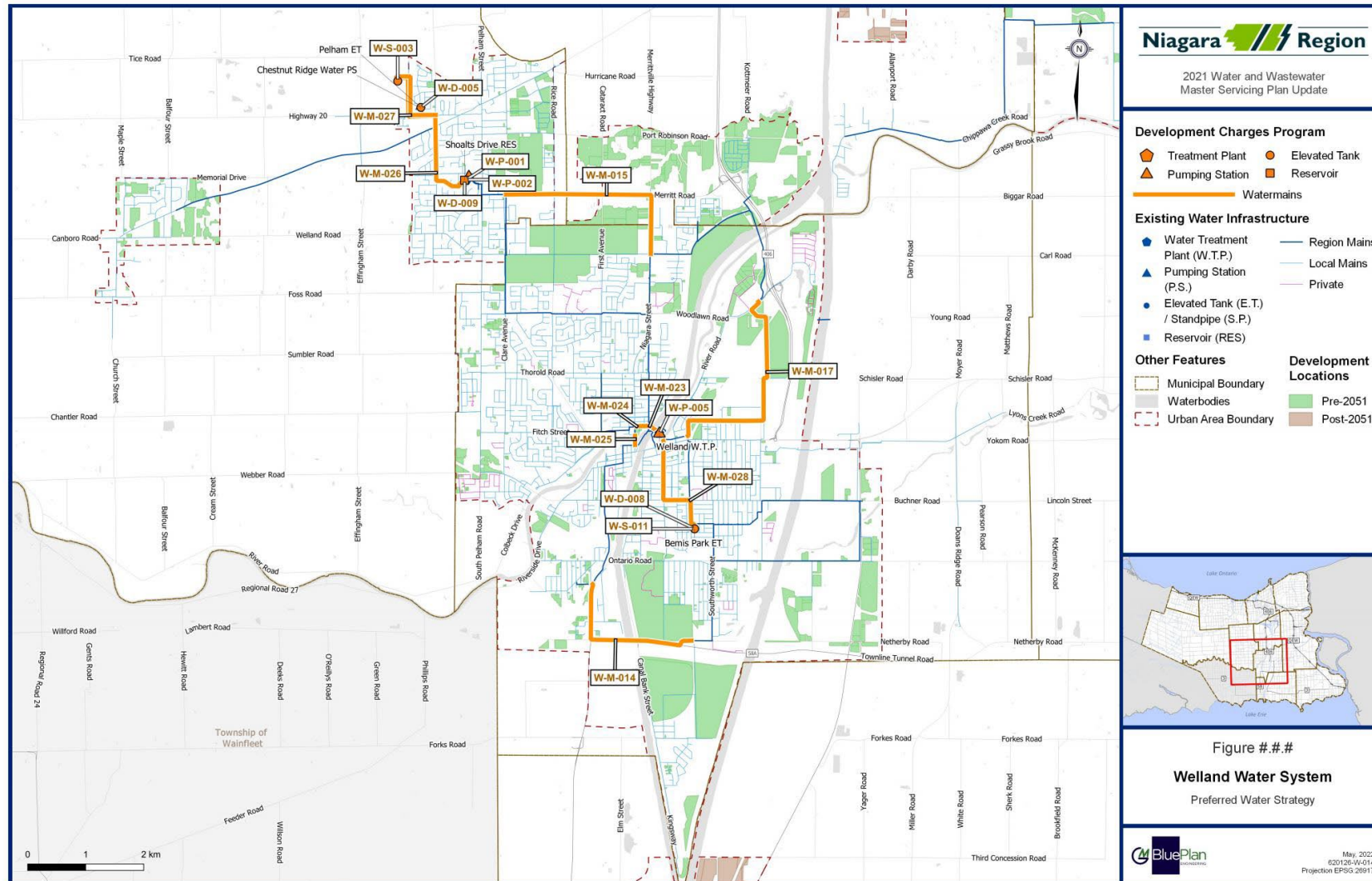
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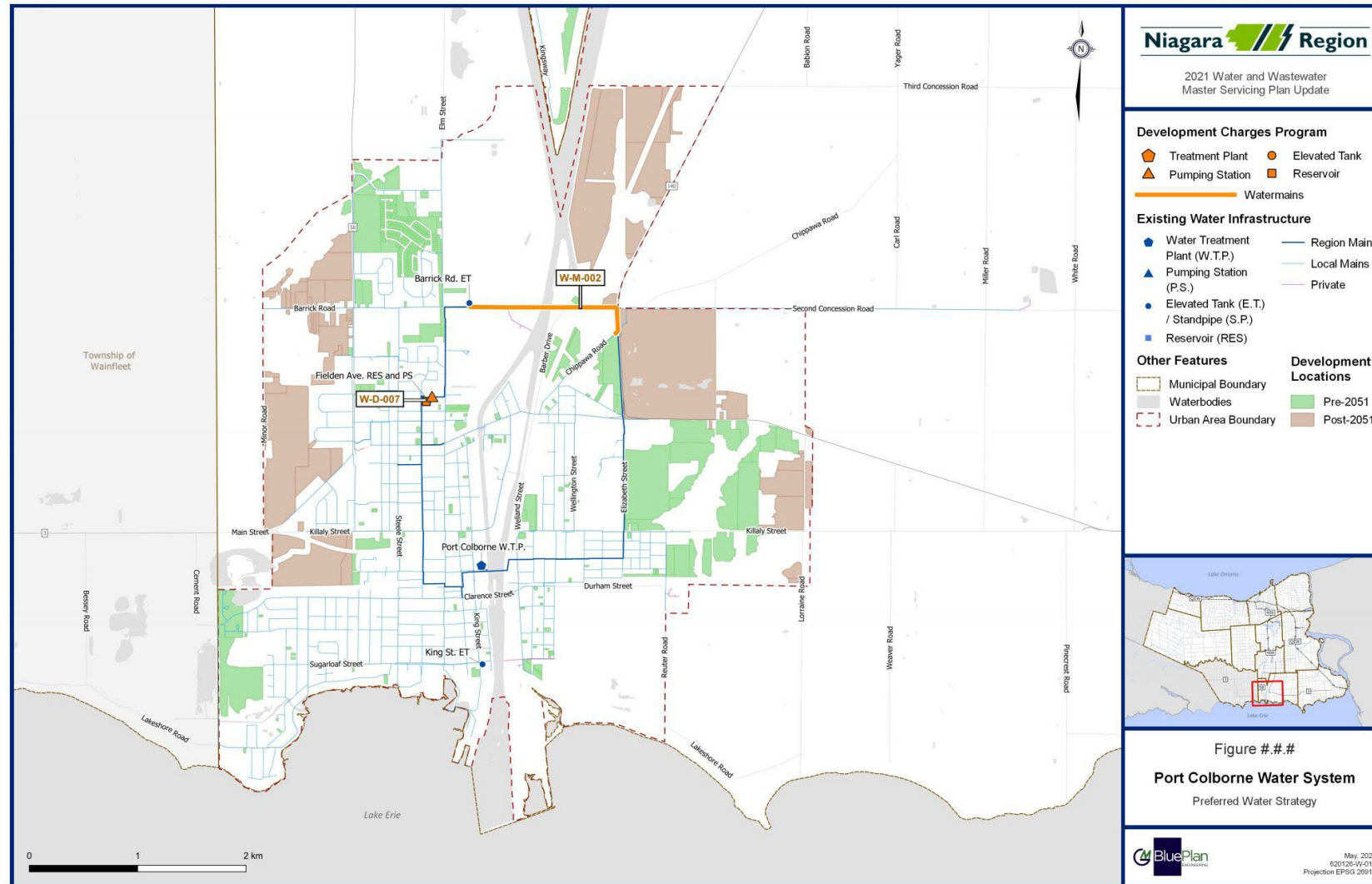
Water Servicing Strategy



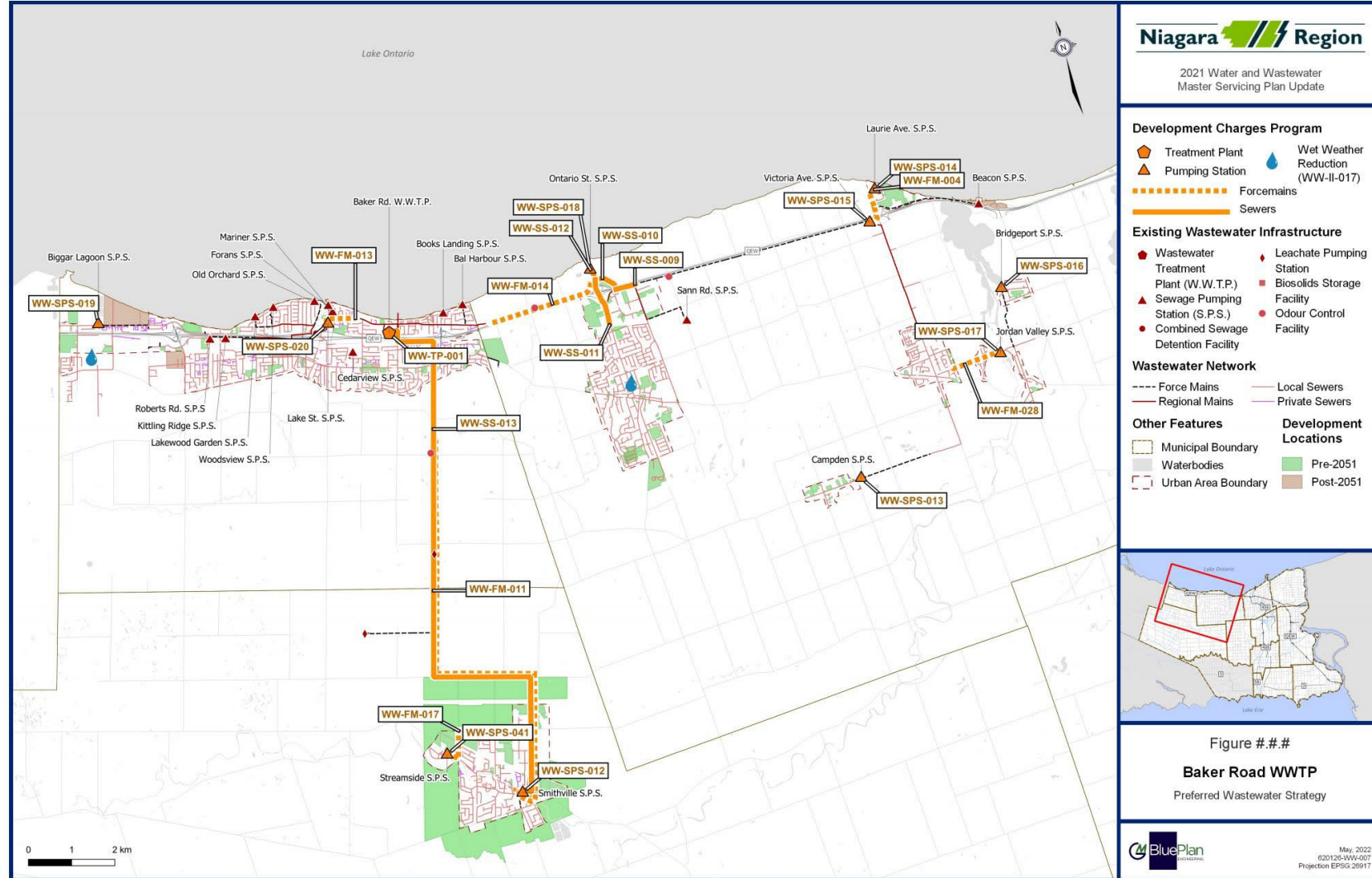
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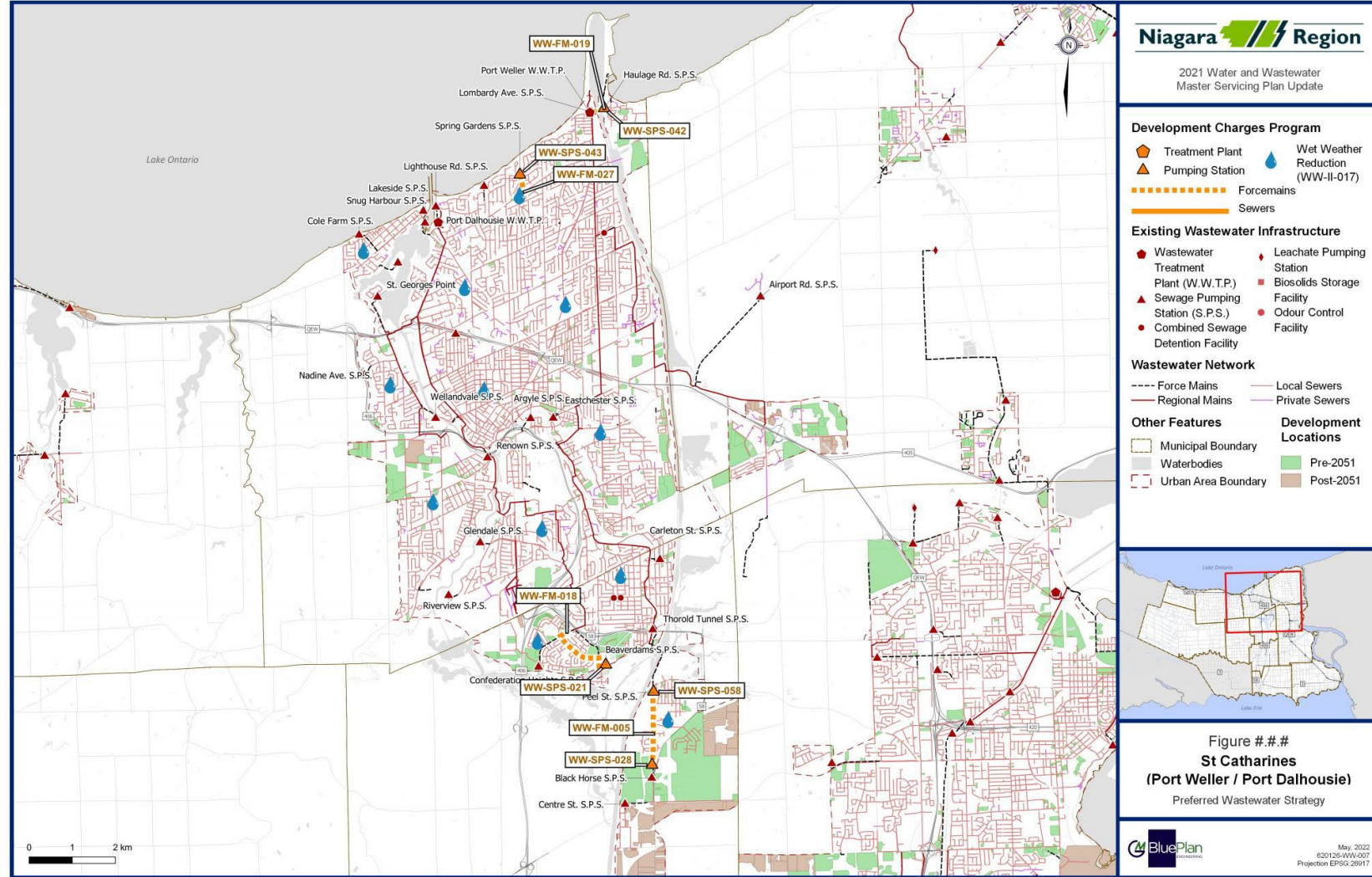
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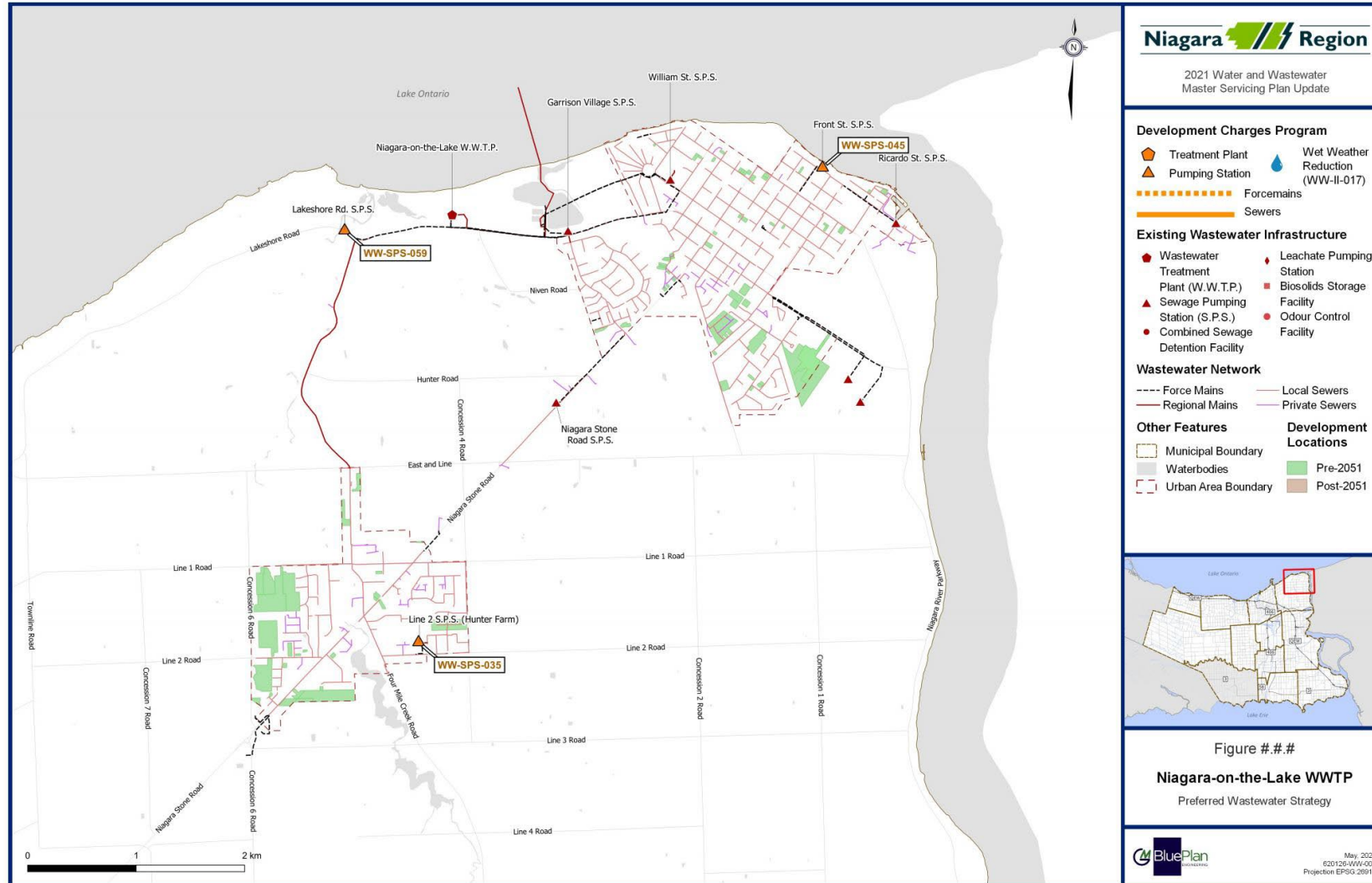
Wastewater Servicing Strategy



Wastewater Servicing Strategy



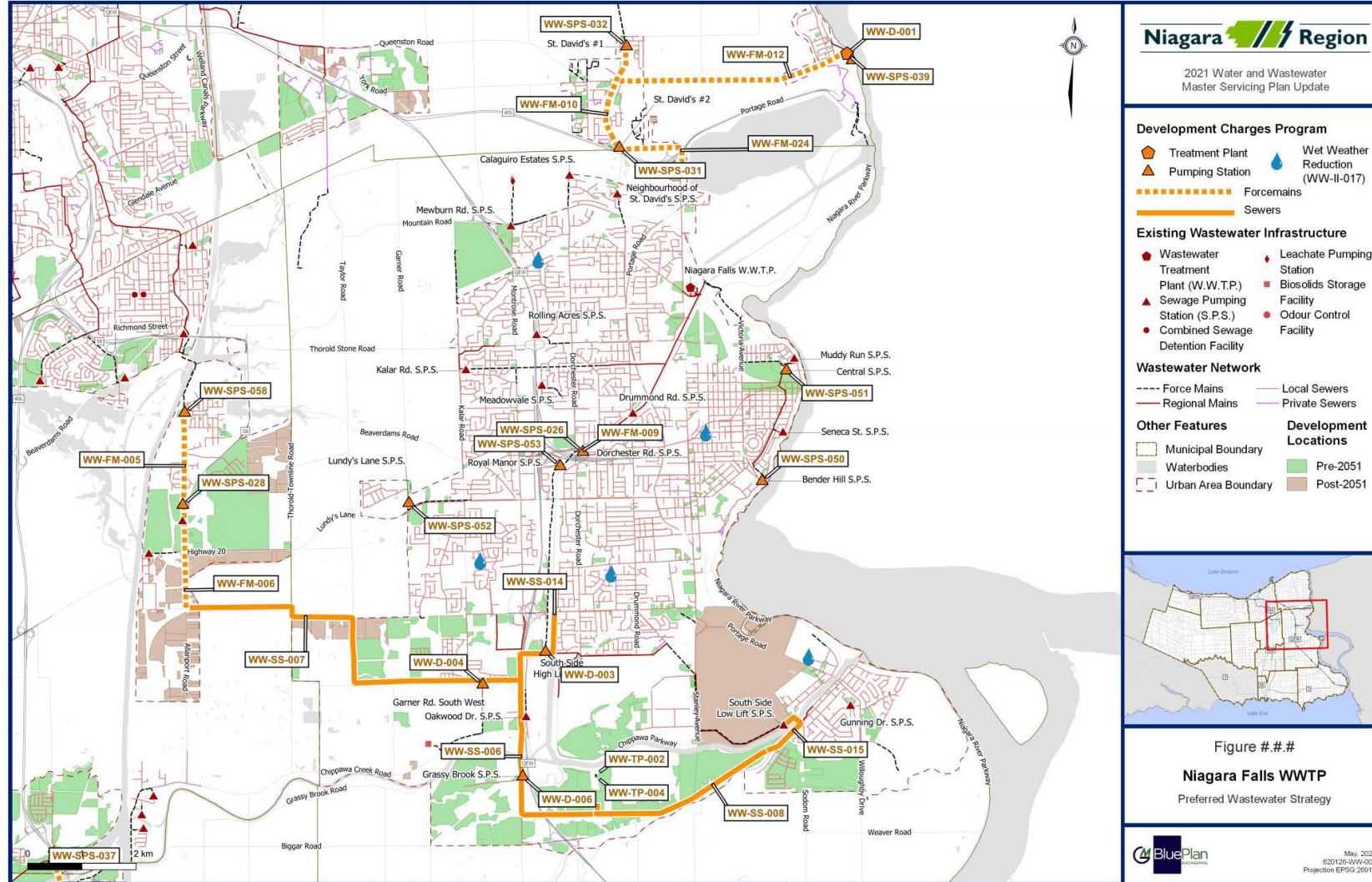
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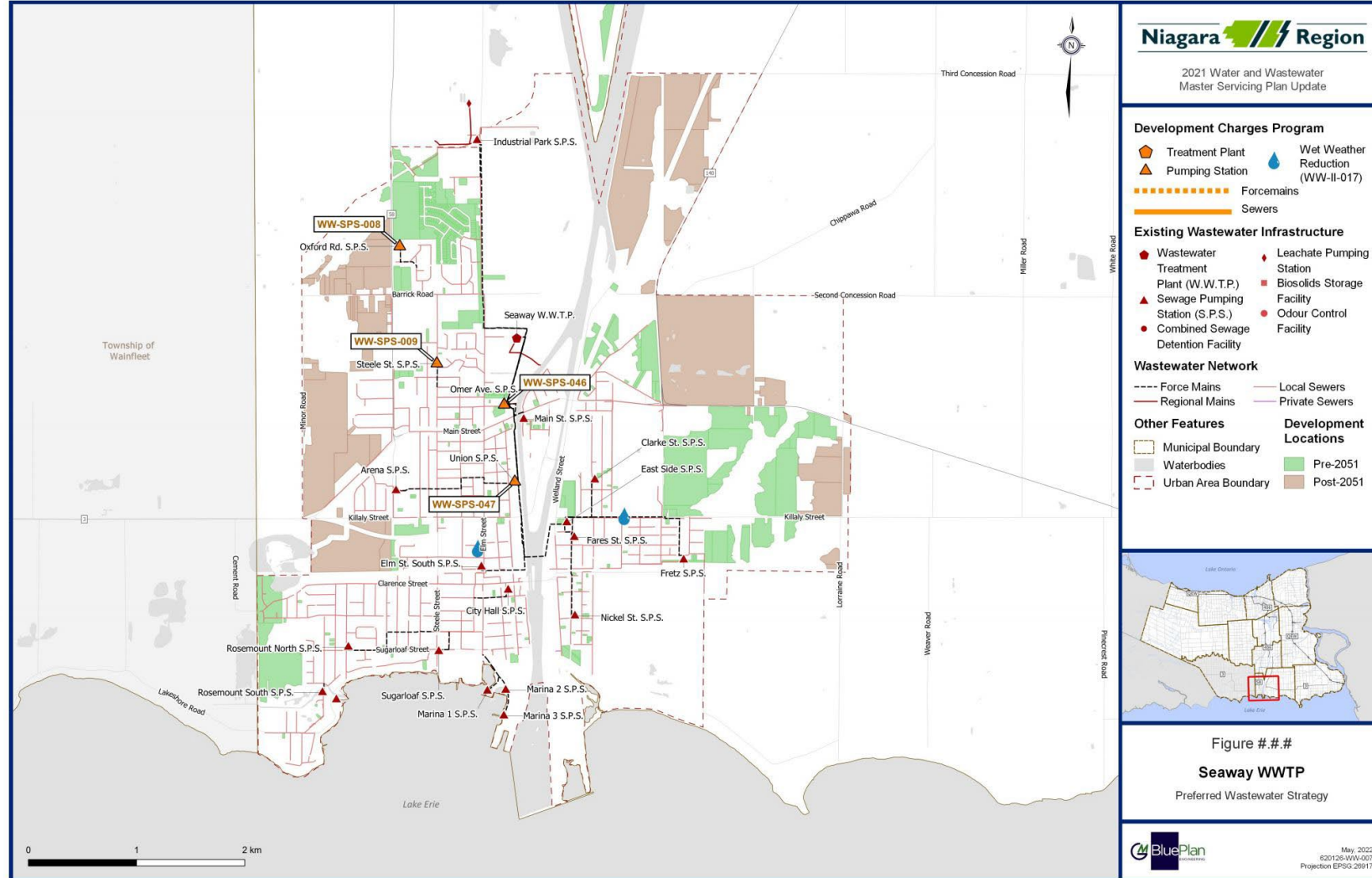
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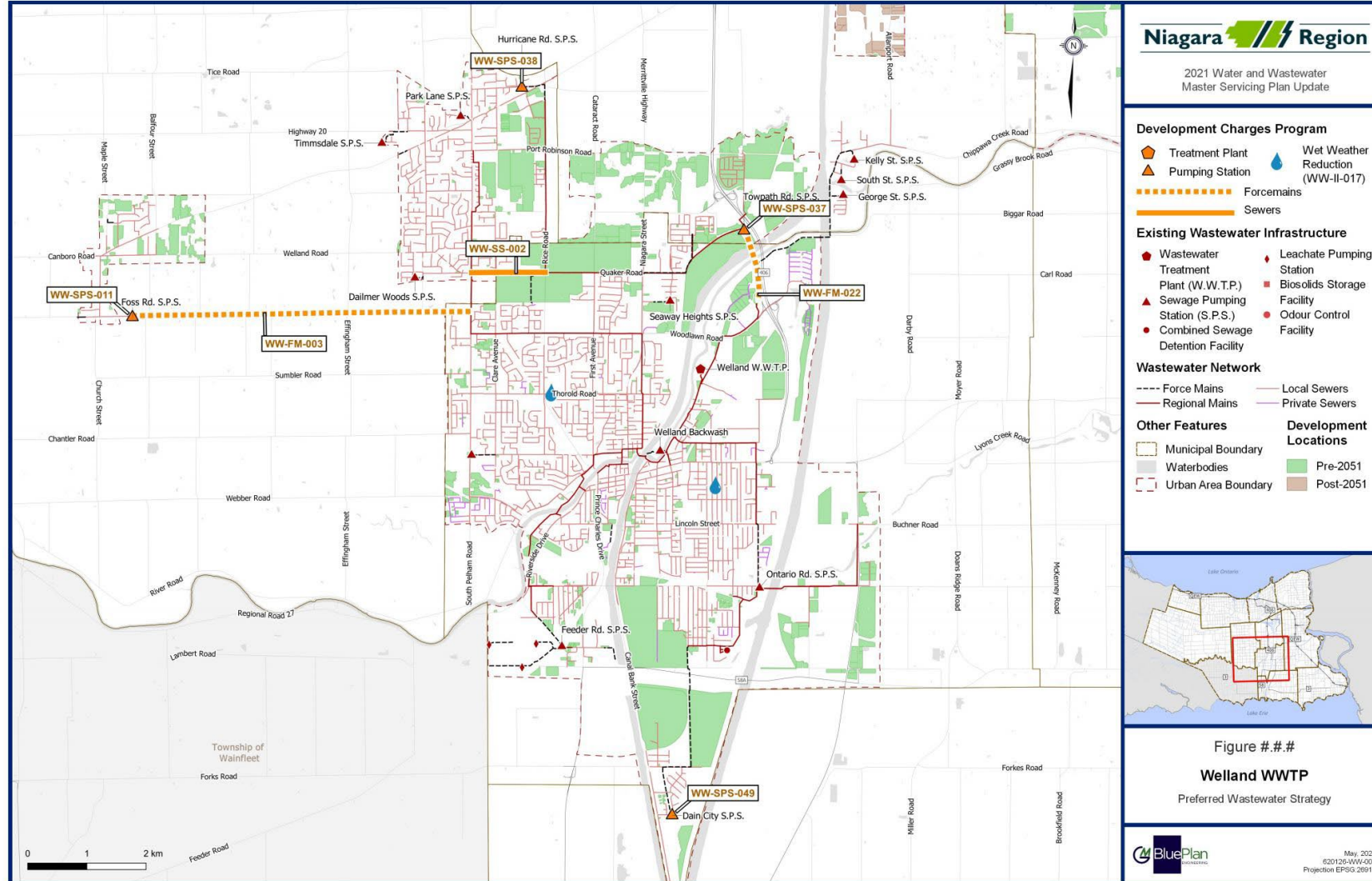
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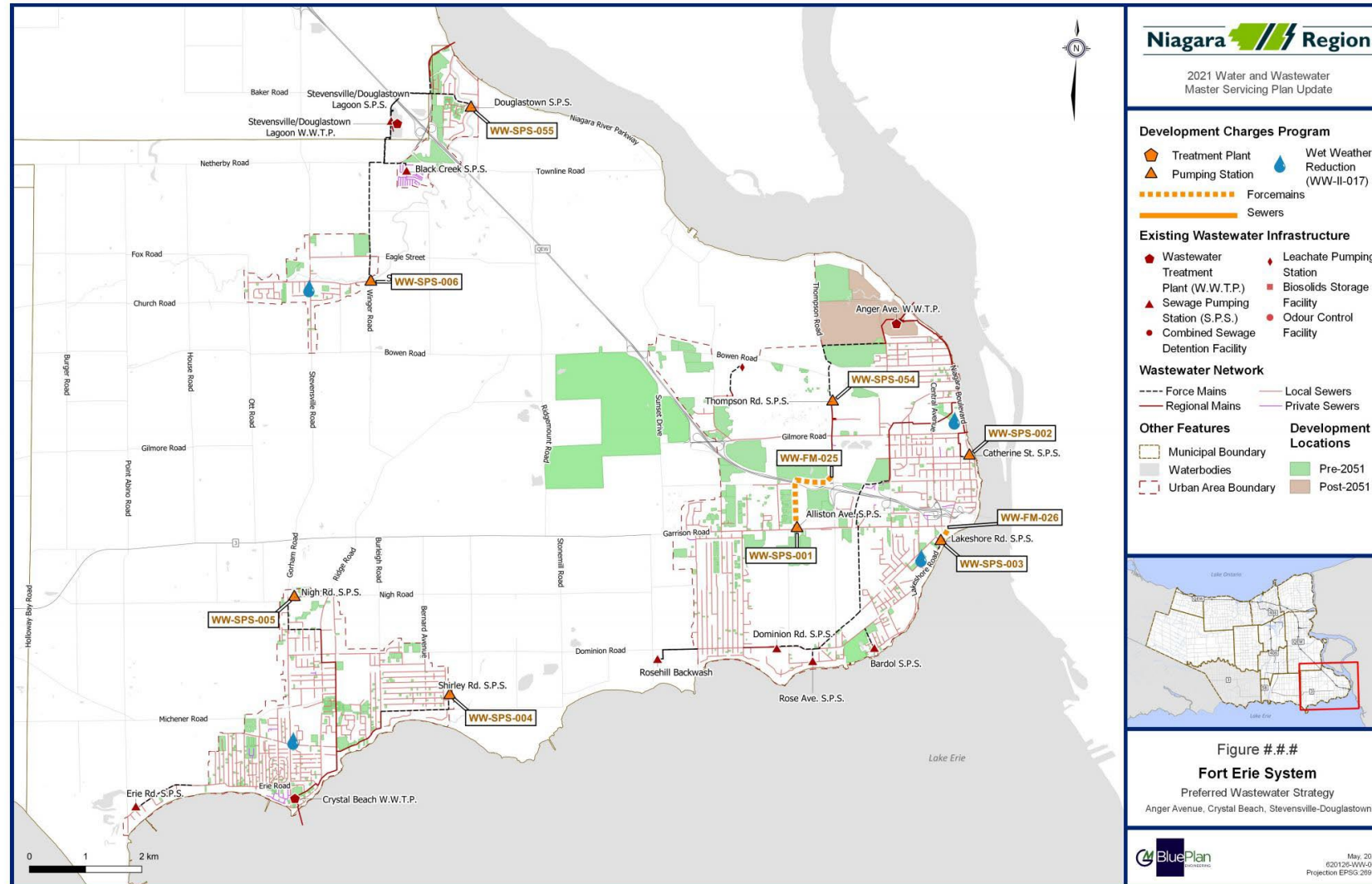
Wastewater Servicing Strategy



Wastewater Servicing Strategy



Wastewater Servicing Strategy



Water Capital Program Impacts

- Additional growth out to year 2051
- Increased storage requirements
- Additional Regional Transmission Main requirements
- Increase in cost estimates for some projects previously identified in 2016 MSPU
- Additional new projects to service growth areas and 2051 capacity requirements

Water Capital Program and Development Charges

Total Capital Program	Benefit to Existing (BTE)	Post Period Benefit (PPB)	Grants & Contributions	DC Eligible Cost
\$660,059,000	\$178,663,085	\$111,193,708	\$0	\$370,202,207

See Section 5.4.2 of the DC Background Study

Wastewater Capital Program Impacts

- Additional growth out to year 2051
- Increased wet weather program
- Region-wide projects (odour control, ECA, flow monitoring/data)
- SNF program updated costs
- Increase in cost estimates for some projects previously identified in 2016 MSPU
- Additional new projects to service growth areas and 2051 capacity requirements

Wastewater Capital Program and Development Charges

Total Capital Program	Benefit to Existing (BTE)	Post Period Benefit (PPB)	Grants & Contributions	DC Eligible Cost
\$1,269,229,000	\$458,696,247	\$135,752,038	\$0	\$674,780,715

See Section 5.4.1 of the DC Background Study

Key Messages

- Servicing strategies based on maintaining appropriate levels of service throughout the systems
- It is essential that the existing infrastructure is maintained and performs in order to support the growth servicing
- The sustainability and state-of-good-repair program is essential and is a capital program over and above the growth-related MSPU program
- Investment is needed to support operations, maintenance, staff and other resources
- With new growth-related projects will come resourcing requirements to deliver the program
- The development community must similarly commit to appropriate levels of service and construction practices to support the capacity goals for growth
- MSPU cost estimates represent conceptual level estimating. We continue to see significant fluctuations in project costs related to volatile market conditions, supply chain issues, and other variables. It is difficult to predict future costs, however, best available information has been used under the MSPU.

MSPU Next Steps

- Final Program Review
- Incorporation of Sustainability/SOGR program
- Additional Local Area Municipality Engagement
- MSPU Documentation
- Comprehensive MSPU Presentation to PWC in August 2022
- Final Public Information Centre (fall 2022)
- Public Filing (late 2022)

A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background design.

E

Regional Municipality of Niagara

APPENDIX E

PIC NO.2

The page features several large, overlapping geometric shapes in shades of blue, green, and grey. A horizontal bar in green and dark blue spans the width of the page. Below it, a large, light blue triangle points downwards. To the right, a large, dark grey triangle points upwards. At the bottom, a large, light blue triangle points upwards, and a large, dark grey triangle points downwards.

EI

Regional Municipality of Niagara

APPENDIX EI

PIC NO.2 NOTICE

Notice of Public Information Centre (PIC) No. 2

2021 Water and Wastewater Master Servicing Plan Update

About the Study

The 2021 Master Servicing Plan Update (MSPU) for Niagara Region focuses on developing long-term water and wastewater servicing strategies to address anticipated growth to the year 2051 as well as key issues including legislated and regulatory requirements, climate change, energy efficiency and system optimization. This study is an update to the previous 2016 Water and Wastewater Servicing Plan completed by the Region that addressed infrastructure needs to 2041 at that time. The 2021 MSPU will address growth as per the amended *Growth Plan for the Greater Golden Horseshoe* and will also incorporate recent knowledge, current priorities and a long-term vision beyond 2051.

You are Invited!

Since the first PIC, the Region has completed a multiple bottom line evaluation of the water and wastewater servicing strategies.

PIC No. 2 will present the preliminary preferred water and wastewater servicing strategies, solutions, and capital programs.

PIC No. 2 Details

The public will have the opportunity to listen to an overview presentation of the preferred strategies as well as ask questions and provide comments at the following time:

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niagararegion.ca/projects/www-master-servicing-plan

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Feedback

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Contact

If you have any questions, comments or wish to be added to the study mailing list, please contact:

Ilija Stetic

Project Manager, Niagara Region
289-668-4536
niagaramspu@niagararegion.ca

Accessibility

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Niagara Region
905-685-4225 ext. 3252
accessibility@niagararegion.ca

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E2

Regional Municipality of Niagara

APPENDIX E2

NOTIFICATION ADS AND PROOFS

PUBLIC NOTICE

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NIAGARA FALLS
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Four-year-old girl fell into a coma after ingesting cannabis edibles, court hears

ALISON LANGLEY
THE NIAGARA FALLS REVIEW

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The child's mother was arrested by Niagara Regional Police following an investigation into the December 2021 incident and charged with criminal negligence causing bodily harm. She pleaded guilty in an Ontario Court of Justice in St. Catharines and will return to court in March for sentencing.

The woman cannot be identified in order to protect the identity of her children.

In December 2021, court heard, a 13-year-old girl ate 22 gummies she mistook for candy during a visit to her mother's home in Niagara Falls. When the teen's father came to pick her up several hours later, he noted she appeared "out of it."

The defendant, who was aware their daughter had consumed the edibles, said the teen was feeling unwell as she had been out with friends the night before.

Later that same day, court heard, the mother moved the gummies from a shelf and left them on the

kitchen table.

"At some point, the younger child ingested three to four edibles which rendered her unconscious," said assistant Crown attorney Richard Monette.

The mother called 911 and the youngster was rushed to a local hospital then airlifted to McMaster Children's Hospital in Hamilton.

A coma scale used to describe the extent of impaired consciousness in acute medical and trauma patients assessed the child as being completely unresponsive.

Meanwhile, the following morning the child's older sister had difficulty walking and talking. Her fa-

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The siblings have since made a full recovery.

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Niagara Region

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ALISON LANGLEY
THE NIAGARA FALLS REVIEW

A four-year-old Niagara girl fell into a coma and her older sister also suffered health complications after the siblings ingested multiple cannabis edibles, court heard Thursday.

The child's mother was arrested by Niagara Regional Police following an investigation into the December 2021 incident and charged with criminal negligence causing bodily harm. She pleaded guilty in an Ontario Court of Justice in St. Catharines and will return to court in March for sentencing.

The woman cannot be identified in order to protect the identity of her children.

In December 2021, court heard, a 13-year-old girl ate 22 gummies she mistook for candy during a visit to her mother's home in Niagara Falls. When the teen's father came to pick her up several hours later, he noted she appeared "out of it."

The defendant, who was aware their daughter had consumed the edibles, said the teen was feeling unwell as she had been out with friends the night before.

Later that same day, court heard, the mother moved the gummies from a shelf and left them on the

kitchen table.

"At some point, the younger child ingested three to four edibles which rendered her unconscious," said assistant Crown attorney Richard Monette.

The mother called 911 and the youngster was rushed to a local hospital then airlifted to McMaster Children's Hospital in Hamilton.

A coma scale used to describe the extent of impaired consciousness in acute medical and trauma patients assessed the child as being completely unresponsive.

Meanwhile, the following morning the child's older sister had difficulty walking and talking. Her fa-

ther took her to a clinic where it was determined her blood pressure was dangerously low and she was sent to a nearby hospital for further treatment.

The siblings have since made a full recovery.

Canada saw a 6.3 fold increase in hospitalizations for accidental cannabis poisoning among children under the age of 10 since the legalization of recreational cannabis, according to a study published in August in the New England Journal of Medicine.

The study, which was conducted by researchers from SickKids and The Ottawa Hospital, said cannabis intoxication can have significant effects on young children, such as behavioural changes, seizures, impairment of co-ordination, balance and breathing, and even causing a coma.

ALISON LANGLEY
@NIAGARADAILIES.COM

@pres

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WELLAND TRIBUNE

Niagara Region

PUBLIC NOTICE

Notice of Public Information Centre No. 2

2021 Water and Wastewater Master Servicing Plan Update

About the Study

The 2021 Master Servicing Plan Update for Niagara Region focuses on developing long-term water and wastewater servicing strategies to address anticipated growth to the year 2051 as well as key issues including legislated and regulatory requirements, climate change, energy efficiency and system optimization. This study is an update to the previous 2016 Water and Wastewater Servicing Plan completed by the Region that addressed infrastructure needs to 2041 at that time. The 2021 Master Servicing Plan Update will address growth as per the amended Growth Plan for the Greater Golden Horseshoe and will also incorporate recent knowledge, current priorities and a long-term vision beyond 2051.

You are Invited!

Since the first Public Information Centre, the Region has completed a multiple bottom line evaluation of the water and wastewater servicing strategies. Public Information Centre No. 2 will present the preliminary preferred water and wastewater servicing strategies, solutions, and capital programs.

The public will have the opportunity to listen to an overview presentation of the preferred strategies as well as ask questions and provide comments at the following time:

**Wednesday, Jan. 18, 2023
6-7:30 pm**

To attend the live virtual presentation, please register on the project webpage.

You will receive a personalized access link. To register or view presentation materials use the link below or scan the QR code with your smartphone.

niagararegion.ca/projects/www-master-servicing-plan



The Public Information Centre information including the presentation recording will be available on the website.

Feedback

Comments and feedback on the Public Information Centre will be received during a two-week period **Jan. 19 - Feb. 2, 2023**.

Contact

If you have any questions, comments or wish to be added to the study mailing list, please contact:

Ilija Stetic, Project Manager
Niagara Region
289-668-4536
niagaramspu@niagararegion.ca

Accessibility

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of Regional Council and Regional staff in accordance with the **Municipal Freedom of Information and Protection of Privacy Act (MFIPPA)**. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the Privacy Office at 905-980-6000 ext. 3779 or FOI@niagararegion.ca.

If you require any accommodations for a disability in order to attend and participate in meetings or events, please let us know in advance so that arrangements can be made in a timely manner. Please contact the **Accessibility Advisory Coordinator** at 905-980-6000 ext. 3252 or accessibility@niagararegion.ca.

This notice was first Issued on Jan. 5, 2023.

niagararegion.ca



Notice of Public Information Centre #2 for the Water and Wastewater Master Servicing Plan Update



The 2021 Master Servicing Plan Update for Niagara Region focuses on developing long-term water and wastewater servicing strategies to address anticipated growth to the year 2051, as well as key issues including:

- Legislated and regulatory requirements
- Climate change
- Energy efficiency
- System optimization

This study is an update to the previous 2016 Water and Wastewater Servicing Plan completed by the Region that addressed infrastructure needs to 2041 at that time. The 2021 Master Servicing Plan Update will address growth as per the amended Growth Plan for the Greater Golden Horseshoe and will incorporate recent knowledge, current priorities and a long-term vision beyond 2051.

Since the first Public Information Centre, the Region has completed a multiple bottom line evaluation of the water and wastewater servicing strategies.

Public Information Centre #2 will present the preliminary preferred water and wastewater servicing strategies, solutions and capital programs.

Public Information Centre # 2

The public will have the opportunity to listen to an overview presentation of the preferred strategies as well as ask questions and provide comments.

- Wednesday, Jan. 18, 2023
- 6 - 7:30 pm

[Register to attend the live online presentation.](#)

Following the session, a recording of the presentation will be available on the project page. Comments related to Public Information Centre # 2 will be accepted by the project team until Feb. 2.

Information on the project and the Public Information Centre is available on the [2021 Master Servicing Plan Update project page](#).

Contact

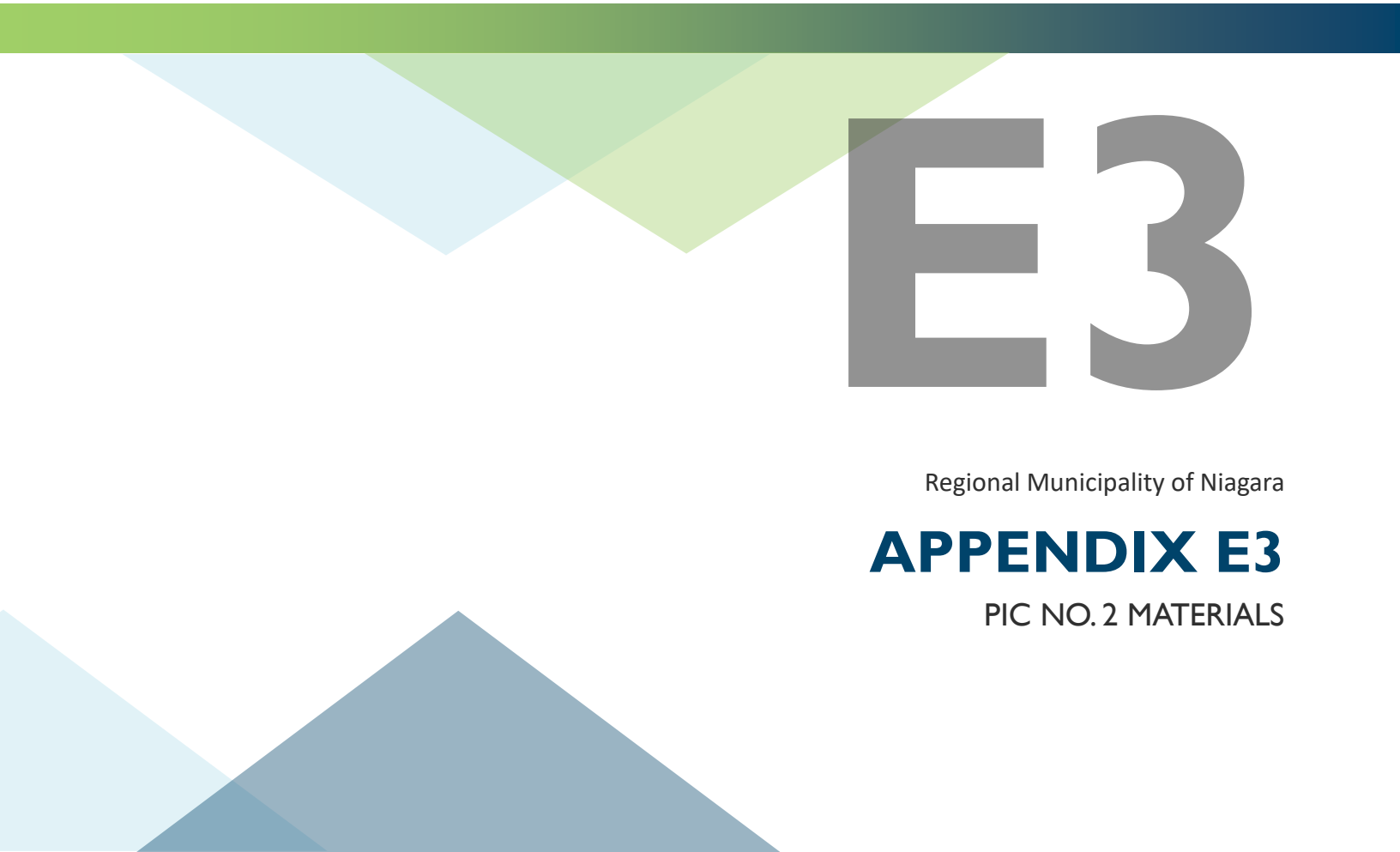
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A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background design.

E3

Regional Municipality of Niagara

APPENDIX E3

PIC NO.2 MATERIALS

2021 Water and Wastewater Servicing Plan Update

Public Information Centre (PIC) No. 2
Wednesday, January 18, 2023

2021 Master Servicing Plan Update (MSPU)



The 2021 Master Plan Update will identify and develop a long-term water and wastewater servicing strategy and capital forecast to ensure level of service for existing and future residents and businesses. This will support future growth in the community to 2051 and consider potential impacts beyond 2051.

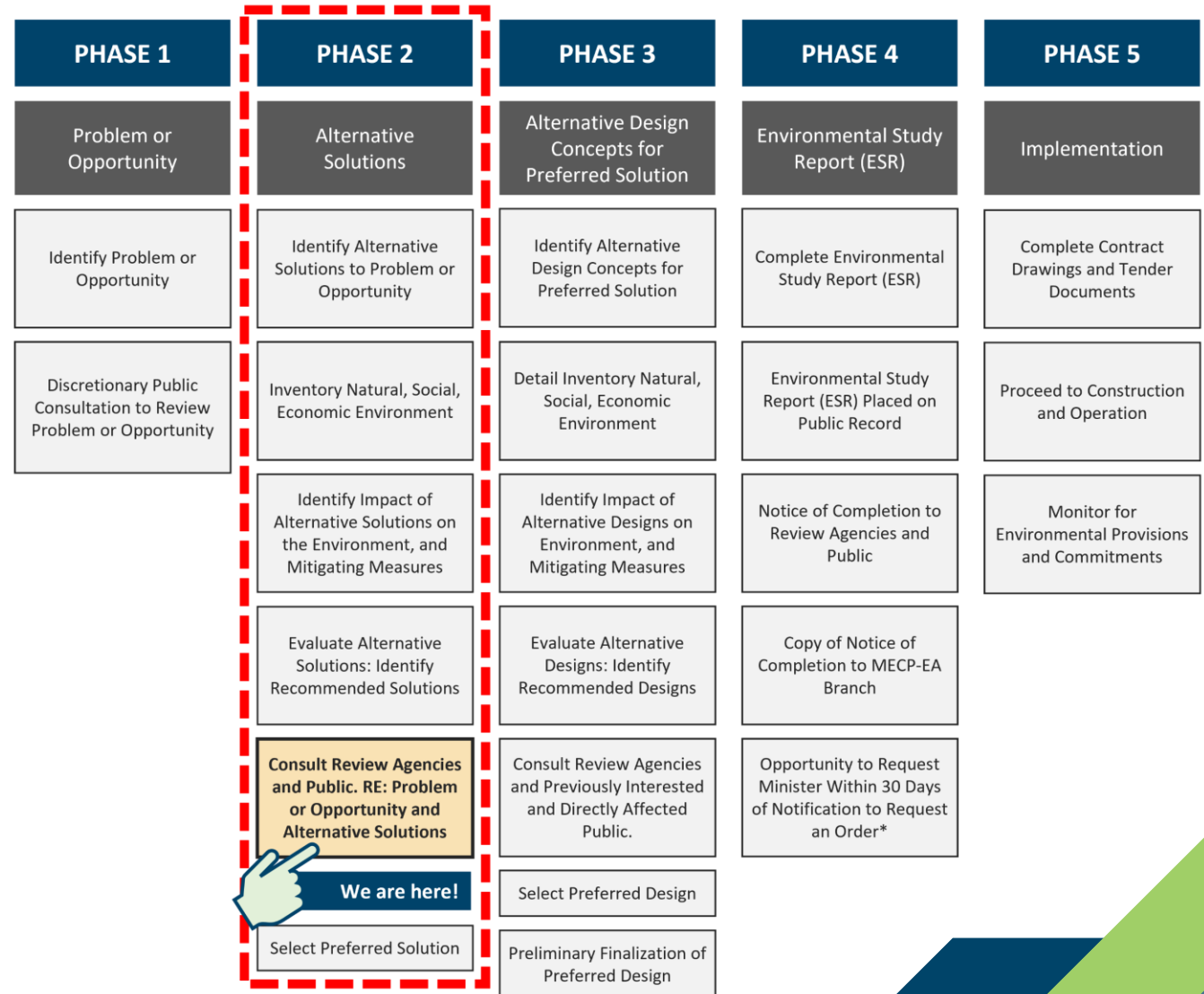


With an updated planning horizon to 2051, the 2016 Master Servicing Plan needs to be updated to determine how the Region's water and wastewater infrastructure will establish a cost effective infrastructure program that meets the service needs of existing and future users, meets regulatory and legislative requirements, supports growth in a sustainable and responsible manner, and addresses the priority areas of climate change, energy management, infrastructure optimization, system security, and resiliency.

Niagara Region has completed several updates to the Water and Wastewater Master Plan (MSPUs). The most recent 2016 MSPU, completed in 2017, looked at servicing planned growth to year 2041.

MSPU Class Environmental Assessment (EA) Process

- The MSPU will satisfy Phases 1 and 2 of the Class EA process
- Some projects from the recommended water and wastewater servicing strategies will move to design and construction
- Some more complex projects will require further study and may require completing Phase 3 and 4 of the Class EA process under Schedule C activities
- Essential elements of the Class EA process include:
 - A multiple bottom line evaluation process
 - Public and stakeholder engagement and consultation process



PIC No. 2 Objectives

Timeline

January 18, 2023:

New information posted on the project web site and
Live Presentation (6 – 7:30 pm)

January 18 to February 2, 2023:

Submit questions or comments related to PIC No. 2
to the Niagara Region Project Manager

niagaramspu@niagararegion.ca

February 23, 2023

Responses to questions and
comments related to PIC No. 2



Present the Recommended Preferred Water and Wastewater Servicing Strategies and Capital Programs



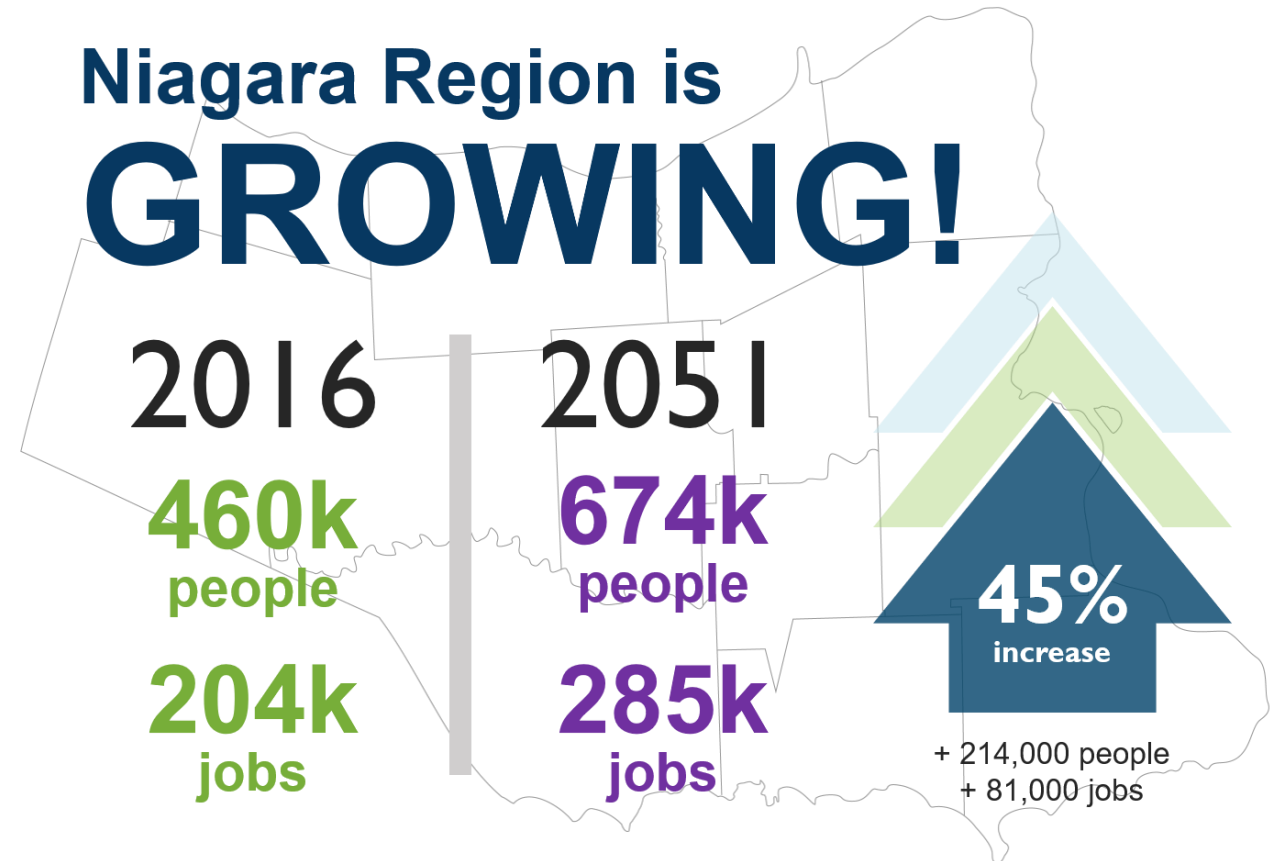
Provide clarity on the Master Servicing Plan Update (MSPU) process and next steps.



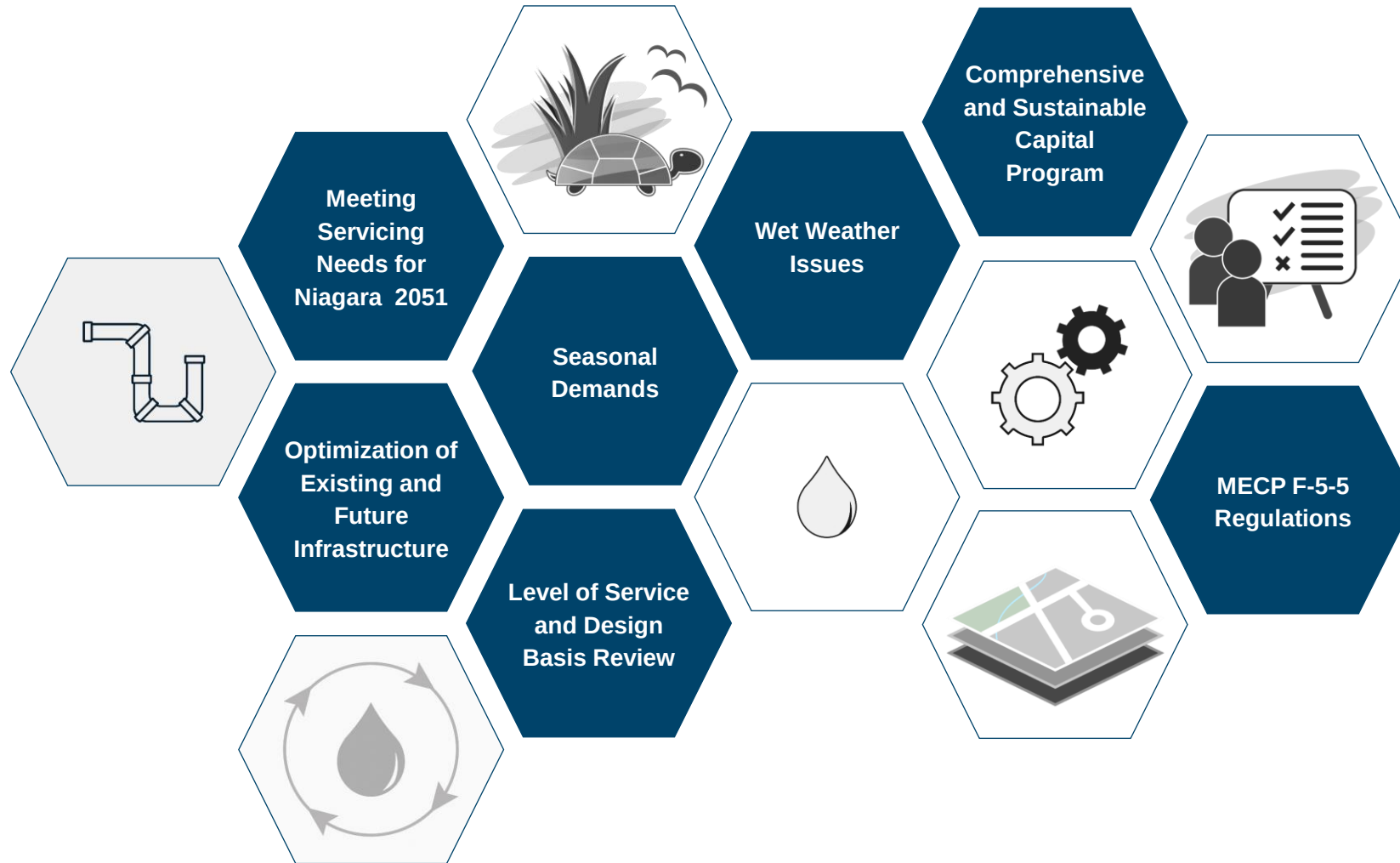
Receive feedback and answer any questions you may have about the MSPU and Recommendations

Planning Context

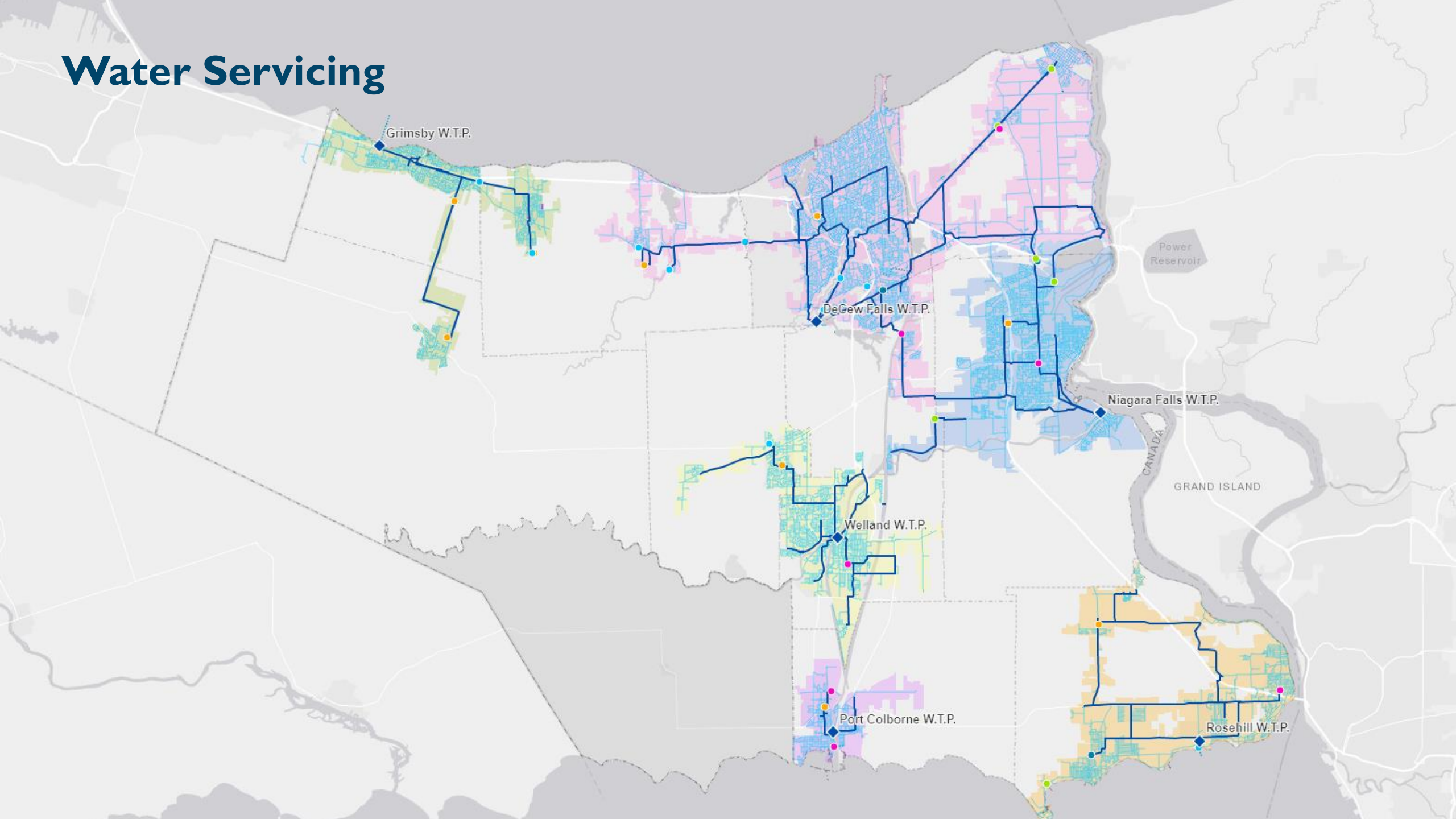
- This study is in response to the Provincial Growth Plan forecasts which identify the need for an additional 214,000 people and 81,000 jobs in the Niagara Region by 2051.
- The MSPU will identify the need, timing and cost of water and wastewater servicing and infrastructure required for Niagara Region to 2051 to support growth.
- The long-term servicing plans will review infrastructure considerations related to growth beyond 2051



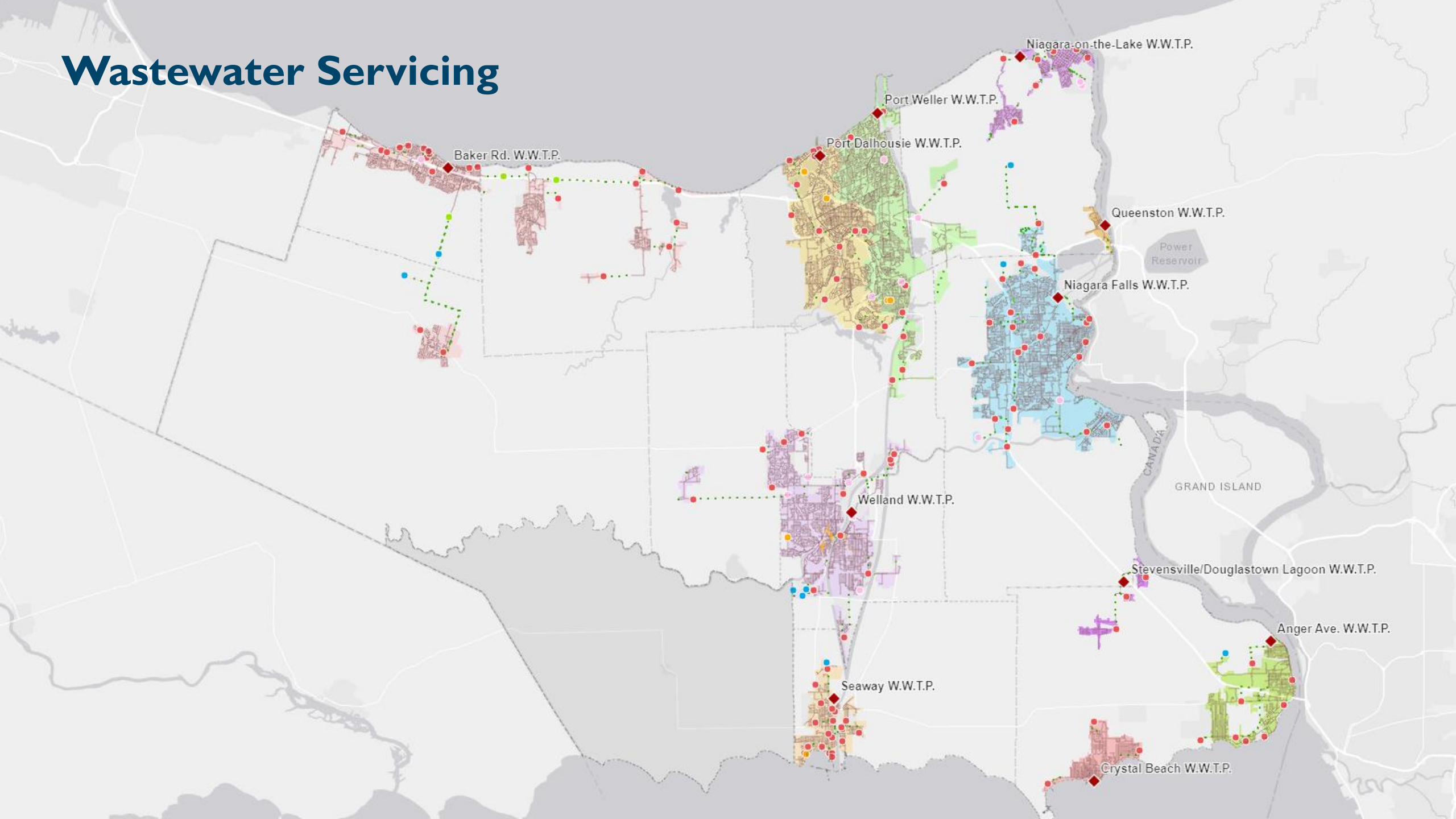
Key Drivers for the MSPU



Water Servicing



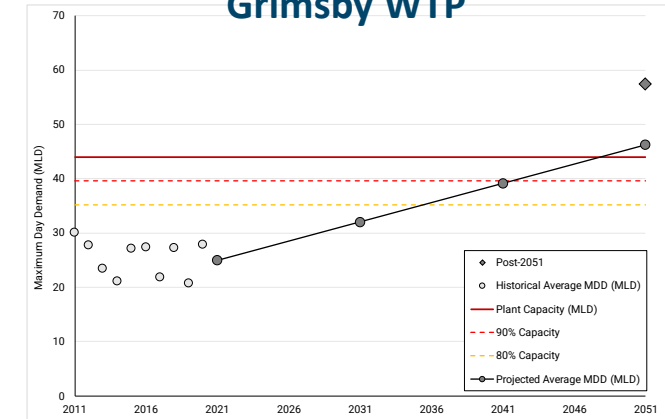
Wastewater Servicing



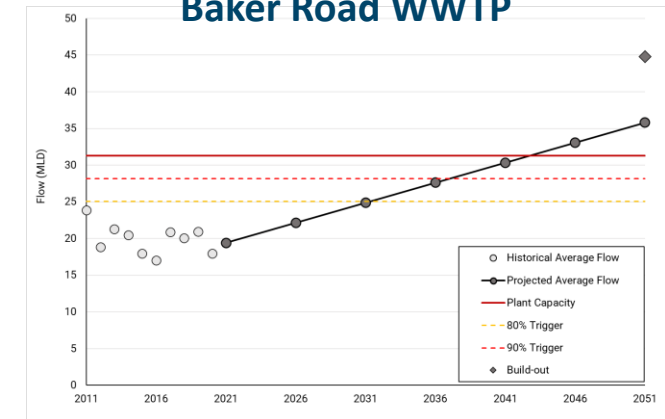
Grimsby / Lincoln / West Lincoln

- Significant growth projected in Smithville, Beamsville and Vineland
- Continued growth in Grimsby with intensification and corridor development
- Water and wastewater treatment plants require expansion
- Water system feeds and looping required to support growth for Smithville and Beamsville and security of supply / resiliency
- Vineland supply via Decew (St. Catharines)
- Additional water storage required
- Hixon Reservoir expansion is needed post-2051 to support growth
- Significant wastewater pumping station and forcemain work required for additional capacity
- Wastewater system capacity also achieved through strategic wet weather flow reduction programs

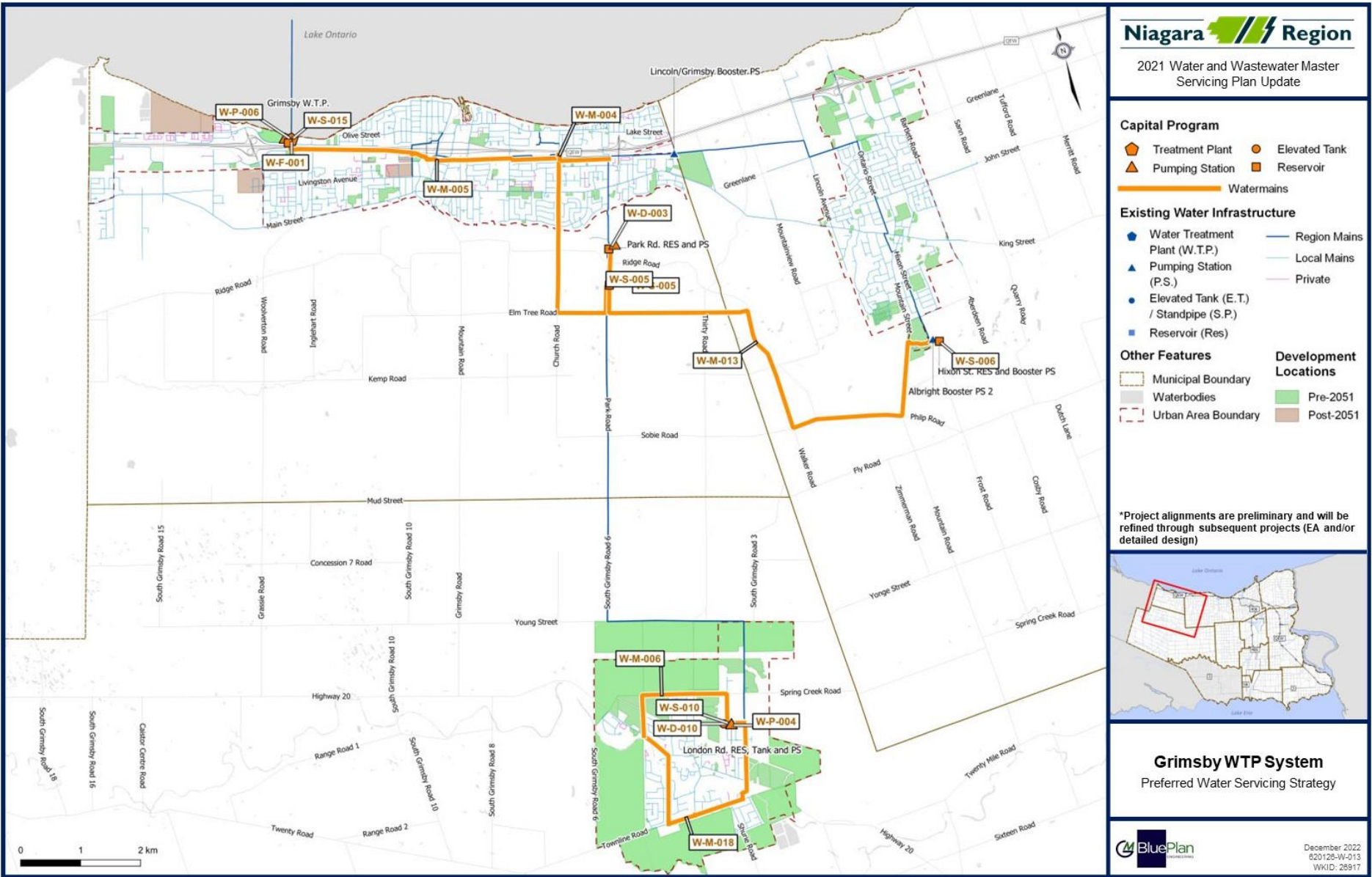
Grimsby WTP



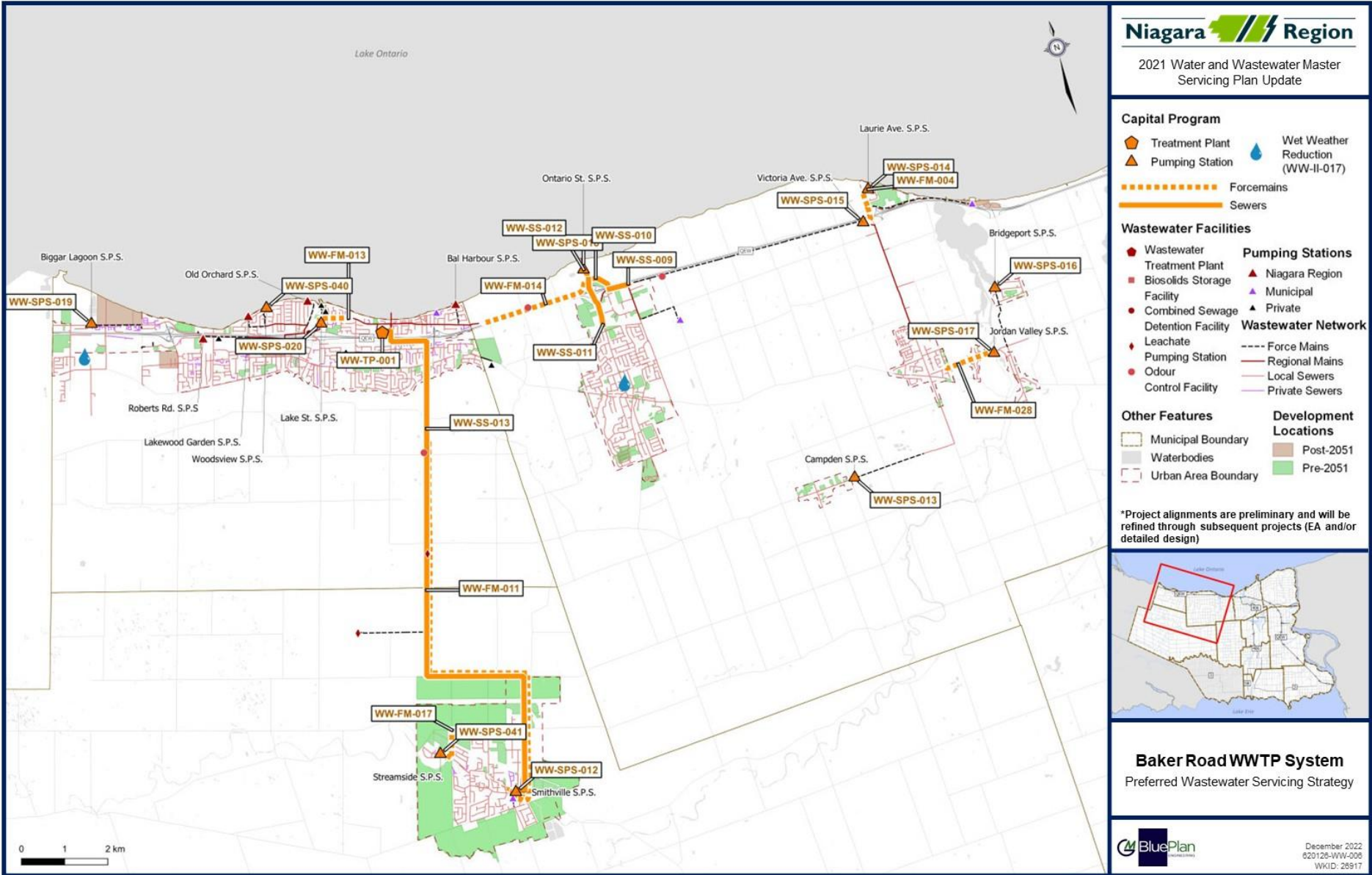
Baker Road WWTP



Grimsby / Lincoln / West Lincoln – Water Strategy

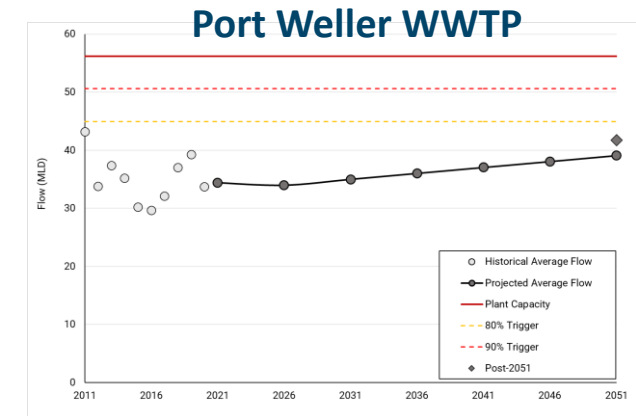
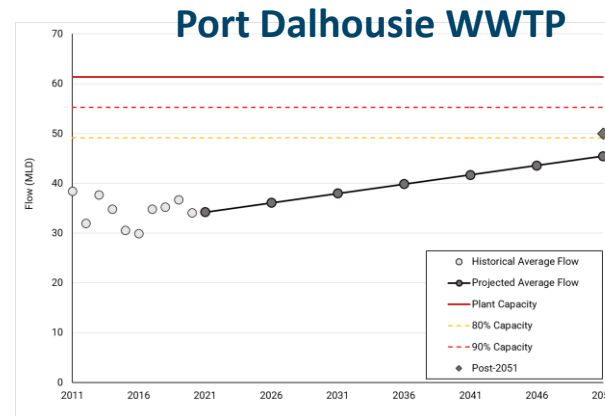
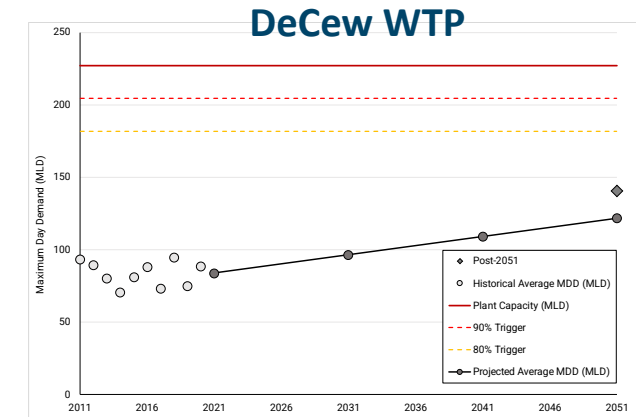


Grimsby / Lincoln / West Lincoln – Wastewater Strategy

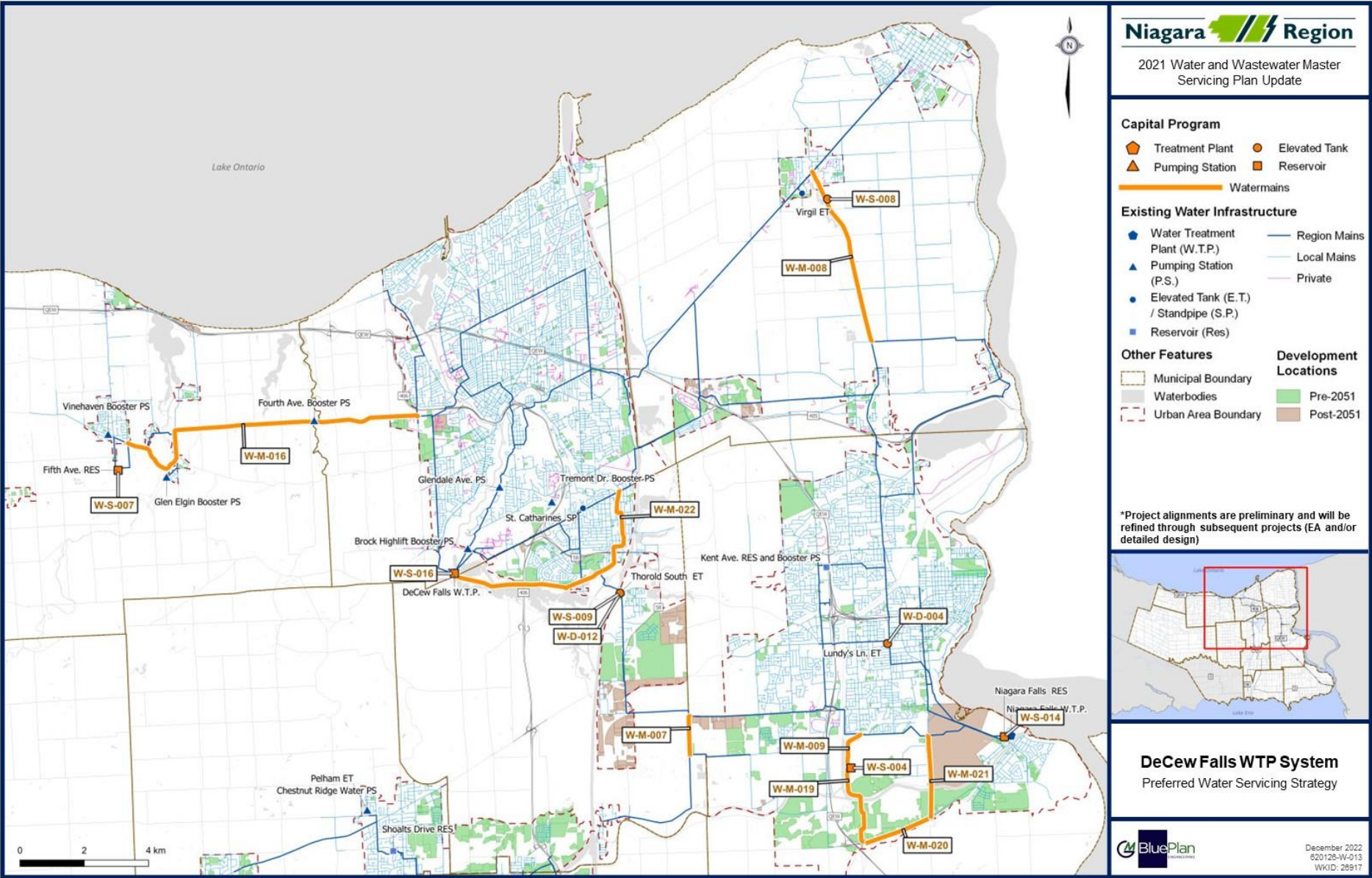


St. Catharines

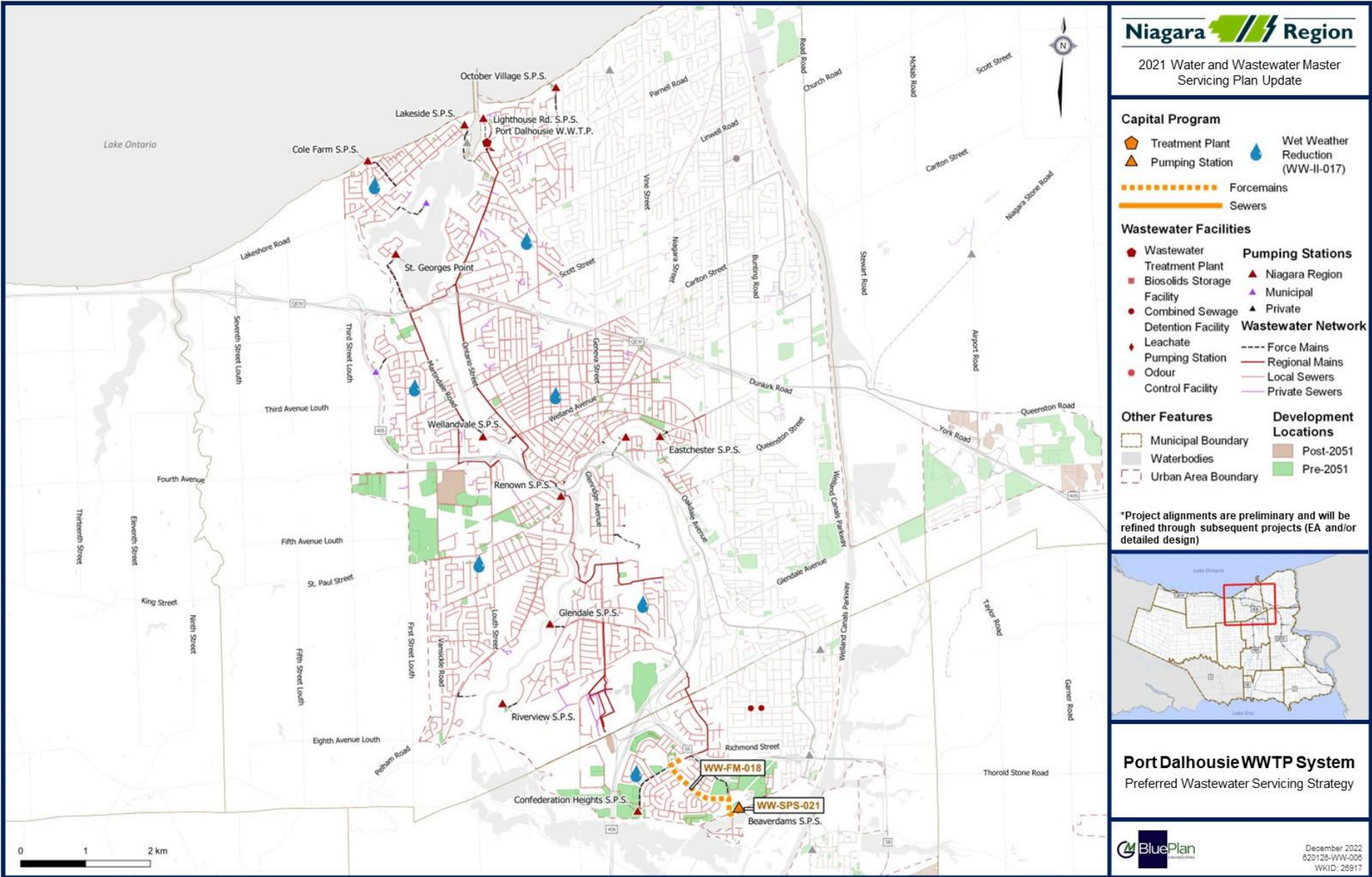
- Continued intensification across St. Catharines
- Water and wastewater treatment plants have sufficient capacity
- Water distribution system requires additional capacity to support growth flows from Decew WTP and to service Vineland
- Decew WTP reservoir expansion is required post-2051 to support growth
- Some wastewater pumping station upgrades to support growth
- Wastewater system capacity achieved through strategic wet weather flow reduction programs



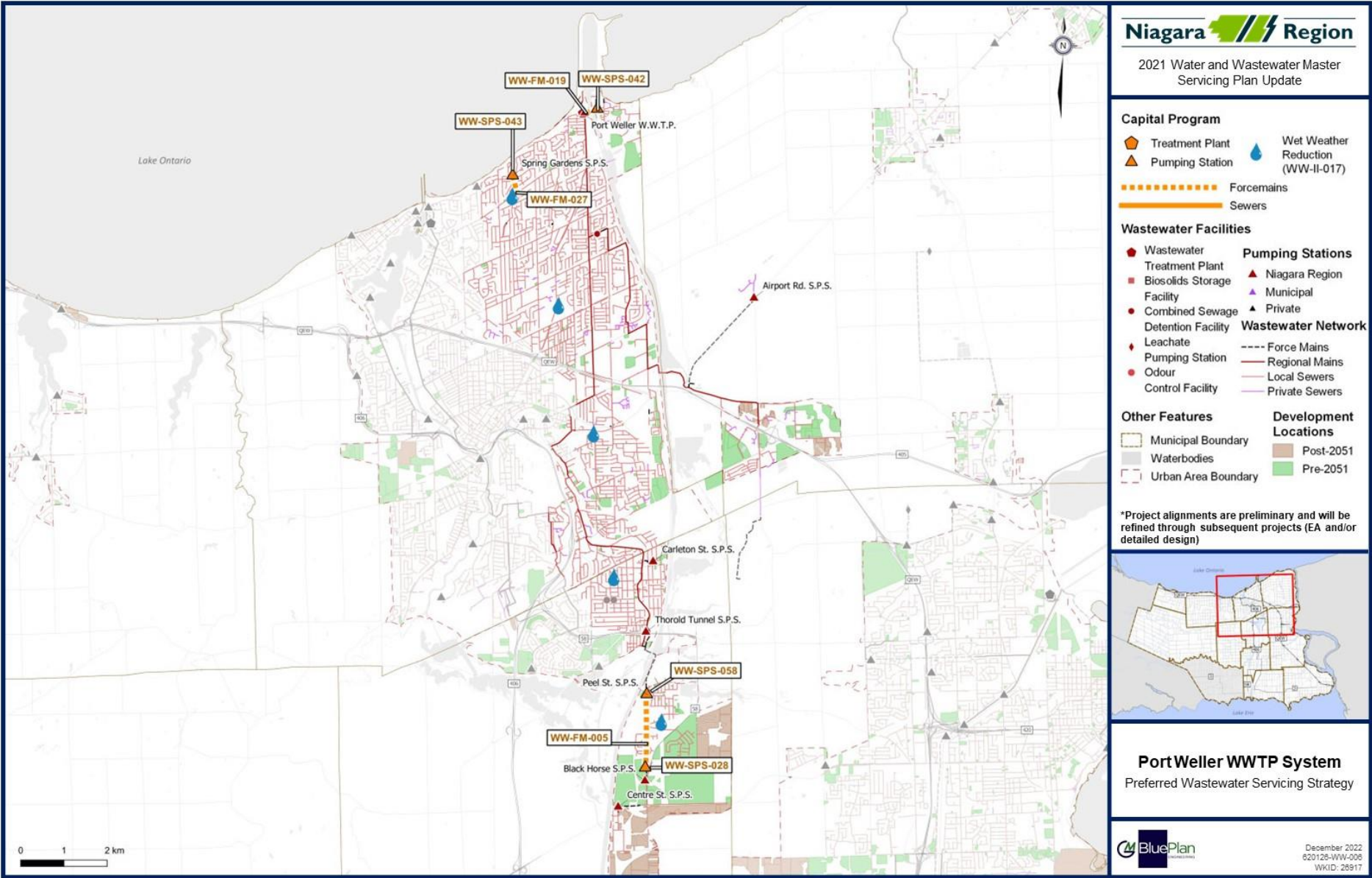
St. Catharines – Water Strategy



St. Catharines (Port Dalhousie) – Wastewater Strategy



St. Catharines (Port Weller) – WWTP Wastewater Strategy



Niagara Falls / NOTL / Thorold

Niagara Falls

- Significant growth across City with large portion in South Niagara Falls
- Water storage and distribution system trunk looping required to support growth
- Niagara Falls WTP Reservoir expansion is required post-2051 to support growth
- Wastewater strategy based on completed South Niagara Falls Wastewater Solutions Class EA
- Several wastewater pumping station upgrades to support growth
- Long term servicing strategy to connect Chippawa to the new SNF WWTP
- Wastewater system capacity also achieved through strategic wet weather flow reduction programs

Figure 1. Stanley Ave WWTP Flow Projections

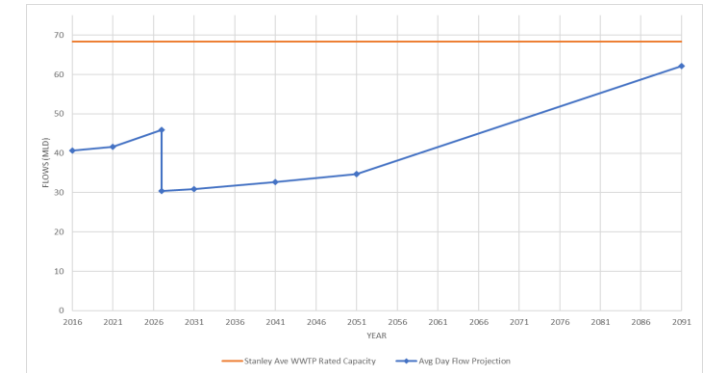
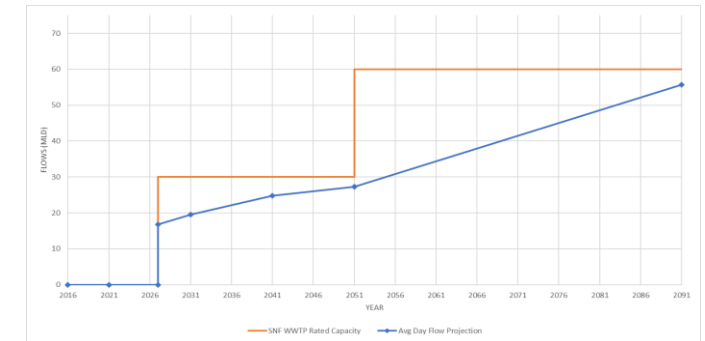
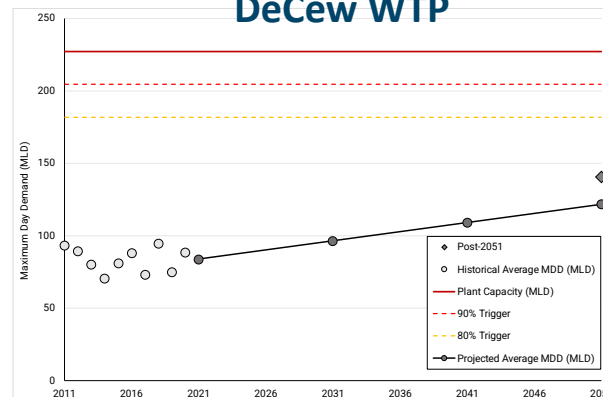


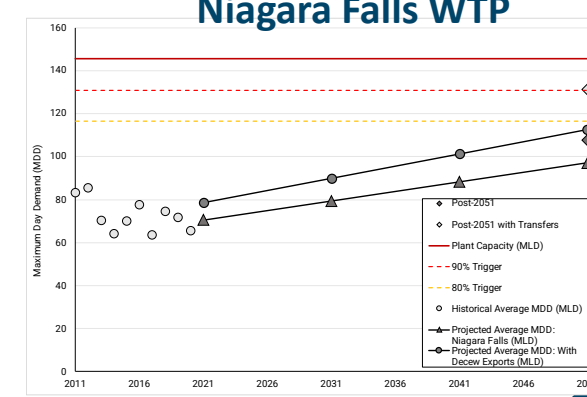
Figure 2. SNF WWTP Flow Projections



DeCew WTP



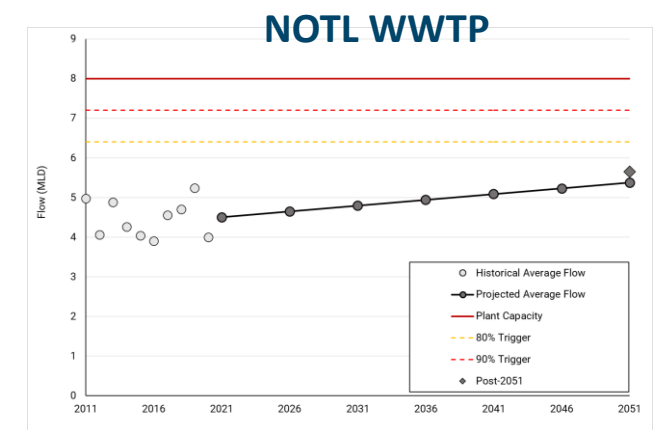
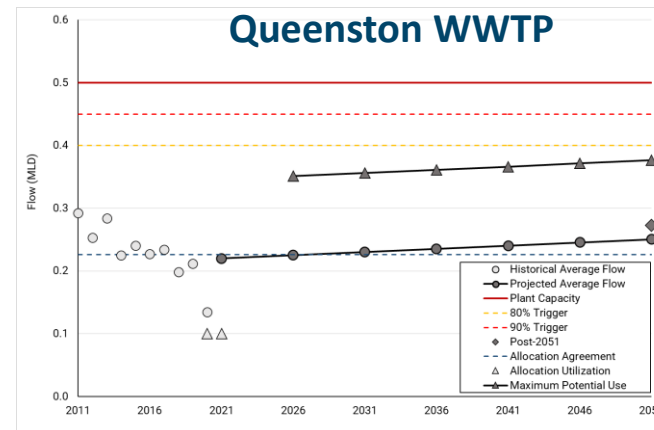
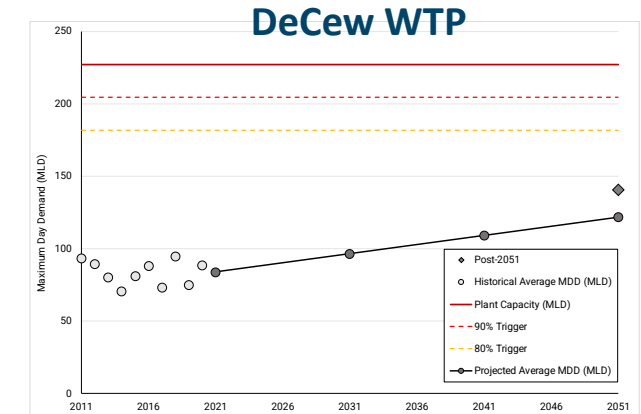
Niagara Falls WTP



Niagara Falls / NOTL / Thorold

NOTL / Queenston

- Infill growth projected in urban centres
- Additional water storage and distribution trunk looping required to support growth
- Wastewater pumping station upgrades required to support growth
- Queenston wastewater strategy currently reflects the DC program and will be updated based on the ongoing Class EA study



 Niagara Region

Niagara Region

2021 Water and Wastewater Master
Servicing Plan Update

 Treatment Plant Elevated Tank
 Pumping Station Reservoir
 Watermains

- Water Treatment Plant (W.T.P.)
- Pumping Station (P.S.)
- Elevated Tank (E.T.) / Standpipe (S.P.)
- Reservoir (Res)

— Region Mains
— Local Mains
— Private

Locations

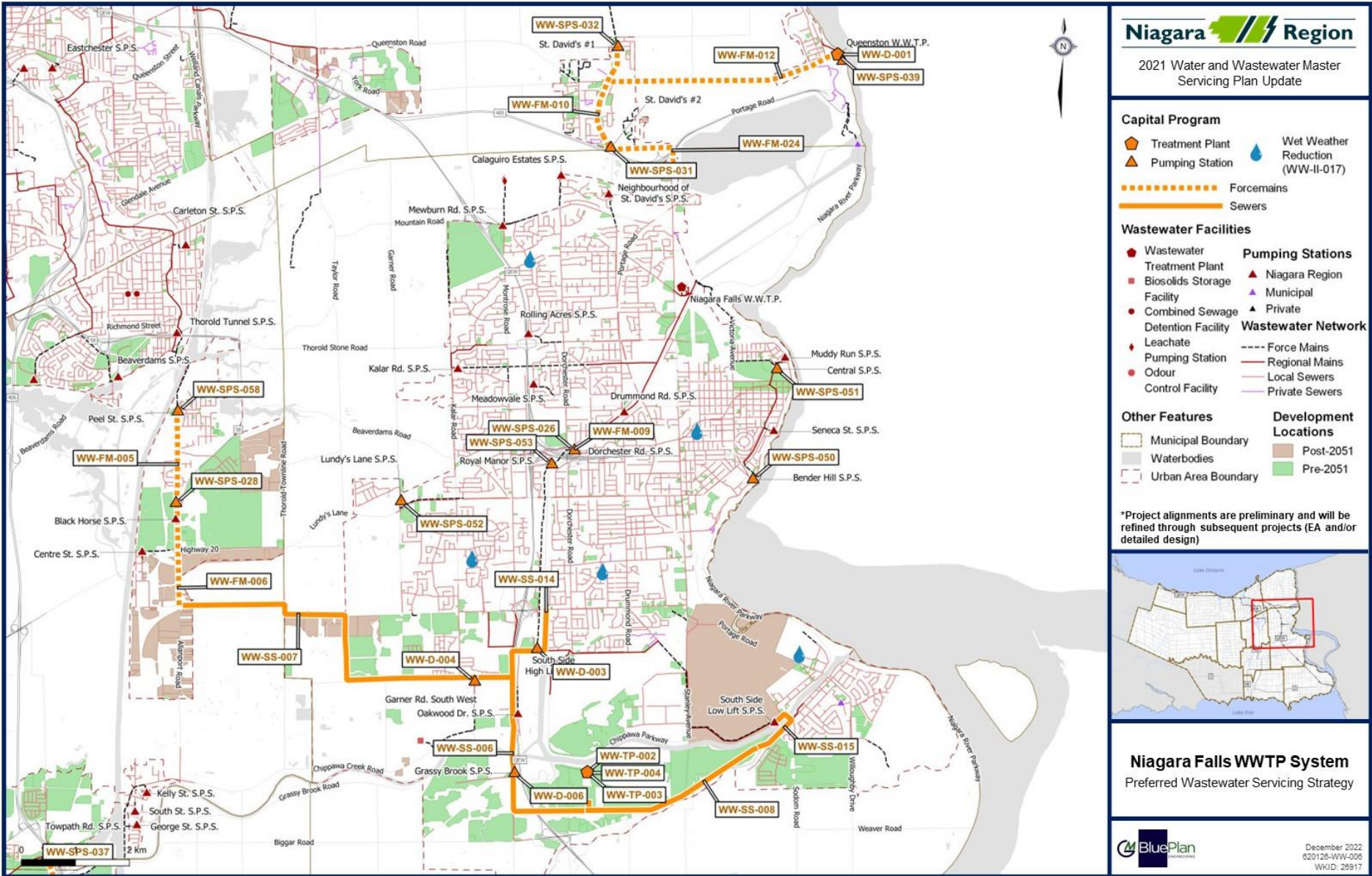
- Pre-2051
- Post-2051

*Project alignments are preliminary and will be refined through subsequent projects (EA and/or detailed design)

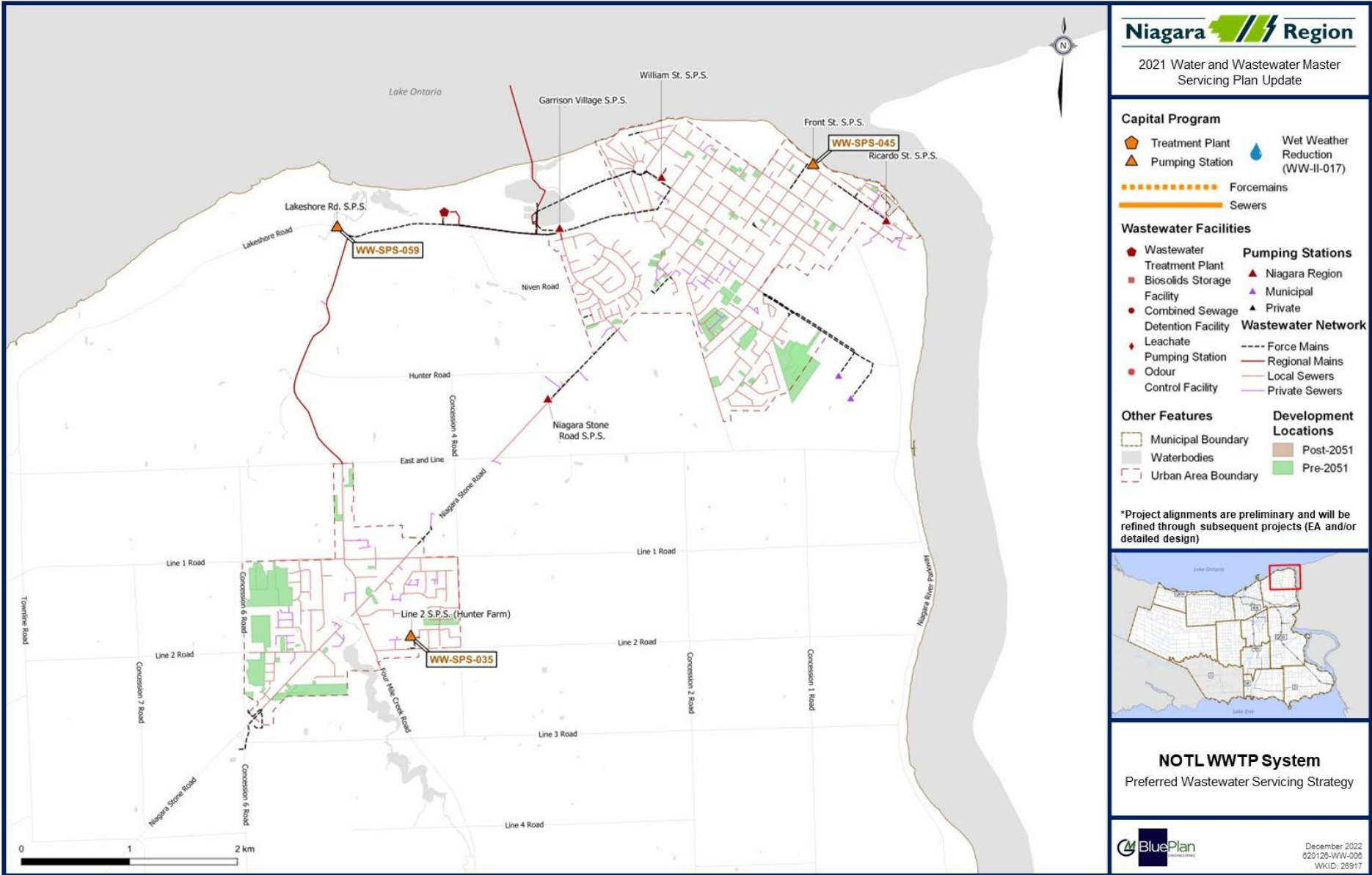


Preferred Water Servicing Strategy

Niagara Falls / NOTL / Thorold – Wastewater Strategy



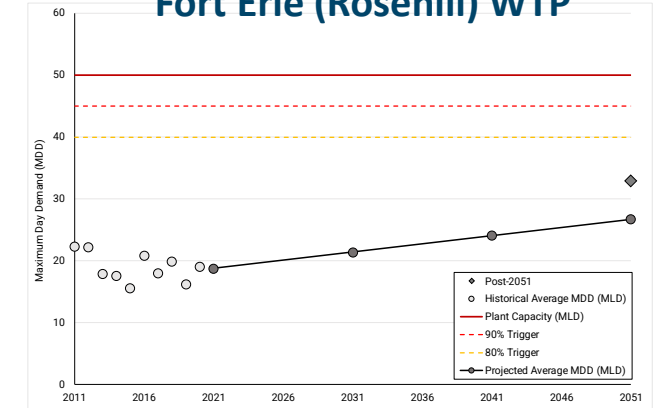
Niagara Falls / NOTL / Thorold – Wastewater Strategy



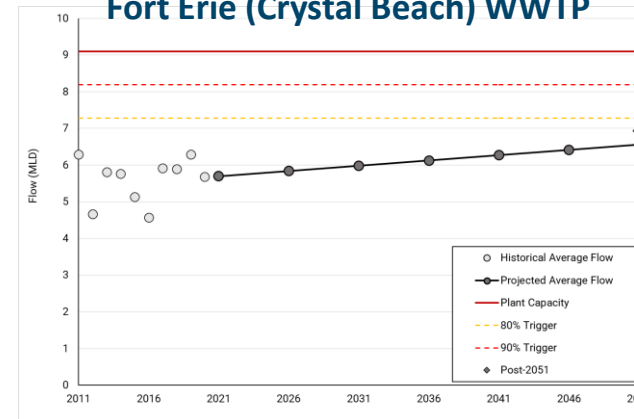
Fort Erie

- Continued infill growth in the urban centres
- Potential greenfield growth outside Fort Erie urban area
- Water treatment capacity sufficient
- Some trunk water system upgrades required for growth
- Some wastewater pumping station upgrades required for growth capacity
- Wastewater system capacity also achieved through strategic wet weather flow reduction programs

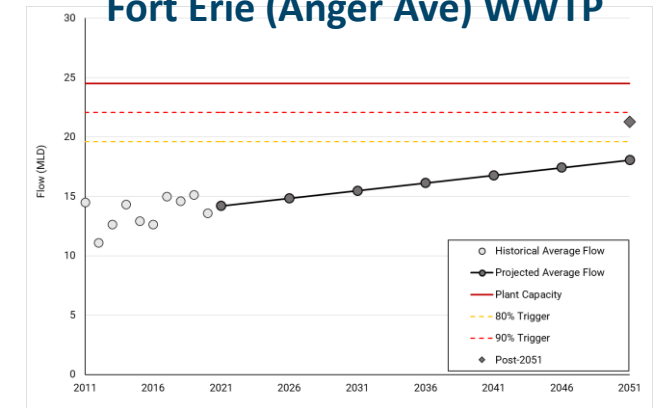
Fort Erie (Rosehill) WTP



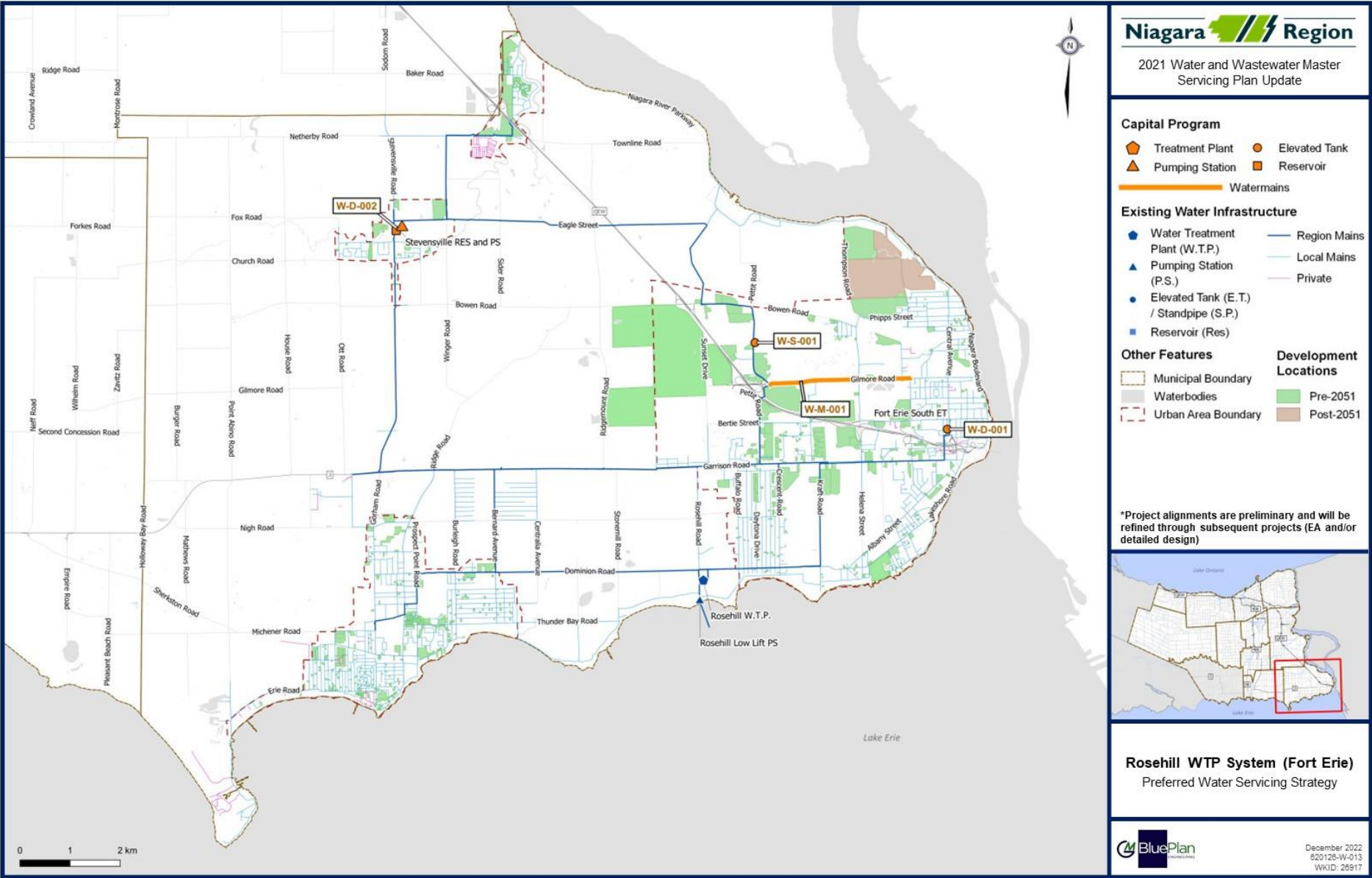
Fort Erie (Crystal Beach) WWTP



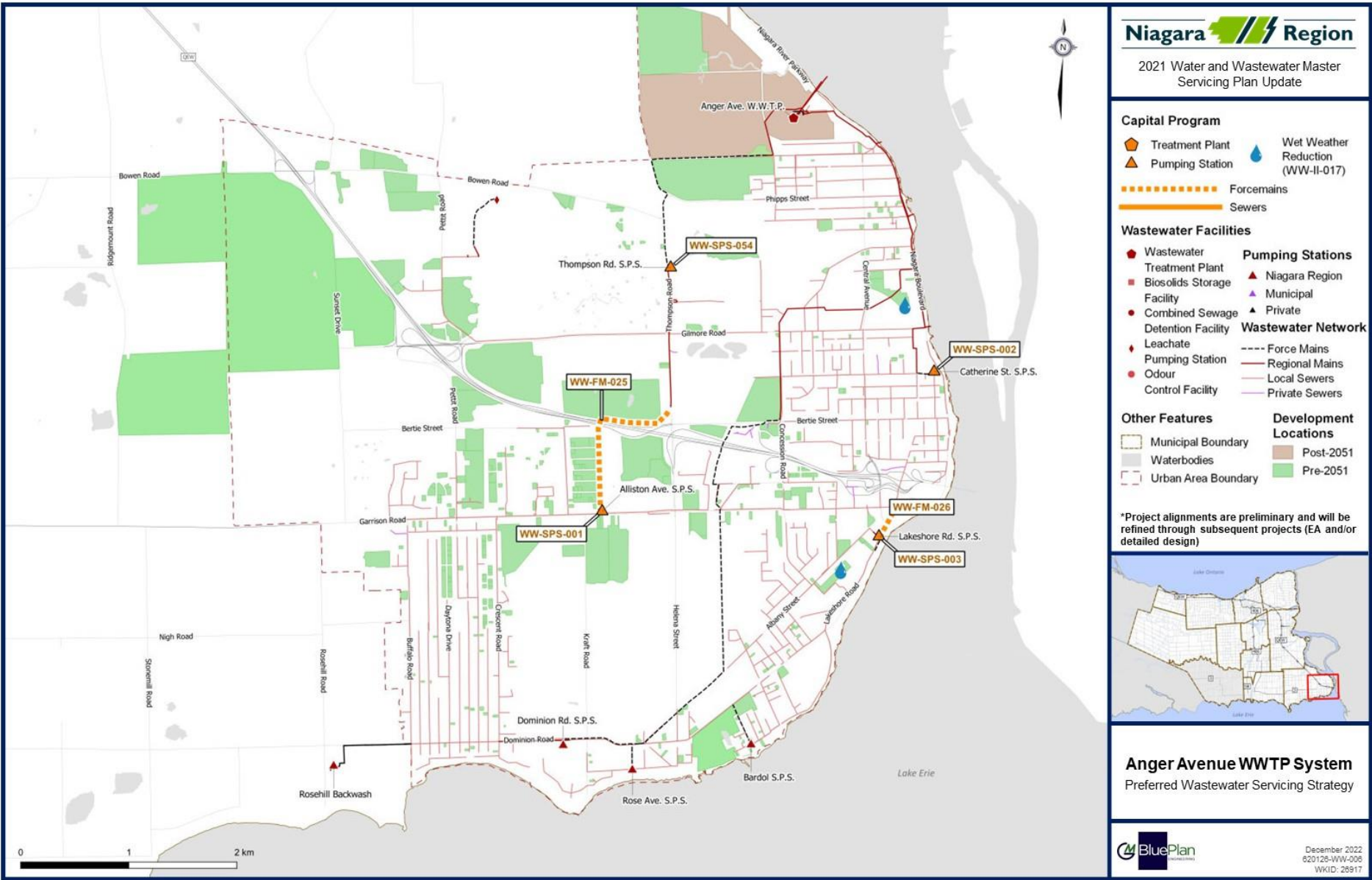
Fort Erie (Anger Ave) WWTP



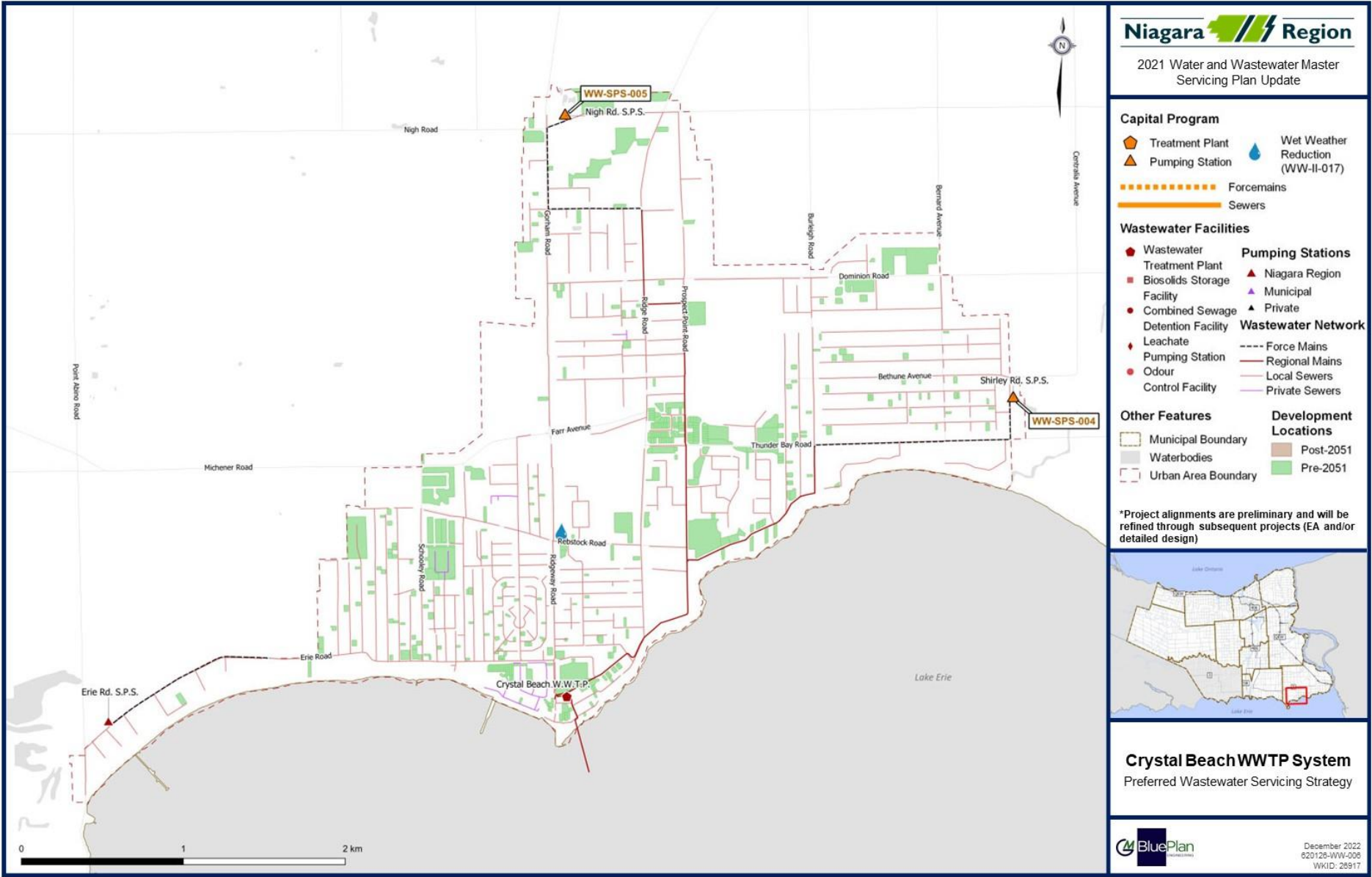
Fort Erie – Water Strategy



Fort Erie (Anger Ave) – Wastewater Strategy

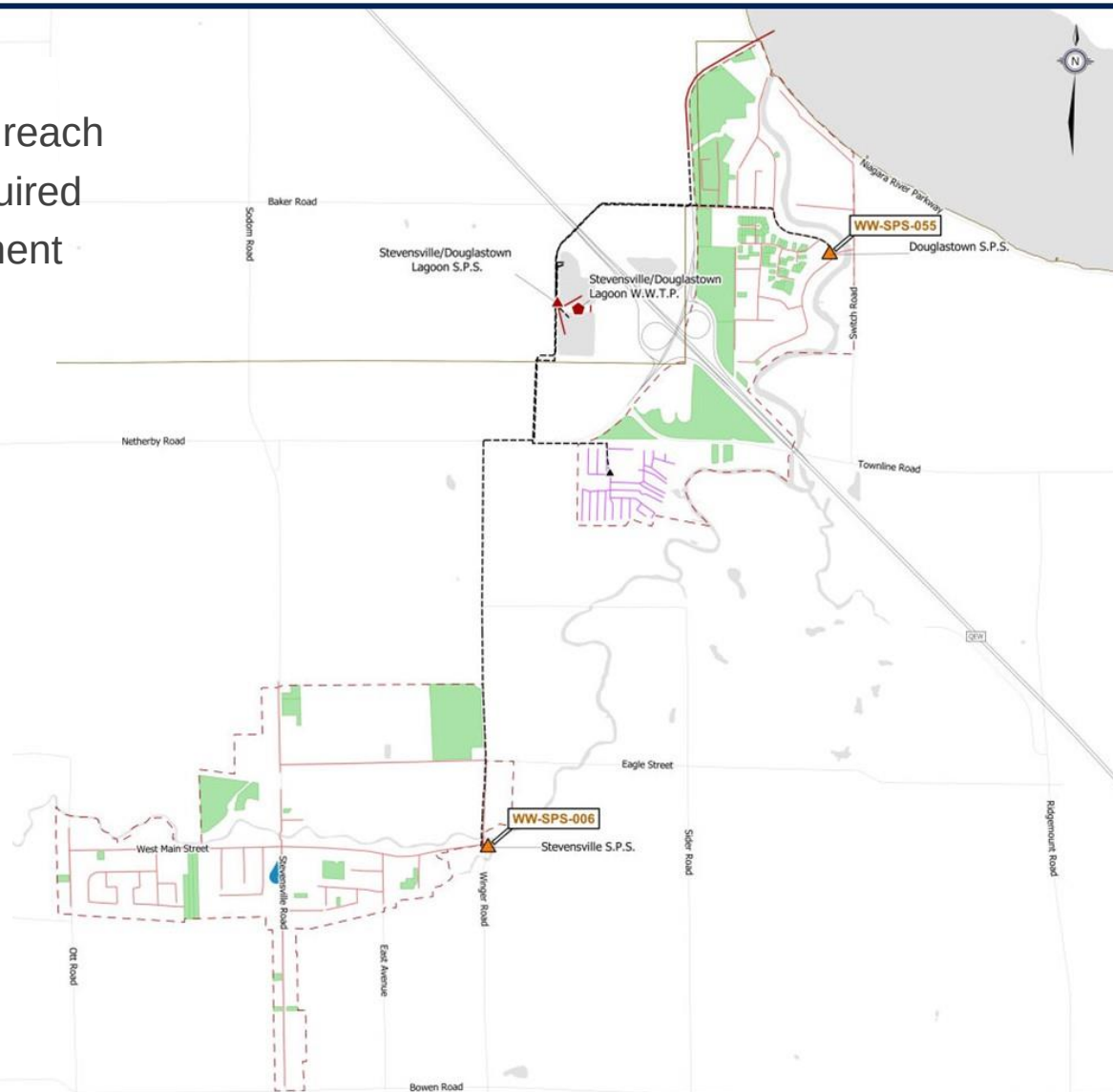
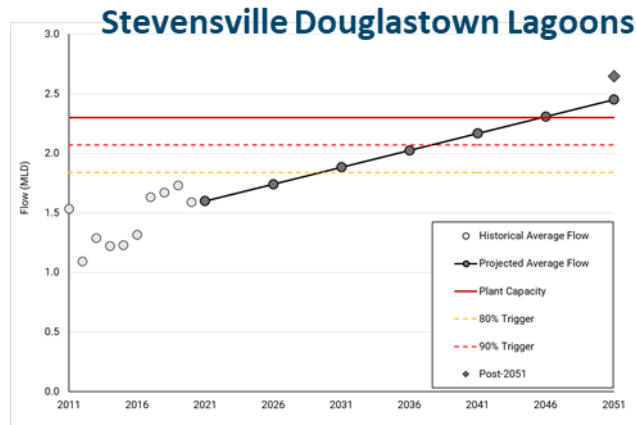


Fort Erie (Crystal Beach) – Wastewater Strategy



Stevensville Douglastown – Wastewater Strategy

Stevensville Douglastown Lagoons will reach capacity. Broader strategic study is required to determine optimal wastewater treatment solution for all of Fort Erie.



Niagara Region
 2021 Water and Wastewater Master Servicing Plan Update

Capital Program
 Treatment Plant
 Pumping Station
 Wet Weather Reduction (WW-II-017)
 Force Mains
 Sewers

Wastewater Facilities
 Wastewater Treatment Plant
 Biosolids Storage Facility
 Combined Sewage Detention Facility
 Leachate Pumping Station
 Odour Control Facility
 Pumping Stations
 Niagara Region
 Municipal
 Private
 Wastewater Network
 Force Mains
 Regional Mains
 Local Sewers
 Private Sewers

Other Features
 Municipal Boundary
 Waterbodies
 Urban Area Boundary
 Development Locations
 Post-2051
 Pre-2051

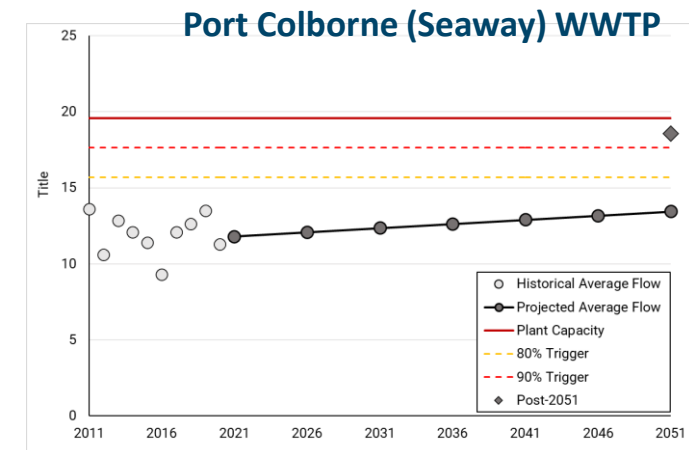
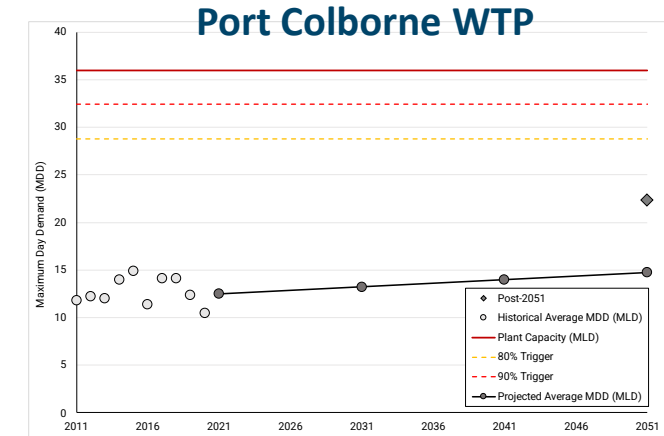
*Project alignments are preliminary and will be refined through subsequent projects (EA and/or detailed design)

Stevensville / Douglastown System
 Preferred Wastewater Servicing Strategy

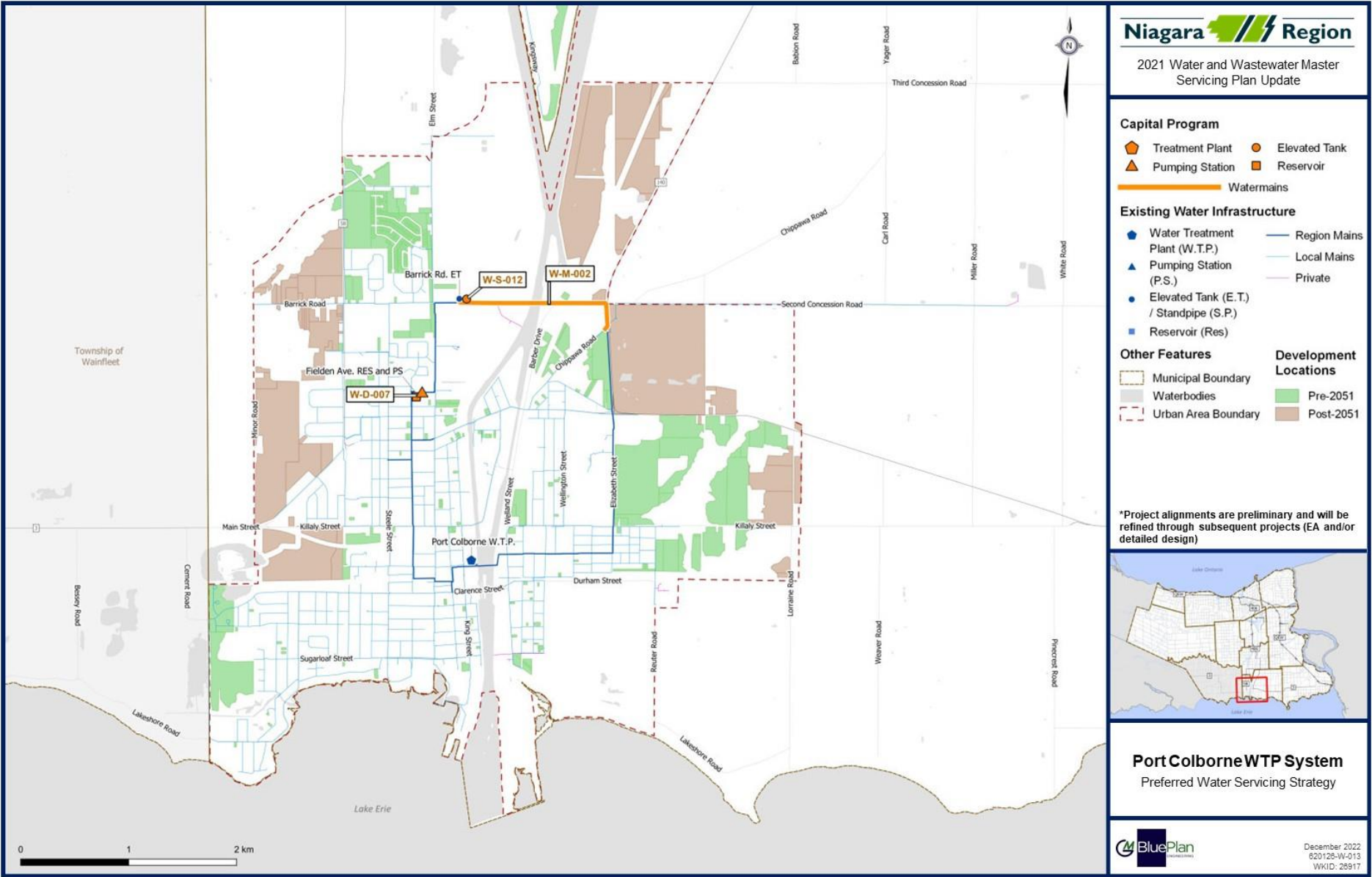
December 2022
 620126-WW-006
 WKID: 26917

Port Colborne

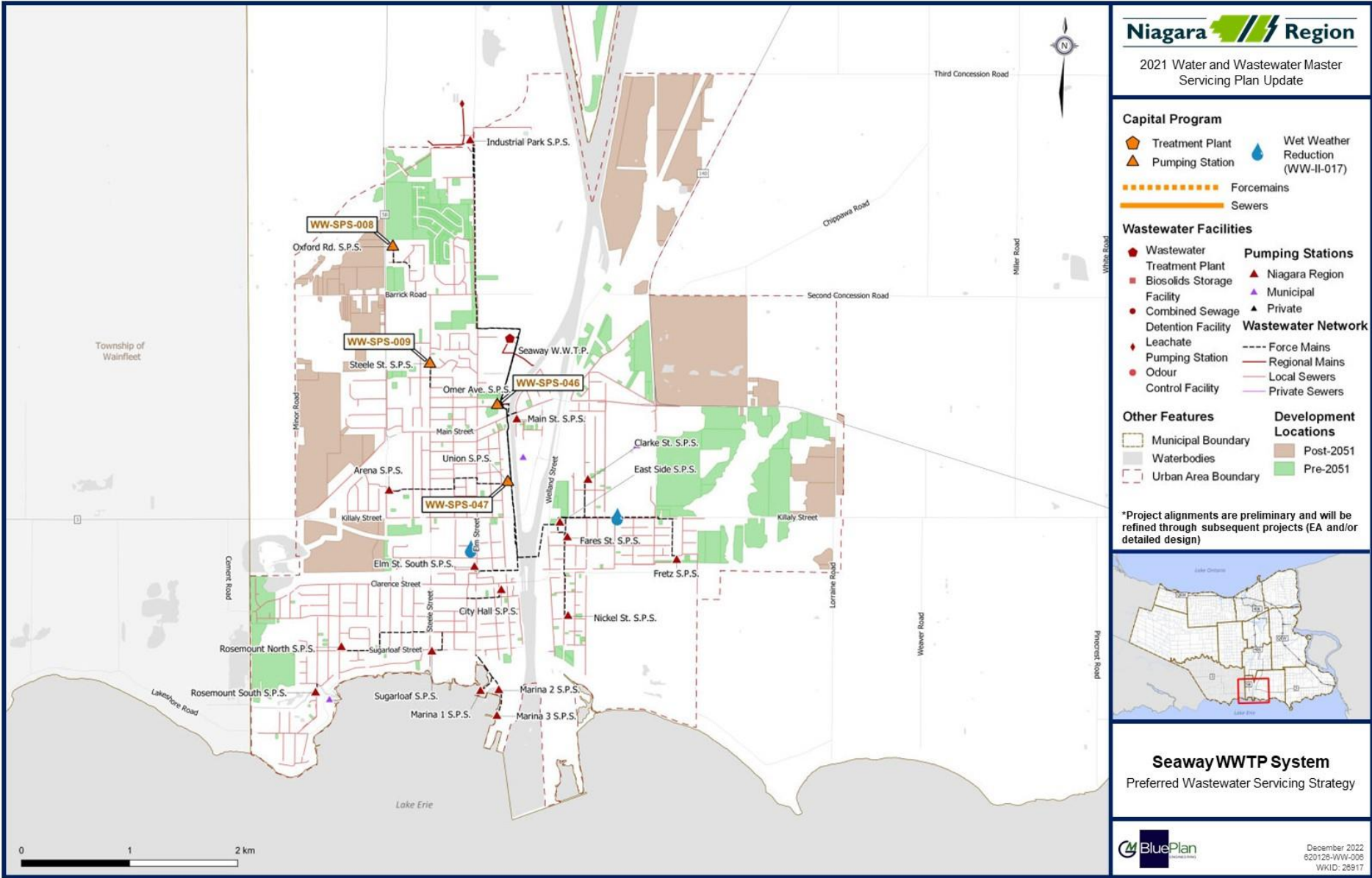
- Infill and greenfield growth
- Water and wastewater treatment plants have sufficient capacity
- Trunk watermain recommended to increase flow and provide security of supply across the canal
- New elevated tank is required post-2051 to support growth
- Wastewater pumping station upgrades required for growth capacity
- Wastewater system capacity also achieved through strategic wet weather flow reduction programs
- Awareness of long-term growth potential



Port Colborne – Water Strategy



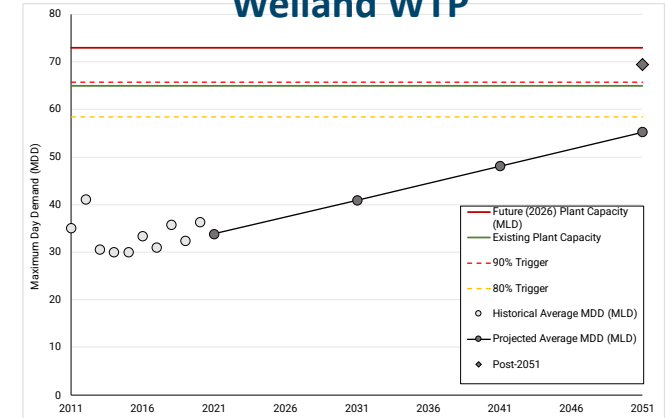
Port Colborne – Wastewater Strategy



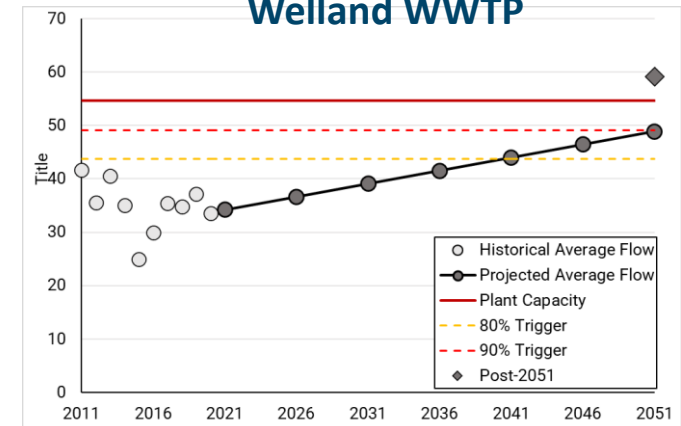
Welland / Pelham

- Infill and greenfield growth
- Water and wastewater treatment plants will require additional capacity for growth (WTP underway, WWTP future consideration)
- Additional storage and related trunk watermain and trunk watermain looping required to support growth
- Wastewater pumping station and forcemain upgrades required for growth capacity
- Wastewater system capacity achieved through strategic wet weather flow reduction programs

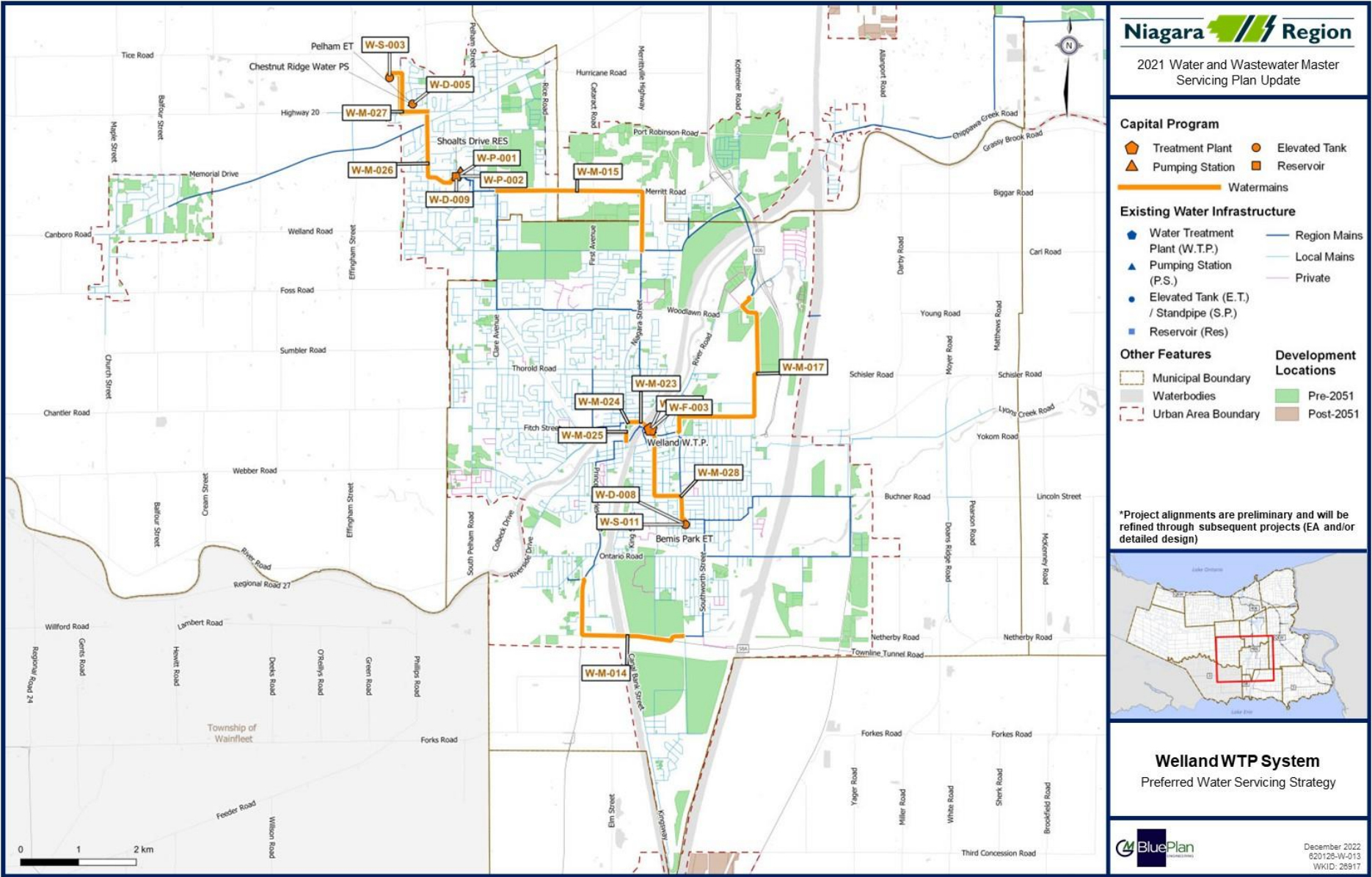
Welland WTP



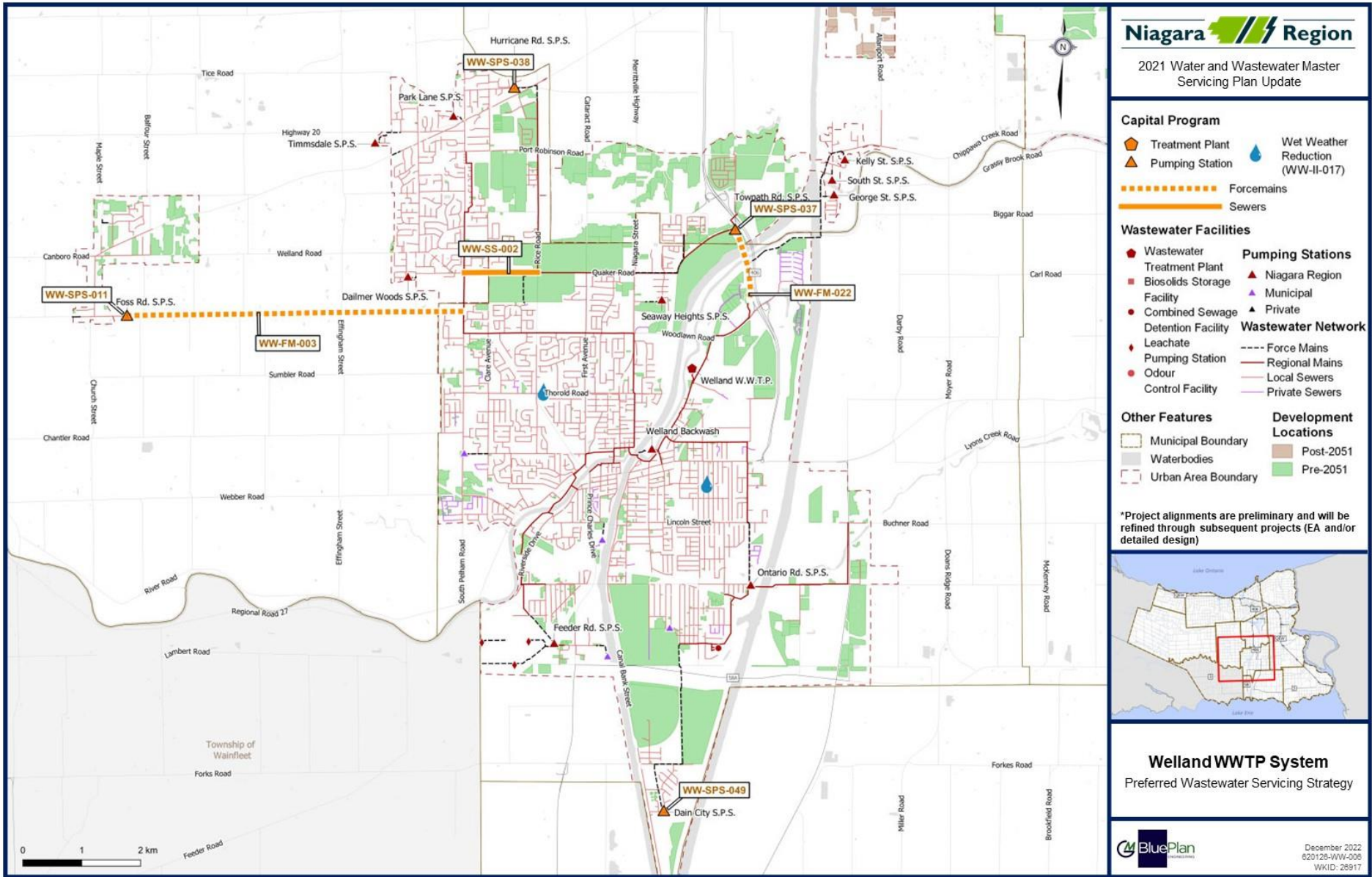
Welland WWTP



Welland / Pelham – Water Strategy



Welland / Pelham – Wastewater Strategy



Wet Weather Flow Reduction Program

- Strategic identification of wet weather flow reduction opportunities based on historical flow monitoring and modelling
- The Region currently, and will continue to implement a funded program to deliver projects in collaboration with the Local Area Municipalities to address wet weather flow reduction
- Projects can range from:
 - Flow monitoring
 - Hydraulic analysis
 - System testing (inspections, condition assessments)
 - Sewer separation
 - Sewer rehabilitation
 - Infrastructure upgrades (new sewers)
 - Private disconnections
- Implementation of this program can free up capacity in the system to support growth as well as improve the current level of service and environmental protection in the area

Water Capital Program

Impacts:

- Additional growth out to year 2051
- Increased storage requirements
- Additional Regional Transmission Main requirements
- Increase in cost estimates for some projects previously identified in 2016 MSPU
- Additional new projects to service growth areas and 2051 capacity requirements

	2022 - 2031	2032 - 2041	2042 - 2051	Total
Water Treatment Plants	\$153,904,000	\$0	\$0	\$153,904,000
Water Pumping Stations	\$40,339,000	\$0	\$1,716,000	\$42,055,000
Water Storage Facilities	\$141,903,000	\$0	\$44,226,000	\$186,129,000
Water Linear	\$196,522,000	\$118,346,000	\$26,169,000	\$341,037,000
Water Other	\$8,692,000	\$1,802,000	\$1,290,000	\$11,784,000
Water Post Period				\$69,960,000
Additional Studies	\$1,750,000	\$1,750,000	\$1,750,000	\$5,250,000
Total	\$543,110,000	\$121,898,000	\$75,151,000	\$810,119,000

Wastewater Capital Program

Impacts:

- Additional growth out to year 2051
- Increased wet weather program
- Region-wide projects (odour control, ECA, flow monitoring/data)
- SNF program updated costs
- Increase in cost estimates for some projects previously identified in 2016 MSPU
- Additional new projects to service growth areas and 2051 capacity requirements

	2022 - 2031	2032 - 2041	2042 - 2051	Total
Wastewater Treatment Plants	\$208,275,000	\$323,895,000	\$0	\$532,170,000
Wastewater Pumping Stations	\$162,763,000	\$38,674,000	\$0	\$201,437,000
Wastewater Linear	\$292,800,000	\$95,105,000	\$0	\$387,905,000
Wet Weather Program	\$75,000,000	\$75,000,000	\$75,000,000	\$225,000,000
Wastewater Other	\$34,500,000	\$37,656,000	\$34,000,000	\$106,156,000
Wastewater Post Period				\$200,000,000
Additional Studies	\$17,250,000	\$1,750,000	\$1,750,000	\$20,750,000
Total	\$790,588,000	\$572,080,000	\$110,750,000	\$1,673,418,000

Integrated Program with Sustainability Initiatives

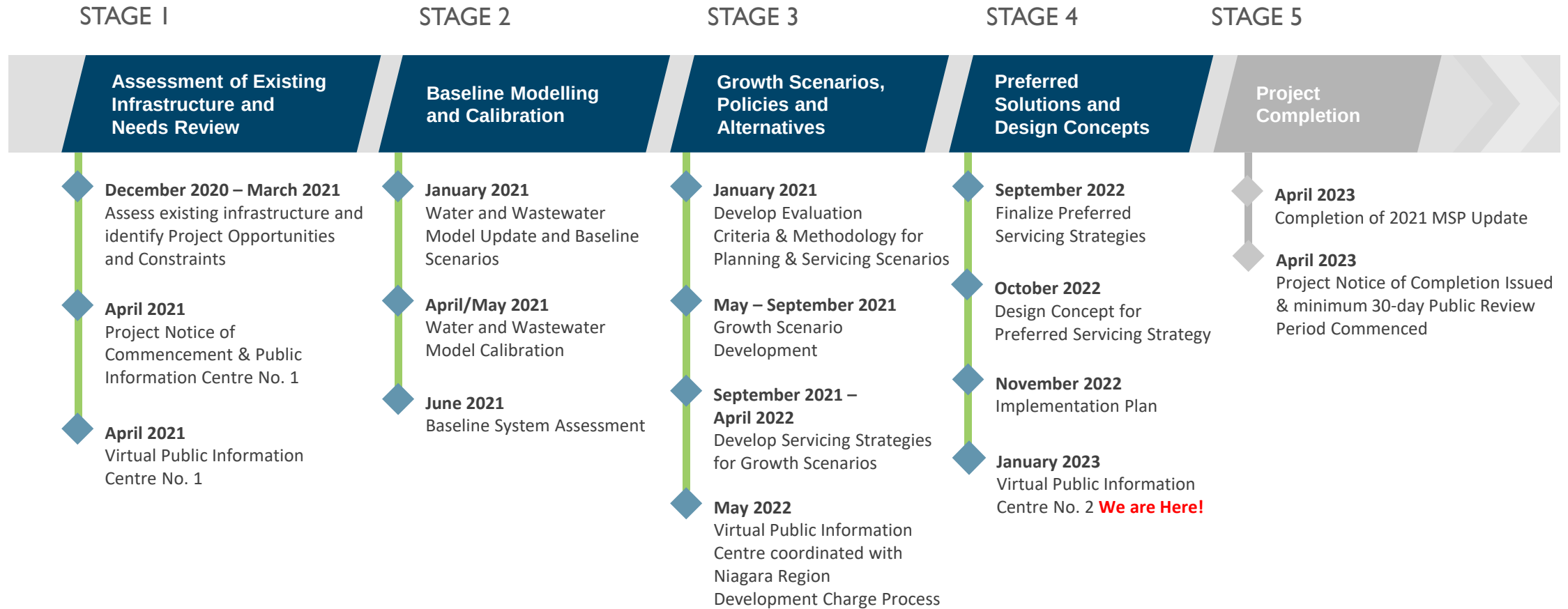
- It is essential that the existing infrastructure is maintained with good condition and performance in order to support servicing growth
- The sustainability and state-of-good-repair program is essential and is a capital program over and above the growth-related MSPU program
- The Sustainability Program was reviewed and resulted in:
 - Elimination of duplicate projects
 - Alignment of the timing for both growth and sustainability needs where appropriate
 - Focus on the next 10 year program
- Preliminary identification of Sustainability Needs are:

	Additional Sustainability Projects - 2022-2031
Water	\$490,737,000
Wastewater	\$1,048,099,500
Total	\$1,538,836,500

Key Considerations

- Servicing strategies based on maintaining appropriate levels of service throughout the systems
- Investment is needed to support operations, maintenance, staff and other resources
- With new growth-related projects will come resourcing requirements to deliver the program
- The development community must similarly commit to appropriate levels of service and construction practices to support the capacity goals for growth
- Many projects in the MSPU will require future studies to refine the recommendations and address Class EA requirements. For some projects, Class EA studies are already underway and will update the strategies (i.e. Queenston WWTP).
- Expanded urban areas will require development of servicing strategies, extension of local servicing, and new local infrastructure (in some cases including local wastewater pumping stations)
- MSPU cost estimates represent conceptual level estimating. We continue to see significant fluctuations in project costs related to volatile market conditions, supply chain issues, and other variables. It is difficult to predict future costs, however, best available information has been used under the MSPU.

MSPU Process Overview



Thank You for Participating – Please Stay Engaged

We want to hear from you!

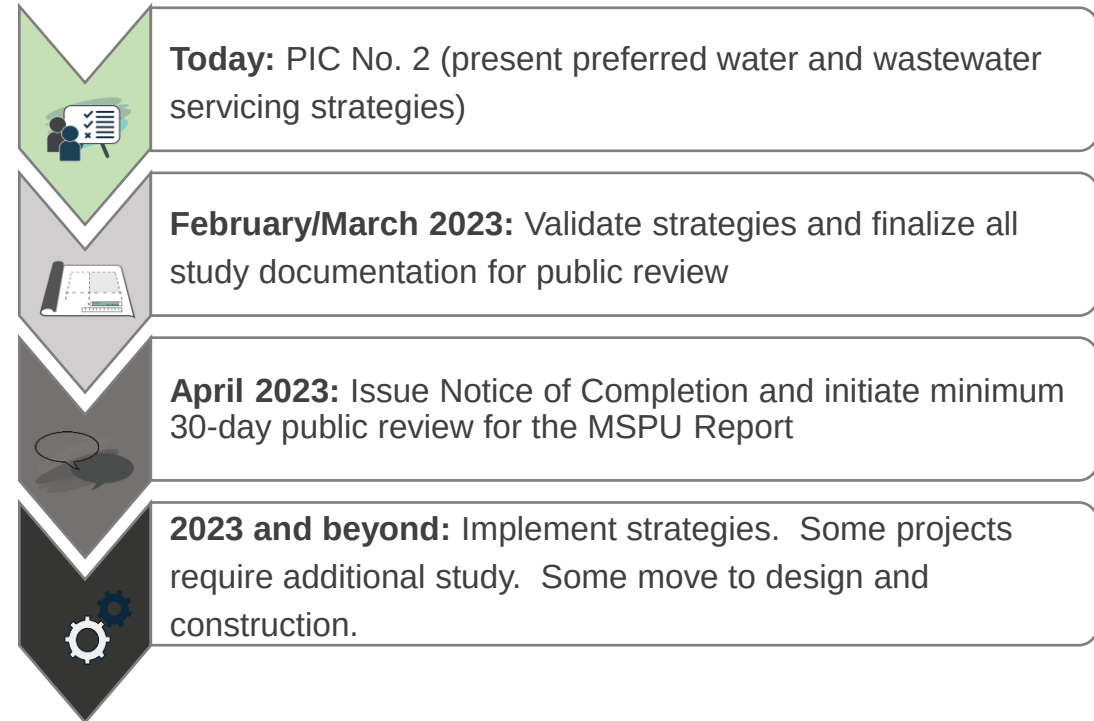
- **Visit our website:** <https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>
- **Provide PIC No. 2 feedback** on the website from Jan. 19, 2023 to Feb. 2, 2023
- **Continue to receive study notifications.** Sign up on the website and receive the notice of study completion when the final MSPU documentation is available for public review

For any MSPU questions, please contact the Project Manager:

Ilija Stetic, Project Manager Niagara Region

289-668-4536 | niagaramspu@niagararegion.ca

Next Steps:



2021 Water and Wastewater Master Servicing Plan Update – Public Information Centre (P.I.C.) No. 2

Chris Hamel [00:00-03:12]

Welcome everybody. This is the Niagara Region Master Servicing Plan Update, PIC number 2. We very much appreciate your participation, so thank you for registering and being part of this evening. As you can see, we're undertaking this PIC Public Information Center virtually, so that does come with some logistics and facilitation on our part. So just before we start, just wanted to highlight a few items as you can see, it's a webinar format. We will have introductions, a presentation and a formal question and answer period. We're recording the full PIC in order to make it available for public viewing for those not able to attend.

We are focusing the audio and video on the Region and project team members, so hopefully you can see the presentation and obviously the audio that comes up while we're presenting. We're trying to facilitate the Q&A through the Q&A feature that comes with the Zoom webinar. So hopefully you see that button located at the bottom of the screen. Please feel free to type in your questions as we work through the presentation. If there's a relevant question that's sort of timely with the material being covered, we'll try to address it as we move forward. If not, we'll be logging those questions and addressing them at the tail end of the Q&A period. We do appreciate that sometimes the questions can be lengthy. We do have the ability to, if you raise your hand, we can provide an unmute feature that will allow you to ask the question directly through your audio. If that's most convenient, we will try to work with that to move that forward. So again, appreciate your coming, try to use the Q&A feature, but we'll keep this as interactive as possible as we work through the presentation.

So now I'd like to provide a quick overview of the project team panelists that are available for this evening. So again, my name is Chris Hamel. I'm the president of GM Blue Plan. GM BluePlan is the consultant working on this project. I'm the project manager for the MSPU. From our GM BluePlan team. We have Julien Bell and Jody Lee. They'll be available to address some technical questions. We also have Alice Lin, who's a communication specialist. She's also served as thing as a co-host and moderator, and she'll help facilitate the logistics with questions and answers.

From Niagara Region Project Team, we have Ilija Stetic, he's the region's project manager for the MSPU. We also have Phill Lambert, Director of Infrastructure Planning Development Engineering, he's an active sponsor for the project. We do have a number of region staff as well as stakeholders and local municipality staff that are sitting in on the PIC. So hopefully they'll stay active as we work through the materials. So with that, I'd like to pass it over to Phill Lambert, who can say a few words of introduction, before I start with the presentation.

Phill Lambert [03:12-04:25]

Thank you Chris, and thank you, everyone, for joining us this evening. It's a pleasure to have you with us as we talk about our 2021 Water and Wastewater Master Servicing Update. As part of the Official Plan work (which the Region just had it approved) proactively planning for growth to approximately just less than 700,000 people and 272,000 jobs by 2051. We did this in a coordinated approach where we took the planning, the infrastructure through the water and wastewater master plan, as well as our development charges, and made sure they were aligned. So we had growth, infrastructure and financing together such that we would be able to coordinate growth in an effective manner. As Chris mentioned, GM BluePlan is a consultant for this project, but the Region has been working with our local municipal partners throughout this project, including the planning portion, anticipating where growth will occur, as well as the local servicing component. And with that, I'd like to turn it over to Chris. Thank you.

Chris Hamel [04:30-04:50]

So I have a number of slides that will cover our presentation for this evening. I'm hoping to sort of completed in around 30 to 40 minutes. If there's questions as are moving forward, please use the Q&A or raise your hand if necessary. To start things off, what is the foundation approach to the master servicing plan?

Project Background

Chris Hamel [04:50-06:07] This is the Water and Wastewater Master Plan and we're building on the previously completed 2016 Master Plan. Now, in that last round, what we did is we did have growth out to 2041. So, one of the major updates that we're able to undertake is utilized better planning information that takes us out to 2051. The goal of a master plan is obviously to develop a long-term water and wastewater servicing strategy and capital forecast.

So it is about growth, but it is also about ensuring that our existing—as well as future residents—are experiencing a high level of service for these services. We need to consider regulatory legislative requirements and we also address a number of Regional priority elements such as climate change, energy management, infrastructure optimization, systems, security resiliency. So, there are a number of components that go into a master plan.

As you can appreciate, it's a fairly high level study which is really providing the road map for the services out to the future. While our focus is 2051, we're able to use some good planning information to make sure that we're aware of the potential infrastructure impacts even beyond 2051, as the infrastructure we're recommending will be in the ground and it will be used much beyond the 2051 horizon.

Project Environmental Assessment (EA) Process

Chris Hamel [06:07-07:04]

Master Servicing Plans are completed under the Class Environmental Assessment (EA) process. You can see the typical process here phases 1 through 5. Under a master plan, we complete phases 1 and 2, which is really focused on establishing your problem / opportunity statement, working through a number of alternative solutions and evaluating those solutions to come up with a preferred solution, leveraging the understanding of the multiple bottom lines—natural environment that social jurisdictional environments, technical and economic considerations—and the big piece is public and stakeholder consultation. There's a minimum review of 2 PICs, we had one earlier in the process and this is our second and final PIC as part of the master plan process. So again, we appreciate your participation and looking forward for comments and feedback.

Public Information Centre (P.I.C.) No. 2 Objectives

Chris Hamel [07:04-07:49]

Our PIC number 2 objectives, when we complete these PICs virtually, what ends up happening is we have a live presentation as we have tonight, but we make sure this material is available for a two-week period. From January 18 to February 2, this material will be available on the Region website and that's an opportunity for further review and to submit comments or feedback. We're looking for those responses, if not tonight, no later than February 23.

Correction: Deadline to receive feedback and comments was February 2 but has been extended to February 6 to accommodate for the time this transcript and display board was posted on the project website. The summary of responses received for PIC No. 2 is anticipated to be available via the Project Website by February 23.

But this evening, we're going to be presenting the recommended strategies for water and wastewater, hopefully providing additional clarity around the update itself, the process and any next steps, and then facilitating, receiving that feedback and answering any questions you may have to those.

Planning Context

Chris Hamel [07:50-08:33]

So the planning context, which is always a key starting point for a master plan, which is growth driven, is to look at how exciting Niagara and where we're heading into the future. So you can see it is growing. There is some significant growth, as Phill highlighted, going out to 674,000 people and 285,000 jobs up by 2051. So we need to look at the infrastructure that's going to be required to support that growth as well as maintain existing level of service for the existing residents and businesses. While 2051 is our focus, as I mentioned, we are considering growth beyond 2051 to ensure that we have a good understanding of the long term implications for infrastructure.

Key Drivers for the Master Servicing Plan Update

Chris Hamel [08:35-09:41]

Some key drivers when we enter in a master servicing plan is it's not just about growth. As I mentioned, there's compliance, there's regulatory, there's other key issues that we need to address. One key element, for example, is wet weather issues. So how do our systems manage under these higher intensity and more frequent rainstorms? Ensuring that we're thinking about the long term capital needs of this infrastructure, so it's not just the initial cost to construct the infrastructure, but our how can we manage the cost and resources needed to operate and maintain this new infrastructure to the future? A key regulatory elements like the Ministry's (MECP) F-5-5 regulations, which talks about how we manage these weather flows and if there are impacts to the environment from overflows. There are a lot of balancing issues like optimization and level of service, you know, what is our future design basis, how much water might be using into the future, how we want to manage that. So, there's a lot of elements that we need to balance and work with as we develop our solutions under this Master Plan.

Existing System Understanding – Water System

Chris Hamel [09:45-10:40]

As a starting point, for those that may or may not be familiar, it's good to understand the existing systems across the Region. Under this master plan, we are focused on the lake-based systems. Those that receive their water from the lake are primarily urban centers. You can see that from a water system standpoint, the Region manages the trunk infrastructure, which are the plants, the pumping stations, the storage facilities, as well as the larger diameter watermains. In some cases, a lot of these systems are connected between municipalities. So you can see the Grimsby, Lincoln, West Lincoln. You can see the larger system that makes up St. Catherine's, NOTL, Niagara Falls, as well as some connections back into West Lincoln, the Welland system, the Fort Erie system and Port Colborne. So these are the extents across the system is a starting point on how we're building out our infrastructure.

Existing System Understanding – Wastewater System

Chris Hamel [10:40-11:18]

On the wastewater side, we have the systems across all these urban centers. Wastewater is a little more isolated as they work within the catchment areas of the wastewater treatment plants where some municipalities are connected between pumping stations, forcemains or larger sewers. So you can see the existing systems, with the diamond showing the existing wastewater treatment plants and the dots showing sewage pumping stations and similarly the regional infrastructure are these plants, the pumping stations, and forcemains, as well as a larger diameter trunk sewers that connect this major system.

Existing System Understanding – Local Servicing

Chris Hamel [11:19-11:38]

So from the trunk systems on both water and wastewater, you then have local servicing. So the smaller diameter water mains and sewers and those are located in on all streets with the services out to the homes and businesses and those are in coordination with the region manage and operated by the local municipalities.

Grimsby / Lincoln / West Lincoln

Chris Hamel [11:38-12:20]

So my intent now is to actually work through these systems and our recommendations on sort of an area by area basis. Our starting point will be Grimsby, Lincoln and West Lincoln. But before I do that, I see Albert, I appreciate that you've used the Q&A feature just to double check to see how that relates. I think we can come back to the Q&A period for that as we address our strategies as a whole, and I think you're bringing forward some interesting ideas that could support into our preferred solution, so let's come back to that, if that's okay Albert.

Chris Hamel [12:22-13:51]

So again, starting with Grimsby, Lincoln and West Lincoln, what we can see here on this chart is we do project our growth and the flows that each of the facilities out to 2051. The Grimsby water treatment plant is going to reach its capacity within that period and similarly the Baker Road Wastewater Treatment plant. In this case, we're going to need additional treatment capacity to support growth on these systems because we are seeing growth in the Smithville, Beamsville, and Vineland area. We continue to see intensification growth in Grimsby and along these corridors, particularly with the highways in future plans. What we're finding is the Grimsby, Lincoln, and West Lincoln system on the water side is the need to move water through the system, the need for additional security and resiliency of that supply to ensure that we don't have too large a pocket through single feeds as much as possible. Within the West Lincoln area and the Lincoln area, pockets such as Vineland are actually supplied through the DeCew system in St Catherine's.

And a big piece as we saw the growth out to 2051 was addressing our storage needs. So this will be a common theme as we work through all our systems, the additional water storage that was required. And in some cases, those expansions happen within 2051 and in some cases, such as the Hixon Reservoir, there's potential that the reservoir will be further expanded post 2051.

Chris Hamel [13:51-14:52]

Now, on the wastewater side, what you'll see is that there is significant impact to the pumping stations because growth needs to work its way down the chain of conveyance as it works to the wastewater treatment plant. So pumping station expansion forcemain work is all required for this additional capacity. And then another common theme that I'll continue to talk about this evening is the need to have strategic wet weather flow reduction programs. What that means is we've been looking at the opportunity—instead of just simply building bigger infrastructure, bigger pipes—is there an opportunity to try to get these peak flows when it rains as there are a number of conditions, if the flows are able to work their way through the pipes and pumping stations without much trouble, but we see greater impact under these heavy rains, we are asking if there's a way to manage and reduce those flows into our infrastructure, so we don't necessarily have to expand it? I will go into more detail, but this was flagged as an opportunity.

Grimsby / Lincoln / West Lincoln – Water Strategy**Chris Hamel [14:55-16:05]**

So here is the depiction of the preferred strategy for the Grimsby, Lincoln and West Lincoln Water System. The orange lines are depicting the large trunk feeder mains that require expansion and addition to support the growth. You can see it's leading from the plant there at the Grimsby water treatment plant, which requires expansion. Those lines are able to move the water to the east and ultimately to the south, which supports at that Park Road Reservoir and Pumping Station, and our ability to provide more storage and more pumping to help move the water up to Smithville. Within Smithville itself, there's a need to sort of enhance the looping around the community with those growth areas. So, there's not just the feeder main looping, but there's additional pumping and additional storage to support that. And one key new addition to the master plan compared to previous years is that W-M-013, which is providing a further linkage to the Beamsville area with the storage to help move water into the growth areas there. This combination of infrastructure is required to meet the long term needs and to 2051 on the water side.

Grimsby / Lincoln / West Lincoln – Wastewater Strategy**Chris Hamel [16:06-17:20]**

Now, on the wastewater side, we're bringing our flows back down to the Baker Road wastewater treatment plant. You can see there, particularly with the growth up in Smithville, that does trigger expansion requirements of the trunk sewer and forcemain and pumping station that brings the water to the north down the escarpment to the Grimsby system. And with the growth in the Beamsville and some of these other pockets, you can see that each of these localized sewage pumping stations require expansion, but when you require some of those expansions and they move those flows downstream, the downstream pumping stations equally need to be further expanded. So, there's a lot of triggered infrastructure requirements as we work our way down to the wastewater treatment plant. The triangles are the pumping stations. You can see the pipes there and then ultimately the expansion requirement at the Baker Road plant. But you will see on this map as well are the blue water droplets, those are reflective of some of the key

areas that we believe there's opportunity for that wet weather flow reduction. So again, this is the larger scale across for the whole wastewater strategy.

Chris Hamel [17:21-18:03]

I see a question here coming in from Dave around the cost estimates to send water to and get wastewater back from Smithville. I will talk about the overall program costs, but as we work our way, we can identify some particular project costs. For example, what you will see in ultimately our documentation for the master servicing plan is of course, yes, we costed out WW-SPS-012, we've costed out the WW-FM-011, WW-SS-013 and then ultimately its component into the treatment plant. So perhaps that's something I can just trigger our team, Jody or Julien to highlight and maybe we could come back with those costs during the Q&A period.

St. Catharines

Chris Hamel [18:04-18:30]

So moving over to St. Catharines, I see Albert has actually raised his hand. Albert, is your question relevant to the system we're talking to?

[REDACTED] [18:35-18:59]

You were talking about controlling the well, let me call it the stormwater flow into the water pollution control plants. Could you just say how that would be done? Is it a storm retention ponds or reservoirs and was controlled out for a period of time or what? How would that be done?

Chris Hamel [19:00-20:37]

So, actually, Albert, I'm going to address that in specific detail as we work our way through the presentation. We'll park that. But I will come back and explain that in more detail.

So looking forward, I'm going to work our way. As I said, through all the systems and then talk about some bigger picture costs as well as weather and those elements. So if we look at St. Catherine's, what we see in that community is actually continued intensification. So it is really focused on intensification with a pocketed eye greenfield opportunities as you can see from DeCew, which is the main water source and then the two systems on the wastewater side, which is Port Weller in Port Dalhousie. All these facilities do have sufficient capacity to support the growth. What we're seeing on the water distribution side is the need to provide some additional conveyance capacity or distribution capacity, particularly as we move the water out to some of the extremes and to some of the neighboring pockets. What we are looking at is, as we continue to grow, that there are going to be supporting facilities required to support these additional flows. So, for example, at the DeCew Water Treatment Plant, the reservoir itself will require some expansion. At this time, we're identifying it as post 2051, but it's important to be aware that that is out there. And then as we work our way through the wastewater system, there will be some wastewater pumping station upgrades to support the growth. And again, a lot of strategic weather flow production to make that program work.

St. Catharines – Water Strategy

Chris Hamel [20:38-21:28]

So you can see here the larger group of projects for the water system. You can see, as I mentioned, this is a much more interconnected group. So it's not just for St Catherine's. You can see the storage ultimately identified at DeCew plant in the middle there. The watermain itself, WM-022 helping move the water out from the plant. Some of these alignments I should highlight will ultimately be refined through more detailed study, but the concept of moving the water is required. And then you can see as we work our way to the west WM-016 and the additional storage facility to help move that water over to the Lincoln service areas. And then we will talk about NOTL and Niagara Falls shortly. But this is the extent of the upgrades required for the St Catherine's growth.

St. Catharines – Wastewater Strategy

Chris Hamel [21:28-22:08]

As we work our way through the wastewater system, you can see it's not as much infrastructure based on the location of where that growth is. The south end Port Dalhousie, you can see we do have some isolated pumping station and of course main upgrades, but you will see a number of those blue water droplets throughout the system which is critical for us to maintain our capacity and able to support those growth flows. Similarly, on the east side for Port Weller, we do have some pumping station upgrades with some forcemains, but there is a lot of wet weather reduction to ensure that our infrastructure is able to meet capacity.

Chris Hamel [22:15-22:21]

So we do see a number of questions coming in. And again, if we haven't addressed it as we move forward, we will come back and get them at the tail end of the presentation.

Niagara Falls / NOTL / Thorold

Chris Hamel [22:21-24:18]

Now for Niagara Falls, NOTL, and Thorold, again, this is an integrated system. We are seeing particularly for Niagara Falls we are seeing significant growth across that city with a large portion of that growth located in South Niagara Falls. So, there's going to be additional water storage, there will be distribution system looping required to support that growth. The water treatment plant reservoir expansion similarly required post 2051. But because of the supply that's available through the DeCew Water treatment plant, the treatment plant itself is a good position to support that growth for water. However, on the wastewater side, some of you may be aware there is significant strategy determined through what we're calling the South Niagara Falls Wastewater Solutions. That was a separate study class here that was undertaken built on the recommendations that were part of the 2016 master servicing plan. So we were able to leverage the detailed work undertaken through that Class EA to include that detailed program. So that includes the provision of a new wastewater treatment plant in South Niagara Falls, which frees up capacity in the existing Stanley Avenue plant and allows growth through infill,

intensification and other connections to use that available capacity. What's exciting to see and some interesting opportunities that presented themselves as we brought in that strategy out to 2051, we have introduced a long term servicing strategy that connects the Chippawa area directly to the Niagara Falls plant. Instead of pumping that to the north with some of its high wet weather flows, we're able to bring those directly to the new plant within the long term solution. And then, as I mentioned, common theme, we'll see some strategic wet weather flow reduction programs.

Chris Hamel [24:19-24:53]

Specifically for Niagara on the lake in the Queenston area, we do see some infill growth. So there is some additional storage and distribution trunk looping required to support that growth. Obviously a little more stretched out into these areas as some localized pumping station and on the wastewater side as well. Now what we will show is you'll see in the map that's upcoming is for Queenston, we're still showing the program that was reflected in the DC, the development charge study at this time. But there is a separate class here that is looking at tweaking that program moving forward. So we'll highlight that in one second.

Niagara Falls / NOTL / Thorold – Water Strategy

Chris Hamel [24:54-25:38]

So here we are for the water strategy again, you saw the similar map which was focus on St. Catherine's that's needed to support moving the water out into these areas. For Niagara Falls. You can see the trunk main and that's down at the south end, which will help water move water through that area and those growth areas to the south. Additional storage required to support the supply needs. There are some interconnection mains such as WM-007 that helps move water between the trunks. And then of course, the larger connection in NOTL WM-008 there with the storage facility. With these pieces of infrastructure in place, the ability to move water between the facilities and between the systems as provided out to 2051.

Niagara Falls / NOTL / Thorold – Wastewater Strategy

Chris Hamel [25:39-27:00]

On the wastewater side, the South Niagara Falls is the most dramatic infrastructure requirements that are being identified under this master plan. And again, consistent with what was carried in the class EA. So you can see the provision of the new wastewater treatment plant to the south with the new trunk sewer working its way down Montrose Road and over to the plant. What that does is it provides everything south of Lundy's Lane or close to Lundy's Lane will now move south to the new plant. It also provides now the opportunity for WW-SS-008 and related sewers to help bring the flows across to the West and to that new plant. And then there's also integrated the plan related to Thorold South. So, you can see right now is the Thorold area was previously pumping north through Port Weller by turning it to the south were able to pump the WW-SPS-058 and WW-SPS-028 using WW-FM-006 and then the new WW-SS-007. We can now move those wastewater flows to the south and to the new wastewater

treatment plant at South Niagara Falls and free up capacity in the Port Weller system. And that really helps that infrastructure maintain capacity in the St Catherine system.

Chris Hamel [27:01-27:13]

In NOTL, there are some localized sewage pumping stations that require some additional expansion to support the pockets of growth that the infill that are happening in those communities.

Fort Erie

Chris Hamel [27:14-28:05]

So now moving down over to Fort Erie, we are continuing to see infill growth and a lot of growth in those urban centers. There is a significant land use that could provide potential greenfield growth just outside the Fort Erie urban area. From the water treatment plant side, we do have sufficient capacity out to 2051, but there will be some trunk water system upgrades required for growth. On the wastewater side, you can see that we're starting to approach capacity at the treatment plants, but we're able to manage out into the 2051 horizon. But there is consideration post 51 that we'll need to keep an eye on. And in that system, there are pumping station upgrades required for capacity and again, strategic wet weather flow reduction for these areas.

Fort Erie – Water Strategy

Chris Hamel [28:06-28:35]

So you can see here in the water system recommendations, you can see the linkage on some of the key trunk feeder mains on Gilmore Road, we are tweaking the storage facility strategy by decommissioning the existing facility, providing the new storage facility W-S-001, as well as W-M-001 across. And I will come back to the Stevensville-Douglstown area more so on the wastewater side that you can see there, some work at that reservoir and pumping station to support the overall strategy.

Fort Erie – Wastewater Strategy

Chris Hamel [28:36-30:04]

From a wastewater perspective in the Anger Avenue Fort Erie system, you can see some localized pumping station upgrades and forcemain upgrades to help move the wastewater flows to the Anger Avenue facility. In the Crystal Beach area, it's really localized sewage pumping station upgrades to ensure there's sufficient capacity with that new growth. Now, with respect to Stevensville-Douglstown, this has been a topic that was addressed to a certain degree at a high level in the last master plan but does require further attention because as you can see, as we've increased the planning horizon out to 2051, we are seeing that those lagoons will reach capacity.

What we're highlighting at this time is that there is a need for a focus study for the eventual preferred solution as it's related to these lagoons. That solution is approaching in terms of its timing, but really what we thought made sense is to integrated solution with the better

understanding of the growth planning for this community, how it relates to some of the economic corridor growth that could be happening in the long term, along the QEW corridor, the proximity to Fort Erie and Anger Avenue system versus the proximity to the South Niagara Falls with the new treatment plant. All these issues need to be layered in within a focus study to determine the optimal solution.

Chris Hamel [30:05-30:35]

One thing we are seeing that we do continue to monitor the flows in the Stevensville-Douglstown Lagoon system. So, while there is growth that has continued to happen over the last few years, we're actually seeing even in 2022 with our most recent data that the existing flows aren't necessarily ramping up, but it's definitely something we need to keep tabs on it and that will be an input into this future study that we'll be doing to determine the optimal solution

Port Colborne

Chris Hamel [30:35-31:30]

As we work our way down the Port Colborne, you can see again there is some infill and greenfield growth. In this case, both the water treatment plant and the wastewater treatment plant have sufficient capacity to deal with that growth out of 2051. On the water side, there is a key trunk watermain, which is recommended to increase the flow, provide some security of supply across the canal. There's additional storage that will be required, particularly post 2051. And on the wastewater side, it's really some isolated pumping station upgrades as well as our strategic wet weather flow reduction. What we do need to be aware of with the potential land use in this area, there is some long term growth potential that needs to be factored in as we implement this infrastructure. So, you can see those diamonds on the on the plots to the right that's reflecting what's potentially out post 2051.

Port Colborne – Water Strategy

Chris Hamel [31:31-31:49]

So you can see from the water system, we've got our key trunk working its way basically across Barrick Road, across the canal, which connects back to the existing distribution system and the provision of the new storage facility. And that's essentially the extent of the upgrades there for water.

Port Colborne – Wastewater Strategy

Chris Hamel [31:50-32:14]

On the wastewater, you see a number of the orange triangles which reflect the pumping station upgrades as development happens in those catchment areas. This is a sort of a good indicator of the potential growth, as I was referring to. You can see on these on these boards with the sort of pre 2051 target area, some post 2051 land use and these are really all lands that we need to consider as we plan our infrastructure out.

Welland / Pelham

Chris Hamel [32:15-32:52]

For the Wellington Pelham system, similarly continued infill greenfield growth. We are aware of the treatment plants will require some additional capacity. So the water treatment plant is already underway and we're showing that future plant capacity on the graph there and the wastewater treatment plant as a future consideration will need to be linked in to make sure the capacity is there in place as we monitor the rate of growth that's happening in the system. So for water, we do need some additional storage and trunk water mains on the wastewater, more pumping station forcemain work with strategic wet weather flow reduction.

Welland / Pelham – Water Strategy

Chris Hamel [32:53-33:15]

So you can see here a number of extensions of the water system across, providing resiliency out of the Welland water treatment plants and across the canal and river extending out and connecting to some of the existing trunk water mains in the system, as well as working their way out to the pumping and storage facilities to the northwest there in Font Hill.

Welland / Pelham – Wastewater Strategy

Chris Hamel [33:15-33:38]

On the wastewater side, it's really an extension of some of the key systems, some connectivity on the sewer side, and providing additional sewage pumping station capacity and of course, main work. And you can see particularly out in Fenwick, they need to ensure that we bring those flows back to the existing system and ultimately to the Welland plant.

Wet Weather Flow Reduction Program

Chris Hamel [33:40-34:10]

So as you highlighted earlier, Albert, we can provide a little more detail regarding this wet weather flow reduction program. This is really a strategic process which the Region and the local municipalities have already been fairly active in implementing. There's currently a funded program that is managed by both the Region and the local area municipalities to get some of those projects moving. So to get that water out of the system, it could range from a number of different types of projects.

Chris Hamel [34:11-34:33]

So firstly, there's a flow monitoring and hydraulic analysis: the ability to target where we believe some of these higher flows are within the system and it's important to have flow monitoring before so we know where the problem is and after the implementation of the solution so we can see the benefit that's been derived.

Chris Hamel [34:34-35:34]

It's important to do further testing so there can be inspections, there could be condition assessments. You might see this smoke and dye testing out at the facility to make sure we

understand where it's going, because a lot of things that contribute to these wet weather flows are cross connections. Basically, pipes that are going in the wrong direction or are being brought in from certain flows that should be staying in the stormwater versus the separated. Which ties into our ability to consider sewer separation, or are we seeing leakage in the infrastructure where we're getting groundwater into the pipes or the manholes. So, there could be sewer rehabilitation, there could be just infrastructure upgrades. So, do we need to twin areas with new sewers? And then there could be some work related to the private side as well as the public side. So is there an opportunity to disconnect roof leaders or elements such as that and ensure that some pumps are working and connected properly out through the system? So there's a wide range of solutions that get involved in wet weather flow reduction. What we are seeing is that each area is going to be unique in what needs to be implemented.

Chris Hamel [35:34-36:30]

So we're not anticipating that, you know, one size fits all, that it's going to be the same solution in each pocket. But there's definitely been some priority areas done through our modeling to date that highlights there's an opportunity to get these flows out of the system. Our thoughts are if we can get the removal of the wet weather flows as much as possible, that can free up capacity in the system. And that really provides two sides of benefit. It supports growth. So, we have capacity to feed the new growth, but it also improves the level of service. It's providing an added level of protection on our existing pipes so that we're not seeing the overflows into the environment. It's a really positive approach and is something that many neighboring municipalities are addressing as well, and something that's building on an already relatively successful program with the Region and the openness of policies. And we'd like to see that continue and continue to be supported and invested in.

Water Capital Program

Chris Hamel [36:31-36:44]

So there was a talk of cost and what this program looks like. I'm first going to summarize the overall program, and if there's a specific question on particular pieces of infrastructure, we can come back to that.

Chris Hamel [36:44-38:25]

One of the big pieces and the big changes, obviously, from our last master plan is the fact that we have growth out to year 2051 and not 2041. So with that is going to come new projects is going to come trigger for capacity at facilities that we didn't previously have before 2041. We saw that there is a significant impact to our storage requirements. A lot of these Regional transmission mains and the looping resiliency and connectivity that we needed across our water system. In many cases projects that hadn't been built yet, as you can appreciate with inflation and cost indexing that's happening out in our marketplace, we needed to update our cost estimates for some of the existing or previously identified projects. And then, of course, there is a number of new projects that were needed up to 2051. So, you can see here the level of investment that's needed at the treatment plants, most of that needed in the near term to support long term growth. Investment out in the pumping stations. Similarly, the storage

facilities, the pipes are staged as the growth comes online. There are a number of other programs that are related to sort of Regional benefits, whether that's required at a facility when you implement new growth projects, those are captured. There is some post period. So it was important to identify the level of investment that we think is sitting outside just at the 2051 mark. And then there's going to be additional studies such as the future master plans that would be required throughout the period out to 2051. So with that, our total program that we're flagging from a growth perspective is just over 800 million for the water system itself.

Chris Hamel [38:25-38:30]

I see your hand up Albert, but maybe I'll just cover wastewater first and then we'll address your question if we could.

Wastewater Capital Program

Chris Hamel [38:30-40:11]

So similarly, when we are looking at the wastewater program out to 2051, we did see the opportunity and the need to increase the capital requirements around the wet weather program. When you do implement new projects, particularly in existing urban areas, there's some region wide projects that need to go along with that. So ensuring that there's sufficient odor control on the wastewater side, the impacts to the overall ECAs, we've got flow monitoring and data collection to ensure that we're seeing the benefits that we're expecting with the implementation. We were seeing significant increase in costs related to the South Niagara Falls program, the plant itself as well as some of the new trunk sewers that we were able to connect to the south. And similarly, we saw some increase in cost estimates from previously identified project as well as the new infrastructure out to 2051. So you can see here that the wastewater treatment plant, there is a level of staging of those upgrades over the next 20 years. Similarly, the wastewater pumping stations, the linear program focused within the next 20 years, the wet weather program. You can see the level of investment that we're proposing to 2051. And again, the other projects such as the odor control, flow monitoring and other implementation and then the studies as well. So the wastewater program is a larger program, partly triggered from the capacity required out to 2051, but it's almost a \$1.7 billion program, which is relatively significant.

Chris Hamel [40:11-]

I will pause here. [REDACTED] did you want to provide a comment?

[REDACTED] [40:35]

Just a question about the values listed. Are those in 2023 dollars?

Chris Hamel [40:37]

That's correct. Those are in current dollars.

[REDACTED] [40:35]

Okay. And it may be helpful on your display there to state that somewhere.

Chris Hamel [40:11]

Oh, the current year dollars. Yeah, that's a fair statement. Thanks, [REDACTED]

[REDACTED] [40:55]

Thank you. Okay.

Integrated Program with Sustainability Initiatives

Chris Hamel [41:02-43:02]

Okay. So that is the focus of the growth related program. One thing we wanted to highlight as we work through this information is what's called the sustainability or state of good repair program. And that's really the focus that's needed on the existing pipes and pumping stations and facilities that are out there because it's essential that that existing infrastructure is maintained with good condition and continues to perform for us to be able to expand, to add on our new infrastructure. So, we need the existing systems to be working and to be in a state of good repair. The Region has continued to evolve in its level of detail to understand impact of what that sustainability program needs to look like. And in many cases, which is common to a lot of municipalities across Ontario and across Canada, is that need is usually fairly significant and fairly imminent. And it's really a balancing of financing and delivery to be able to tackle that level of program. What we were able to do is have a look at the sustainability program, some of the intent of the Region and what they were hoping to invest it. When we want to ensure that we eliminated any duplicate projects, if there was an opportunity to align our growth related work with sustainability, work to bring efficiency to the program we did that. And if there is alignment around the timing...so we didn't want to have happen is that we recommend a project at a facility and then three or four years later they come back with sustainability upgrades. It was really a good process of trying to align overall capital that gets delivered from the Region's perspective. But you can see at the long term and particularity, this is this is what was been highlighted as a needs-based, on the needs in the next ten years under that sustainability program can be greater than \$1.5 billion on itself. So again, this is something that needs to be work within the financing side to see what can be funded of that \$1.5 billion and what can be coordinated with our growth related works.

Ilija Stetic [43:03-43:20]

Chris, sorry. Just to let you know, we have another raised hand from [REDACTED] and he had quite a few questions earlier. So I'm just wondering if he has some sense of urgency or raising his hand.

Chris Hamel [43:21-43:23]

Thanks Ilija. Go ahead, [REDACTED]

[REDACTED] [43:24-43:32]

Thanks so much. I just wanted to ask those questions that I put into the chat, some of them. So whenever it's appropriate, I'd like to do that.

Chris Hamel [43:35-43:45]

That'll be great, I've got about a handful of slides, [REDACTED] if we could work through it and then we've got a lot of time to work through all those questions and we can go back to slides as necessary.

Key Considerations**Chris Hamel [43:45-44:35]**

So just a few things we wanted to highlight around the program itself. So as I was highlighting, particularly with the sustainability upgrades, it's important that we take into account and consider that these strategies are based on maintaining the appropriate level of service throughout the system. So level of service, which means pressure on the water side, appropriate flows and velocities in the pipe on the wastewater side, understanding what level of capacity needs to be pumping and storage. So that was taken into consideration as we develop these strategies, again, that sustainability side, there's going to be investment needed not just for the growth program but on the existing system. And then that investment come in the way of funding the operations, the maintenance. But let's not forget staffing and other resources that's required to deliver these large programs.

Chris Hamel [44:36-45:54]

So with growth related project comes resourcing requirements. So additional staff, the content construction industry, the consulting industry to help to deliver that. The one big piece that we think that when we talk about those groups is we see the development community as a partner and I think it's really important for them to similarly commit to that level of service. So we need these new developments to be built in such a way that the pipes are performing, that we're minimizing external flows into our system, that those construction practices need to help support and reduce the capacity impacts on our systems. I think it's important to note, as I highlighted earlier, that the master plan is a high level study. So in many cases there's future studies that are required and that can refine the recommendations. So that may tweak the alignment of certain pipes and may sort of tweak the capacity needed as more detail is reviewed, say, for pumping station or even a storage facilities. And in some cases, we need to meet the larger requirements of a more detailed class EA study. And in some cases, some of those are underway and or some will need to be completed as part of the upgrade. So what we have done and in the detail that you would see under the master plan is we've flagged with projects, require more study before they move forward into detailed design and construction.

Chris Hamel [45:55-47:28]

And then as I mentioned, as we talk about expanding into some of the greenfield areas or urban areas, continue to grow. So the development of the servicing strategies that's going to require thoughtful coordination with the local municipalities to ensure that the local servicing and the local infrastructure is there and in place coordinated with our infrastructure to help support servicing to those areas. And in some cases when we talk about the local strategies that could include smaller local wastewater pumping stations that may not show up on our maps at a regional level. And there was some discussion around the you know, are these current dollars

and yes, they are current dollars. So but we have to remember that that cost estimating is done at a conceptual level. So in while we do our best to understand the location of the infrastructure, we do have a good feel for some of the construction impacts that would be facing deliver and implement this. We need to understand that it's difficult to have a level of precision in some of those cost estimates at this stage, but we keep doing our best to educate and understand where that sits. So particularly over the recent years, we've seen a lot of fluctuations in project costs so that the markets are a little more volatile, supply chain issues. There's other variables that are contributing to the cost of these projects. So we need to be balancing what those costs may look like in the future, as well as where we think we sit today. So we've used our best available information, but we need to understand that as we move forward, those costs could change.

MSPU Process Overview

Chris Hamel [47:28-48:02]

So just quickly, a recap and overview of the process for the master plan. We did work our way through assessing the existing infrastructure, understanding where we're starting from. That triggered our first PIC in April of 2021. We did then go through baseline modeling where we updated those tools to support our analysis and then really through 2021 and 2022, is the development of our strategies getting a better understanding of those multiple bottom line considerations, the environmental factors that are influencing our decision making.

Chris Hamel [48:02-48:21]

That period also allowed us to coordinate with the development charge process. So we did provide presentation in support of the program that went into the DC's in May of 2022. And then for the last few months we've now been refining those programs and starting into our final documentation.

Chris Hamel [48:22-48:37]

So we're here now in January 2023 with our second and final PIC number two. But right now following the PIC and the comments received, we are looking to work through the final documentation to make the master plan available in April of this year (2023).

Thank You for Participating – Please Stay Engaged

Chris Hamel [48:38-49:14]

So with that, what's important as we come out of this PIC, is that we continue to hear from you. So not just the Q&A today, but if there's an opportunity to provide feedback through the process, it's appreciated. All this material, the recording, the presentation itself and supporting materials will be available on the website itself. We are looking for feedback from this PIC by February 2 **(Deadline to submit comment and feedback has been extended to February 6)**. And then if you do wish more detailed information, you can make, you're on our contact list so you get some different study notifications. And of course you can always contact Ilija and his number and email there.

Chris Hamel [49:15-49:49]

So again, we're looking at today's PIC, February-March for validation of our work, our documentation being prepared for April, and then we'll be looking for the public review period for the master plan reported in the April and May period. So that was the information we want to make sure we provide it to the group. So we appreciate that. And then now we can go back to an open Q&A session. And I appreciate, Dave, that you've got your hand up and I think we are working well with the audio, so let's go about it that way and you can jump in first!

Live Q and A Session

■■■■ [49:50-50:45]

Thanks so much. I really appreciate it. And thanks for the comprehensive presentation. One of my questions is about the water storage facility in the Font Hill area. When it was at the PIC before, it appeared that it was going to be built on the protected lands of the Font Hill Kame. I was trying to tell it from the map, and it went by very quickly. I think it's W-S-003. Can you comment on that particular piece as it's going outside of the urban boundary into the greenbelt and on protective lands that are in ANSI (areas of natural and scientific interest). Can you comment on that, or can you someone get back to me about that?

Chris Hamel [50:45-51:01]

Sure. And this is one of those types of projects that's going to require further refinement as that location is finalized. I know there may be some on our project team that might have a little better idea. I don't know if Julien or Phill wanted to jump in on that location.

Julien Bell [51:02-51:40]

So I can provide a comment on that and perhaps Phill for further details. But that that site has gone through a fairly extensive process with the Region. And so what we've carried forward in the master servicing plan is the recommended location and the structure in the Pelham area specifically. And I believe that the EA documentation outlines the opportunities and constraints, the rationale for the selection of that site and any impacts and appropriate mitigation measures to address any of those concerns. And I believe that has been completed.

■■■■ [51:50-52:10]

Okay. Well, if someone can get back to me about that, because I did participate in that EA and I haven't heard anything since that participation and I don't know, 18 months ago? So I'd appreciate that. I know you said Phill's on the line, so maybe some Regional staff can get back to me about that please.

■■■■ [52:10-53:20]

Another question then is that if you can go to the Thorold area, the South Thorold south area. There's a half used wastewater treatment facility in the old Abitibi plant. It's only had half capacity, a use it and it puts the water into the canal. It's clean water. And I wondered if you will look at or have you looked at using that facility instead of using all these forcemains and taking it...I don't know how many kilometers that is to the new Niagara Falls plant. I mean that's a lot of money and a lot of transmission to get that there, when there's a half used piece of

infrastructure, albeit it's private. So I don't know if anybody can comment on that in a piece of infrastructure and that whether you've looked at that or can look at that in this study.

Chris Hamel [53:20-53:22]

I believe Phill might want to jump in on that and I'll provide a few comments.

Phill Lambert [53:22-54:15]

Yeah, sure. And thanks for the question, [REDACTED] Good to hear from you and glad you're participating in this! When we looked at the Abitibi or former Abitibi facility, that wastewater that was an industrial wastewater treatment facility and it did it really hasn't been used that much in a number of years. My understanding of it is that it's not in good shape per se, and that there really hasn't been a detailed assessment necessary to determine if that would be an appropriate use. And then again, as you mentioned, it is private. There's a new owner on that as well. So there really hasn't been much in the way other than an initial sort of review and considered that it wasn't a good option moving forward.

[REDACTED] [54:16-54:38]

Okay. I appreciate that. I was just speaking with somebody last week who said that they work in that facility and it is being used...so, I just ask you to maybe look at that again and compare the costs? And if it needs improvement? Maybe the costs are cheaper than all of this transmission [pipes] through the countryside!

[REDACTED] [54:39-55:00]

With that transmission, is there the idea that the entire area that's now the industrial lands and the Black Horse corner area south in Allanburg...would the idea be that, that would be picked up and now turn those industrial lands would be turned so that wastewater could go into those areas or from those areas?

Chris Hamel [55:01-56:05]

Yes [REDACTED] you are correct. So part of the strategy isn't just simply to have the pipes there. They've actually been located in a way that supports access to the existing lands to service and take those flows to South Niagara Falls. But it's also been located in a way, that WW-SS-007 is located in a way that it supports those future growth areas in the south-west Niagara Falls area. So a lot of that area would need to be service pipes would need to be in place. And a lot of those locations anyways were able to leverage that. But you are correct that that existing for Old South Service area would then be connected to this new infrastructure. Now some of the further southern limits may require some localized pumping to get back up to that alignment, but we were able to figure out sort of the best combination of location alignment and depth to make best use of what can get service. So yes, the growth in that sort Thorold South area will work its way into this infrastructure.

[REDACTED] [56:05-57:00]

Okay, thank you. Two more two more questions. Different areas. The other one I did ask about the Vineland to DeCew. I'm not sure if that's the current path that Vineland gets its water from already, but just as you said in the Thorold area, again, if one puts that it's a new pipe, one puts

it along Fourth Avenue, there's going to be pressure to, pardon the pun, to use that and develop in that area. And that area as I was trying to look at the maps is certainly in the Greenbelt and possibly in or just on the edge of the Niagara Escarpment lands. Any comment on that and how you kind of balance that with environmental protection, which is so important, you know, these days even more than it was 15 years ago?

Chris Hamel [57:00-57:47]

That is a good point, [REDACTED] So in some cases, particularly with the land orientation across the Region and with some of the policy that's out there across the province, you are allowed to bring the infrastructure through some of those protected areas, but not necessarily service in, say, the Greenbelt or a protected countryside even though it's located there. This is Regional infrastructure so it's not intended to have direct connections to those areas. And the alignment is partly needed to take advantage of the existing booster station and to continue those flows out there. So we don't believe that it's a trigger. You're right. Sometimes it's perceived with a pipe in that area that it necessarily means that people right adjacent to it are connected, but that's not the case with this regional infrastructure.

[REDACTED] [57:49-58:20]

Okay. And it'd be interesting to see that, because if we look at other green belt areas, for example, the Grimsby area that was just expanded by the provincial government into the Greenbelt, one of their excuses was, well, the pipes are right here. So, I think it's something to seriously consider. And maybe it's something for Regional council to consider that pipe and is there a different way to do it? So, thank you for that.

[REDACTED] [58:21-59:24]

And then the final is the whole Smithville costs. I had asked it and you alluded to it earlier, the costs of pumping the water from a much lower area, Lake Ontario, up to Smithville in this new growth area, and then taking all the effluent from that area and bringing it back down the escarpment. Did you ever look at wells? I know you started the entire process Chris. Just if you can comment on that and whether you looked at wells as a possibility for the full area and what are the capital costs of all of this? In the in the Smithville area, in particular, with those thousand acres that were added by Regional Council to expand the urban boundary into agricultural lands. Thank you.

Chris Hamel [59:24-01:00:00]

So just to wrap that up, and there's no question that, you know, a service area of that size is significant enough and to have a groundwater supply and capacity sufficient to take us long term into 2051 and beyond, there is some limitation with that availability. So, the focus was we've got an existing lake-based system or already there. We're trying to expand upon that. And it was felt that this was the most secure and sustainable long term solution. What we can do, [REDACTED] is I know we have a few follow up items so we can provide the capital cost estimates for those long range projects.

Ilija Stetic [01:00:00-01:00:24]

We have one more raised hand from [REDACTED]

[REDACTED] [01:00:24-01:00:58]

Good evening, gentlemen. I have a couple of things that I noticed...Baker Road: Is there sufficient land at the Baker Road plant to handle the increase in sewage coming from West Grimsby? Plus the development in Beamsville and Vineland? Are we looking at a three or four story plant because as I recall, the site is right full at the moment.

Chris Hamel [01:00:58-01:01:24]

No, you're correct on that. It is a fairly constrained site, but it is something that working with the region staff and, some of the site planning, there is an opportunity to achieve that capacity. There's one thing we have been seeing is some efficiency in the technology to support additional capacity within existing footprint. But this isn't one of those cases where, you know, that detailed site plan will need to be prepared as they start planning the additional capacity of that facility.

[REDACTED] [01:01:24-01:04:20]

And this is something that gets me to I think do see you've got the Lake Street pumping station ready for some major work, too, because that is that picks up all of west, basically the old town of Grimsby, also West Grimsby, including what was a Biggar Lagoon. I have no difficulty with that. But I'm wondering, with what's going on, are we getting to the point where we have to start thinking of another plant maybe to serve Lincoln like Beamsville, Lincoln, and Jordan Station?

And I realize that we've got this big, huge area coming in Smithville as part of the urban boundary expansion that's being proposed. They just got finished redoing the forcemain and water main from Grimsby to Smithville. And I think that's probably within the last ten years. And yeah, another 30 years maybe it's going to have to be rebuilt again. That's, that's something that'll come out. And I think you're probably right on that one.

The other thing that that gets me...the majority of the trunk systems water and sewer the region currently owned were probably constructed in the mid-sixties to the mid-seventies, so it makes them about 50 years old. Are a lot of these facilities, existing facilities getting to the end of their life cycle? It doesn't matter, especially I'm looking at St Catherine's at the Port Dalhousie / Port Weller trunk, and I'm looking there's a huge growth area being proposed around the Glendale area...will they still be taking sewage from the Glendale area through the Queeston siphon? At Homer Bridge? And is that going to have that growth area going to have a very large impact on the on the Port Weller Trunk? Just a few questions I have...I've been keeping trying to keep track of what's been going on for the past 20 years.

These are the few questions I have and one more question: when we are designing new facilities, are we looking strictly at the planning horizon 2051? Are we looking for these larger structures to be in operation for at least 100 years? And third quest part of this, when we're building new storage facilities in the water system, are we designing these facilities about as balancing storage facilities or are they going to be balancing storage and fire flow? And that's

that those are some of my questions. And it's more on the design rather than actually what you're proposing as far as pipelines.

Chris Hamel [01:04:20-01:06:03]

I appreciate that, [REDACTED] So I think we'll I'll answer as best I can a number of those and we'll move on to the next group. But you highlighted a number of points that I tried to bring into the presentation. So you're correct. We're talking about long life cycle infrastructure. You talked about the age of the existing system, and that's why we felt it was important to highlight that state of good repair and sustain a sustainability program. So when I talked about that extra \$1.5 billion need that's sitting there to ensure that the existing facilities could maintain and meet the needs to connect to. So, the region is very much aware of that and we're coordinating both plans, which is the growth related as well as the existing system investment to make sure this plan works.

I did highlight earlier that while this is a 2051 master plan, we're able to look at sort of some long term servicing visioning to see if what impact it could have on the infrastructure. So you're right, we're trying to size and plan for works that are going to take us beyond 2051. So strategically where it's appropriate, what we do in the development charge environment is if we do oversize infrastructure, that's going to have capacity beyond 2051. We do call that out of by-law over sizing. So that'll get funded by the future growth. So all those elements that you highlight there are taken into consideration as we plan our master plan now. So potential impacts, the future sizing, not just sizing for 2051, where is it appropriate to make something bigger versus what might get twinned or what have you in the future, so all of those are layered in to our strategies.

Chris Hamel [01:06:04-01:06:35]

What am I try to do right now is address a few of the questions that have come in the chat and we appreciate those that have been using that feature. I do see one from [REDACTED] around the connection timing for the Chippawa, that trunk sewer that's coming down to the wastewater treatment plant. That will need to be a project that's coordinated with the region as well as the local municipality. Julien, I don't have the table in front of me or Jody. You guys have that potential timing handy?

Julien Bell [01:06:35-01:07:04]

So the provisional timing right now is in the 2031 to 2041 timeframe. It's somewhat tied to the timing and magnitude and speed of growth in the local Chippawa area, as well as timing of the Southside low-lift pump station and when its capacity gets utilized or in need of major upgrades. But it's currently planned for the 2031 to 2041 time.

Chris Hamel [01:07:04-01:07:41]

All right. Thank you. I see a question from [REDACTED] around connection to the trunk water main that's going up the road. So I think I addressed that comment around the ability to connect directly to regional infrastructure. However, we'll make note of your comment, [REDACTED] and maybe that's something we could follow up with to get a better understanding your location and how the local infrastructure might be able to support your property moving forward. So that's just

something that we need to look into, with a little more detail and we can provide a response to you through this process.

Julien Bell [01:07:41-01:08:05]

I'd maybe just add to that, Chris, is that for that watermain, we did flag the need to complete an environmental assessment to confirm the future alignment of the watermain. So the alignment shown may not be the ultimate alignment and there will certainly be opportunity to have that input review through the EA process.

Phill Lambert [01:08:06-01:08:55]

Yeah. And then if I could just add a comment about that we heard earlier, this is really a master servicing plan for urban areas where urban services are planned. So if you're outside the urban area, expectation is that you're going to exist on rural services or systems. Well, and then the stewards, private septic systems and there's a whole bunch of policy requirements. You know, the Greenbelt was one of the ones mentioned. But lastly, anything to do with truck filling station, that's really a local municipal responsibility. So the town of Grimsby would have to be the best place to start about any future truck filling station for water. Thank you.

Chris Hamel [01:08:55-01:10:10]

Thank you, Phill. So, [REDACTED] again, I appreciate the comments. And we will get back to you around some specifics. I do see another comment now regarding the weather programs, particularly in the Port Colborne area and the concern that they haven't been moving forward. There's no question that this is something that we actively are trying to pursue and enhance on a go forward basis. So, there's been really good communication through the master servicing plan with Region and the local municipalities to try to identify these priority areas and ensure that the attention is placed and that those programs start moving forward. And that's something that needs to happen in coordination with the local municipalities. So, it's both the region making it a priority and the local making it a priority and ensuring we get the right projects in there. So we appreciate you highlighting this as a concern, and I think it's a good takeaway to ensure that that gets addressed moving forward. It's probably the best I can say at this time, but there's no question that that's the intent here through these master plans is really to get some action on these wet weather flow areas.

Ilija Stetic [01:10:10-01:10:51]

So if I may, we need to keep in mind that this is a two-tier system. And basically most of the wet weather reduction relies on the municipal side and what the region tries to do is to help local area municipalities to deal with those problems. The initiation of the project and the municipality is up to them entirely. So the region tries to help out at a building local municipality and at the same time the region takes care of regional trunks and the regional infrastructure as well.

Phill Lambert [01:10:51-01:11:35]

And Chris, if you mind if I just add one more note is that you talked about the wet weather management program and the need for inflow and infiltration removal. And one of the projects for Port Colborne is actually jumping into now in partnership with the region is a pollution prevention control plan that's really the focus of, you know, looking at your infrastructure and

finding out where your inflow and infiltration is coming from and coming up with the best way to deal with these projects. So that is a project that's going to be initiated very soon and so there'll be more on that front.

Ilija Stetic [01:11:35-01:12:15]

And the wet weather management, the issues will be present constantly so they will not go away. So 30 or 60 years, 100 years after this, they will be present. So the water migrates. So one hole being blocked from extraneous flows will most likely help the other hole down the road. So it's a constant program and the region and the local area municipalities are dealing with inflow and infiltration (I&I) issues all the time.

Chris Hamel [01:12:15-01:13:47]

I think we're all highlighting the importance of that component of our program moving forward. So thanks for that Ron. There's another question around the inflation percentage or indexing that's being used to project the future construction costs. One thing that's important to note is our master plan, to a certain degree, stops at the existing or current dollars. So, our intent is that we need to make sure we're presenting what we believe these projects would cost to construct today. What we do then is we then work with the Region team in the finance department, takes premier dollars and projects that out into the future. So, the idea is exactly what is that plant is going to cost in 2030 or even beyond. What they do look at is historical construction and price indexing. It's not just simply based on what's happening last year, but it's looking at the rolling averages year over year, back five, ten plus years. So that's a responsibility for the Region finance to undertake. I can say that I know some recent indexing that's been done in Niagara as well as other municipalities is using 4% or even greater. And in some cases you do have to understand that it's not just about next year, but it's about what's an appropriate rate to be using 10, 20 and 30 years moving forward. So it's not always as high as some might expect it to be. But again, that's something that the Region finance team is well in-tuned to address.

Chris Hamel [01:13:47-01:13:56]

So then I think, [REDACTED] we have talked to and we will have some follow up with you. Oh, I think Phill wants to jump in again in there.

Phill Lambert [01:13:56-01:14:18]

Sorry, yeah, just [REDACTED] on the one for 226 and 228 Main Street. We have been working with your consultant on this one and I know transportation has been providing some updates. So you know, this is about stormwater and the regional road project on that. So we'll continue to provide updates as it becomes available.

Chris Hamel [01:14:18-01:15:00]

Thanks Phill. So I'm not seeing any more in the Q&A at this time. So I see, Albert, you have your hand up again. We'll give you an opportunity to have the talk.

[technical difficulties]

██████ [01:15:15-01:15:57]

Just a follow up on comments about the age of some of the regional facilities and infrastructure...the Welland water plant is rather interesting and that the pumping station (high lift and low lift) and the original fillers that are still in use with the mixing and settling basins and so on are now 100 years old or older so...that's what you keep building on, and I'm not sure that's a that's a really good idea. I think that was your only comment I, I had at this moment.

Chris Hamel [01:15:57-01:16:50]

That's great, I appreciate that. And, and you're absolutely right that it's a it's a constant review of the existing infrastructure and ensuring that there is a program in place that, you know, is there a functional service life in our facilities to continue to add capacity in a lot of cases when it's combined with the sustainability and state of good repair, if we're providing additional capacity the opportunity then to be able to rehab, some of that existing facility is needed to support our program. So we have taken a conscious effort, but it'll be a continual moving forward to align those programs and ensure that, you know, to your point is, is it worth moving it? Is it worth staying where it is and what level of investment is needed to keep it operating, to support our growth capacity.

Closing

Chris Hamel [01:16:51-01:17:15]

So with that, I appreciate how this has gone. I think it actually worked well. Normally we keep it to the Q&A section, but I think we were able to facilitate some of the direct comments, questions and answers through the audio. So with that, we're very thankful. So I'll just sort of bring us back to the presentation again to remind everyone of the process.

Chris Hamel [01:17:15-01:18:20]

So again, this, this recording will be made available on the project website along with the PowerPoint slides. We are looking for additional feedback between now and February 2nd **(Deadline to submit comment and feedback has been extended to February 6)**. For those where we made a commitment for follow up, we will do so. You can always reach out to Ilija to ensure that your contact information is available for us so that we can get in touch and provide some of these. But there was insightful comments. It was greatly appreciated, and it always helps us as we develop these long term plans for this type of local involvement and feedback. So, it's greatly appreciated! So, before I pass it back to Phill to just say some final thank you, I just wanted to say thank you on behalf of the Region and the GM BluePlan Project team.

This was good to get as part of PIC number 2. We look forward to dealing with the comments. And then of course, this will be integrated into our documentation and that will be available for your review in the coming months. So with that, thank you. And maybe a last word from Phill.

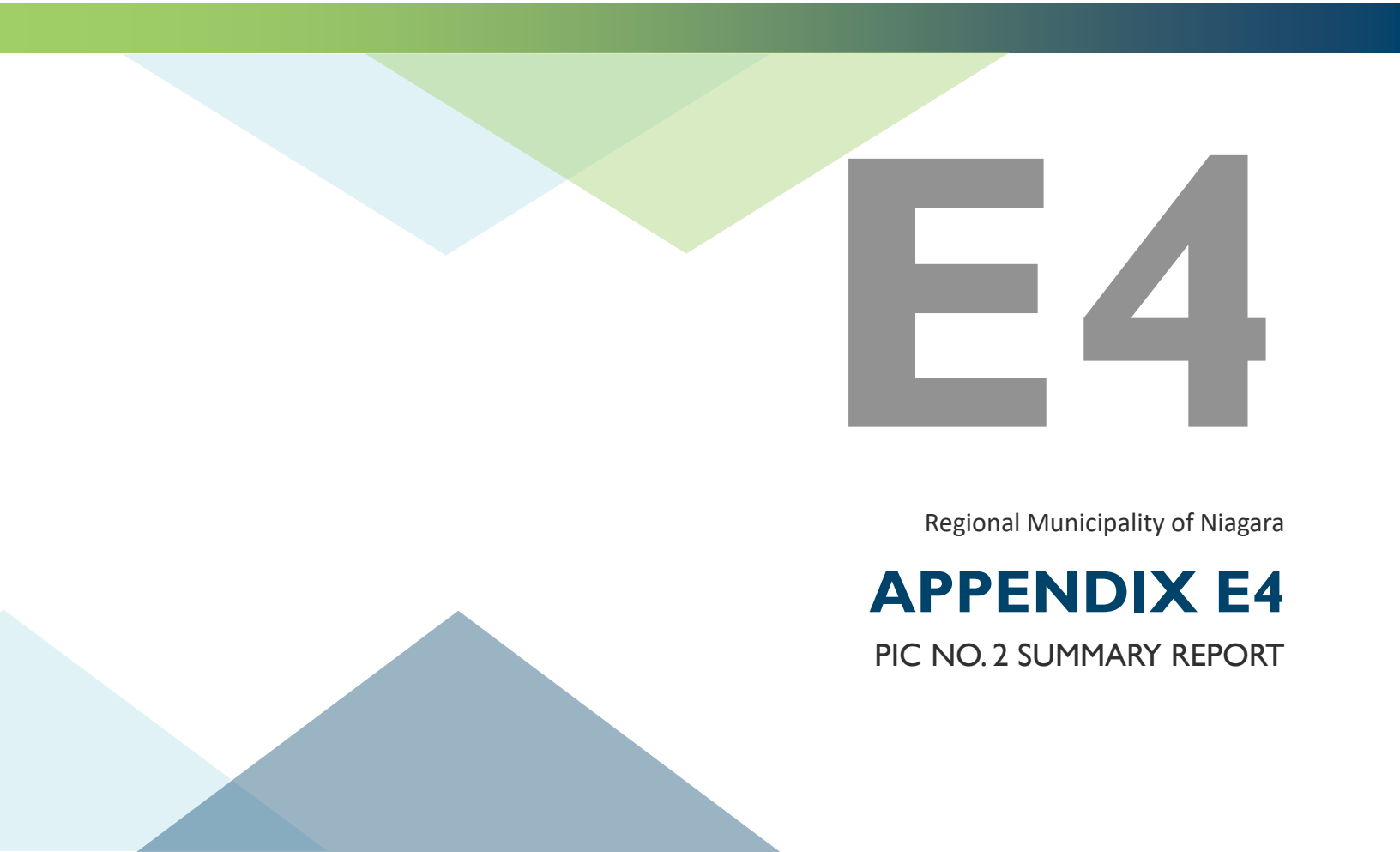
Phill Lambert [01:18:22-01:18:50]

Yes. Thank you, everyone, for joining us today. We appreciate all your questions. As Chris mentioned, it's time to provide other questions as you have and are intended to have the report provided in April, and that that's where you're going to get really the meat and potatoes of that in

a little bit more detail for you to review. And with that, I'd like to say thank you again for all of your participation and your engagement and have a wonderful night.

Chris Hamel[01:18:50-01:18:55]

Great. Thanks. So with that, I will close the meeting and thank you to everybody, and good night!

The page features several large, overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background. A horizontal bar in green and dark blue spans the width of the page above the 'E4' text.

E4

Regional Municipality of Niagara

APPENDIX E4

PIC NO.2 SUMMARY REPORT

2021 Water and Wastewater Master Servicing Plan Update

Public Information Center No.2 – Comments Received

A live public webinar presentation was held on the evening of Jan 18, 2023 from 6 to 7:30 p.m. via Zoom. Following the live webinar event, Public Information Centre (PIC) No. 2 materials were posted on the project website for public review to provide comments to the project team by February 6, 2023. These materials will remain posted on the Master Servicing Plan Update project website:

- Live Webinar Recorded Video: <https://www.youtube.com/watch?v=32DE9mlgN2s>
- Live Webinar Transcript: <https://www.niagararegion.ca/projects/www-master-servicing-plan/pdf/pic2-presentation.pdf>
- PIC No. 2 Display Boards: <https://www.niagararegion.ca/projects/www-master-servicing-plan/pdf/pic2-display-boards.pdf>

There were 34 attendees at the live webinar event. Following the live webinar, the materials remained open for public review for a 2-week period. During this time, the video received 40 views. Emails were received from interested stakeholders and comments were provided to support the Master Servicing Plan Update evaluation process. Below is a summary of emails and commentary that were provided:

- Received confirmation of review agency contacts;
- Interested residents signed-up to receive future project notices;
- Confirmed that values presented are in current dollars;

The following outlines a list of summarized questions and comments that were provided during the live webinar event and via correspondence received during the 2-week comment period to support the Master Servicing Plan Update.

Live Webinar Question #1

Author: [REDACTED]

I submit that the Region should obtain a site, preferably on the west side of the active Welland Canal, for the location of a future relocation of the Welland potable Water Treatment Plant. The location of the current plant is the worst that can be imagined because the site is not large enough for future expansions, and every drop of water discharged from the plant to the distribution system must cross either the Welland River or the Recreational Canal, a very insecure and vulnerable situation.

Response: The project team acknowledged this comment and will document for consideration in the 2021 MSPU.

Live Webinar Question #2

Author: [REDACTED]

Do you have cost estimates to send water to and get wastewater from Smithville? Also, is it possible to use a well in Smithville, instead of pumping all that water from Ontario (lower) to Smithville (higher)?

Response: Through the 2021 Niagara MSPU, one of the primary guiding principles is to optimize the use of existing infrastructure where possible. Additionally, cost estimates of future water and wastewater infrastructure will be provided in the 2021 MSPU along with a full list of alternatives and evaluation results regarding opportunities and constraints in meeting servicing needs in Smithville.

Live Webinar Question #3

Author: [REDACTED]

It's hard to tell from the maps, but between Vineland and DeCew is the Niagara Escarpment and the Greenbelt. Why are you adding urban services to NEC lands?

Response (provided during live event): The project in question [W-M-016] is a preliminary alignment for watermain twinning. This will be to address security of supply to Vineland from St. Catharines. No additional services or distribution lines will be connected to this as it is a regional watermain.

Live Webinar Question #4

Author: [REDACTED]

What is the time frame for connection of Chippawa with the new WWTP?

Response (provided during live event): The provisional timing right now is in the 2031 to 2041 timeframe. Timing is relevant to the magnitude and speed of growth in the local Chippawa area, as well as timing of the Southside low-lift pump station and when its capacity gets utilized or in need of major upgrades.

Live Webinar Question #5

Author: [REDACTED]

There's a half-used water treatment facility at the old Abitibi plant...It's still functioning at half-capacity. Can you look at using that instead of transporting it 30 KM to the new Niagara Falls plant?

Response (provided during live event): The former Abitibi facility was an industrial wastewater treatment facility. It really hasn't been used that much in a number of years. The project team's understanding of it is that it's not in good shape and that a detailed assessment has yet to be completed to determine if that would be an appropriate use. Additionally, it is private with a new owner as well. The project team reached a conclusion that it was not an appropriate option moving forward.

Live Webinar Question #6

Author: [REDACTED]

What is WS-003 in Fonthill? That appears to be on the protected Fonthill Kame. Can you comment on that particular piece as it's going outside of the urban boundary into the greenbelt and on protective lands that are in ANSI (areas of natural and scientific interest).

Response (provided during live event): That site has gone through a fairly extensive process with the Region, and what was carried forward in the 2021 MSPU is the recommended location and the structure in the Pelham area. The EA documentation outlines the opportunities and constraints, the rationale for the selection of that site and any impacts and appropriate mitigation measures to address any of those concerns. Project information can be found:

<https://www.niagararegion.ca/projects/pelham-elevated-tank/>

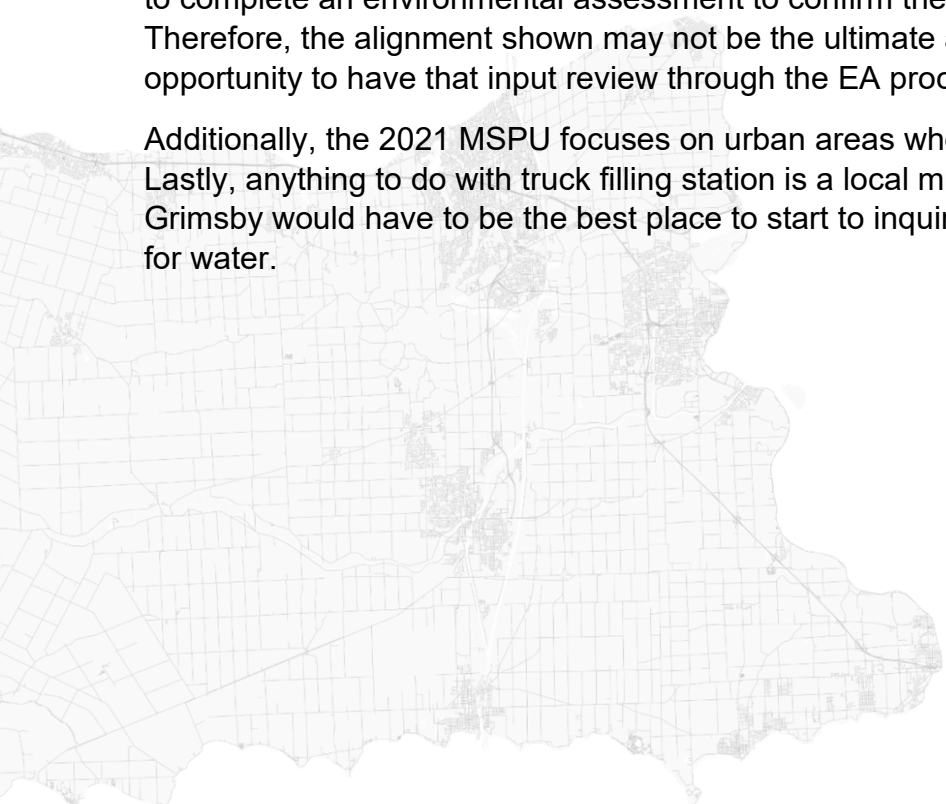
Live Webinar Question #7

Author: [REDACTED]

In Grimsby on the Mountain, I see the watermain will be going up Church Rd. to Elmtree Rd. We own property on [REDACTED] will we be able to connect to it? Also presently all residents on Grimsby Mountain depend on trucking water up Mountain Rd. Is there any plans to add a truck filling station so the trucks don't have to make the dangerous repetitive trip up the hill?

Response (provided during live event): For this watermain, the project team did flag the need to complete an environmental assessment to confirm the future alignment of the watermain. Therefore, the alignment shown may not be the ultimate alignment and there will certainly be opportunity to have that input review through the EA process.

Additionally, the 2021 MSPU focuses on urban areas where urban services are planned. Lastly, anything to do with truck filling station is a local municipal responsibility, the town of Grimsby would have to be the best place to start to inquire about any future truck filling station for water.



Live Webinar Question #8

Author: [REDACTED]

The Region adopted the Port Colborne Infrastructure Needs Study 30 years ago identifying wet weather flow as a priority. Subsequent master plans have said the same thing. Virtually nothing has been done. In fact the problem has been exacerbated by continuing to approve developments and increasing upstream pumping stations in Omer Street pumping station catchment area. Many times basements have been flooded with sewage. How will this plan be different than previous plans that have done nothing?

Response (provided during live event): Thank you for bringing up your concerns with the project team and taking the time to participate in this PIC event. We would like to note that through this MSP update, there has been good communication between the Region and the local municipalities to try to identify these priority areas and ensure that the attention is placed and that those programs.

Additionally, we need to keep in mind that this is a two-tier system, where most of the wet weather reduction relies on the municipal side and what the region tries to do is to help local area municipalities to deal with those problems by taking care of regional trunks and other regional infrastructure. One of the projects for Port Colborne that's currently underway now in partnership with the region is a pollution prevention control plan (PPCP) that's really the focus of investigating infrastructure and finding out where inflow and infiltration (regarding the flooding issue that was noted) is coming from and coming up with the best way to deal with these issues.

Live Webinar Question #9

Author: [REDACTED]

What annual inflation % is being using to project future construction costs?

Response (provided during live event): The 2021 Niagara MSPU, to a certain degree, stops at the existing or current dollars. The intent is to ensure we're presenting what we believe these projects would cost to construct today. Following this, the project team will work with the Region's finance department to project that cost out into the future.

Live Webinar Question #10

Author: [REDACTED]

We have an approved development [REDACTED]. We have started into our site plan with the Town of Grimsby and learned that there is a section of Storm Water pipe missing between Baker Road and Dorchester Dr. We understand that this pipe needs to be installed for our project to continue. As this is a Regional Road #Hwy. 81. Do you have a timeline for the completion of this?

Response (provided during live event): The Region has been working with another consultant on this. That specific project is in regard to stormwater and the regional road. Updates will be provided as it becomes available.

Live Webinar Question #11

Author: [REDACTED]

There is a new Fire Station on top of the mountain on Mountain Rd. Will there be anyway for them to get a water supply?

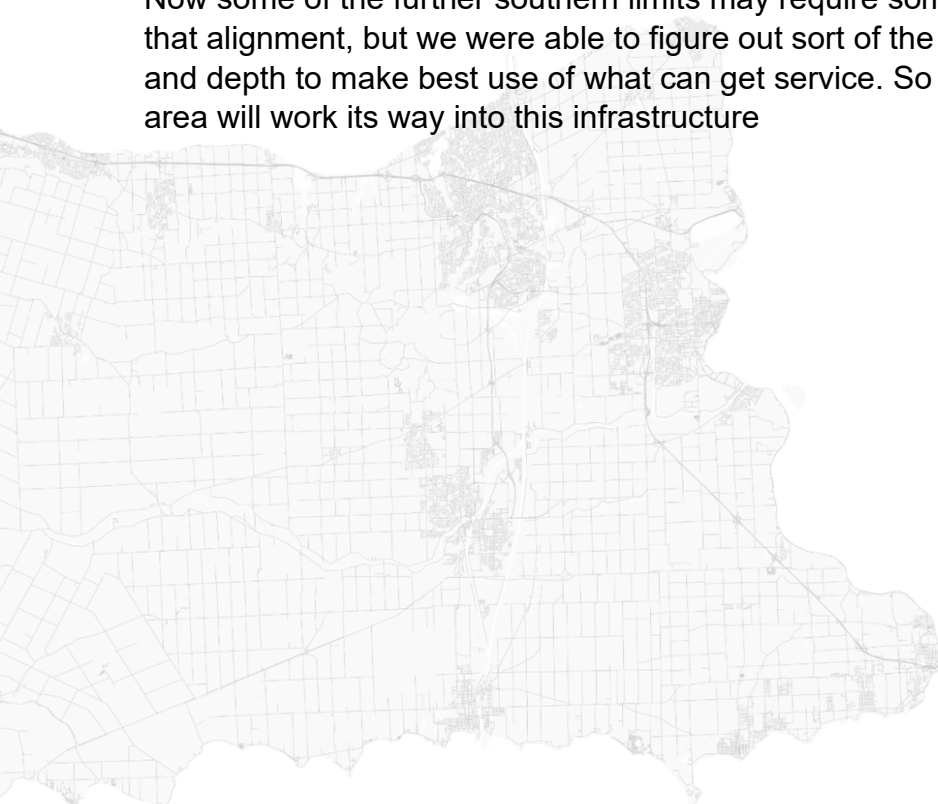
Response: Through the 2021 MSPU, a list of servicing principles was developed to provide guidance and direction to ensure appropriate system pressures and fire flow. Region and Local Municipalities will work together to ensure coordination of infrastructure of water supply.

Live Webinar Question #12

Author: [REDACTED]

With that transmission [WW-SS-007], is there the idea that the entire area that's now the industrial lands and the Black Horse corner area south in Allanburg...would the idea be that, that would be picked up and now turn those industrial lands would be turned so that wastewater could go into those areas or from those areas.

Response (provided during live event): The infrastructure has been aligned in a way that supports access to the existing lands to service and take those flows to South Niagara Falls. WW-SS-007 is located in a way that it supports those future growth areas in the south-west Niagara Falls area. So a lot of that area would need to be service pipes would need to be in place. And a lot of those locations anyways were able to leverage that. But you are correct that that existing for Old South Service area would then be connected to this new infrastructure. Now some of the further southern limits may require some localized pumping to get back up to that alignment, but we were able to figure out sort of the best combination of location alignment and depth to make best use of what can get service. So yes, the growth in the Thorold South area will work its way into this infrastructure



Live Webinar Question #13

Author: [REDACTED]

Vineland to DeCew. I'm not sure if that's the current path that Vineland gets its water from already, but just as you said in the Thorold area, again, if one puts that it's a new pipe, one puts it along Fourth Avenue, there's going to be pressure to use that and develop in that area. And that area as I was trying to look at the maps is certainly in the Greenbelt and possibly in or just on the edge of the Niagara Escarpment lands. Any comment on that and how you kind of balance that with environmental protection, which is so important, you know, these days even more than it was 15 years ago.

If we look at other Greenbelt areas, for example, the Grimsby area that was just expanded by the provincial government into the Greenbelt, one of their excuses was, well, the pipes are right here. So, I think it's something to seriously consider. And maybe it's something for Regional council to consider that pipe and is there a different way to do it?

Response (provided during live event): This is a regional infrastructure that is not intended to have direct connections (see response for questions #3). The alignment is necessary to take advantage of the existing booster station and to continue the flows out there. Design of the infrastructure will look at how it can be constructed with a priority on mitigating negative impacts to environmentally sensitive lands within the Greenbelt and Niagara Escarpment. You are right, that sometimes infrastructure such as this can be perceived with a pipe in that area that may lead to the belief that people right adjacent to it are connected, but that's not the case with this regional infrastructure.

Live Webinar Question #14

Author: [REDACTED]

I had asked about costing in Smithville and you alluded to it earlier, the costs of pumping the water from a much lower area, Lake Ontario, up to Smithville in this new growth area, and then taking all the effluent from that area and bringing it back down the escarpment. Did you ever look at wells? I know you started the entire process Chris. Just if you can comment on that and whether you looked at wells as a possibility for the full area and what are the capital costs of all of this? In the in the Smithville area, in particular, with those thousand acres that were added by Regional Council to expand the urban boundary into agricultural lands.

Response (provided during live event): Indeed, a service area of that size is significant enough and to have a groundwater supply and capacity sufficient to take us long term into 2051 and beyond. However, the focus of the 2021 MSPU is to optimize the use of existing infrastructure where possible, and it was felt that this was the most secure and sustainable long-term solution. Cost estimates will be provided (see response to question #2).

Live Webinar Question #15

Author: [REDACTED]

Is there sufficient land at the Baker Road plant to handle the increase in sewage coming from West Grimsby? Plus the development in Beamsville and Vineland? Are we looking at a three or four story plant because as I recall, the site is right full at the moment.

Response (provided during live event): Indeed, it is a fairly constrained site, but it is something that working with the Region staff and, some of the site planning, there is an opportunity to achieve that capacity. There's one thing we have been seeing is some efficiency in the technology to support additional capacity within existing footprint. But this isn't one of those cases where, you know, that detailed site plan will need to be prepared as they start planning the additional capacity of that facility.

Live Webinar Question #16

Author: [REDACTED]

You've got the Lake Street pumping station ready for some major work, too, because that picks up all of west, basically the old town of Grimsby, also West Grimsby, including what was at Biggar Lagoon. I have no difficulty with that. But I'm wondering, with what's going on, are we getting to the point where we have to start thinking of another plant maybe to serve Lincoln like Beamsville, Lincoln, and Jordan Station?

Response: Through the 2021 Niagara MSPU, one of the primary guiding principles is to optimize the use of existing infrastructure where possible. A full list of alternatives and evaluation results are noted in the 2021 Niagara MSPU and will be available for public review.

Live Webinar Question #17

Author: [REDACTED]

The majority of the trunk systems water and sewer the region currently owned were probably constructed in the mid-sixties to the mid-seventies, so it makes them about 50 years old. Are a lot of these facilities, existing facilities getting to the end of their life cycle? It doesn't matter, especially I'm looking at St Catherine's at the Port Dalhousie / Port Weller trunk, and I'm looking there's a huge growth area being proposed around the Glendale area...will they still be taking sewage from the Glendale area through the Queenston siphon? At Homer Bridge? And is that going to have that growth area going to have a very large impact on the on the Port Weller Trunk?

Response (provided during live event): The project team notes the importance in highlighting the Region's state of good repair and sustainability program. With \$1.5 billion invested to ensure that the existing facilities could maintain and meet the needs to connect to. The Region is very much aware of that and we're coordinating both plans, which is the growth related as well as the existing system investment to make sure this plan works.

Live Webinar Question #18

Author: [REDACTED]

When we are designing new facilities, are we looking strictly at the planning horizon 2051? Are we looking for these larger structures to be in operation for at least 100 years? And third question part of this, when we're building new storage facilities in the water system, are we designing these facilities about as balancing storage facilities or are they going to be balancing storage and fire flow?

Response (provided during live event): While this is a 2051 master plan, we're able to look at some long-term servicing visioning to see what impact it could have on the infrastructure. The project team is trying to size and plan for works that are going to take us beyond 2051. Strategically where it's appropriate, infrastructure oversizing can be incorporated to have capacity beyond 2051. All those elements that you highlight there are taken into consideration as we carry out the master plan now. Ultimately, potential impacts, the future sizing, not just sizing for 2051, where is it appropriate to make something bigger versus what might get twinned or what have you in the future—these are all layered in our strategies.



Received Email Correspondence #1

Author: [REDACTED]

According to the slide presented during the meeting (image attached) the Stevensville-Douglastown sewage lagoons are forecast to breach the 80% capacity threshold in 2031 and 90% threshold in 2037. This means the Niagara Region will have (6) years to study and build expanded capacity for those sewage lagoons. Assuming the "worst case" scenario (in terms of time and cost) for expansion of the sewage lagoons capacity will be required (decommission the lagoons and build an on-site mechanical treatment plant), I believe (6) years is not enough time to accomplish the required task. A similar (although smaller) project was undertaken in Niagara-On-The-Lake in 2008 and it took (12) years from start to finish (2008 to 2020).

Response (via email): The Region Project Manager will collect documentation about the NOTL project you are referring to and share with our team for extracting information on the project timing. This will help us in understanding the timing of the upgrades for Stevensville-Douglastown lagoons.

Received Email Correspondence #2

Author: [REDACTED]

First, the Region should postpone the proposed expansions of the water and wastewater facilities to accommodate the suburban expansion in Smithville. The newspaper had these costs at at least \$118M! Now that the new development will not be paying for that new servicing, it doesn't at all make sense that the rest of the Region's taxpayers foot the huge bill for this sprawl -- especially when there is ample capacity in other plants (Port Colborne, Fort Erie, Welland). Let that sit for a while until that development can pay for the extra servicing.

Second, please do not build an urban water tank on the protected lands of the Fonthill Kame. The planning does not allow for you to do it. Yet, you appear to be plowing ahead at building the new tank and overflow pond on lands protected by both the Greenbelt and the Provincial Earth Science ANSI (Area of Natural and Scientific Interest). In fact, you will note from the map, that the Site #3 lands are specifically in the ANSI; please see:

<https://www.niagararegion.ca/living/icp/pdf/Core-Natural-Heritage-Map.pdf>

Protecting the Fonthill Kame from further developments took years and years; please see this Regional report to help understand the Kame's importance: "ICP 62-2013 - Fonthill Kame-Delta ANSI Proposed Boundary, June 20, 2013." It would be a travesty if a water tank to help improve water pressure in the suburban area would encroach on and negatively impact this important geological feature! In fact, it could signal to other developers or property owners (including the quarry) that they can start developing their properties. Finally, the zoning will not allow for the tank. The exemption that allows the golf driving range only allows that or agricultural uses. This urban use is the absolute furthest from an agricultural use.

Response: The project team acknowledged this comment and will document for consideration in the 2021 MSPU. Regarding Fonthill Kame, see answer to question #6.

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F

Regional Municipality of Niagara

APPENDIX F

CONSULTATION RECORDS

Date Received (MM/DD/YYYY)	From	To	Contact Method	Comment	Action	Status
4/8/2021	Niagara MSPU Project Team	Project Study Contact List	Email	- Notice of Study Commencement and Public Information No. 1 notification	No action required.	Complete
4/8/2021	Niagara MSPU Project Team	Ministry of Environment, Conservation and Parks (MECP) - EA Notification West Central Region	Email	- Notice of Study Commencement and Public Information No. 1 notification sent - Response from Joan Del Villar Cuicas was received May 20, 2021 acknowledging the commencement of the project as well as included information regarding Areas of Interest and duty to consult.	- The project team acknowledged the receipt of the documents from MECP. No further action required.	Complete
4/13/2021	Ministry of Municipal Affairs and Housing (MMAH)	Niagara MSPU Project Team	Email	- MMAH acknowledged the receipt of the NOC and Notice of PIC 1. - MMAH provided an alternative contact to include: Helen.Collins@ontario.ca	- Study contact list updated. No further action required.	Complete
4/14/2021	Ministry of Transportation (MTO)	Niagara MSPU Project Team	Email	- MTO acknowledged the receipt of the NOC and Notice of PIC 1. - MTO provided an updated contact to include: Philip.Morse@ontario.ca	- Study contact list updated. No further action required.	Complete
4/14/2021	Transport Canada	Niagara MSPU Project Team	Email	- Transport Canada acknowledged the receipt of the NOC and Notice of PIC 1. - Transport Canada asked to remove Monique Mosseau from list and to send all future correspondences to EnviroOnt@tc.gc.ca	- Study contact list updated. No further action required.	Complete
4/14/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual emailed to request to be added to the project list.	- Study contact list updated. No further action required.	Complete
4/15/2021	Ministry of Natural Resources and Forestry (MNRF)	Niagara MSPU Project Team	Email	- MNRF acknowledged the receipt of the NOC and Notice of PIC 1. - MNRF provided an alternative contact to include: MNRF.Ayl.Planners@ontario.ca	- Study contact list updated. No further action required.	Complete
4/18/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Inquiry received regarding the redistribution of treated wastewater to the vineyards/orchards for irrigation and brought up concerns regarding climate change.	- Response Date: April 19, 2021 Project team acknowledges the comment and provided rationale that it may not be financially feasible due to topographical challenges.	Complete
4/26/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual emailed to request to be added to the project list.	- Study contact list updated. No further action required.	Complete
4/30/2021	Public Interest (Queenston Quarry Reclamation Company represented by MHBC)	Niagara MSPU Project Team	Email	- Response provided as part of PIC no. 1 - Representative for the Queenston Quarry Reclamation Company (QQRC) acknowledged and provided commentary regarding the project initiation and PIC 1 notification.	- Response Date: May 4, 2021 Project team acknowledges the comment and reviewed commentary regarding the QQRC. Details will be reviewed and discussed with the project team.	Complete
5/2/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Email	- Individual emailed comments as part of PIC no. 1 - Requested to be added to the project list. - Requested status of Baker Road Wastewater Treatment Plant site alternatives, capacity concerns, expansion plans, and impacts to nearby residential areas (the Master Servicing Plan Update will look at long-term needs and identify additional upgrades required – this will determine the need for a Class Environmental Assessment/Detailed Design to address capacity concerns, residential impact, and other potential concerns) - Expressed concerns about odour control.	- Response Date: May 4, 2021 Project team acknowledges the comment and will review response and commentary with the project team. Individual as been added to the project list.	Complete
5/4/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual emailed comments as part of PIC no. 1 - Raised concerns of growth and aging infrastructure within the Region.	- Response Date: May 4, 2021 Project team acknowledges the comment and will review response and commentary with the project team.	Complete
5/28/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual expressed concern with the impact of higher density development on the existing infrastructure.	- Response Date: June 1, 2021 Project team acknowledges the comment and will review response and commentary with the project team.	Complete
6/1/2021	Niagara Escarpment Commission (NEC)	Niagara MSPU Project Team	Online Form	- Advised the project team of names and emails to include on the project list.	- Response Date: June 1, 2021 Project team acknowledges the comment and will update contact. No further action required.	Complete
6/1/2022	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual from outside the Niagara Region emailed to request information on the project.	- Study contact list updated. No further action required.	Complete
6/2/2021	Mississauga of the Credit First Nations (Fawn Sault)	Niagara MSPU Project Team	Email	- MCFN provided a letter to confirm the receipt of the NOC and Notice of PIC 1. - MCFN provided an outline of MCFN Rights and Territory along with appropriate DOCA Units for project communications	- Response Date: June 17, 2021 Project information requested by the MCFN was provided via Email in an attached letter from the Project Manager (Ilija Stetic).	Complete
6/9/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Individual emailed to request to be added to the project list.	- Study contact list updated. No further action required.	Complete
6/18/2021	Mississauga of the Credit First Nations (Fawn Sault)	Niagara MSPU Project Team	Email	- MCFN noted to include Megan DeVries for any archaeological and environmental investigations.	- Response Date: June 22, 2021 Project Manager acknowledges the comment. Project Manager responded to include Megan DeVries should the project include archaeological and / or environmental investigations.	Complete
7/13/2021	Public Interest [REDACTED]	Niagara MSPU Project Team	Email	- Individual emailed to request to be added to the project list.	- Study contact list updated. No further action required.	Complete
7/14/2021	MHBCPlan [REDACTED]	Niagara MSPU Project Team	Email	- Representative of MHBC provided commentary regarding the Grimsby Beach Land Use Study and inquired about FSR for reference.	- Response Date: July 14, 2021 Project Manager acknowledge the comment. Updated growth numbers as per the draft 2021 MSPU recommendations were suggested Mr. [REDACTED] to reference in their Functional Servicing Plan.	Complete
1/5/2023	Niagara MSPU Project Team	Project Study Contact List	Email	- Notice of Public Information No. 2 notification	No action required.	Complete
1/6/2023	Metis Nations Lands, Resources and Consultations Branch	Niagara MSPU Project Team	Email	- Metis Nations acknowledges the notification and instructed all consultation notices to continued to be delivered electronically to consultations@metisnation.org	No action required.	Complete
1/6/2023	Mississauga of the Credit First Nations (Fawn Sault)	Niagara MSPU Project Team	Email	- Update contact to Abby.LaForme@mncfn.ca and to copy Mark.LaForme@mncfn.ca	- Study contact list updated, no further action required.	Complete

Date Received (MM/DD/YYYY)	From	To	Contact Method	Comment	Action	Status
1/9/2023	Niagara MSPU Project Team	Local Area Municipalities and Regional Staff	Email	- Notice of Public Information No. 2 notification	No action required.	Complete
1/19/2023	Public Interest [REDACTED]	Niagara MSPU Project Team	Online Form	- Requested when PIC 2 materials will be available for review	- Project team responded that it will be on the project website for review the following day. No further action required.	Complete
1/24/2023	Public Interest [REDACTED]	Niagara MSPU Project Team	Email	- Provided commentary regarding Stevensville-Douglastown capacity constraint.	- Response Date: January 25, 2023 Project Manager acknowledges the NOTL project timing in comparison to Stevensville-Douglastown lagoons.	Complete
1/27/2023	Public Interest [REDACTED]	Niagara MSPU Project Team	Email	- Provided comment regarding the proposed expansions of facilities in Smithville. Resident expressed concern and emphasized the need to protect natural heritage features.	- Project team acknowledges the response as part of PIC No. 2.	Complete
6/1/2023	Niagara MSPU Project Team	Project Study Contact List	Email	- Notice of Study Completion notification	No action required.	Complete

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F I

Regional Municipality of Niagara

APPENDIX FI

INDIGENOUS COMMUNITIES

To: Fawn Sault <Fawn.Sault@mncfn.ca>

Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>; Lambert, Phill <Phill.Lambert@niagararegion.ca>; Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>

Subject: FW: 2021-0403 MCFN Niagara Region Water and Wastewater Masterplan

As promised,

Here is our response to your requested project information attached.

Best Regards,

Ilija

From: Niagara MSPU <niagaramspu@niagararegion.ca>

Sent: Friday, June 11, 2021 10:11 AM

To: Fawn Sault <Fawn.Sault@mncfn.ca>; Niagara MSPU <niagaramspu@niagararegion.ca>

Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>

Subject: RE: 2021-0403 MCFN Niagara Region Water and Wastewater Masterplan

Dear Mr. Sault,

Thank you for your interest in the 2021 Water Wastewater MSPU. Your comments will be shared with the project team, discussed and our response will be sent to you. Also, all project related information is posted on the project web site <https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>

Sincerely,

Ilija Stetic, B.Sc., CET, PMP

Project Manager, Infrastructure Planning & Development Engineering

Planning and Development Services

Niagara Region

www.niagararegion.ca

From: Fawn Sault <Fawn.Sault@mncfn.ca>

Sent: Wednesday, June 2, 2021 2:30 PM

To: Niagara MSPU <niagaramspu@niagararegion.ca>

Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>

Subject: 2021-0403 MCFN Niagara Region Water and Wastewater Masterplan

Dear Ilija,

Please see the attached letter as our response to your Notice of Study Commencement regarding the Niagara Region Water and Wastewater Masterplan.

If you have any questions please feel free to reach out.

Miigwech,

Fawn Sault

Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

The Regional Municipality of Niagara Confidentiality Notice The information contained in this communication including any attachments may be confidential, is intended only for the use of the recipient(s) named above, and may be legally privileged. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, disclosure, or copying of this communication, or any of its contents, is strictly prohibited. If you have received this communication in error, please re-send this communication to the sender and permanently delete the original and any copy of it from your computer system. Thank you.

June 2,2021

VIA EMAIL

Lliga Stetic
Project Manager
Niagara Region
Niagaramspu@niagararegion.ca

Dear Ilija,

RE: MCFN Response to Notice of Study Commencement and Public Information
Centre No. 1 - 2021 Water and Wastewater Master Servicing Plan Update

Confirmation of Receipt

I am writing on behalf of the Mississaugas of the Credit First Nation ("MCFN") to acknowledge that we have received your above named communication, dated April 15,2021 .

Outline of MCFN Rights and Territory

In 1792 , the Crown and MCFN entered into Between the Lakes, No. 3 (1792) regarding the lands in which your project is situated.

The Mississaugas of the Credit First Nation are the descendants of the "River Credit" Mississaugas. The undisputed Territory of the MCFN is defined as a Territory commencing at Long Point on Lake Erie thence eastward along the shore of the Lake to the Niagara River. Then down the River to Lake Ontario, northward along the shore of the Lake to the River Rouge east of Toronto then up that river to the dividing ridges to the head waters of the River Thames then southward to Long Point, the place of the beginning. Our Territory encompasses the lands and waters that were used and occupied by our Ancestors. Territories are usually large tracts of land that reflect the breadth required for seasonal activities and habitation and changes in those movement patterns through time. Through Treaties with the Crown, MCFN agreed to share our Territory with newcomers. However, not all of MCFN's Territory has been dealt with through a Treaty.





With the exception of a small part of the Credit River, our Treaties with the Crown did not deal with the water parts of our Territory. We have not agreed to share any part of our waters with settlers. We formally gave notice to the Crown of this claim in 2016. We note that any lands that have been artificially created on our waters have also not been dealt with by any Treaty.

Like our ancestors before us, we continue to use the lands, waters, and watershed ecosystems within our Territory for a variety of livelihood, harvesting, ceremonial and spiritual purposes. We have always exercised governance functions and stewardship in order to protect our Territory, conserve the fish and wildlife that depend upon it, and ensure its ongoing ability to sustain our people. We assert that our Aboriginal and treaty rights fundamentally entitle us to continue to act as stewards of our Territory, to be involved in decisions that affect it, and to participate in the ongoing, responsible management of the resources it provides.

Duty to Consult and Accommodate

As you will know, the Crown has a constitutional duty to consult and accommodate MCFN in respect of any decisions that might affect its asserted or proven Aboriginal and/or Treaty Rights. We expect that, consistent with the Crown's constitutional duty, no approval should be issued to this project until MCFN has been sufficiently consulted and accommodated. Nothing in this letter shall be construed as to affect our Aboriginal and/or Treaty Rights and hence shall not limit any consultation and accommodation owed to MCFN by the Crown or any proponent, as recognized by section 35 of the Constitution Act, 1982.

MCFN has the right to free and informed consent prior to the approval of any project or any planning decision adversely impacting its Territory and to benefit economically from resource development within its Territory.

MCFN has formed the Department of Consultation and Accommodation ("DOCA") to represent its interests in consultation and accommodation matters. It is DOCA's mandate to ensure that we are directly involved in all planning and development that impacts the integrity of our Territory. In this regard, DOCA will assess and help alleviate impacts on our rights, land claims, and ways of life by building relationships with governments and private sector proponents. We share a mutual interest in ensuring that projects in the Territory are planned, reviewed, and developed in a manner which ensures healthy communities, ecological protection, and sustainable development for present and future generations in the Territory.



DEPARTMENT OF CONSULTATION AND ACCOMMODATION

Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, Ontario N0A 1H0



Phone: (905) 768-4260



MCFN is not opposed to development, but MCFN must to be involved in development decision making. MCFN has a deep connection to its Territory and we have a stewardship responsibility for our land. By engaging with us, a project proponent can learn our perspective on how to care for this land and we can work together to shape the project to mitigate damaging effects to our land and perhaps even work to improve our environment. MCFN is the only party who shall determine whether there are impacts to our Aboriginal and treaty rights.

One of the ways we require proponents to engage with us is in providing transparency during the environmental survey and archaeological assessment process. The best way to accomplish this is by having Field Liaison Representatives (“FLRs”) on location while fieldwork is occurring, who can ensure that the Nation’s special interests and concerns are respected and considered during fieldwork. The cultural and natural resources in question are part of MCFN’s territory and heritage and it is our responsibility to ensure their protection, on behalf of the Nation. MCFN’s stewardship of its territory extends through the life of any development project and beyond.

DOCA Project Registration

DOCA has completed an initial intake review of the project communication you have provided. This file has been assigned DOCA Project 2021-0403 ; please use this number in all future communications.

We respectfully ask you to immediately notify us if there are any changes to the project.

Referral to DOCA Units

Following DOCA’s initial intake review of the project communication, the file has been referred to the following DOCA Units for additional follow-up.

	Unit Identification	Primary Contact	Email Address
✓	Archaeology	Megan DeVries	megan.devries@mncfn.ca
✓	Cultural/Historical	Darin Wybenga	darin.wybenga@mncfn.ca
✓	Environment	Fawn Sault (Temp)	fawn.sault@mncfn.ca
✓	FLR Participation	Megan DeVries	megan.devries@mncfn.ca
	Governance	Mark LaForme	mark.laforme@mncfn.ca
	Economic Development	Director	SED.Director@mncfn.ca

If you have not been contacted by the indicated DOCA Units within fourteen days following receipt of this letter, please let me know.



DEPARTMENT OF CONSULTATION AND ACCOMMODATION

Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, Ontario N0A 1H0



Phone: (905) 768-4260



Request for Missing Information

In order to proceed with our follow-up review, we ask you to ensure that all available information relating to the project has been transmitted to us. We have identified the following general information as missing from your initial project communication:

Outstanding Project Information	
✓	Name of person or body undertaking the action or decision.
✓	Contact information for the person or body undertaking the action or decision.
✓	List of documents pertaining to the proposed action/decision that are available for MCFN to review.
✓	Description of what other information is expected to become available before the proposed action/decision is undertaken.
✓	Deadlines or filing dates pertaining to the action/decision.
✓	The Crown or Municipal review/ approval that is required for the project.
✓	How the proposed action or decision may affect and/or benefit MCFN, its rights and territory.

Closing

We ask that you respond with the above requested information within fourteen days following receipt of this letter. We thank you in advance for your attention to our requirements and we look forward to working with you further to shape the planning for development in our Territory.

Sincerely,



Fawn Sault
Consultation Coordinator
fawn.sault@mncfn.ca



DEPARTMENT OF CONSULTATION AND ACCOMMODATION

Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, Ontario NOA 1H0



Phone: (905) 768-4260



Infrastructure Planning & Engineering
1815 Sir Isaac Brock Way, Thorold, ON L2V 4T7
905-980-6000 Toll-free: 1800-263-7215

Via Email Only

June 17, 2021

Fawn Sault
Mississaugas of the Credit First Nation
4065 Hwy #6,
Hagersville, ON
N0A 1H0

Dear Fawn,

**Re: 2021 Water and Wastewater
Master Servicing Plan Update
Niagara Region**

Thank you for your response regarding Niagara Region's 2021 Water and Wastewater Master Servicing Plan Update. Please find the requested project information below:

1. Name of person or body undertaking the action or decision

The 2021 Water and Wastewater Master Servicing Plan is being undertaken by the Regional Municipality of Niagara. The Niagara Region contact is Ilija Stetic, Project Manager of Infrastructure Planning and Engineering.

2. Contact information for the person or body undertaking the action or decision

For any inquiries related to the 2021 Water and Wastewater Master Servicing Plan Update, please contact the project manager listed below:

Ilija Stetic, B.Sc., CET, PMP
Project Manager, Infrastructure Planning & Engineering
Niagara Region
ilija.stetic@niagararegion.ca
Cell: 289-668-4536

3. List of documents pertaining to the proposed action/decision that are available for MCFN to review

Information will be shared during key project milestones. This includes three (3) separate Public Information Centres (PICs) and a 30-day period to review the final report.

Infrastructure Planning & Engineering
1815 Sir Isaac Brock Way, Thorold, ON L2V 4T7
905-980-6000 Toll-free: 1800-263-7215

The following information will be available for review:

- **PIC 1 (April 21-May 5, 2021):** provide project overview and workplan, background information, project objectives, and the project's problem and opportunity statement. Please note this information is currently available on the project website.
- **PIC 2 (Early Fall 2021):** present population and employment growth scenarios, policies, and alternatives related to water and wastewater servicing strategies.
- **PIC 3 (Late Fall/Early Winter 2021):** present evaluation results and the established servicing strategies, and preliminary design concepts for the preferred water and wastewater servicing strategies.
- **Final Report (Early 2022):** provide complete documentation of the Master Plan process including: Volume 1 - Executive Summary, Volume 2 - Planning Context, Volume 3 - Water Servicing, Volume 4 - Wastewater Servicing, Volume 5 - Public and Stakeholder Communications, and Volume 6 - Implementation.

All opportunities to review project information will be communicated via mail and/or e-mail to MCFN. This will include instructions to review respective PIC materials and the final Master Plan report through the project website:

<https://niagararegion.ca/projects/www-master-servicing-plan>

4. Description of what other information is expected to become available before the proposed action/decision is undertaken

Through this Master Plan Update, water and wastewater servicing strategies will be put forward to support anticipated residential and employment growth across the Regional Municipality of Niagara Region to 2051 and beyond. The strategies will include specific programs and projects required to meet growth needs, such as upgrades to existing watermains or sewers, new watermains or sewers, new/expanded pumping stations, reservoirs, or treatment facilities.

These recommendations will be documented in the final report, which is anticipated for MCFN review in early 2022. Prior to implementation, some of the projects resulting from the Master Plan recommendations will require separate Class Environmental Assessments (EAs) will be required to satisfy the Municipal Class EA requirements including additional public and agency consultation, further investigations (i.e. archaeological assessments, cultural heritage screening, natural environment, etc.) and detailed evaluation of specific technologies, sites, and design concepts. All next step requirements will be illustrated in the final report.

Infrastructure Planning & Engineering
1815 Sir Isaac Brock Way, Thorold, ON L2V 4T7
905-980-6000 Toll-free: 1800-263-7215

5. Deadlines or filing dates pertaining to the action/decision

The 2021 Water and Wastewater Master Servicing Plan Update is expected to be available for MCFN review in early 2022. Following the 30-day review period, if there are no outstanding questions or concerns, the Master Plan will be filed. Exact timing of MCFN's review will be communicated ahead of this prescribed review period.

6. The Crown or Municipal review/approval that is required for the project

The 2021 Water and Wastewater Master Servicing Plan follows the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for Master Plans. This study will address Phases 1 and 2 of the Class EA process. The study recommendations will also be put forward for public review and council adoptions prior to filing the Master Plan report.

7. How the proposed action or decision may affect and/or benefit MCFN, its rights and territory

The study will provide information on the recommended infrastructure to maintain level of service in the existing water and wastewater systems as well as service future anticipated residential and employment growth. The Master Plan will take into account indigenous considerations when evaluating infrastructure locations. Prior to design and constructing the recommendations, some of the infrastructure projects will require separate Class EAs to determine potential environmental and social/cultural impacts and measures to mitigate these impacts. Any potential impacts to MCFN rights and territory will be identified at these subsequent stages and will be controlled through avoidance or mitigation.

If you have any further questions or would like clarification on the items listed above, please contact the undersigned.

Thank you,

Ilija Stetic

Ilija Stetic

cc: Phill Lambert, Director, Infrastructure Planning and Engineering, Niagara Region
Danielle MacKinnon, Infrastructure Planning, GM BluePlan Engineering Limited

Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Tuesday, June 22, 2021 12:26 PM
To: Fawn Sault; Niagara MSPU
Cc: Mark LaForme; Megan DeVries; Lambert, Phill; Danielle MacKinnon - GM BluePlan
Subject: RE: 2021-0403 MCFN Niagara Region Water and Wastewater Masterplan

Thank you Fawn,

We will contact Megan DeVries as you suggested should the scope of the project include any archeological or/and environmental investigations.

Regards,

Ilija

From: Fawn Sault <Fawn.Sault@mncfn.ca>
Sent: Friday, June 18, 2021 9:50 AM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>; Lambert, Phill <Phill.Lambert@niagararegion.ca>; Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>
Subject: RE: 2021-0403 MCFN Niagara Region Water and Wastewater Masterplan

Good Morning Ilija,

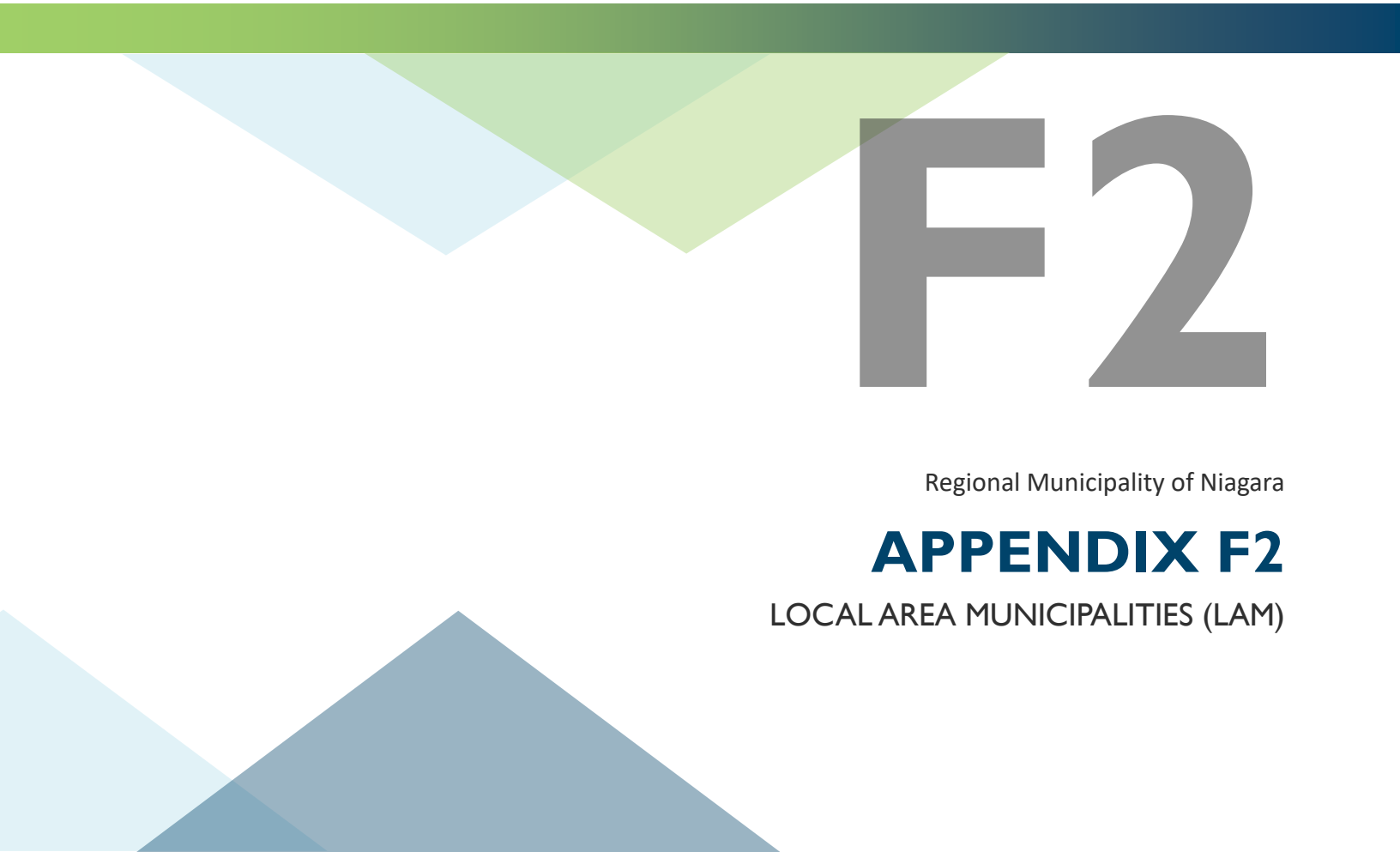
I see there may be Class EA work done which may include archaeological and environmental investigations. MCFN expects to have our FLR's on site for all field work when the time comes. Megan DeVries, our Archaeological Operations Supervisor, can send you the appropriate documentation to be executed for our participation.

If you have any questions please feel free to reach out.

Miigwech,

Fawn Sault
Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Thursday, June 17, 2021 5:13 PM

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F2

Regional Municipality of Niagara

APPENDIX F2

LOCAL AREA MUNICIPALITIES (LAM)

Niagara Region

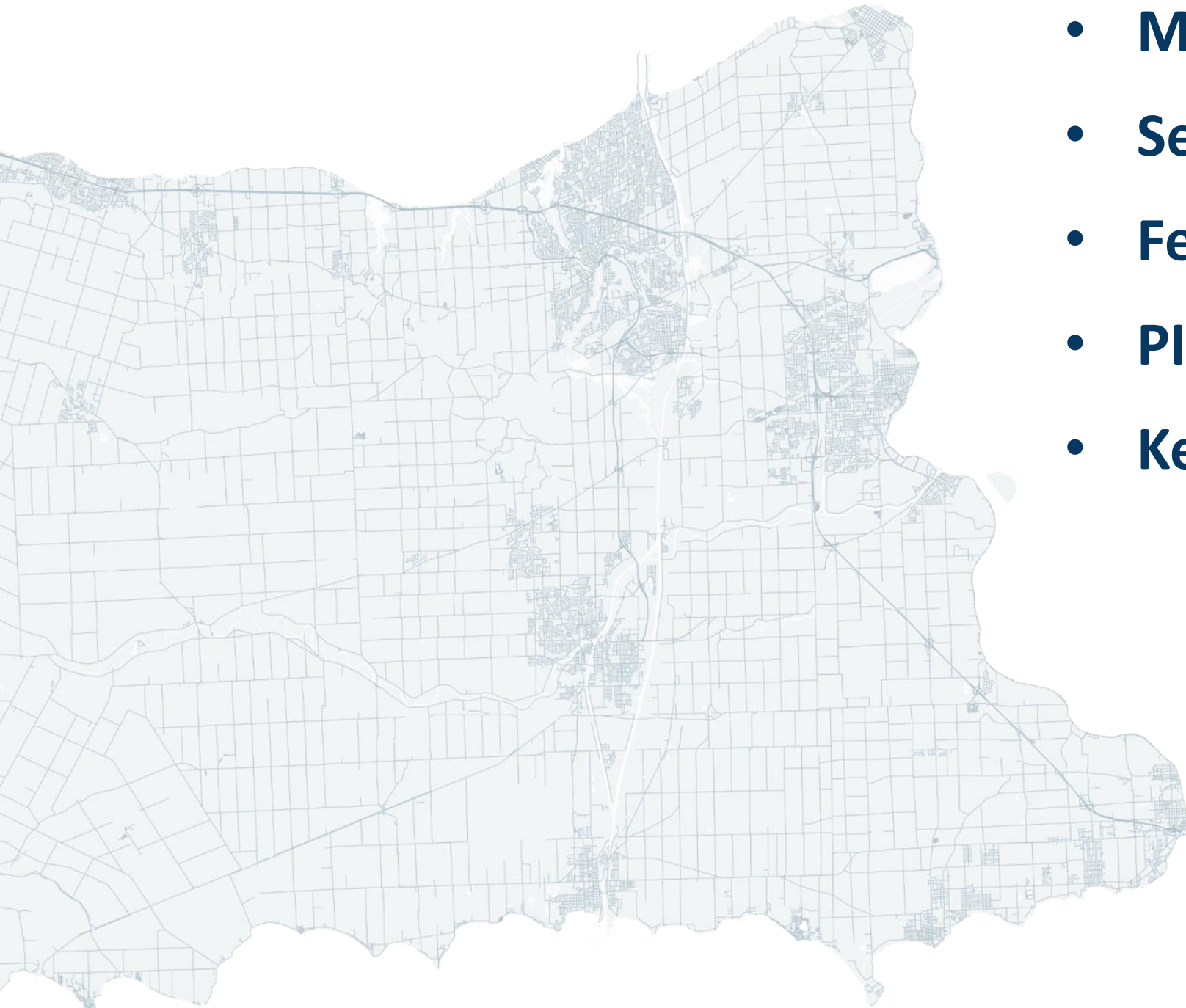
2021 Water and Wastewater Master Servicing Plan Update

Local Municipality Coordination Meeting

—
April 8, 2021



- **Introductions**
- **MSPU Overview**
- **Servicing Needs, Policies, Criteria**
- **Feedback and Discussion**
- **PIC No. 1**
- **Key Next Steps**



Project Team

Ilija Stetic

Phill Lambert

Richard Gabel

Richard Pinder

Chris Hamel

Julien Bell

Jody Lee

Emily Linschoten

Providing for Today, Vision for Tomorrow

To establish a cost-effective infrastructure program that meets the service needs of existing users, meets regulatory and legislative requirements, supports growth, and addresses the priority areas of climate change, energy management, infrastructure optimization, system security, and resiliency

- With an updated planning horizon to 2051, the Master Servicing Plan needs to be updated to determine how the Region's Water and Wastewater Infrastructure will support growth in a sustainable and financially responsible manner.
- The Master Plan Update will develop a long-term servicing strategy and capital forecast to ensure level of service for existing residents and businesses, to support future growth in the community through 2051, and to consider potential impacts post 2051.

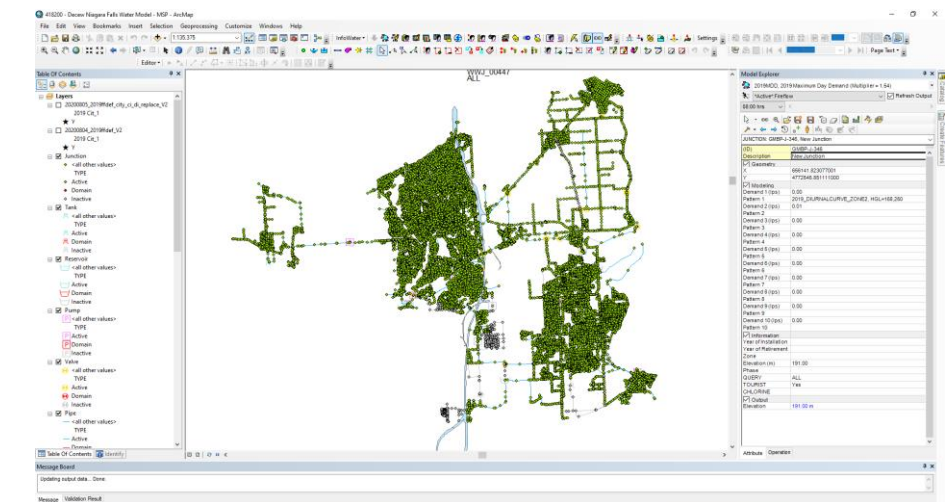
Stage 1.0 – Assessment of Existing Infrastructure and Needs Review

Stage 2.0 – Baseline Modelling and Model Calibration

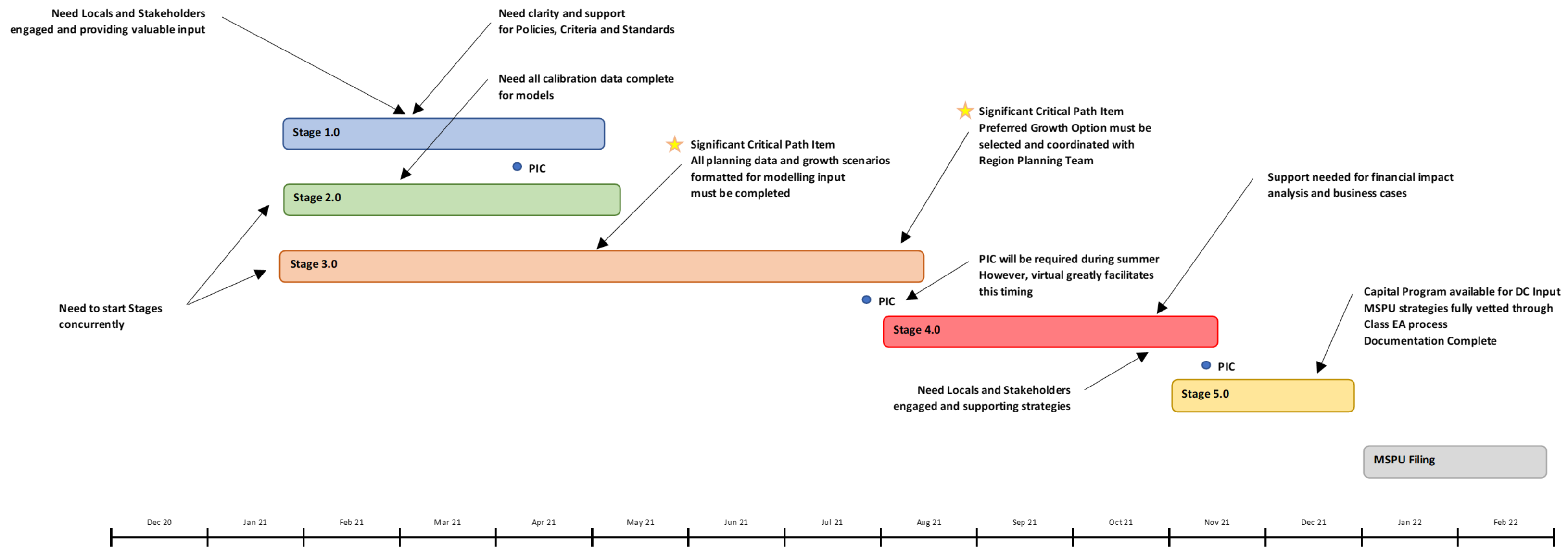
Stage 3.0 – Growth Scenarios, Policies and Alternatives

Stage 4.0 – Preferred Solutions and Design Concepts

Stage 5.0 – Completion



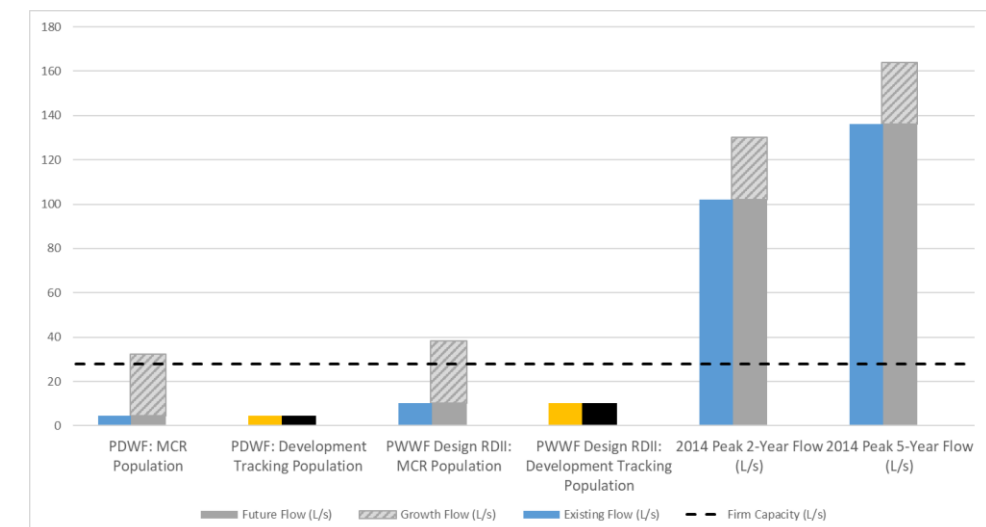
Project Schedule / Critical Path



- **Leverage knowledge and improvements since last Master Servicing Plan**
- **Better, more detailed water and wastewater models**
- **Better understanding of facility capacities and performance**
- **Additional system data from metering, system testing, and flow monitoring**
- **Vision for growth planning within 2051 planning horizon as well as potential build out**
- **Feedback from implementation of MSP recommendations over the last 5 years**
- **Integration of a more developed SOGR program**

- **Partnership between the Region and the Local Area Municipalities (LAMs) for holistic solutions**
- **Coordination of capital and maintenance activities, data sharing, system/facility knowledge**
- **Enhanced and common tools (models)**
- **Understanding and coordination of State of Good Repair and Level of Service initiatives at the LAM and Region levels**
- **Coordination of policies and guidelines (wet weather)**
- **Active engagement and integration of feedback**

- **Water and Wastewater Criteria**
 - Common or unique criteria in each system? (Lpcd)
 - Level of forward-looking conservation or decreasing criteria?
 - Other helpful supporting data
- **Master Servicing Plan Decision-making Guidelines (Policies)**
 - Trigger for upgrades (% capacity, HGL, ...)
 - System/Facility resiliency and security
 - Balance of pumping, storage, energy efficiency
 - Wet weather policy – finding capacity through I/I reduction, etc.
 - Wet weather level of service – 2 year storm, criteria based extraneous flow



- Are there current constraints or servicing limitations within your system that require attention or focus?
- Are there examples of conflict or disconnectedness between implementation of Region infrastructure and local servicing goals?
- Are there specific servicing goals for your municipality that should be considered in the MSPU?
- Can you comment on the historical success or future opportunity in managing wet weather flows between Region and Local Municipality initiatives? What is working? How could it change?
- Are there current approaches or policies you would like to enhance or change? (i.e. connecting to Region infrastructure, development holds based on peak wet weather flows, servicing outside urban boundary, local municipal commitment to I/I reduction, etc.)

- **April 21, 2021**
- **Virtual PIC**
 - Web site
 - Interactive project information
 - Overview video
 - Comment forms
- **Goals**
 - Introduce project
 - Highlight process and schedule
 - Engage public and stakeholders to be part of the process
 - Highlight key issues and opportunities

- **Notice of Commencement and PIC Advertisement**
- **Web site materials**
- **PIC**
- **Coordination with Planning**
- **Baseline System Analysis and Model Updates**
- **Incorporate Feedback**
- **Plan for next more detailed MSPU Guidelines and Servicing Workshop**

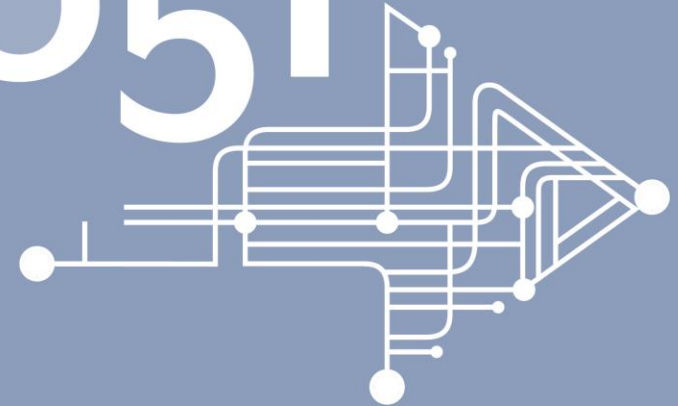
Thank You

Water & Wastewater Master Servicing Plan Update

Policy, Standards, and Criteria

September 16, 2021

niagara 2051



Agenda

1. Introductions
2. Project Update
 - a) Project Schedule
 - b) PIC #2
 - c) Analysis Approach
3. Planning Scenarios
4. Design Criteria and Standards
 - a) Water System
 - b) Wastewater System
5. Policy Review
6. Next Steps

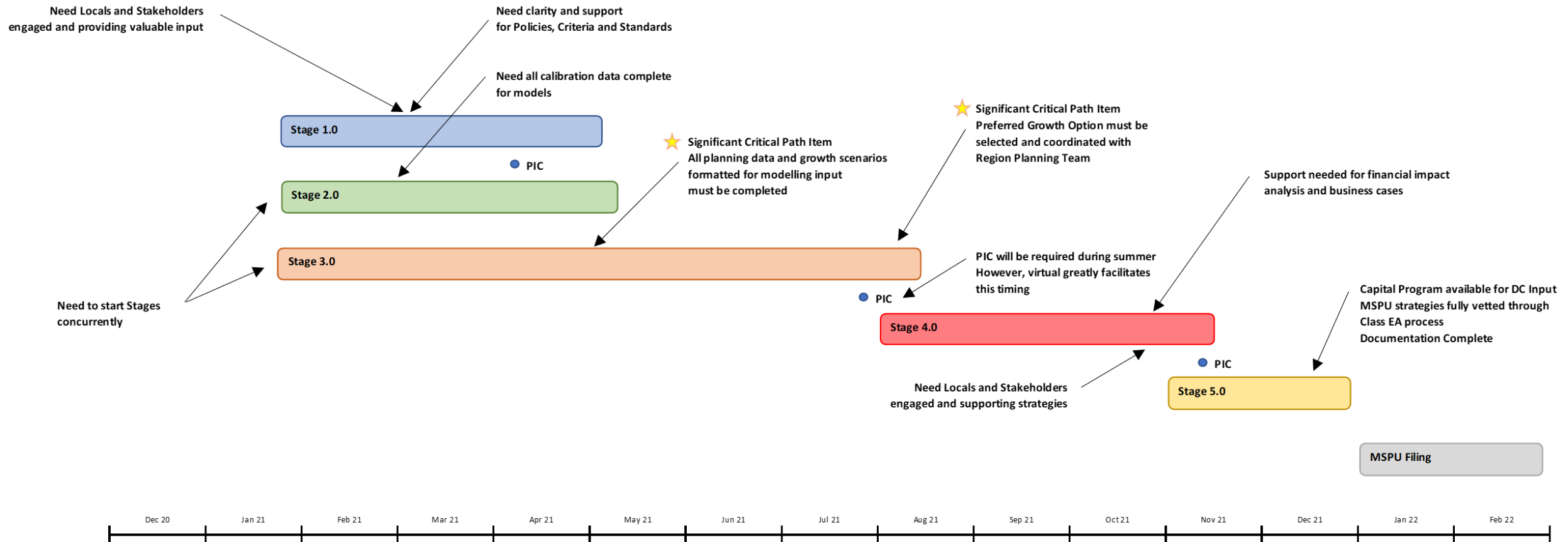
Objectives

1. Inform LAM about next steps within the Region's Master Plan update
2. Present planning scenarios for master planning
3. Discuss changes to policy and criteria and impacts of those changes



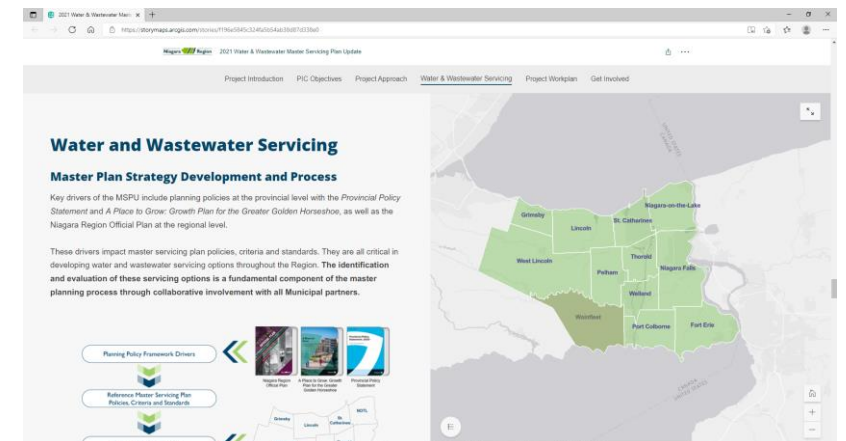
Project Update

Project Schedule



PIC #2

- Planning for late October/early November
- Virtual PIC – Storymaps format online
 - May also include video presentation
- Present general Master Servicing Plan Update information
 - EA process, vision statement, project drivers and guiding principles
- Present planning scenarios (2051 horizon with post-2051 lens)
- Present opportunities and constraints
- Present policy and criteria updates
- Next steps and opportunities to participate



Analysis Approach

- Two-tier approach

Trunk Capacity Review

- Identify major system opportunities and constraints
- Development of servicing concepts
- Complete primarily through tabular analysis and baseline (existing) system assessments (model)

Servicing Alternatives Review

- Evaluation and confirmation of preferred servicing analysis
- Use of models to confirm impacts of growth and confirmation of upgrade needs



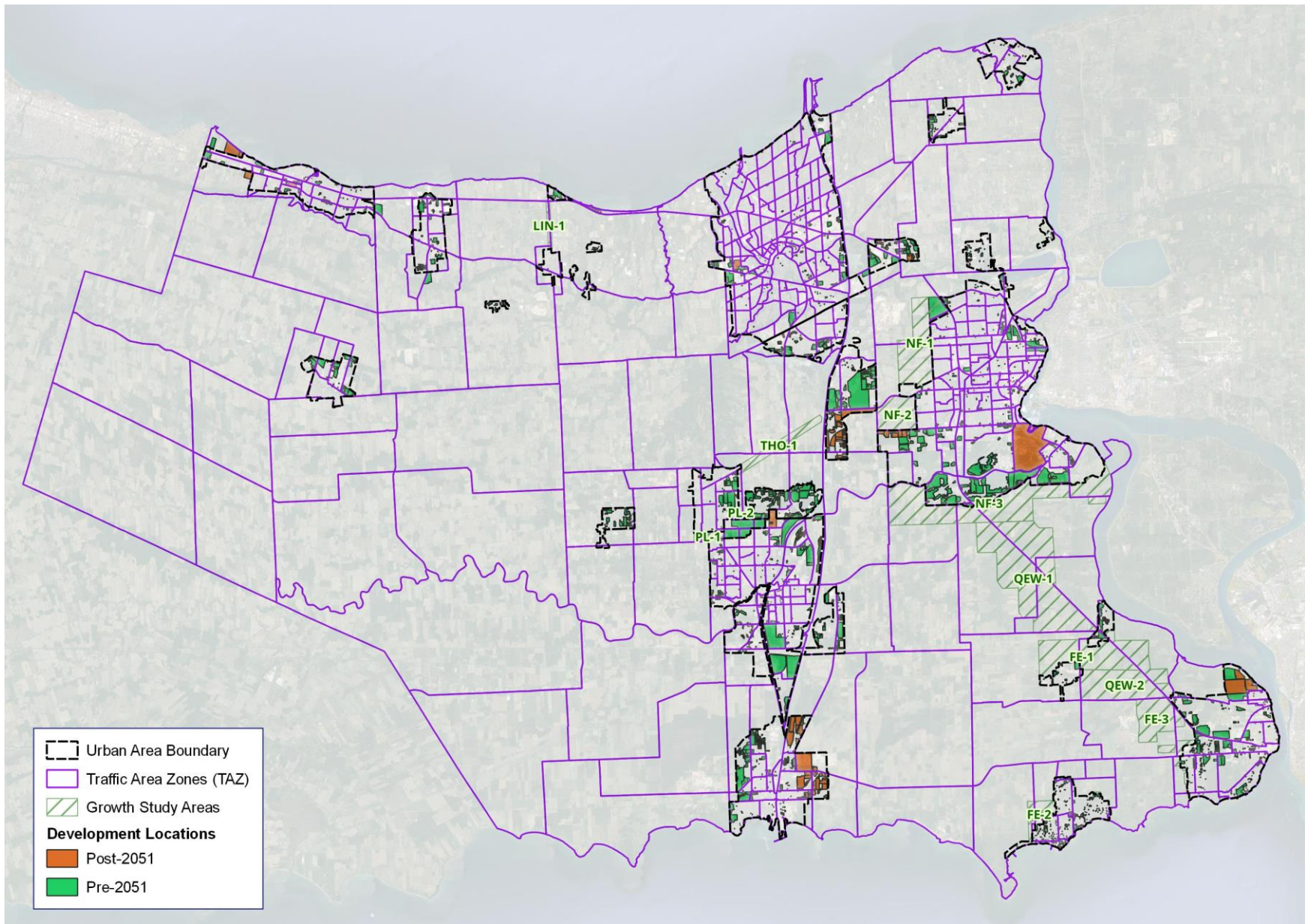
Planning Scenarios

Planning Data

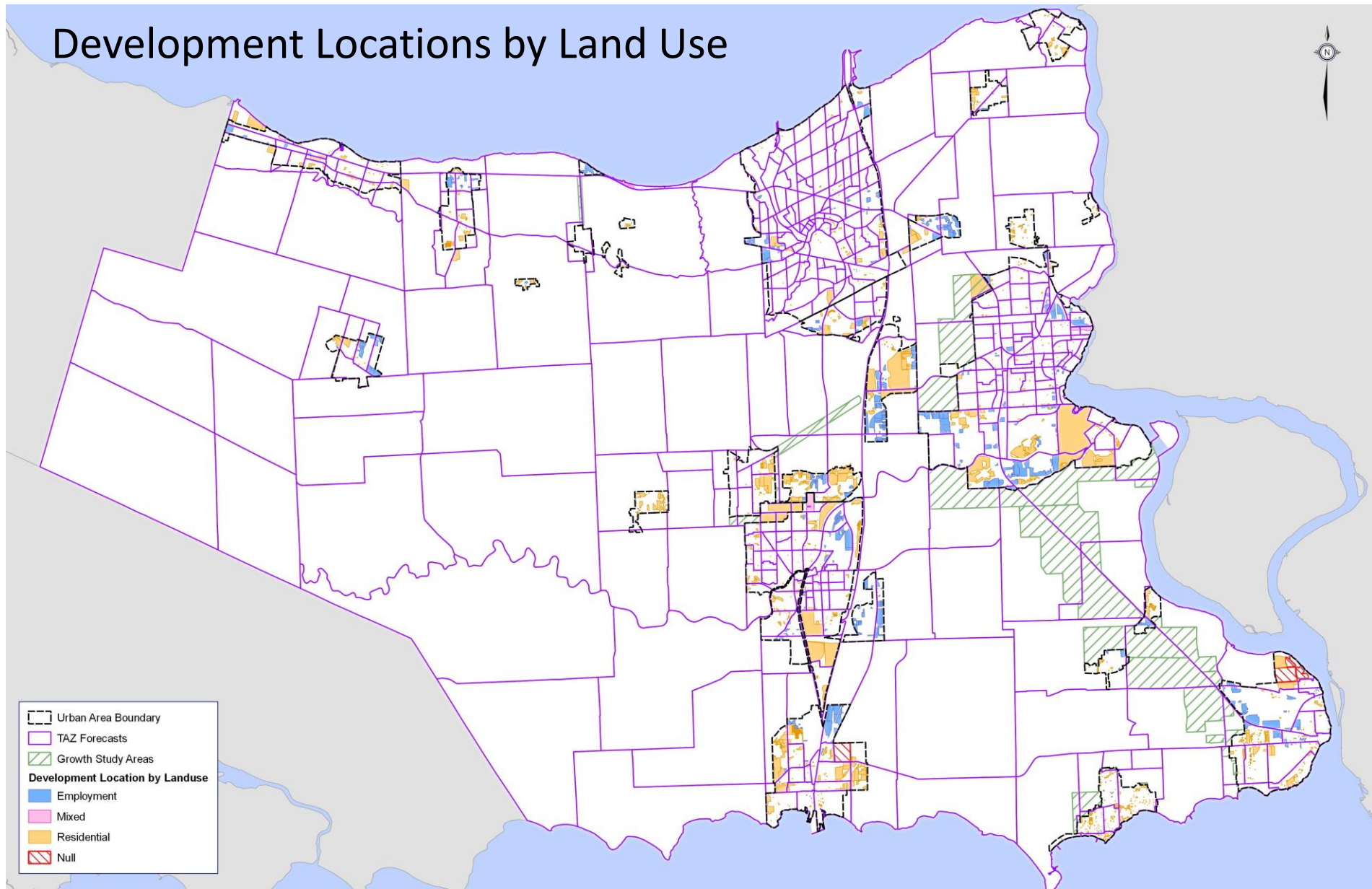
- Three main sources of planning data:
 - **Traffic Area Zones**
 - Includes projected population data from development applications that have been submitted over the past 6 months
 - Also includes detailed information from LAMs, where available
 - **Development Locations (specific parcels of known future development)**
 - Provides estimates on timing and growth potential on specific sites
 - **Growth Study Areas**
 - These are larger areas outside of the existing urban boundaries
 - 12 locations have been identified (not all 12 locations are expected to be feasible – modelling to be completed to understand the impacts on servicing)
 - Support the Settlement Area Boundary Review (SABR) process

Planning Horizons

- Focus on 2051 scenario with a post-2051 lens
 - The Region has included post-2051 population projections within the TAZs
 - Context of post-2051 projections will allow us to better understand potential infrastructure implications
- Traffic Area Zones include post-2051 growth (population and employment)
- Development Locations include an estimated timeline of pre-2051 or post-2051
- Some growth study areas are flagged for post-2051 consideration, while others are expected to be required to support growth to 2051



Development Locations by Land Use



Traffic Area Zones – 2051 Horizon

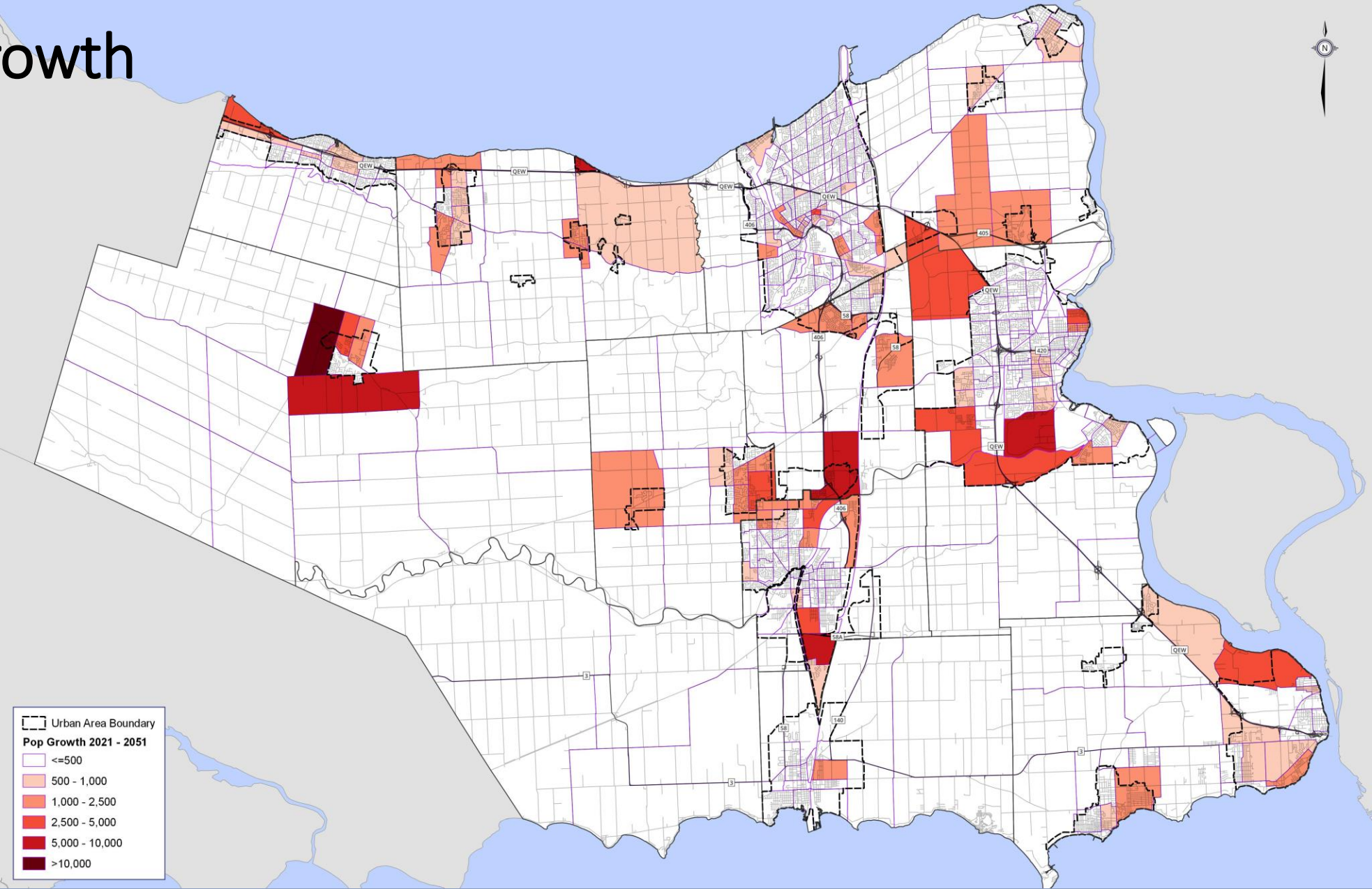
Municipality	Population			
	2021	2031	2041	2051
City of Niagara Falls	96,962	113,625	130,512	141,585
City of Port Colborne	19,145	19,946	21,598	23,222
City of St. Catharines	140,702	152,552	163,962	173,505
City of Thorold	23,252	27,573	32,221	38,460
City of Welland	57,079	69,101	74,800	82,240
Town of Fort Erie	33,865	38,646	43,161	48,147
Town of Lincoln	26,499	31,776	36,343	45,803
Town of Niagara-on-the-Lake	20,269	23,308	26,122	29,573
Town of Pelham	19,180	22,953	26,792	28,763
Township of Grimsby	30,753	33,127	35,370	39,776
Township of Wainfleet	7,126	7,338	7,550	7,732
Township of West Lincoln	16,707	23,811	31,560	38,401
TOTAL	491,537	563,756	629,991	697,207

Municipality	Employment			
	2021	2031	2041	2051
City of Niagara Falls	38,079	46,670	51,747	57,605
City of Port Colborne	5,571	6,086	6,699	7,550
City of St. Catharines	62,501	69,336	74,693	80,975
City of Thorold	8,099	9,311	10,523	12,008
City of Welland	17,949	21,706	24,605	28,684
Town of Fort Erie	10,241	12,471	14,700	17,432
Town of Lincoln	11,038	12,602	13,931	15,641
Town of Niagara-on-the-Lake	12,277	14,471	15,638	17,175
Town of Pelham	4,559	5,463	6,340	7,140
Township of Grimsby	10,037	11,890	13,095	14,670
Township of Wainfleet	1,319	1,508	1,651	1,831
Township of West Lincoln	4,224	6,115	8,258	10,527
TOTAL	185,894	217,629	241,881	271,238

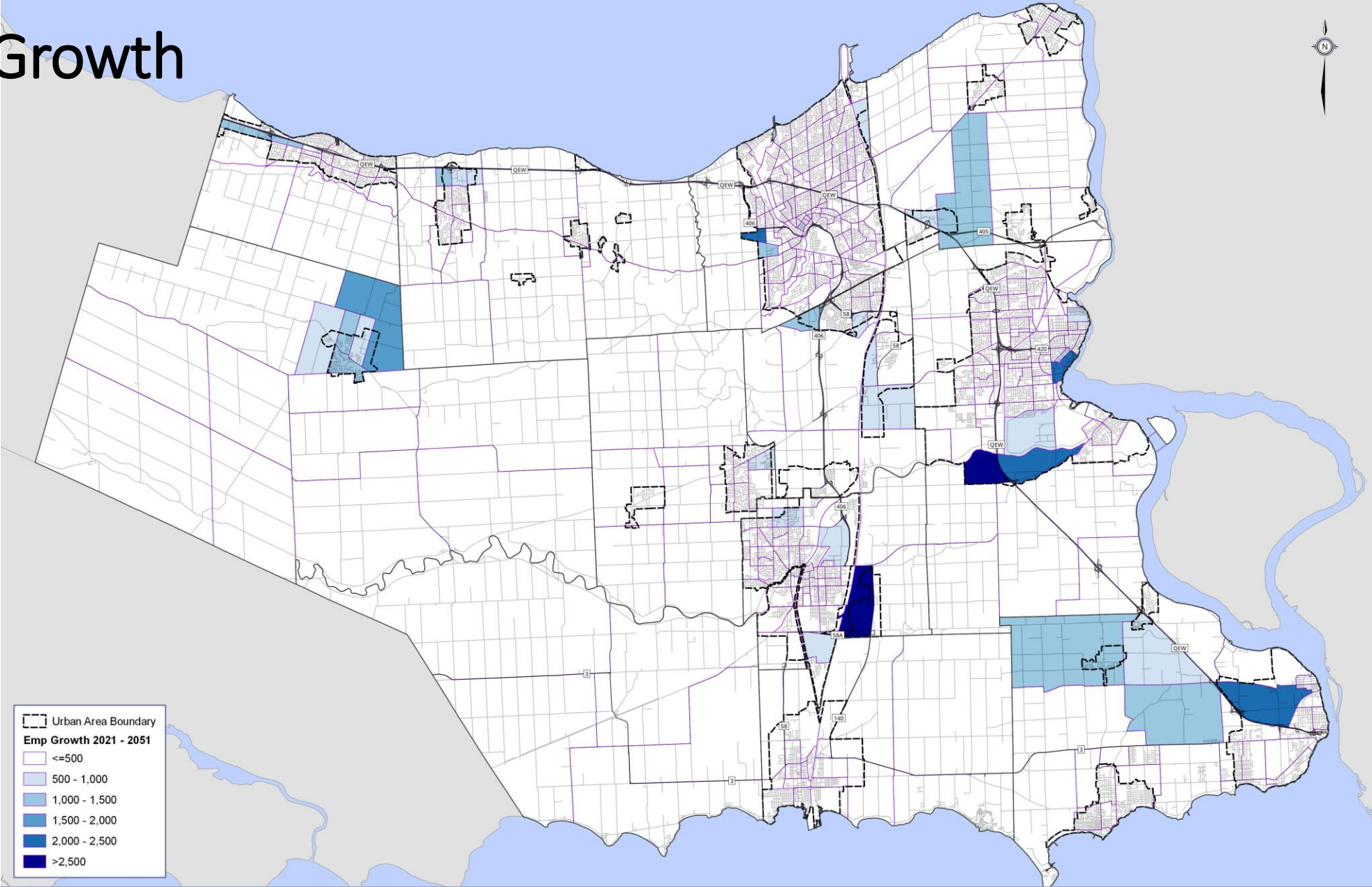
2051 Projections	Population	Employment	Total
Places to Grow Target	674,000	272,000	946,000
Region TAZ	697,207	271,238	968,445
Difference	+23,207	-762	+22,445

An additional +/- 90,000 people and jobs allocated for post 2051 review

Population Growth



Employment Growth



Growth Data – Allocation Methodology

- Development locations will be allocated to the closest model nodes
- Difference between TAZ population and development locations represents the balance of growth which will be allocated evenly across all parcels
 - Parcels with remainder of TAZ growth will be allocated to the closest model nodes using the same methodology as the existing billing data
- Where growth is projected outside of the existing network, a simple watermain network will be drawn for large developments to represent future watermains for growth loading purposes

SABR Review – Growth Study Areas

- Region staff have identified 12 generalized Growth Study Areas for evaluation through the MSPU
 - Some of these areas were identified through a draft Land Needs Assessment (LNA) completed in May 2021 by the Planning and Economic Development Committee
 - Other areas were identified by local municipalities
 - Provides opportunity for high-level understanding of servicing impacts



Design Criteria and Standards

Water System

Water Demand Projection Methodology

- Utilize starting point methodology
- Starting point based on local billing meter records and production records from last 3 years of data
- Growth demands applied to starting point using design criteria

Water System Criteria

- Acceptable pressure range of 40 – 100 psi
 - Regional objective of maximizing areas within 50 – 80 psi for Regional watermain
 - Flag areas outside of this range (does not necessarily trigger infrastructure upgrades)
 - Regional objective of 30 psi residual pressure at Regional transmission mains under fire flow conditions
- Sizing water supply and transmission mains for maximum day demand (MDD)
- Sizing water storage facilities based on MECP methodology (A + B + C)
- Sizing Regional transmission main system for peak hour demand (PHD) and MDD + fire flow demands
- Plant and facility expansions complete before 90% capacity reached, with following options for planning process trigger
 - 80% trigger for plant and facility planning process
 - Time-based trigger on a case-by-case basis
- Regional watermain velocities
 - Flag areas less than 0.6 m/s minimum velocity under average day demands and greater than 1.5 m/s under greater of MDD + FF and PHD
 - Trigger upgrades where watermain velocity is greater than 2 m/s under greater of MDD + FF and PHD

Basis of Criteria Adjustments

- Apply an informed reduction of the per capita water criteria using available data
 - Residential: 300 L/c/d reduced to 240 L/c/d (20% reduction)
 - Employment: 300 L/c/d reduced to 270 L/c/d (10% reduction)
 - May be opportunity to continue reducing in the future, but we are taking a stepped approach
- Average non-revenue water (including authorized and unauthorized NRW) for all municipalities is 25%
 - Three municipalities (Fort Erie, Port Colborne, and Welland) are higher than this 25%
 - MSPU will assume that NRW will be reduced to 25% in the long term
- MDD peaking factors will remain unique to each system, based on previous 5 years of data and PHD factors will be 1.5 times MDD (MECP ratio)
 - Local MDD and PHD factors will be 2 and 3 respectively, in order to provide additional local sizing protection

Basis of Criteria Adjustments (Continued)

- Region will target 250 L/s fire flow within Regional mains at 30 psi
 - 250 L/s is generally the highest fire flow target set by LAM within local water distribution master plans or model updates
 - Higher residual pressure at Regional mains allows the LAM to achieve the required fire flow under the MECP minimum pressure requirement of 20 psi
- MECP storage sizing methodology will be used (A + B + C)
 - Population based requirement for fire storage will be used, with a minimum storage of 250 L/s for 4 hours
 - Review will be completed on storage service areas (some facilities cover multiple pressure zones, some zones are covered by multiple facilities)
 - Pumped storage transfers will be assessed
 - Pumping capacity will be reviewed in conjunction with storage capacity

Water Consumption Criteria for Growth

Description		Criteria
Per capita consumption	Residential	240 L/c/d
	Employment	270 L/e/d
Peaking Factor	Maximum Day	Based on average from last 5 years of data
	Peak Hour	1.5 times maximum day peaking factor
Fire Flow	Flow Target	250 L/s at 30 psi residual pressure on Regional transmission mains
	Fire Storage	MECP guideline (minimum of 250 L/s for 4 hours)
Storage	Overall Storage	MECP methodology (A + B + C) A = Fire Storage B = Equalization Storage (25% of MDD) C = Emergency Storage (25% of A + B)



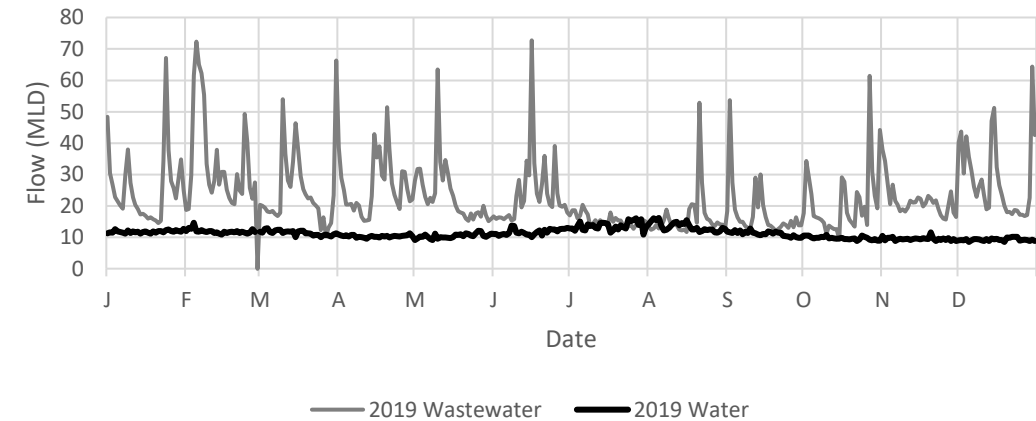
Design Criteria and Standards

Wastewater System

Basis of WW Per Capita Criteria

- Challenges to assessing appropriate criteria due to heavy wet weather influence
- Various options were considered
 - Conservative options based on observed existing values
 - Least conservative option of matching updated water criteria
 - Various midway options using observed dry weather flows and matching res/non-res ratio from water criteria
 - Calculate “criteria” peak wet weather flow (PWWF)
- Recommended criteria: 255 L/cap/d residential and 310 L/cap/d employment**
- Justification for selected criteria:
 - Defendable through analysis of historic WWTP flows and dry weather flows
 - Maintains consistency with water criteria with respect to residential/non-residential ratio
 - Decrease in residential criteria is in line with the Region’s previous criteria discussions and goals

Fort Erie WTP vs. combined WWTP



WWTP	Per capita criteria (L/cap/d)		
	Average Flow	Average Dry Weather Flow (DWF)*	Average DWF – June to Sept Only
Baker Road WWTP	254	229	178
Port Dalhousie WWTP	286	260	210
Port Weller WWTP	312	291	215
NOTL Lagoon/WWTP	347	344	303
Queenston WWTP	142	114	132
Niagara Falls WWTP	299	262	219
SD Lagoon	323	297	257
Anger Ave WWTP	588	503	359
Crystal Beach WWTP	548	497	410
Seaway WWTP	581	568	511
Welland WWTP	374	337	261
Average	369	336	278
Median	323	297	257

* Remove wet days (days with > 5 mm precipitation and preceding wet days)

Basis of Extraneous Flow Allowance

Municipality	Treatment Plant	2-year (L/s/ha)				5-year (L/s/ha)			
		Min	Max	Average	Median	Min	Max	Average	Median
Grimsby	Baker Road WWTP	0.01	11.09	1.46	0.39	0.02	11.18	1.62	0.51
West Lincoln	Baker Road WWTP	0.14	1.01	0.60	0.57	0.19	1.29	0.78	0.76
Lincoln Beamsville	Baker Road WWTP	0.21	2.73	1.09	1.11	0.29	3.70	1.29	1.15
Lincoln Vineland	Baker Road WWTP	0.02	0.83	0.31	0.26	0.05	1.10	0.40	0.31
Welland	Welland WWTP	1.30	5.70	2.20	1.60	1.59	6.40	2.47	1.92
Thorold	Welland WWTP	0.38	1.77	1.07	1.07	0.45	2.02	1.24	1.24
Pelham	Welland WWTP	0.16	0.41	0.27	0.29	0.20	0.49	0.34	0.35
Fort Erie	Anger Avenue WWTP	0.17	10.38	2.51	1.24	0.24	13.05	2.83	1.67
Fort Erie	Crystal Beach WWTP	0.06	2.43	0.62	0.27	0.10	2.53	0.73	0.39
Fort Erie	Stevensville/ Douglastown Lagoons	0.32	1.20	0.72	0.65	0.45	1.55	0.96	0.87

- The systems noted in the table represent the low, average, and high end of dry weather flow per capita criteria
- Most catchments are performing significantly worse than the 0.286 L/s/ha criteria

Basis of Extraneous Flow Allowance (Cont'd)

- Maintain 0.286 L/s/ha criteria for new development, increase criteria for existing areas to 0.4 L/s/ha (depending on catchment performance) for capacity planning
 - Maintains the expectation that new development needs to be closely monitored to ensure the 0.286 L/s/ha will be maintained throughout the life of the assets
 - Provides some additional buffer to LAM for existing areas which have been clearly identified to be significantly worse than the 0.286 L/s/ha criteria
 - Sets a more realistic expectation for I/I reduction, but maintains the importance of I/I reduction programs that need to be undertaken by the LAM

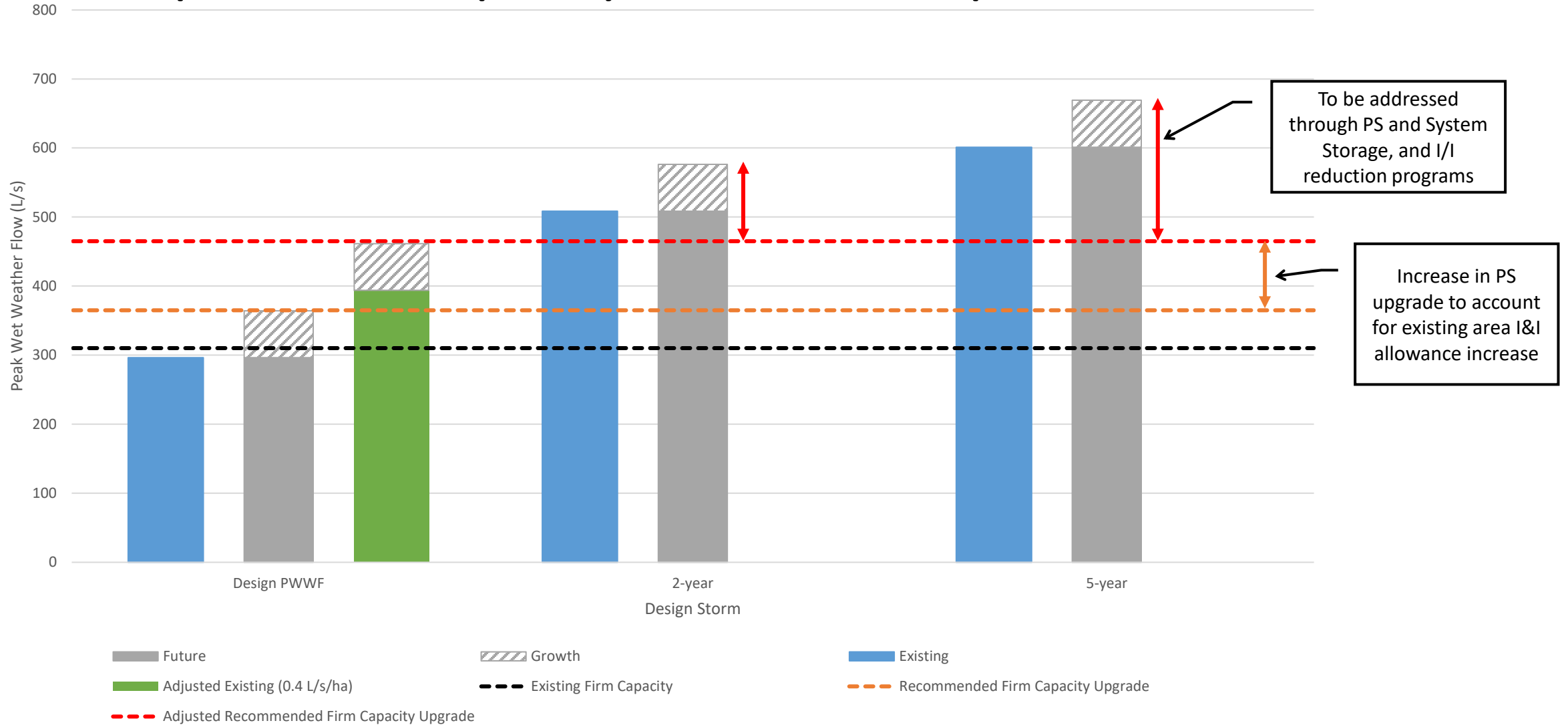
Wastewater Consumption Criteria for Growth

Description		Criteria
Per capita WW generation	Residential	255 L/c/d
	Employment	310 L/e/d
Peaking Factor	Peak Dry Weather Flow	Harmon's Peaking Factor
Extraneous Flow	RDII Target	• 0.286 L/s/ha for new developments across all catchments • 0.4 L/s/ha for existing developments (varying across catchments depending on performance)
Treatment Plant Sizing		• Average flow
Pumping Station Sizing		• Criteria PWWF with consideration for 5-year design storm
Forcemain Sizing		• Design velocity target between 1 m/s and 2 m/s • Forcemain twinning to increase capacity where feasible
Sewer Sizing		• Pipe full flow under design PWWF • Assess 5-year design storm performance to minimize basement flooding risk

Basis of Pump Station Capacity Review

- Proposing a similar pumping station and system storage review methodology as the Baker Road PPCP
 - Calculate “criteria” peak wet weather flow (PWWF)
 - Establish peak dry weather flow baseline
 - Add new growth flows at per capita design criteria
 - Add extraneous flows based on catchment area (0.286 L/s/ha or new RDII criteria)
 - Review capacity of pumps and wet well storage against criteria PWWF
 - Model system using 5-year design storm (actual system baseline/calibrated conditions + growth flows using criteria)
- Objective is to analyse both scenarios to assess:
 - Facility capacity upgrade trigger based on criteria PWWF
 - System risk under 5-year design storm (risk of surcharging, basement flooding, etc.) to trigger the need for
 - System storage upgrades (in-line storage, wet well storage) with the target of no system overflows
 - I&I Reduction
 - Consideration for additional pumping capacity if condition-based upgrades are planned and it triggers no downstream upgrades

Pump Station Capacity Review Example



Region and LAM Collaboration

- Continue to focus on collaboration between the Region and LAMs to address capacity and I/I issues
- Continue to build achievable long-term I/I reduction strategies and plans within each LAM
 - In line with MECP direction
- Region continue to fund and potentially expand CSO program
- Need to advance I/I reduction or development capacity may become “frozen”

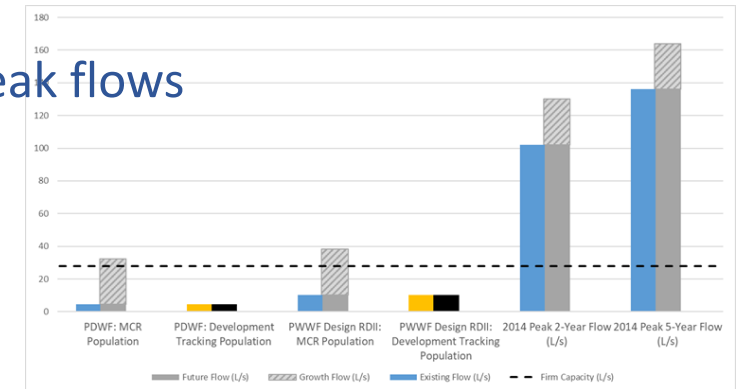


Master Planning Guidelines

General

Draft Policies – Wet Weather LOS

- General Approach
 - Understand current performance under criteria based, 2-yr storm and 5-yr storm (bar graphs)
 - Project future capacity requirement using growth @ criteria
 - Size infrastructure based on criteria
 - Identify priority areas that show wet weather flows greater than capacity
 - Target these areas for LAM system I/I reduction
- We are not sizing Region infrastructure for 2-yr or 5-yr storm level of service
 - But we do look for opportunities to manage the wet weather peak flows



Draft Policies – Wet Weather LOS

- Niagara Region and Local Municipalities will maintain consistent criteria, standards and policy with respect to level of service in the wastewater system to meet wet weather peak flows
- New wastewater infrastructure will be sized, where applicable, to meet peak wet weather flows based on peak dry weather flow plus extraneous (i/i) flow rates at criteria

Draft Policies – Wet Weather LOS

- Niagara Region will review a combination of servicing strategies including infrastructure and non-infrastructure (e.g. i/i reduction) solutions to meet wet weather level of service and provide sufficient wastewater capacity
- Capacity gained through implementation of i/i reduction programs will be shared for growth and non-growth (existing) benefit
- Niagara Region will approach Guidelines F-5-5 and F-5-1 such that new development will not increase wet weather overflows beyond current conditions

Draft Policies – Impact to CSO Program

- Past Program
 - 25% DC funded, 100% of capacity gain applied for new development
 - First come first serve basis
 - Limited capital fund
 - Requires Local Municipality identification and implementation
- Currently Revised Program
 - Anticipated increased I/I, CSO Program developed through MSP based on targeted areas for high probability and high success
 - Increased to 50% DC funded
 - Share capacity gain to 50% growth, 50% Benefit to Existing (level of service benefit)
 - Continual improvement on how to lead, implement and prioritize the program through and integrated Region/Local Municipal approach
 - Still elements of:
 - First come first serve basis
 - Limited capital fund
 - Requires Local Municipality identification and implementation
 - Potential enhancements – additional monitoring and performance tracking (pre/post)

Draft Policies – System Performance

- Niagara Region will endeavor to maintain sufficient reserve capacity in its water and wastewater infrastructure and facilities to provide operational flexibility and meet potential changes in servicing conditions
- Niagara region shall endeavor to provide reliability, redundancy and security in its water and wastewater systems with attention to high risk and critical areas

Draft Policies – Infrastructure Planning

- Niagara Region shall be aware of and consider the potential impact of climate change on planning and sizing of infrastructure
- Niagara region shall design water and wastewater facilities with consideration to energy use
- Niagara Region will consider levels of storage beyond MOE Guidelines where appropriate in order to provide operational flexibility, energy management and system security

Other General Policy Items for Consideration

- Sustainability and Climate Change Adaptation
 - Impact to design values
 - System resiliency
 - System management philosophies
 - MSPU recommendation – sensitivity analysis
- Development Charges
 - DC eligible split
 - Impact of Residential vs. Employment per capita criteria
 - What is a DC project – triggers
 - Measure benefit to existing
 - I/I reduction development capacity

Next Steps

- PIC #2
 - Targeting late October or early November
- Finalizing water and wastewater baseline models
- Assess existing system capacities (2-tier approach)
 - Trunk Capacity Review
 - Servicing Alternatives Review

Meeting Minutes

Meeting	2021 MSPU Local Municipality Meeting		
Date	Thursday, December 8, 2022 (10:00 AM – 12:00 PM)		
Location	Microsoft Teams Meeting (Virtual)		
Attendees	Niagara Region Ilija Stetic Phill Lambert Roland Bradshaw Richard Gabel Jason Oatley Joseph Tonellato Dawn Macarthur Town of Lincoln Walter Neubauer Gillian Harris <i>Dave Graham – Regrets</i> Town of West Lincoln Jennifer Bernard <i>Mike Di Paola - Regrets</i> <i>Steve McGean – Regrets</i> Town of Fort Erie Chris Pisaric Kelly Walsh <i>Chris Kalimootoo – Regrets</i>	GMBP Project Team Chris Hamel Julien Bell Elaine Samuel Jody Lee City of Niagara Falls Kent Schachowskoj Erik Nickel Town of Niagara-on-the-Lake Brett Ruck Darren MacKenzie <i>Adam Allcock – Regrets</i> City of Thorold Sean Dunsmore Geoff Holman Ugo Obiako	City of St. Catharines Mark Green Anthony Martuccio Tim Marotta Samantha Downing Town of Grimsby <i>Marvin Ingebrigtsen – Regrets</i> <i>Brandon Wartman – Regrets</i> City of Port Colborne Darlene Suddard Joe Colasurdo Town of Pelham <i>Jason Marr – Regrets</i> City of Welland Livia McEachern Sherri-Marie Millar Matthew Main
Copies to	All		

Summary of Action Items

Responsibility	Action Item
Region	Region to provide direction to GMBP regarding Ontario Road SPS in Welland
Locals	LAMs to provide any additional comments as soon as possible, before Dec 22
GMBP	GMBP to add note that alignments are preliminary and will be refined through subsequent projects on all capital program maps and within reporting as needed
	GMBP to remove Carlton Reservoir and PS from all water figures
	GMBP to review all abandoned facilities on maps (water and wastewater)
	GMBP and Region to review sustainability projects and decide what should be presented in the maps (example Eastside FM alignment in Port Colborne)
	GMBP to make note of City's Canal Bank Street watermain in the W-M-014 project sheet to ensure coordination for tie-in
	GMBP to review how timing is presented in the final cost table, specifically with respect to studies

Minutes

Actions

1) Meeting Introduction and Objectives

- Slides utilized in this meeting will be presented to the public as part of PIC #2, with minor adjustments based on Region and LAM comments
- The PIC will include a virtual live presentation on January 18, with materials posted on the project website, comments period January 18 – Feb 2

2) General Comments

- The water capital program in this MSPU includes more storage projects than previously due to:
 - Increased growth projections required adjustment of strategy from supplementing storage deficits through transfers between communities to the need for new storage elements
 - Updated information regarding contact time requirements at the water treatment plant reservoirs (decreased existing usable system storage at WTP reservoirs)
- The wastewater capital program re-emphasizes the need for and importance of wet weather flow reduction with LAM collaboration
- There are placeholder projects that have been included in the water and wastewater capital programs which defer decisions to separate EAs and studies that are currently ongoing (i.e. Queenston EA, Bemis ET EA, Niagara Falls ET EA, etc.)
 - Placeholder projects ensure that there is sufficient budget allocated and can be refined/adjusted later on as needed

3) Grimsby/Lincoln/West Lincoln

- Significant growth projected in Smithville, Beamsville, Vineland
- Treatment expansion needed (water and wastewater)
- Water
 - Strategy generally focuses on augmenting transmission and improving security of supply/resiliency between communities
 - Key differences from previous master plan
 - Significantly more projected growth in Smithville triggering need for additional pumping, storage, transmission capacity
 - New transmission main between Park Ridge Reservoir (Grimsby) and Hixon Reservoir (Lincoln Beamsville) to address single feed watermain to Beamsville, delays need for pumping upgrades at Lincoln/Grimsby BPS, opportunity to optimize use of large reservoir volume at Park Ridge Reservoir and improve operational flexibility
- Wastewater
 - Cascading impacts of upstream growth on downstream facilities to the WWTP
 - Strategy remains the same as previously identified through 2016 MSPU and Baker Road PPCP
 - Re-emphasis of need for wet weather flow reduction across the system
- Gillian noted that growth tends to be happening faster than projected, a known issue which has been and will continue to be addressed with the Region and LAMs.
- General consensus on recommended program

4) St. Catharines

- Water
 - Increasing system resiliency with new trunk main in Thorold and twinning of watermain to Vineland
 - Additional storage in Vineland to support growth
- Wastewater
 - Emphasis on wet weather flow reduction to free up capacity in trunk system
 - Most of the growth in St. Catharines is infill/intensification, resulting in fewer significant trunk sewer or pump station upgrades
- Sean asked about the need for W-M-022 (Thorold trunk watermain) and whether this alignment needs to be shown
 - There is a separate analysis being completed regarding this watermain
 - The Region's main concern is security of supply from the Brock HLP to Highway 406
 - Phill noted that we should continue to show the presented alignment for consistency with the DC program. However, the projects within the capital program will be refined through further study and detailed design
 - **GMBP to add note that alignments are preliminary and will be refined through subsequent projects on all capital program maps and within reporting as needed**
- Phill asked about Virgil ET location
 - EA would determine exact location
 - Preliminary location as shown due to review of existing site and limited space for a second large ET
- **GMBP to remove Carlton Res and PS from all water figures**
- **GMBP to review all abandoned facilities on maps (water and wastewater)**
- Mark asked about the planning numbers that were used in the Geneva Street and Fairview Mall area feeding Spring Gardens SPS
 - An important recommendation through this MSPU will be the need to revisit planning numbers and consult with LAMs when a capital program project is initiated
 - GMBP is developing an information sheet and decision tree as part of the MSPU volumes to support the Region in this process and in the methodology for determining the appropriate upgrade capacity
- Mark asked if the Region has capacity information for trunk sewers and pump stations similar to what is available for the WWTPs. This would help the LAMs in understanding areas with potential capacity concerns
 - Updated models can be referenced for that information, along with tabular capacity utilization tables
- Gillian asked about the trigger and timing of the Fourth Avenue watermain twinning
 - Trigger was magnitude of growth in the Vineland area and the existing single feed watermain. Intent of the twinning is to address security of supply, MSPU recommended timing is 2042 – 2051
- Anthony asked if there are any short-term issues anticipated within the wastewater system
 - Julien noted the main short-term issues are likely in the local system rather than the Region's trunk system, however, if wet weather flows are not addressed in the short/medium term, could start seeing the effects on the trunk system
- Anthony noted that the Province's new Bill 23 has the potential to impact the City's ability to do preventative works such as wet weather flow reduction due to the need to focus on growth-related work

GMBP

GMBP
GMBP

5) Niagara Falls/NOTL/Thorold

- Water treatment plants have sufficient capacity
- Wastewater strategy has determined through the South NF EA which has been filed
- Queenston strategy – EA is almost complete and will recommend that the WWTP be maintained rather than converting to an SPS, however, we are still showing the pumping station and forcemain in the MSPU to be consistent with the DC study, but we are flagging that the final strategy is determined through the EA
- Water
 - Increasing storage capacity and distribution capacity to support growth
 - EA is underway for Niagara Falls ET, location to be determined
 - Trunk looping in south Niagara Falls is separated into three projects to allow flexibility of timing and location
- Wastewater
 - Chippawa trunk sewer to convey Low Lift flows to SNF plant by gravity is new from previous master plan
 - Upgrades to St. David's #1 and #2 SPS are still needed with the new Queenston strategy of leaving the WWTP
- Sean asked if there was consideration of connecting the water system in Port Robinson East and West (Welland to NF system)
 - Julien noted that the HGL of the zones do not match and there would be minor hydraulic benefits of this connection with significant cost
 - Significant cost for little benefit
- Sean asked if the wastewater flows Port Robinson East be directed to WW-SS-007 and the South NF WWTP
 - Chris noted this was considered through EA and the opportunity is there but would be triggered through other growth.
- Eric noted that the City has almost completed their own watermain loop in south Niagara Falls along Lyon's Creek Road, which is a redundant loop for hospital but will also service local. Are both needed for future growth?
 - The timing for the south leg of the Regional watermain loop (W-M-020) is further out in the program (2042 – 2051) because of the City's loop
 - Both the City and Region looping is needed for future– keeping in mind the QEW corridor for potential significant growth
- Kent noted that the City is starting to advance a wet weather flow reduction strategy and the MSPU sequencing/timing of facility upgrades will be important to the City
 - If progress is made on wet weather reduction, this may defer SPS capacity needs, or vice versa

6) Fort Erie

- Stevensville Douglastown Lagoons – triggered for capacity upgrade, but there is potential of redirecting to South NF
 - MSPU is recommending a broader strategic study to determine optimal wastewater treatment solution for all for Fort Erie (including SD lagoons)
- Water
 - No change in strategy from last master plan, ET EA is done, watermain is in design
 - Slightly larger ET volume requirement to accommodate increased growth numbers
- Wastewater
 - No significant change from previous MSPU for Anger Avenue system

- SD Lagoons – Douglastown SPS upgrade is new to the program, aware of sensitivity of the area, which is why the broader study is being recommended
- Kelly asked if the QEW corridor was considered in the strategy
 - It was considered in a post-2051 scenario, but the level of detail required is better suited in a specific study for the area.
- Chris noted that flow monitoring has been showing minimal wet weather flow issues in the Black Creek/SD area, so the contribution of flows from growth may be more significant than anticipated. City will discuss with Region in separate meetings.

7) Port Colborne

- Water
 - New storage (post-2051) to accommodate growth and trunk watermain for security of supply
- Wastewater
 - Pump station upgrades
 - SPS upgrades are based on high level topographical review for large greenfield areas, some developers may identify different servicing strategies for the large areas, which is a typical part of the detailed design process
- Darlene asked if the Eastside FM replacement with new alignment and northeast SPS should be shown on the maps
 - **GMBP and Region to review sustainability projects and decide what should be presented in the maps**
 - Northeast SPS would be a City SPS and not shown on the map

GMBP

8) Welland/Pelham

- Water
 - Updated strategy in storage and pumping
 - Combination of additional growth, triggering need for additional system looping
 - Ongoing EA for replacement of Bemis ET
 - Pelham changes are reflecting recommendations from Pelham ET EA
- Wastewater
 - Generally maintaining the same strategy
 - Dain City SPS upgrade is new as a result of substantially increased growth in the area
- Livia noted that the City is planning a second watermain on Canal Bank Street for second feed to Dain City and if there would be a new Regional connection to the W-M-014 watermain project
 - **GMBP to make note of Canal Bank Street watermain in the W-M-014 project sheet to ensure coordination for tie-in**
- Livia asked about how the Bemis ET and associated projects are shown in the MSPU
 - The MSPU includes several placeholder projects which reference the separate EAs
- Livia noted for W-M-017 that the City is currently reconstructing Patterson Street and would not want the alignment to be on Patterson.
 - MSPU timing is 2032 – 2041, depending on the recommended location of the new ET, a portion of the watermain might happen sooner
- Livia asked why the Ontario Road SPS upgrades and trunk sewer are not included in the maps and plan
 - **Region to provide direction to GMBP regarding Ontario Road SPS**

GMBP

Region

9) Closing Slides

- Continued emphasis on the importance of wet weather flow reduction
- Finalizing the presentation of costs (difference between the total MSPU program and the DC program)
- Mark asked why there are studies in the next 10 years but not in the rest of the period
 - **GMBP to review how timing is presented in the cost table, specifically with respect to studies**
- Integration of sustainability projects with the MSPU program, important to understand that continued investment is needed in the existing system to support growth

GMBP

10) Next Steps

- January 18 PIC #2
- April target timing for project filing, with minimum 30-day review
- **LAMs to provide any additional comments as soon as possible, before Dec 22**

LAMs

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F3

Regional Municipality of Niagara

APPENDIX F3

COUNCIL INVOLVEMENT

MEMORANDUM

PDS-C 29-2021

Subject: Niagara 2051 Project – Water & Wastewater Master Servicing Plan Update – Public Information Center Number 1

Date: April 14, 2021

To: Planning & Economic Development Committee

From: Phill Lambert, P. Eng, Director, Infrastructure Planning & Development Engineering

The purpose of this memo is to provide Committee & Council with an overview of the Niagara 2051 project and introduce the Notice of Commencement/Public Information Centre #1 for the Region's 2021 Water & Wastewater Master Servicing Plan Update to be available virtually on April 21, 2021. A link to the project page will be sent to Council once the project page and contents are available.

The Provincial Growth Plan forecasts an additional 214,000 people and 81,000 jobs from 2016 to 2051. With Niagara growing to 674,000 people by 2051, the alignment of growth, infrastructure and finance is crucial for proactively managing growth.

Niagara 2051 represents a coordinated approach of a number corporate projects including:

- Development Charges (DC) Background Study and By-Law
- Water & Wastewater (W&WW) Master Servicing Plan (MSP) Update
- Transportation Master Plan (TMP) Refresh
- Region Official Plan – 2051 Population & Employment Forecasts

Establishing Niagara 2051 as the overarching umbrella for the coordination of these projects is very important to ensure greater consistencies of the various project components and allows for greater public engagement. All of these studies are linked with the anticipated growth out to 2051 and required capital projects to support Niagara achieving its potential, which is then incorporated into the Development Charges Background Study. A cross-departmental team made up of the project leads meet on a regular basis to ensure integration of these projects, which includes staff from Corporate

Services, Planning & Development Services, Transportation, Water and Wastewater, Asset Management, and Communications. Staff is committed to providing Committee and Council with updates on the overall project subcomponents as milestones are reached. The following provides a brief update on these individual projects.

Development Charge Background Study & By-law

- Project consulting was awarded to Watson and Associates Economists Ltd. (Watson) in late 2020.
- Watson was lead consultant on 2017 DC background study and by-law and has significant experience in completing projects of a similar size and scope with other municipalities.
- Utilize TMP Refresher, W&WW MSP, and Growth inputs to produce DC Background Study
- Ensures that Growth pays for Growth
- First Regional Development Charge Policy Task Force (RDCPTF) meeting occurred March 25, 2021.
- Current Development Charges By-Law expires August 31, 2022

W&WW Master Servicing Plan Update

- Project consulting was awarded to GM BluePlan Engineering (GMBP) – engineering agreement signed on January 14, 2021.
- GMBP has previously lead the Regional 2016 W&WW MSP, numerous Area Municipality studies and has significant knowledge of both Regional and Municipal water distribution and wastewater collection systems including individual facilities.
- An initial kick-off meeting between GMBP and Regional staff was held on January 26, 2021.
- Key deliverable to provide W&WW capital infrastructure projects to support growth out to 2051.
- Tight timeframe to provide capital project list for DC Background Study by end of 2021.
- Multiple meetings and touch points planned with Local Municipal Partners throughout project.
- Notice of Commencement/Public Information Centre #1 to be virtually available on April 21, 2021 on project website.

Transportation Master Plan Refresh

- Request for proposal for consulting services to update Niagara Region's EMME Travel Demand Model (Activity Based) and to provide professional and technical services related to the preparation of a Transportation and Transit Background component for the 2022 Development Charges Study was issued in Q1 2021.
- The kick-off meeting for this consulting assignment is expected Q2 2021.
- Transportation will coordinate information with Watson and GMBP, and internal stakeholders including Planning and Development, Water & Wastewater Services and Communications.
- Projects identified in the approved Transportation Master Plan will undergo a DC refresh based on revised capital costs to construct. New strategic projects will also be identified and included.

Region Official Plan

As previously noted, the Region must plan to the forecasted growth set out in the Growth Plan: a minimum increase of 214,000 people and 81,000 jobs from 2016 to 2051.

All decisions of Council must conform to the Growth Plan. Thus, the coordination of growth planning through the Official Plan, the Development Charges, W&WW MSP and TMP is critical.

Planning staff are working to provide Council with a consolidated draft of the Niagara Official Plan (NOP) for adoption for the end of 2021. An important part of this process is the presentation of a Joint Consolidated report to Planning and Economic Development Committee in May 2021. That Report will provide an update on all policy sections of the NOP, and draft policies on many key sections for the NOP, including those relating to forecasted growth.

The Joint Consolidated report will provide draft growth allocations, intensification rates and greenfield density targets for the local municipalities. This growth management information will be identified in policy for discussion and comment through the summer.

A key component of growth management is the land needs assessment, which identifies the amount of land for each local municipality, amongst other things. The land needs assessment has been carefully integrated with the assessment of options for a Natural Environment System (NES) as the NES will identify in part where growth

cannot occur. The draft land needs assessment identifies which municipalities need more land for community (residential) or employment purposes.

The above growth management components will be discussed at local Council workshops and a Regional Council workshop prior to PEDC considering the Joint Consolidated report in May 2021.

Respectfully submitted and signed by

Phill Lambert, P. Eng.
Director, Infrastructure Planning & Development Engineering

A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background for the title section.

F4

Regional Municipality of Niagara

APPENDIX F4

PROVINCIAL / FEDERAL AGENCIES

From: [Stetic, Ilija](#)
To: [Del Villar Cuicas, Joan \(MECP\)](#)
Cc: [Danielle MacKinnon - GM BluePlan](#); [Potter, Katy \(MECP\)](#); [Groombridge, Kim \(MECP\)](#)
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update, Notice of Study Commencement & Public Information Centre No. 1
Date: Thursday, May 20, 2021 12:38:53 PM
Attachments: [image002.jpg](#)

Thank you Joan,
We will take this into consideration.
Ilija

From: Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>
Sent: Thursday, May 20, 2021 11:55 AM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: Danielle.MacKinnon@gmblueplan.ca; Potter, Katy (MECP) <Katy.Potter@ontario.ca>; Groombridge, Kim (MECP) <Kim.Groombridge@ontario.ca>
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update, Notice of Study Commencement & Public Information Centre No. 1

CAUTION: This email originated from outside of the Niagara Region email system. Use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

Good afternoon Ilija,
Please see attached Acknowledgement letter and attachments.
Thanks,
Joan

Joan Del Villar Cuicas

Environmental Resource Planner & Environmental Assessment Coordinator
Project Review Unit | Environmental Assessment Branch
[Ontario Ministry of the Environment, Conservation and Parks](#)
Joan.delvillarcuicas@ontario.ca | Phone: 365-889-1180

From: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>
Sent: April 8, 2021 8:56 AM
To: EA Notices to WCRegion (MECP) <eanotification.wcregion@ontario.ca>
Cc: Stetic, Ilija <ilija.Stetic@niagararegion.ca>; Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>

Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update, Notice of Study Commencement & Public Information Centre No. 1

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Dear Sir/Madam,

The Regional Municipality of Niagara has initiated the **2021 Water & Wastewater Master Servicing Plan Update**. Please find attached the combined Notice of Study Commencement & Public Information Centre No. 1 as well as the completed MECP Project Information Form for your review. When available, please provide a list of Indigenous communities to be consulted in this Niagara

Region wide study. Furthermore, please advise if we should include additional MECP contacts in our current stakeholder list.

Due to the current health situation, we are encouraging stakeholders to reach out via phone or email. Should you have any questions regarding this study, please contact the Niagara Region Project Manager: Ilija Stetic (ilija.stetic@niagararegion.ca).

Sincerely,

Danielle MacKinnon, P. Eng.

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

c: 416.859.5840

danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



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Ministry of the Environment,
Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto [ON M4V 1P5](#)
Tel.: 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la
Protection de la nature et des Parcs

*Direction des évaluations
environnementales*

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto [ON M4V 1P5](#)
Tél. : 416 314-8001
Téléc. : 416 314-8452



May 20, 2021

Ilija Stetic
Niagara Region

Re: **Niagara Region 2021 Water and Wastewater Master Servicing Plan Update
Niagara Region
Municipal Class EA
Response to Notice of Commencement**

Dear Ilija Stetic,

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the Niagara Region has indicated that the study is following the approved environmental planning process for a Water and wastewater Servicing Plan Update project under the Municipal Class Environmental Assessment (Class EA).

The **updated (February 2021)** attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. **Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.**

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information provided to date and the Crown's preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Mississaugas of the Credit First Nation
- Six Nations of the Grand River (both Elected Council and Haudenosaunee Confederacy Chiefs Council)

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "[Code of Practice for Consultation in Ontario's Environmental Assessment Process](#)". Additional information related to Ontario's Environmental Assessment Act is available online at: www.ontario.ca/environmentalassessments.

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information, including the MECP's expectations for EA report documentation related to consultation with communities.

The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right
- Consultation with Indigenous communities or other stakeholders has reached an impasse
- A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.

Please also ensure a copy of the final notice is sent to the ministry's West Central Region EA notification email account (eanotification.swregion@ontario.ca) after the draft report is reviewed and finalized.

Should you or any members of your project team have any questions regarding the material above, please contact me at joan.delvillarcuicas@ontario.ca or 365-889-1189.

Yours truly,



Joan Del Villar C
Regional Environmental Assessment Coordinator – West Central Region

cc Katy Potter, Supervisor, Environmental Assessment Services, MECP
Kim Goombridge, Niagara District Manager, MECP
Danielle MacKinnon – Infrastructure Planning, GM BluePlan

Attach: Areas of Interest
A Proponent's Introduction to the Delegation of Procedural Aspects of Consultation with
Aboriginal Communities

AREAS OF INTEREST (v. February 2021)

It is suggested that you check off each section after you have considered / addressed it.

☐ **Planning and Policy**

- Projects located in MECP Central Region are subject to [A Place to Grow: Growth Plan for the Greater Golden Horseshoe \(2020\)](#). Parts of the study area may also be subject to the [Oak Ridges Moraine Conservation Plan \(2017\)](#), [Niagara Escarpment Plan \(2017\)](#), [Greenbelt Plan \(2017\)](#) or [Lake Simcoe Protection Plan \(2014\)](#). Applicable plans and the applicable policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
- The [Provincial Policy Statement \(2020\)](#) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

☐ **Source Water Protection**

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable

areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**
 - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.
 - If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: <http://www.applications.ene.gov.on.ca/swp/en/index.php>. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the “Map Legend” bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to [Conservation Ontario's website](#) where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in [section 1.1 of Ontario Regulation 287/07](#) made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional “local” threat activities, as approved by the MECP.

□ **Climate Change**

The document "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide) is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

• **The MECP expects proponents of Class EA projects to:**

1. Consider during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

□ **Air Quality, Dust and Noise**

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
 - A discussion of potential mitigation measures.
- As a common practice, “air quality” should be used as an evaluation criterion for all road projects.

- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to [*Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities*](#) report prepared for Environment Canada. March 2005.
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

☐ **Ecosystem Protection and Restoration**

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
 - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
 - Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
 - Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

☐ **Species at Risk**

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at <https://www.ontario.ca/page/species-risk>.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.
- For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

☐ **Surface Water**

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.

- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.
- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

□ **Groundwater**

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – O. Reg. 63/16. These prescribed water-taking activities

require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information.

- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

☐ **Excess Materials Management**

- In December 2019, MECP released a new regulation under the Environmental Protection Act, titled “[On-Site and Excess Soil Management](#)” (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don’t go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit <https://www.ontario.ca/page/handling-excess-soil>.
- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP’s current guidance document titled “[Management of Excess Soil – A Guide for Best Management Practices](#)” (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

☐ **Contaminated Sites**

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the [MECP’s D-4 guideline](#) for land use considerations near landfills and dumps.
 - Resources available may include regional/local municipal official plans and data; provincial data on [large landfill sites](#) and [small landfill sites](#); Environmental Compliance Approval information for waste disposal sites on [Access Environment](#).
- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada’s [website](#)).
- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry’s Spills Action Centre must be contacted in such an event.
- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

☐ **Servicing, Utilities and Facilities**

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's [environmental land use planning guides](#) to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

☐ **Mitigation and Monitoring**

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.
- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

☐ **Consultation**

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).
- Please include the full stakeholder distribution/consultation list in the documentation.

☐ **Class EA Process**

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. **The Master Plan should clearly indicate the selected approach for conducting the plan**, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the Environmental Assessment Act, although the plan itself would not

be. **Please include a description of the approach being undertaken (use Appendix 4 as a reference).**

- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.
- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.
- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

Amendments to the EAA through the Covid-19 Economic Recovery Act, 2020

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address (for projects in MECP Southwest Region, the email is eanotification.swregion@ontario.ca).

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Part II Order requests on those matters should be addressed in writing to:

Minister Jeff Yurek
Ministry of Environment, Conservation and Parks

777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and

Director, Environmental Assessment Branch
Ministry of Environment, Conservation and Parks
135 St. Clair Ave. W, 1st Floor
Toronto ON, M4V 1P5
EABDirector@ontario.ca

A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

DEFINITIONS

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown – the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. PURPOSE

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. WHY IS IT NECESSARY TO CONSULT WITH ABORIGINAL COMMUNITIES?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. THE CROWN'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. THE PROPONENT'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the

proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;

- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. WHAT ARE THE ROLES AND RESPONSIBILITIES OF ABORIGINAL COMMUNITIES' IN THE CONSULTATION PROCESS?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigate any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. WHAT IF MORE THAN ONE PROVINCIAL CROWN MINISTRY IS INVOLVED IN APPROVING A PROPONENT'S PROJECT?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.



Hydro One Networks Inc
483 Bay St
Toronto, ON

May 13, 2021

Re: 2021 Water & Wastewater Master Servicing Plan Update

Attention:
Ilija Stetic,
Project Manager

Thank you for sending us notification regarding (2021 Water & Wastewater Master Servicing Plan Update). In our preliminary assessment, we have confirmed that Hydro One has existing high voltage Transmission facilities within your study area (see map attached). At this time we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

In addition to the existing infrastructure mentioned above, the applicable transmission corridor may have provisions for future lines or already contain secondary land uses (e.g., pipelines, watermains, parking). Please take this into consideration in your planning.

Also, we would like to bring to your attention that should (2021 Water & Wastewater Master Servicing Plan Update) result in a Hydro One station expansion or transmission line replacement and/or relocation, an Environmental Assessment (EA) will be required as described under the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016). This EA process would require a minimum of 6 months for a Class EA Screening Process (or up to 18 months if a Full Class EA were to be required) to be completed. Associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code. If triggered, Hydro One will rely on studies completed as part of the EA you are current undertaking.

Consulting with Hydro One on such matters during your project's EA process is critical to avoiding conflicts where possible or, where not possible, to streamlining processes (e.g., ensuring study coverage of expansion/relocation areas within the current EA). Once in receipt of more specific project information regarding the potential for conflicts (e.g., siting, routing), Hydro One will be in a better position to communicate objections or not objections to alternatives proposed.

If possible at this stage, please formally confirm that Hydro One infrastructure and associated rights-of-way will be completely avoided, or if not possible, allocate appropriate lead-time in your project schedule to collaboratively work through potential conflicts with Hydro One, which ultimately could result in timelines identified above.

In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction activities must maintain the electrical clearance from the transmission line conductors as specified in the Ontario Health and Safety Act for the respective line voltage.

Be advised that any changes to lot grading or drainage within, or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

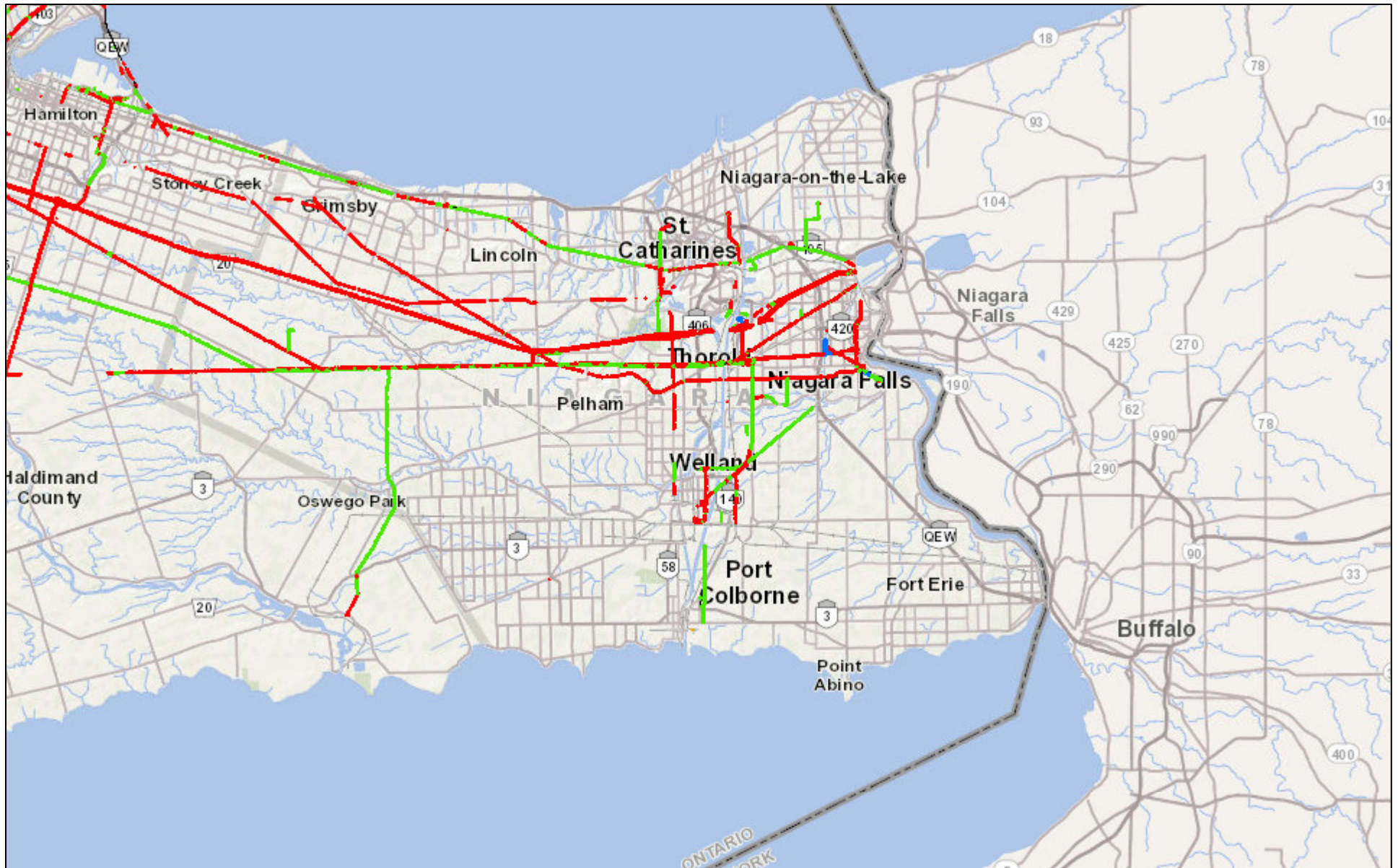
Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

We reiterate that this message does not constitute any form of approval for your project. Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com

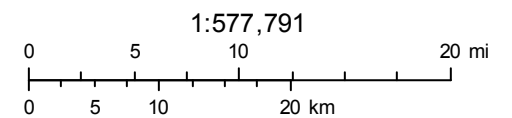
Sent on behalf of,

***Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.***

Landscape PDF



May 12, 2021



Alice Lin - GM BluePlan

From: Palin Rokosh, Dawn (MMAH) <Dawn.Palin.Rokosh@ontario.ca>
Sent: Tuesday, April 13, 2021 4:30 PM
To: Danielle MacKinnon - GM BluePlan
Subject: Automatic reply: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Thank you for your message. Please note the following changes relating to this e-mail account:

Effective Monday, August 31st, I have moved to a new role as Director of Operations in the secretariat supporting the Long-Term Care Commission. My new email address is: Dawn.PalinRokosh@LTCcommission-CommissionSLD.ca

If your message is related to the Municipal Programs and Analytics Branch, please contact A/Director Helen Collins at Helen.Collins@ontario.ca

Have a wonderful day,
Dawn

Alice Lin - GM BluePlan

From: MNRF Ayl Planners (MNRF) <MNRF.Ayl.Planners@ontario.ca>
Sent: Thursday, April 15, 2021 2:32 PM
To: niagaramspu@niagararegion.ca
Cc: Danielle MacKinnon - GM BluePlan
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1
Attachments: image001.wmz; NHGuide_MNRF_2019-04-01.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Ministry of Natural Resources
Ministère des Richesses
Resources and Forestry naturelles et des Forêts



April 15, 2021
Niagara Region Project Manager
Ilija Stetic
niagaramspu@niagararegion.ca

Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

The Ministry of Natural Resources and Forestry (MNRF) received the below notice for the Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update. Thank you for circulating this information to our office, however, please note that we have not completed a screening of natural heritage or other resource values for the project at this time. Please also note that it is your responsibility to be aware of and comply with all relevant federal or provincial legislation, municipal by-laws or other agency approvals.

This response provides information to guide you in identifying and assessing natural features and resources as required by applicable policies and legislation, and engaging with the MNRF for advice as needed.

Natural Heritage & Endangered Species Act

In order to provide the most efficient service possible, the attached Natural Heritage Information Request Guide has been developed to assist you with accessing natural heritage data and values from convenient online sources.

It remains the proponent's responsibility to complete a preliminary screening for each project, to obtain available information from multiple sources, to conduct any necessary field studies, and to consider any potential environmental impacts that may result from an activity. We wish to emphasize the need for the proponents of development activities to complete screenings prior to contacting the Ministry or other agencies for more detailed technical information and advice.

The Ministry continues to work on updating data housed by Land Information Ontario and the Natural Heritage Information Centre, and ensuring this information is accessible through online resources. Species at risk data is regularly being updated. To ensure access to reliable and up to date information, please contact the Ministry of the Environment, Conservation and Parks at

SAROntario@ontario.ca.

Petroleum Wells & Oil, Gas and Salt Resource Act

There may be petroleum wells within the proposed project area. Please consult the Ontario Oil, Gas and Salt Resources Library website (www.ogsrlibrary.com) for the best known data on any wells recorded by MNRF. Please reference the 'Definitions and Terminology Guide' listed in the publications on the Library website in order to better understand the well information available. Any oil and gas wells in your project area are regulated by the *Oil, Gas and Salt Resource Act*, and the supporting regulations and operating standards. If any unanticipated wells are encountered during development of the project, or if the proponent has questions regarding petroleum operations, the proponent should contact the Petroleum Operations Section at POSRecords@ontario.ca or 519-873-4634.

Public Lands Act & Lakes and Rivers Improvement Act

Some projects may be subject to the provisions of the *Public Lands Act* or the *Lakes and Rivers Improvement Act*. Please review the information on MNRF's web pages provided below regarding when an approval is required or not. Please note that many of the authorizations issued under the *Lakes and Rivers Improvement Act* are administered by the local Conservation Authority.

- For more information about the *Public Lands Act*: <https://www.ontario.ca/page/crown-land-work-permits>
- For more information about the *Lakes and Rivers Improvement Act*: <https://www.ontario.ca/document/lakes-and-rivers-improvement-act-administrative-guide>

After reviewing the information provided, if you have not identified any of MNRF's interests stated above, there is no need to circulate any subsequent notices to our office.

If you have any questions or concerns, please feel free to contact me.

Sincerely,

Karina

Karina Černiavskaja, District Planner

Ministry of Natural Resources and Forestry

Email: MNRF.Ayl.Planners@ontario.ca



As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats.

From: Verhaeghe, Tammy (MNRF) <Tammy.Verhaeghe@ontario.ca>

Sent: April 13, 2021 4:32 PM

To: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>

Cc: niagaramspu@niagararegion.ca; Wilson, Mitch (MNRF) <mitch.wilson@ontario.ca>

Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Hi Danielle,

I want to thank you for reaching out and advise you that I am presently acting in another role in our ministry. By way of this email, I am connecting you with Mitch Wilson the District Manager for Guelph District.

Best of luck,

Tammy

a/Renewal Planning Manager, Recovery and Renewal Secretariat

[Phone: 519.994.4922]

Visit the MNRF Recovery and Renewal [Intranet Site!](#)

Please Note: As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats.

From: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>

Sent: April 13, 2021 4:29 PM

Cc: niagaramspu@niagararegion.ca

Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

To Whom it May Concern,

The Regional Municipality of Niagara has initiated the 2021 Water & Wastewater Master Servicing Plan Update. Please find attached the combined Notice of Study Commencement & Public Information Centre No. 1.

Public Information Centre No. 1 Details:

A recorded video and information regarding this project will be made available on the project website

(<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>) beginning **Wednesday, April 21, 2021**. This will be followed with a two-week period to submit PIC No. 1 related comments to the Project Team.

Due to the current health situation, we are encouraging stakeholders to reach out via phone or email. Should you have any questions regarding this study, please contact the Niagara Region Project Manager: Ilija Stetic (niagaramspu@niagararegion.ca).

Sincerely,

Danielle MacKinnon, P. Eng.

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

c: 416.859.5840

danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



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Alice Lin - GM BluePlan

From: Verhaeghe, Tammy (MNRF) <Tammy.Verhaeghe@ontario.ca>
Sent: Tuesday, April 13, 2021 4:32 PM
To: Danielle MacKinnon - GM BluePlan
Cc: niagaramspu@niagararegion.ca; Wilson, Mitch (MNRF)
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Hi Danielle,

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Tammy

a/Renewal Planning Manager, Recovery and Renewal Secretariat
[Phone: 519.994.4922]

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Sent: April 13, 2021 4:29 PM
Cc: niagaramspu@niagararegion.ca
Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

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Sincerely,

Danielle MacKinnon, P. Eng.
Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3
c: 416.859.5840

danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



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Alice Lin - GM BluePlan

From: Danielle MacKinnon - GM BluePlan
Sent: Wednesday, April 14, 2021 8:50 AM
To: Morse, Philip (MTO)
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Good morning Philip,

Thank you for your email and interest in this project. I will ensure you are added to our contact list.

Regards,

Danielle MacKinnon, P. Eng.
Infrastructure Planning

GM BluePlan Engineering Limited
Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3
c: 416.859.5840
danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



From: Morse, Philip (MTO) <Philip.Morse@ontario.ca>
Sent: Wednesday, April 14, 2021 8:27 AM
To: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>
Cc: niagaramspu@niagararegion.ca
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Hi Danielle,

I am with the Project Delivery Office of MTO's Transportation Infrastructure Management Division (TIMD). I will be the MTO contact for this initiative. Would you please include my name in your communications list?

Regards,

Philip Morse P.Eng

Project Delivery – Hamilton/Niagara
Philip.morse@ontario.ca
(416) 565-7045

From: Weng, Xin (MTO) <Xin.Weng@ontario.ca>
Sent: April 13, 2021 5:14 PM
To: Morse, Philip (MTO) <Philip.Morse@ontario.ca>
Subject: FW: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Hi Philip,

Can you please be the MTO contact for this Region's initiative? If you're okay, please contact Danielle.

Thanks,

Xin

From: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>

Sent: April 13, 2021 4:29 PM

Cc: niagaramspu@niagararegion.ca

Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

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Public Information Centre No. 1 Details:

A recorded video and information regarding this project will be made available on the project website (<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>) beginning **Wednesday, April 21, 2021**. This will be followed with a two-week period to submit PIC No. 1 related comments to the Project Team.

Due to the current health situation, we are encouraging stakeholders to reach out via phone or email. Should you have any questions regarding this study, please contact the Niagara Region Project Manager: Ilija Stetic (niagaramspu@niagararegion.ca).

Sincerely,

Danielle MacKinnon, P. Eng.

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

c: 416.859.5840

danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



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Alice Lin - GM BluePlan

From: ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>
Sent: Wednesday, April 14, 2021 10:05 AM
To: Danielle MacKinnon - GM BluePlan
Cc: niagaramspu@niagararegion.ca
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

Greetings,

Thank you for your correspondence. **Please remove Transport Canada contact Monique Mousseau from your mailing list and send all future Class EA/Masterplan correspondence to EnviroOnt@tc.gc.ca.**

Please note Transport Canada **does not** require receipt of all individual or Class EA related notifications. We are requesting project proponents self-assess if their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at www.tbs-sct.gc.ca/dfrp-rbif/; and
2. Will require approval and/or authorization under any Acts administered by Transport Canada* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project, will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 82 of the *Impact Assessment Act, 2019*.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded *electronically* to: EnviroOnt@tc.gc.ca with a **brief description of Transport Canada's expected role**.

*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- **Canadian Navigable Waters Act (CNWA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863.
- **Railway Safety Act (RSA)** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985.
- **Transportation of Dangerous Goods Act (TDGA)** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868.
- **Aeronautics Act** – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. The *Land Use In The Vicinity of Aerodromes* publication recommends guidelines for and uses in the vicinity of aerodromes, available at:

<https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Enquires can be directed to tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

Environmental Assessment Program, Ontario Region

Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5

EnviroOnt@tc.gc.ca / Facsimile : (416) 952-0514 / TTY: 1-888-675-6863

Programme d'évaluation environnementale, Région de l'Ontario

Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5

EnviroOnt@tc.gc.ca / télécopieur: (416) 952-0514

From: Danielle MacKinnon - GM BluePlan [<mailto:Danielle.MacKinnon@gmblueplan.ca>]

Sent: Tuesday, April 13, 2021 4:29 PM

Cc: niagaramspu@niagararegion.ca

Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Commencement & Public Information Centre 1

To Whom it May Concern,

The Regional Municipality of Niagara has initiated the 2021 Water & Wastewater Master Servicing Plan Update. Please find attached the combined Notice of Study Commencement & Public Information Centre No. 1.

Public Information Centre No. 1 Details:

A recorded video and information regarding this project will be made available on the project website

(<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>) beginning **Wednesday, April 21, 2021**. This will be followed with a two-week period to submit PIC No. 1 related comments to the Project Team.

Due to the current health situation, we are encouraging stakeholders to reach out via phone or email. Should you have any questions regarding this study, please contact the Niagara Region Project Manager: Ilija Stetic (niagaramspu@niagararegion.ca).

Sincerely,

Danielle MacKinnon, P. Eng.

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

c: 416.859.5840

danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



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A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background for the lower half of the page.

F5

Regional Municipality of Niagara

APPENDIX F5

PUBLIC STAKEHOLDERS

Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Friday, April 16, 2021 3:31 PM
To: Danielle MacKinnon - GM BluePlan
Subject: FW: PIC#1 Water and Wastewater Master Servicing Plan Update

Hi Danielle,

Just wanted to share this with you.

Ilija

From: [REDACTED]
Sent: Wednesday, April 14, 2021 2:52 PM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: PIC#1 Water and Wastewater Master Servicing Plan Update

Hello Ilija

Please add me to the study mailing list and keep me informed of future plans.

Thankyou.

Best Regards

[REDACTED]
Welland, Ont [REDACTED]

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Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Monday, April 19, 2021 4:59 PM
To: [REDACTED]
Subject: RE: Water and wastewater service plan

Thank you for your note.

This would be a good practice if the wastewater treatment plants, and therefore their treated discharge, were located at an elevation higher than the vineyards. Since the situation is the opposite in Niagara, pumping of the effluents would need to be planned for and all associated pumping cost with distribution would need to be accounted for. This could make the project not economically feasible.

However, this is something that the project team can review in more details. Thank you for bringing it to our attention.

Regards,

Ilija Stetic, B.Sc., C.E.T., PMP

W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

www.niagararegion.ca

From: [REDACTED]
Sent: Sunday, April 18, 2021 3:56 PM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: Water and wastewater service plan

Good morning.

I was reading on the weekend the public notice on Water and Wastewater Servicing Plan.

For consideration, have you thought about redistributing the treated wastewater to the vineyards and orchards for irrigation? There are many schemes in the world where this happens.

It is my belief that with Global warming, irrigation will be needed by the vineyards and orchards to augment soil/plant moisture levels.

It would be a great CSR initiative.

Regards, PK

Executive VP - Operations / [REDACTED]

[REDACTED] Niagara Falls, Ontario [REDACTED]



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Alice Lin - GM BluePlan

From: Danielle MacKinnon - GM BluePlan
Sent: Tuesday, April 27, 2021 8:54 AM
To: Emily Linschoten - GM BluePlan
Subject: FW: Sign up for Project Updates

Danielle MacKinnon, P. Eng.
Infrastructure Planning

GM BluePlan Engineering Limited
Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3
c: 416.859.5840
danielle.mackinnon@gmblueplan.ca | www.gmblueplan.ca



From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Tuesday, April 27, 2021 8:54 AM
To: Danielle MacKinnon - GM BluePlan <Danielle.MacKinnon@gmblueplan.ca>
Subject: FW: Sign up for Project Updates

Hi Danielle,

Here is one more interested party for the updates.

Ilija

From: [REDACTED]
Sent: Monday, April 26, 2021 5:09 PM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: Sign up for Project Updates

Hello, Please sign me up for this list.

[REDACTED]
[REDACTED]
[REDACTED]
Woodbridge, Ontario, [REDACTED]
[REDACTED]
[REDACTED]

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received this communication in error, please re-send this communication to the sender and permanently delete the original and any copy of it from your computer system. Thank you.

Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Tuesday, May 04, 2021 1:46 PM
To: [REDACTED] Niagara MSPU
Cc: [REDACTED] Danielle MacKinnon - GM BluePlan; Gabel, Richard; Lambert, Phill; Richard.Pinder
Subject: RE: QQR Comments on Master Servicing Plan Update

Dear Mr. Deruyter,

Thank you for your interest in the 2021 MSPU. Your concerns will be shared and discussed with the project team.

Sincerely,

Ilija Stetic, B.Sc., CET, PMP
W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services
Niagara Region

www.niagararegion.ca

From: [REDACTED]
Sent: Friday, April 30, 2021 1:09 PM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Cc: [REDACTED]
Subject: QQR Comments on Master Servicing Plan Update

Good afternoon,

On behalf of Queenston Quarry Reclamation Company, please find attached our comments on the Region's 2021 Water and Wastewater Master Servicing Plan Update.

We would ask that the Region please keep us notified of future meetings and consultation opportunities regarding this project.

If you have any questions, please let us know.

Thanks

Neal

[REDACTED]

MHBC Planning, Urban Design & Landscape Architecture

540 Bingemans Centre Drive, Suite 200 | Kitchener | ON | N2B 3X9 | T 519 576 3650 X 733 | F 519 576 0121 | C 519 841 4011 | nderuyter@mhbcplan.com

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April 30, 2021

Ilija Stetic
Project Manager
Water and Wastewater Services Division
Niagara Region
1815 Sir Isaac Brock Way, PO Box 1042
Thorold, ON L2V 4T7

Dear Ilija Stetic:

**RE: Queenston Quarry – 5523 Townline Road, Town of Niagara-on-the-Lake
Comments on 2021 Water & Wastewater Master Servicing Plan Update
OUR FILE 07109A**

On behalf of our client, Queenston Quarry Reclamation Company Ltd. (QQR), we provide the following comments on the Region's Water & Wastewater Master Servicing Plan Update.

QQR purchased the Queenston Quarry lands in 2008 which are approximately 105 ha in size. Our client has been involved in a long-term process to redevelop the quarry and brownfield site for a range of residential, commercial, recreational and agricultural uses.

To preface our comments on the Master Servicing Plan Update, it is important to understand the history and recent planning approvals that apply to the Queenston Quarry.

In 2009, QQR applied for amendments to the Region's and Town's Official Plans to revise the location of the St. David's urban area boundary on the site (12.14 ha) and to permit a golf course, winery and other uses outside the urban area.

In 2011, the Region adopted Amendment 1-2009 and approved Town OPA 45 to "*permit the redevelopment of the former Queenston Quarry for a mix of land uses include residential, a hotel, vineyard, winery, wine storage caves, golf course, clubhouse and other recreational uses*". Lands outside urban area were redesignated from Unique Agricultural Area to Rural Area in the Region's Official Plan.

In 2012, the Ontario Municipal Board approved the Region and Town Official Plan Amendments which were initially appealed by Niagara Escarpment Commission to achieve wording clarifications. The effect of this approval is that the in-effect policies permit substantial residential development within the urban area portion of the site.

In 2015 as part of the Coordinated Land Use Planning Review, QQR submitted a request to the Province and NEC to redesignate the Escarpment Rural Area lands to Escarpment Recreation Area in

the Niagara Escarpment Plan to permit the redevelopment of the quarry for commercial and recreation uses and to allow a connection to municipal services. No changes were sought to the existing urban area or its related policies.

In 2017, the Province through an Order-in-Council approved the amendment to the Niagara Escarpment Plan to redesignate the site to Escarpment Recreation Area (please see enclosed NEP map). This approval included a site-specific policy that allows the entire site to be connected to municipal services subject to an agreement with the Region (further discussed below).

In 2018, the NEC conditionally approved a Development Permit Application for lands in the urban area to construct 60 townhouse units and a 25-unit manor house along Townline Road, and 750 residential condominium units in 7 blocks and a 200-room hotel on the quarry floor. Our client is in the process of fulfilling the detailed design conditions and will be seeking site plan approval from the Town shortly (please see enclosed high-level site plan).

In summary, 12.14 ha of the Queenston Quarry is located in the St. Davids urban area which currently permits substantial residential development including medium and high density uses. The 93 ha of land outside the urban area are designated Escarpment Recreation Area in the Niagara Escarpment Plan to permit the redevelopment of the lands outside the urban area for commercial and recreational uses.

We understand that the Master Servicing Plan Update will identify and develop a long-term water and wastewater servicing strategy and capital forecast to support future growth in the Region to 2051.

We would ask that the Region consider the redevelopment of the Queenston Quarry lands through this important exercise. Specifically, the existing approvals that allow substantial residential development within the urban area should be accounted for. In addition, the entire site including lands outside the urban area may be connected to municipal services based on Section 2.2.20 d) of the Niagara Escarpment Plan:

Following the surrender of the quarry licence as referred to in a) above, all or part of the lands may be permitted to connect to municipal servicing subject to compliance with all other relevant policies of this Plan and the approval of such servicing by the Region of Niagara. (NEP, 2.2.20 d)

It is important to understand that Queenston Quarry is the only site within the Region that is designated "Escarpment Recreation Area". The policy quoted above is specific to the Queenston Quarry lands only.

Queenston Quarry was and continues to be a unique opportunity to transform a quarry and industrial site to a leading recreational, tourism and accommodation destination in the Town and Region. The ability to service the entirety of the Queenston Quarry with municipal services is paramount to realizing this opportunity as permitted by the Niagara Escarpment Plan.

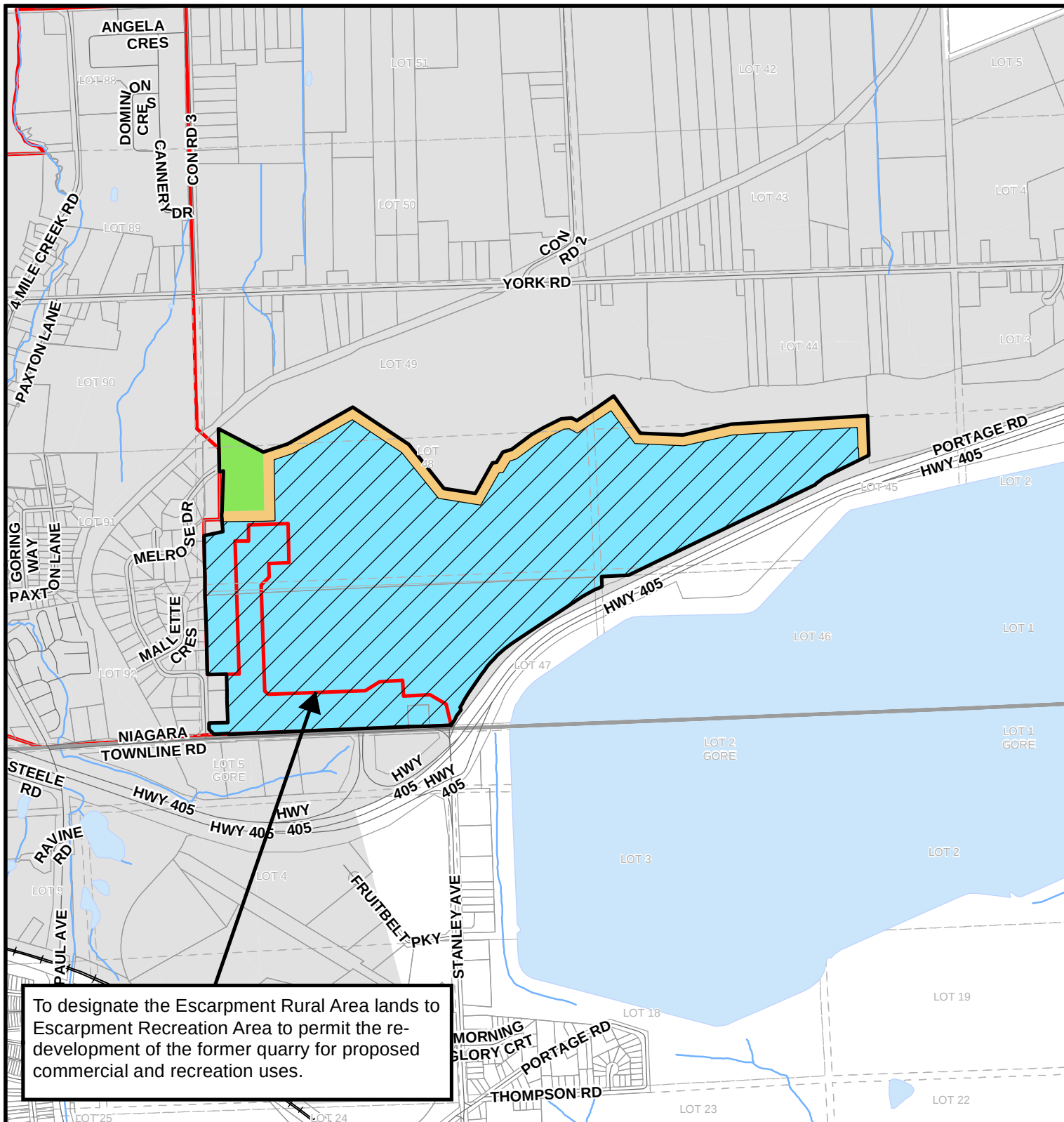
If you have any questions, please let us know.

Yours truly,
MHBC



Encl.

cc. [REDACTED] *Niagara Region*
[REDACTED] *QRC*



To designate the Escarpment Rural Area lands to Escarpment Recreation Area to permit the re-development of the former quarry for proposed commercial and recreation uses.

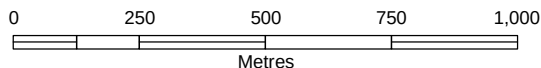
SCHEDULE A MAP SHOWING AMENDMENT UA 05

- Subject Property
- Escarpment Natural Area
- Niagara Escarpment Plan Area
- Amendment Area
- Escarpment Protection Area
- Escarpment Recreation Area
- Minor Urban Centre

The Niagara Escarpment Plan Designations shown on this map are approximate and subject to confirmation through site inspection and the application of the "Interpretation of Boundaries" section of the Niagara Escarpment Plan.

This map is not a legal document and may contain errors or omissions.

© 2015 Queen's Printer for Ontario

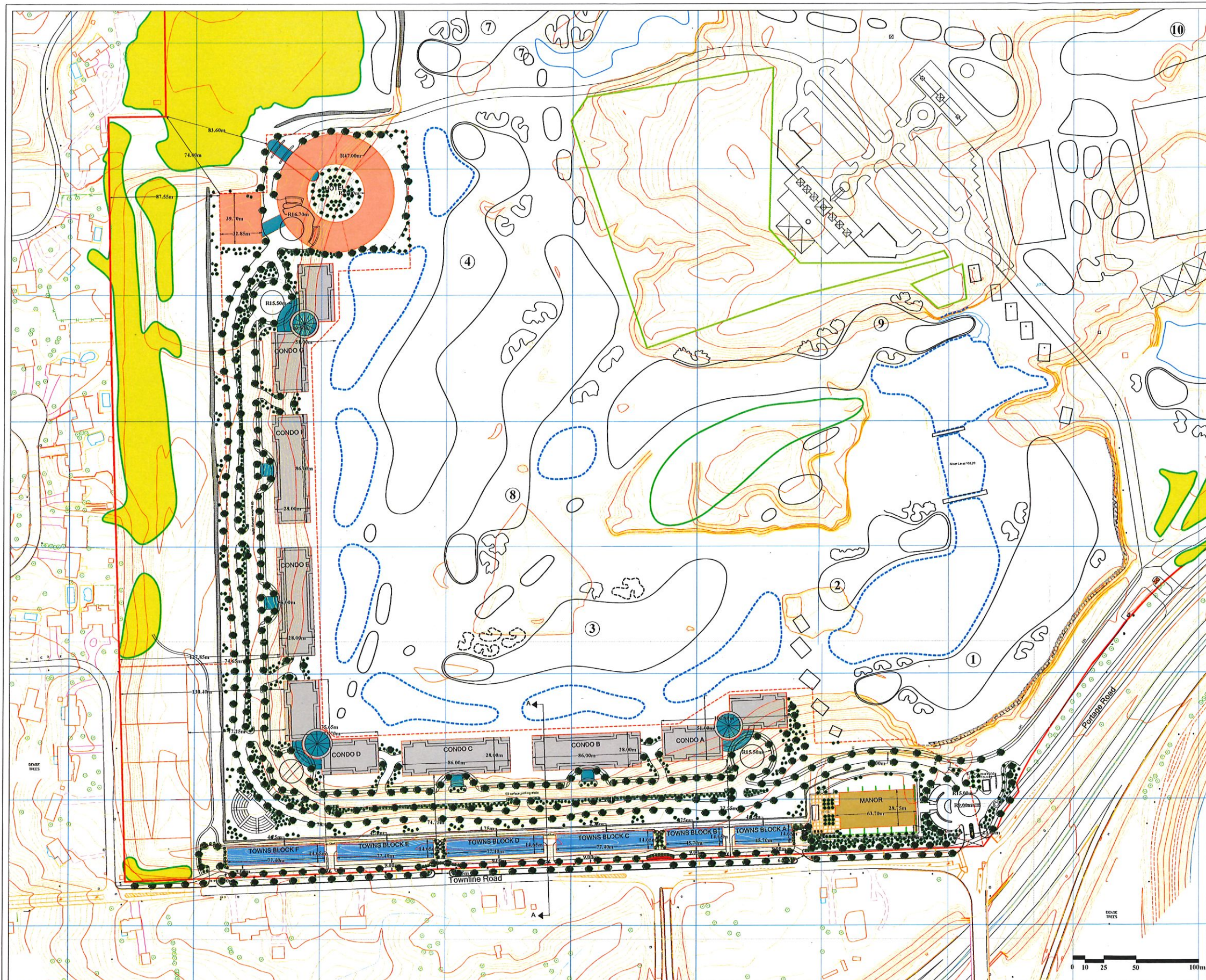


January 26, 2017



SOURCE:
Base derived from the Ontario Digital Topographic Database, Scale 1:10000

Map Compiled and Produced by the Geographic Information Systems (GIS) Department of the Niagara Escarpment Commission, Ministry of Natural Resources and Forestry



Queenston Quarry Reclamation Company

Urban Lands Site Plan

Danoff Golf Design Inc. / August 8, 2016
Town of Niagara-on-the-Lake, Ontario, Canada



Scale 1:1000

Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Tuesday, May 04, 2021 2:01 PM
To: [REDACTED]
Cc: Danielle MacKinnon - GM BluePlan
Subject: Re: Water and Wastewater Master Servicing Plan - PIC 1 Comments

Dear Mr. [REDACTED]

Thank you for your interest in the 2021 Water Wastewater MSPU. Your comments will be shared with the project team, discussed and our response will be posted on the project web site

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>

Sincerely,

Ilija Stetic, B.Sc., CET, PMP

W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services
Niagara Region

www.niagararegion.ca

name
[REDACTED]

phone
[REDACTED]

email
[REDACTED]

municipality
pelham

Comments 1. When looking at 'Future' infrastructure requirements, has it been decided where future development will be directed? 2. In the past there has been, basically no recognition by the 'Planning Fraternity' when/where future development/housing could be located. So have the 'Regional' planners been in contact with the planners of the 'Area Municipalities' to identify areas where Future development could/should be encouraged? 3. In the past the Planning Act has limited capacity improvements to Municipally owned assets to a 20 years. In my opinion this is short sighted, when existing infrastructure requires upgrading, such as a water Treatment and/or Pollution Control Plants, property acquisition should be based on a 100+ year life expectancy. So under the Class EA nature of the current study, can the foregoing be 20-100+ year life expectancy be recognized? This becomes

very important if existing Water Treatment and/or Pollution Control facilities require additional land to satisfy demand / treatment for future development. 4. I recognize that the update of the Regional Niagara Official Plan is probably the driving force for the update for this study. I also recognize that the Province wants the Region of Niagara to look like the Regions of Peel and Halton within 100 years, basically one large urban Municipality. Niagara currently, is a largely a Rural municipality with Urban pockets, some small like North Pelham, Ridgeville, in the Town of Pelham, and Cities like St. Catharines, Welland, Niagara Falls and Port Colborne which at the moment have defined urban and rural areas. Can we continue to invest in underground infrastructure necessary to service the out laying urban areas of Niagara, or not? I hope this study will get to the point where we limit servicing to preserve our Rural Urban Mix. As usual the Planners want the Engineers to rationalize their Goals - increase Urbanization at Higher densities, neglecting adverse social factors such over crowding creates. The Region and the Area Municipalities have huge \$ invested in existing above and below ground infrastructure, much of which is nearing its end of life, requiring major rehabilitation and/or replacement over the next 30 years. The projects identified in this update should/will, I hope, identify all projects both Municipal and Regional to maintain the integrity of existing and 'Growth' related Water Treatment/Delivery and Pollution Collection/Control Infrastructure Systems.

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Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Tuesday, May 04, 2021 1:55 PM
To: Danielle MacKinnon - GM BluePlan
Subject: FW: Sign-up for Project Updates

For their Update.

Ilija

From: Malcolm McRae <malcolm.mcrae@vale.com>
Sent: Sunday, May 2, 2021 10:00 AM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: Sign-up for Project Updates

Please include:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Thank you.

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Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Tuesday, May 04, 2021 1:54 PM
To: [REDACTED]
Cc: Danielle MacKinnon - GM BluePlan
Subject: RE: PIC 1 Questions and Comments

Dear Mr. [REDACTED]

Thank you for your interest and questions regarding the 2021 MSPU. The project team will try to answer the questions and post the answers on the project web site

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>

Sincerely,

Ilija Stetic, B.Sc., CET, PMP

W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services
Niagara Region

www.niagararegion.ca

From: [REDACTED]
Sent: Sunday, May 2, 2021 9:58 AM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: PIC 1 Questions and Comments

- 1) For the Baker road site, has an alternative site been considered and evaluated and if not why not ? Given the residential nature of its location and the obvious need for expansion.
- 2) For the Baker road site, how will it expand capacity given the limited footprint of the site ? will the proposed expansion be process based or require addition footprint expansion ?
- 3) How will odor suppression and overflow be managed and considered in any expansion plans ? Have impact studies been performed yet and if so are they available ?

Thank you,

[REDACTED]
[REDACTED]
[REDACTED]

Grimsby, On

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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Monday, May 31, 2021 8:23 AM
To: Danielle MacKinnon - GM BluePlan
Subject: FW: Online Form - Enquiry from Region website

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Danielle,

Here, we have interesting comments to share and address.

Ilija

From: Niagara Region Website <webmaster@niagararegion.ca>
Sent: Friday, May 28, 2021 6:33 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: webincoming <webincoming@niagararegion.ca>
Subject: Online Form - Enquiry from Region website

Enquiry from Region website

To reply, copy the email address from below and put into 'To'. (if resident entered their email address)

name

[REDACTED]

phone

[REDACTED]

email

[REDACTED]

municipality

pelham

other mun

subject

2021 Water and Wastewater Master Servicing Plan Update

comments

Sent a few comments on Phase 1, Look I spent working for Region-1972-1988 in the Approvals Section of Regional Public Works. I was Project Lead and author of the Summary/Update of the original Regional Infrastructure Study (PARC Niagara Report) in 1980's. I have continued to track Niagara's Infrastructure Improvements and Failures over 45+ years, as a Engineer working for the City of Welland (14 yrs) and Associated Engineering (10+ yrs) working with [REDACTED] So I want to know how you and your team are rationalizing the impact of higher density development on the existing Regional and Area Municipal Municipality Infrastructure? I would be happy to meet with you to offer my opinions/knowledge on these matters. So I am requesting a response to this and my previous comments. [REDACTED] (Retired)

reply

yes

Page Referrer

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>



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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Tuesday, June 01, 2021 11:02 AM
To: [REDACTED]
Cc: Danielle MacKinnon - GM BluePlan
Subject: Online Web Form

Hi Mr. [REDACTED]

Thank you for your comments. We really appreciate inputs from the homeowners across the Region and especially from subject matter experts (active and semi-active) for our mutual benefit. Our team is meeting internally to address these questions and we will be in touch soon with our response.

Sincerely,

Ilija Stetic, B.Sc., PMP

W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services
Niagara Region
Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215
www.niagararegion.ca

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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Tuesday, June 01, 2021 11:15 AM
To: nancy.mott@ontario.ca
Cc: Danielle MacKinnon - GM BluePlan
Subject: Web Form - 2021 WWW MSPU

Hi Nancy,

Thank you for your email through the Regional web form advising us about importance of contacting Niagara Escarpment Commission.

In updating the water and wastewater servicing master plan, we used four names below from the stakeholders list for information share and future consultation:

Email	David Ayotte	Niagara Escarpment Commission
Email	Michael Baran	Niagara Escarpment Commission
Email	Kim Peters	Niagara Escarpment Commission
Mail	Michael Baran	Niagara Escarpment Commission

Please, advise if there is an update to be used for the future correspondence with the Niagara Escarpment Commission's team.

Regards,

Ilija Stetic, B.Sc., PMP

W/WW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

www.niagararegion.ca

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Alice Lin - GM BluePlan

From: Niagara MSPU <niagaramspu@niagararegion.ca>
Sent: Wednesday, July 14, 2021 3:02 PM
To: [REDACTED]
Cc: Danielle MacKinnon - GM BluePlan
Subject: RE: Sign-up for Project Updates

Thank you for your interest in the Regional 2021 MSPU.

You will be added to the list.

Ilija Stetic, B.Sc., CET, PMP

WWW Project Manager, Infrastructure Planning & Development Engineering
Planning and Development Services
Niagara Region
Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215
www.niagararegion.ca

From: [REDACTED]
Sent: Tuesday, July 13, 2021 10:22 AM
To: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: Sign-up for Project Updates

Please add me to your distribution list.

[REDACTED]
Senior Project Manager, Community Development

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
Stoney Creek ON [REDACTED]



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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Wednesday, July 14, 2021 3:00 PM
To: [REDACTED]
Subject: Enquiry from Regional website - 2021 Water and Wastewater Master Servicing Plan Update

Hi [REDACTED]

Your question was about an existence of the 2021 MSP updates.

I am sorry to advise you that the project of updating the 2016 MSP started a few months ago and we are just consolidating preliminary growth numbers, which are getting developed collaboratively between the Region and its Municipal partners. This will form a base for our needs analysis and therefore, some draft updates to the 2016 MSP.

At this moment, I could only suggest that you might want to consider using the growth numbers from the Town to build on the 2016 MSP and analyze effects to the existing infrastructure to produce your FSR. The other option is to wait for the draft 2021 MSP recommendations. We could have the region-wide growth numbers presented at the PIC#2 some time in September and you could use/reference in your FSR then.

If the rest of the team has a different suggestion, I will let you know.

Regards,

Ilija

"comments

Hi Ilija, I hope you're doing well. We are currently working with the Town of Grimsby with respect to their Grimsby Beach Land Use Study. Our civil consultant has referenced the 2016 data in previous reports. However, the Town advised us to update our work to account for the master plan update. Are any drafts for the updated plan that we may be able to use/reference for our FSR work? Let me know if you have any questions. Thank you and best regards, [REDACTED]

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Alice Lin - GM BluePlan

From: Elaine Samuel - GM BluePlan
Sent: Monday, June 13, 2022 8:32 AM
To: Danielle MacKinnon - GM BluePlan
Subject: FW: Online Form - Enquiry from Region website

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Danielle,

Can you please add Peter to the Niagara MSP EA contact list?

Thanks
Elaine

Elaine Samuel, M.E.Sc., P.Eng.
(she/her)
Infrastructure Management

GM BluePlan Engineering Limited
1266 South Service Rd., Unit C31 | Stoney Creek, ON
c: 905.577.5313
elaine.samuel@gmblueplan.ca | www.gmblueplan.ca



From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Thursday, June 09, 2022 6:58 PM
To: Elaine Samuel - GM BluePlan <Elaine.Samuel@gmblueplan.ca>
Subject: Fwd: Online Form - Enquiry from Region website

Hi Elaine,
Just to add this contact to the list.

Ilija

Get [Outlook for iOS](#)

From: Niagara Region Website <webmaster@niagararegion.ca>
Sent: Thursday, June 9, 2022 3:48:26 PM
To: Ilija.Stetic@niagararegion.ca <Ilija.Stetic@niagararegion.ca>
Cc: WEBINCOMING@niagararegion.ca <WEBINCOMING@niagararegion.ca>
Subject: Online Form - Enquiry from Region website

Enquiry from Region website

To reply, copy the email address from below and put into 'To'. (if resident entered their email address)

name

[REDACTED]

phone

[REDACTED]

email

[REDACTED]

municipality

pelham

subject

2021 Water and Wastewater Master Servicing Plan Update

comments

Hello Ilija, My consulting firm is insterested in following the ongoing developments on the MSP Updates as they take place, especially in the service area of Niagara Falls. Would yo be so kind as to add me to the list to receive project updates and electronic invitations for future public information centres? Thank you, [REDACTED]
[REDACTED]

reply

yes

Page Referrer

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>



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Alice Lin - GM BluePlan

From: Elaine Samuel - GM BluePlan
Sent: Monday, June 27, 2022 10:36 AM
To: Danielle MacKinnon - GM BluePlan
Subject: FW: F.Y.I. Online Form - Enquiry from Region website

Elaine Samuel, M.E.Sc., P.Eng.
(she/her)
Infrastructure Management

GM BluePlan Engineering Limited
1266 South Service Rd., Unit C31 | Stoney Creek, ON
c: 905.577.5313
elaine.samuel@gmblueplan.ca | www.gmblueplan.ca



From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Monday, June 27, 2022 10:35 AM
To: Elaine Samuel - GM BluePlan <Elaine.Samuel@gmblueplan.ca>
Subject: F.Y.I. Online Form - Enquiry from Region website

From: Niagara Region Website <webmaster@niagararegion.ca>
Sent: Tuesday, June 14, 2022 12:10 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: webincoming <webincoming@niagararegion.ca>
Subject: Online Form - Enquiry from Region website

Enquiry from Region website

To reply, copy the email address from below and put into 'To'. (if resident entered their email address)

name

[REDACTED]

phone

[REDACTED]

email

[REDACTED]

municipality

Outside Niagara Region

other mun

Cambridge

subject

2021 Water and Wastewater Master Servicing Plan Update

comments

Hi Ilija, I'm looking for the most recent updates and/or final update to the 2021 Water and Wastewater MSP update. Can you help me find this, or send me the website/file please?

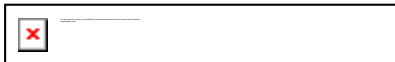
Thanks, [REDACTED]

reply

yes

Page Referrer

<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>



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Alice Lin - GM BluePlan

From: [REDACTED]
Sent: Thursday, January 19, 2023 11:22 AM
To: Alice Lin - GM BluePlan
Cc: Niagara MSPU
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Public Information Centre 2

Follow Up Flag: Follow up
Flag Status: Flagged

Superbo,thank you Alice.

[REDACTED]

----- Original message -----

From: Alice Lin - GM BluePlan <Alice.Lin@gmblueplan.ca>
Date: 2023-01-19 10:58 a.m. (GMT-05:00)
To: [REDACTED]
Cc: Niagara MSPU <niagaramspu@niagararegion.ca>
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Public Information Centre 2

Good morning [REDACTED]

We are working on processing the live webinar from last night as well as the display boards. We anticipate the material will be on the project website for review by tomorrow. I can also follow up with you via email when it is uploaded. Thank you for your patience.

Alice Lin

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

c: 416.949.3715

alice.lin@gmblueplan.ca | www.gmblueplan.ca



From: [REDACTED]
Sent: Thursday, January 19, 2023 10:55 AM
To: Alice Lin - GM BluePlan <Alice.Lin@gmblueplan.ca>
Subject: RE: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Public Information Centre 2

Hello Alice and good morning.

I am trying to get the material for the below pic. Can you please tell me when it will become available please.

Thank you

[REDACTED]

[REDACTED]

[REDACTED]

From: Alice Lin - GM BluePlan <Alice.Lin@gmblueplan.ca>
Sent: January 6, 2023 1:24 PM
To: niagaramspu@niagararegion.ca
Subject: Niagara Region, 2021 Water & Wastewater Master Servicing Plan Update - Notice of Public Information Centre 2

To Whom it May Concern,

Please see the attached Notice of Public Information Centre No. 2 for the Niagara Region 2021 Water and Wastewater Master Servicing Plan Update.

Public Information Centre No. 2 Details:

The project team is hosting a live virtual presentation on **Wednesday, Jan. 18, 2023 from 6 – 7:30pm**. To register for the live event, please visit the project website (<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>). The recorded event and PIC materials will be made available to the public to review. Comments and feedback on PIC No. 2 materials will be open for a two-week period from Jan. 19 to Feb 3., 2023.

Should you have any questions regarding this study, please contact the Niagara Region Project Manager: Ilija Stetic (niagaramspu@niagararegion.ca).

Sincerely,

Alice Lin

Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3

t: 416.703.0667 ext. 7252 | c: 416.949.3715

alice.lin@gmblueplan.ca | www.gmblueplan.ca



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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Wednesday, January 25, 2023 3:21 PM
To: Alice Lin - GM BluePlan
Subject: FW: 2021 WWMSP Public Information Centre No. 2 - Comment regarding Stevensville-Douglastown Sewage Lagoon

F.Y.I.

From: Stetic, Ilija
Sent: Wednesday, January 25, 2023 3:20 PM
To: [REDACTED]
Subject: RE: 2021 WWMSP Public Information Centre No. 2 - Comment regarding Stevensville-Douglastown Sewage Lagoon

Thank you Mr. [REDACTED]

I will collect documentation about the NOTL project you are referring to and share with our team for extracting information on the project timing. This will help us in understanding the timing of the upgrades for Stevensville-Douglastown lagoons.

Best Regards,

Ilija Stetic

From: [REDACTED]
Sent: Tuesday, January 24, 2023 5:18 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Subject: 2021 WWMSP Public Information Centre No. 2 - Comment regarding Stevensville-Douglastown Sewage Lagoon

CAUTION EXTERNAL EMAIL: This email originated from outside of the Niagara Region email system. Use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

Hello Mr. Stetic,
I watched the 2021 WWMSP Public Information Centre No. 2 on January 18 and want to provide the following comment, which I hope you will capture in your report

According to the slide presented during the meeting (image attached) the Stevensville-Douglastown sewage lagoons are forecast to breach the 80% capacity threshold in 2031 and 90% threshold in 2037. This means the Niagara Region will have (6) years to study and build expanded capacity for those sewage lagoons. Assuming the "worst case" scenario (in terms of time and cost) for expansion of the sewage lagoons capacity will be required (decommission the lagoons and build an on-site mechanical treatment plant), I believe (6) years is not enough time to accomplish the required task. A similar (although smaller) project was undertaken in Niagara-On-The-Lake in 2008 and it took (12) years from start to finish (2008 to 2020).

Regards,

[REDACTED]

[REDACTED]

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Alice Lin - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Friday, January 27, 2023 12:37 PM
To: Alice Lin - GM BluePlan
Subject: Question

Hi Alice,

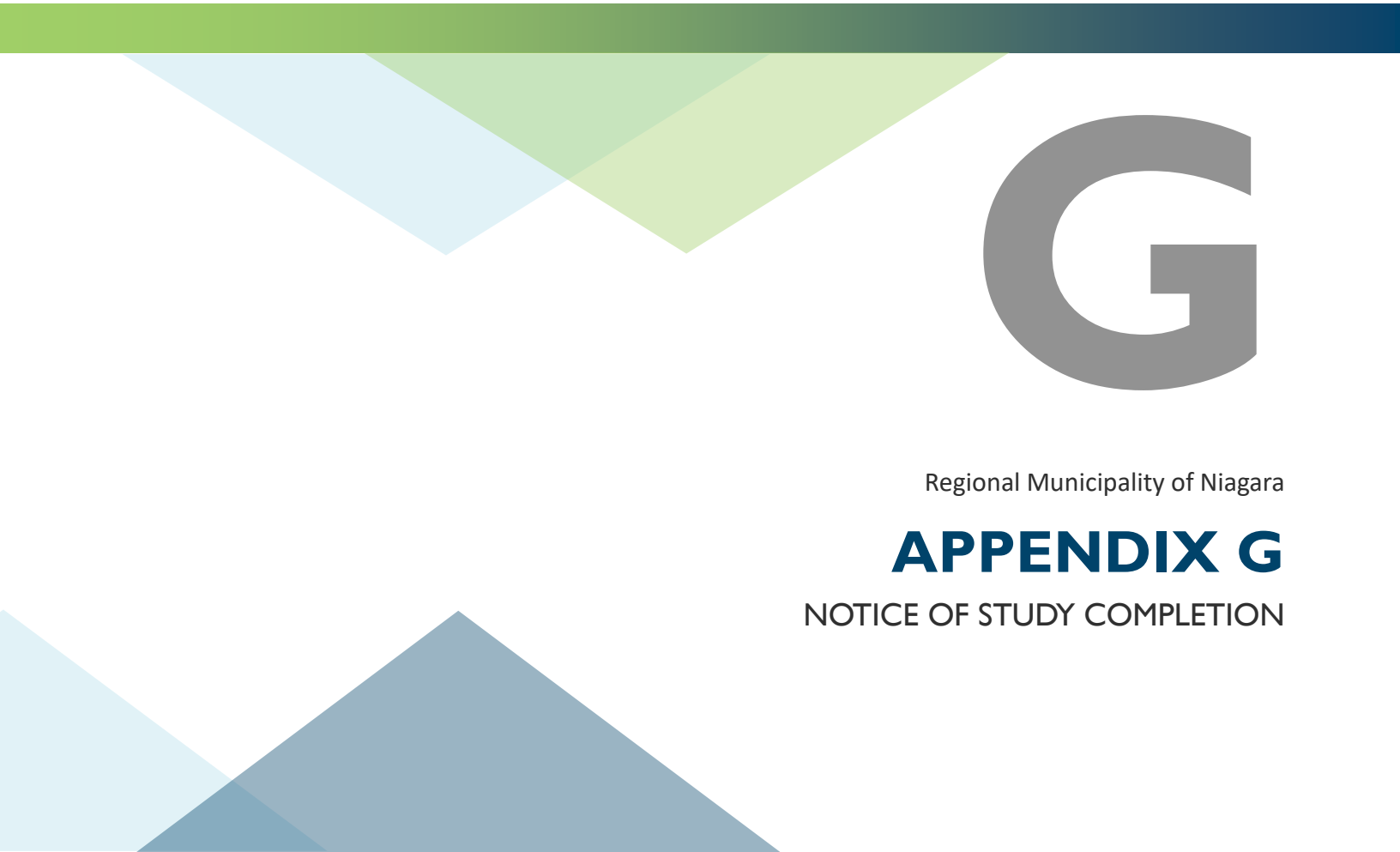
This is a comment just received from [REDACTED] You know him from the PIC. Perhaps, it would be something for Chris.

Here:

"First, the Region should postpone the proposed expansions of the water and waste water facilities to accommodate the suburban expansion in Smithville. The newspaper had these costs at at least \$118M! Now that the new development will not be paying for that new servicing, it doesn't at all make sense that the rest of the Region's taxpayers foot the huge bill for this sprawl -- especially when there is ample capacity in other plants (Port Colborne, Fort Erie, Welland). Let that sit for a while until that development can pay for the extra servicing. Second, please do not build an urban water tank on the protected lands of the Fonthill Kame. The planning does not allow for you to do it. Yet, you appear to be plowing ahead at building the new tank and overflow pond on lands protected by both the Greenbelt and the Provincial Earth Science ANSI (Area of Natural and Scientific Interest). In fact, you will note from the map, that the Site #3 lands are specifically in the ANSI; please see: <https://www.niagararegion.ca/living/icp/pdf/Core-Natural-Heritage-Map.pdf> Protecting the Fonthill Kame from further developments took years and years; please see this Regional report to help understand the Kame's importance: "ICP 62-2013 - Fonthill Kame-Delta ANSI Proposed Boundary, June 20, 2013." It would be a travesty if a water tank to help improve water pressure in the suburban area would encroach on and negatively impact this important geological feature! In fact, it could signal to other developers or property owners (including the quarry) that they can start developing their properties. Finally, the zoning will not allow for the tank. The exemption that allows the golf driving range only allows that or agricultural uses. This urban use is the absolute furthest from an agricultural use. Many thanks! "

Ilija

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A series of overlapping geometric shapes in shades of green, blue, and grey, creating a modern, abstract background design.

G

Regional Municipality of Niagara

APPENDIX G

NOTICE OF STUDY COMPLETION

PUBLIC NOTICE

Review The Final Master Plan Documentation 2021 Water and Wastewater Master Servicing Plan Update

The Study

The 2021 Master Servicing Plan Update for Niagara Region focuses on developing long-term water and wastewater servicing strategies to address anticipated growth to the year 2051 as well as key issues including legislated and regulatory requirements, climate change, energy efficiency and system optimization. The 2021 Master Servicing Plan Update has completed the Master Planning process and has established preferred water and wastewater strategies and capital programs for infrastructure across the Region. These programs have addressed the growth as per the amended Growth Plan for the Greater Golden Horseshoe and have also incorporated recent knowledge, current priorities and a long-term vision beyond 2051.

Public Consultation

Your input is important in the Class Environmental Assessment Master Plan process. You are invited to review the final Master Servicing Plan Update documentation and provide the project team any feedback and comments.

The Master Servicing Plan Update documentation will be available starting June 22 (revised from a previously published date of June 15) for a 45-day public review period in accordance with the requirements of the Municipal Class Environmental Assessment process.

To view the Master Servicing Plan Update documentation, please use the link below or scan the QR code with your smartphone.

[niagararegion.ca/projects/
www-master-servicing-plan](https://niagararegion.ca/projects/www-master-servicing-plan)

Comment Submissions

If you wish to submit comments and/or concerns on this study, please first contact the Niagara Region Project Manager listed below. If your concerns cannot be resolved, you may send your Section 16 Order request with respect to individual projects only, not the overall Master Servicing Plan Update, to the Minister of Environment, Conservation and Parks and the Director of the Environmental Assessment Branch at the

addresses listed below. A copy of the request should also be sent to Niagara Region's Project Manager. All requests must be received within the 45-day public review period.

Ministry Contacts

Hon. David Piccini, Minister

Ministry of the Environment, Conservation and Parks
777 Bay Street, 5th Floor,
Toronto, ON, M7A 2J3

Minister.MECP@ontario.ca

Director, Environmental Assessment Branch

Ministry of the Environment, Conservation and Parks
135 St. Clair Ave. W., 1st Floor,
Toronto, ON, M4V 1P5

EABDirector@ontario.ca

Project Team Contact

Ilija Stetic

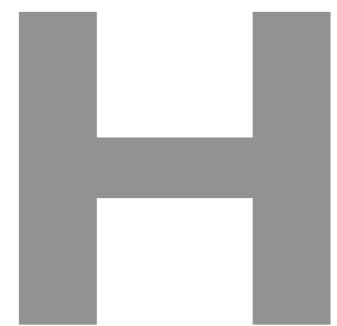
Project Manager, Niagara Region
1815 Sir Isaac Brock Way, PO Box 1042
Thorold, ON L2V 4T7
289-668-4536

niagaramspu@niagararegion.ca

If you require any accommodations for a disability in order to attend and participate in meetings or events, please let us know in advance so that arrangements can be made in a timely manner. Please contact the **Accessibility Advisory Coordinator** at 905-980-6000 ext. 3252 or accessibility@niagararegion.ca.

Personal information collected or submitted in writing at public meetings will be collected, used and disclosed by members of Regional Council and Regional staff in accordance with the **Municipal Freedom of Information and Protection of Privacy Act**. The written submissions including names, contact information and reports of the public meeting will be made available. Questions should be referred to the **Privacy Office** at 905-980-6000, ext. 3779 or FOI@niagararegion.ca.

This Notice was first issued on June 1, 2023.



Regional Municipality of Niagara

APPENDIX H

45-DAY PUBLIC REVIEW CONSULTATION RECORDS

Notice of Comments Received

Following Completion of the Public Review Period

The Regional Municipality of Niagara filed the 2021 Water and Wastewater Master Servicing Plan Update report for the 45-day public review period From Thursday June 22, 2023 to Monday August 7, 2023.

All comments received were tracked in the attached summary table and responses were issued where required. A copy of all comments and responses are attached in Volume 5. Revisions to the 2021 Water and Wastewater Master Servicing Plan Update include the following:

Volume 3

Modifications to table headings for the Comparison of Alternatives including Table 3.A.12, Table 3.B.12, Table 3.E.12, and Table 3.F.12 to identify the Preferred Alternative within the table heading.

Figure captions were updated to address numbering and naming inconsistencies.

Volume 4

Text updated in Section 4.1.6 to address formatting error.

Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon.

Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter.

Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.

Figure captions were updated to address numbering and naming inconsistencies.

Volume 5

Record of consultation dates updated.

Contact list updated in Appendix B.

Date Received (MM/DD/YYYY)	Contact Name / Organization	Comment	Response / Action	Response Date (MM/DD/YYYY)	Status	Related ESR Updates
6/1/2023	Newspaper Ads	Notice of Study Completion and Public Review ads appearing in newspapers.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/20/2023	Project Study Contact List	Notice of Study Completion sent by GM BluePlan on behalf of Niagara Region to project stakeholders (see Appendix V4.2 Contact List) using mass email newsletter.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/20/2023	Niagara Peninsula Energy	Niagara Peninsula Energy acknowledged receipt of Notice of Study Completion.	- No action required	N/A	Complete	- Record of consultation provided in Volume 5
6/22/2023	Indigenous Groups	Reminder email sent from GMBP to the following indigenous groups separate from mass email to notify them that the document is available for review from June 22 to August 7. - Haudenosaunee Development Institute (HDI) - Mississaugas of the Credit First Nations (MCFN) - Six Nations of the Grand River (SNGR)	- No action required	6/22/2023	Complete	- Record of consultation provided in Volume 5
6/27/2023	(Resident)	Resident brought up the following concerns: - Potential underestimation of future sewage flow from Stevensville-Douglastown Lagoons, the new Spring Creek Estates development, and major commercial development in the Netherby and Townline Rd area of Fort Erie. - Sewage redirection from Stevensville-Douglastown lagoons being reconsidered after being identified as not practical or cost effective in the 2016 MSPU. Resident inquired about the following: - Is directing sewage from the Stevensville-Douglastown lagoons to the new SNF WWTP practical and cost effective or not? Resident provided estimate for amount of sewage projected to flow from the proposed commercial development in the Towline and Netherby roads area into the Stevensville-Douglastown sewage lagoons to assist in available capacity projections for the sewage lagoons.	- Region responded with information on growth projections, analysis and evaluation process for the Stevensville and Douglastown lagoons and the recommended projects to be undertaken as a result of the Master Servicing Plan	11/10/2023	Complete	- No further action required.
6/29/2023	(Resident)	Resident brought up the following concerns: - Trouble accessing documents from project website for review.	- Project Manager (Ilija S.) was able to direct (Resident) to download the appropriate document.	6/29/2023	Complete	- Record of consultation provided in Volume 5
7/7/2023	Mr. Moir (Urbantech)	Mr. Moir reached out via contact form on the project website and inquired about the northern reach property in the Town of Welland and wanted to speak about existing sewer capacity at area pump stations.	- Project Manager (Ilija S.) directed Mr. Moir to download and review the project web page and documents	7/10/2023	Complete	- No further action required.
7/31/2023	MECP Project Review Unit	The project team received detailed MECP Project Review Unit comments (see below)	- Documents were revised after the review period based on comments received. See notes below.	N/A	Complete	- See notes below
7/31/2023	MECP Project Review Unit Comment 1	Volume 4 (Wastewater Master Servicing Plan Update) - Introduction, Section 4.1.6 -Grammatical errors where a space should be added in between the words in bold and the rest of the bullet point. For example, there should be a space between "Strategy and "Without" on the second bullet point of this section.	- Section 4.1.6 updated to address formatting concerns.	N/A	Complete	- Text updated in Section 4.1.6 to address formatting errors
7/31/2023	MECP Project Review Unit Comment 2	Appendix V5-B (Public and Agency Consultation) Shareholder Contact List in Volume 5 of the MSP should be revised to have the correct titles for stakeholders. In this case Joan Del Villar Cuicas of the MECP is mislabeled as 'Project Information Form - Online Submission' and should be revised to Regional Environmental Planner. The table should be reviewed to ensure there are no other errors.	- Contact list list updated in Volume 5, Appendix B.	N/A	Complete	- Contact list updated in Volume 5, Appendix B
7/31/2023	MECP Project Review Unit Comment 3	Volume 3 (Comparison of Alternatives) It is recommended that the identified preferred alternative is labeled on Tables 3.A.12, 3.B.12, 3.C.12, 3.D.12, 3.E.12, and 3.F.12 Comparison of Alternatives in Volume 3 of the MSP.	- Tables 3.A.12, 3.B.12, 3.E.12, and 3.F.12 updated to identify the preferred alternative.	N/A	Complete	- Tables 3.A.12, 3.B.12, 3.E.12, and 3.F.12 updated (Parts C and D do not have a Comparison of Alternatives table - text only)
7/31/2023	MECP Project Review Unit Comment 4	Volume 5 (Indigenous Engagement) The proponent should continue to document communication with all communities that have been engaged with as the Class EA proceeds.	- No further action required.	N/A	Complete	- Record of consultation provided in Volume 5
7/31/2023	MECP Project Review Unit Comment 5	Please note that it is the responsibility of the proponent to ensure that Species at Risk (SAR) are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the Endangered Species Act (ESA). As is noted in the Report, if the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact SAROntario@ontario.ca to undergo a formal review under the ESA.	- No further action required.	N/A	Complete	- Record of consultation provided in Volume 5
8/4/2023	Robert Babic (Crozier Consulting Engineers)	Crozier Consulting Engineers provided comments related to the Stevensville Secondary Plan area and the Douglas Town-Black Creek Secondary area plans servicing strategy and concerns and indicated this is a continued and ongoing effort to further discussion regarding development and servicing of these lands. The letter included a request to be included in updates and discussions related to recommendations and preferred strategies to be undertaken by the Region.	- Region responded noting recommendation in the MSP Update were based on the best available planning information and that capacity needs will be reevaluated as new development application are projected. The Region noted Crozier requested to be included in updates and discussions related to recommendation and preferred strategies undertaken within the Stevensville Secondary Plan and Douglastown Black Creek Secondary Plan areas.	11/10/2023	Complete	- No further action required.

Date Received (MM/DD/YYYY)	Contact Name / Organization	Comment	Response / Action	Response Date (MM/DD/YYYY)	Status	Related ESR Updates
8/10/2023	Livia McEachern (City of Welland)	City of Welland provided comments from City staff requesting responses and supplemental information. 1) There are Regional projects identified in Welland’s 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include: Dain City SPS Storage Optimization Woodlawn Trunk Sewer Upgrade Can staff provide some clarification as to why these projects were not identified in the Regional study? 2) The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region’s Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City’s Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade: - Ontario Rd – Southworth to Empress – 172 l/s - Ontario Rd – Empress to Ontario Rd SPS – 205 l/s Can staff provide some clarification as to why this project was not identified in the Regional study? 3) There were low pressures identified in the Hunter’s Point Area. Can staff confirm if the water analysis incorporated the Hunter’s Point Booster Station?	- Comprehensive response provided to address comments and will form part of the communication record. - Input was incorporated in final document preparation.	10/17/2023 and 11/10/2023	Complete	- Provided collaborative response that will form part of the communication document included in the final MSP.
8/16/2023	Mr. Moir (Urbantech)	Mr. Moir reached out to request a meeting to get clarification on items from the MSP as it relates to the towpath pump station (WW-SPS-037).	- Region provided clarification on question related to the towpath pump station site. - Region formally met with Urbantech to discuss the related questions.	9/18/2023	Complete	- No further action required.
9/6/2023	Project Team	Received comments regarding clarification around average and peak flows for the Cole Farm SPS.	- GMBP response provided to Region on 9/8/2023 indicating pump start/stop levels are causing an artificial increase in peak flows but the station wasn’t flagged for any capacity issues.	N/A	Complete	- See below for adjustments made within the MSPU documentation
9/18/2023	Project Team	Received comments regarding Cole Farm SPS flows and Biggar Lagoon operational firm capacity Email from Ilija: Here, I have two corrections to incorporate: Cole Farm SPS – PDWF 14 L/s based on the upstream pipe segment. This is very similar to the flow numbers from Glenn; Biggar Lagoon – Operational firm capacity is 74 L/s instead of 54 L/s; If you know of any other correction that would prevent additional questions and confusion, please feel free to make it and let us know.	- Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon. - Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter. - Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.	N/A	Complete	- Text updated in Part A: Figure 4.A.2, Table 4.A.3, Table 4.A.8, Table 4.A.9, Section A.6.2, Table 4.A.10, to update the operational firm capacity for Biggar Lagoon. - Text updated in Part A: Table 4.A.3 and Table 4.A.9 to revise the Smithville SPS forcemain diameter. - Text updated in Part B: Table 4.B.8 to revise the PDWF for Cole Farm SPS.

From: INFO <info@npei.ca>
Sent: Tuesday, June 20, 2023 4:54 PM
To: Alice Lin - GM BluePlan
Subject: Thank You from Niagara Peninsula Energy

Thank you for contacting Niagara Peninsula Energy. We have received your request and it will be processed within the next 10 working days. You may be contacted by a representative to provide further information if required.

Please note that Niagara Peninsula Energy Inc. has saved your email address for use of future correspondence. Your email address will not be shared or provided to any other third party and will be used solely by Niagara Peninsula Energy Inc for the notification of account updates, *My Account* features, conservation initiatives, programs or customer surveys. If you do not wish for your email address to be kept on record, please respond to this email.

Thank you and have a great day!

INFO

1-877-270-3938
info@npei.ca



For more information about NPEI and the Programs and Services that we offer, please click on our New Customer Info Guide [Click Here](#)

For Niagara Peninsula Energy Customers please [Click Here](#) to participate in our online customer service survey! (powered by SurveyMonkey)

My working hours may differ from yours. Please do not feel obligated to respond to this email outside of your normal working hours. Thank you.

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Sent to External Source

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Wednesday, June 28, 2023 9:58 AM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan
Subject: FW: 2021 Water and Wastewater MSPU - Comments & Questions - [REDACTED]
Attachments: Sewage_Flow_2011_2021.jpg; Sewage_Flow_2022_Beyond.jpg; Sewage_Flow_South_NF.jpg

F.Y.I.

From: [REDACTED]
Sent: Tuesday, June 27, 2023 3:51 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Subject: 2021 Water and Wastewater MSPU - Comments & Questions - [REDACTED]

CAUTION EXTERNAL EMAIL: This email originated from outside of the Niagara Region email system. Use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

Hello Mr. Stetic,

I have reviewed the 2021 W&WW MSPU, focusing on the Stevensville-Douglastown sewage lagoons in Fort Erie and the following are my comments and questions. Please see the attached files as reference.

1) Page 145 of 340, The graph titled Stevensville Douglastown Lagoons shows the sewage flow reaching the 80% trigger in 2031, 90% trigger in 2037 and 100% capacity in 2046. I believe the slope of this trend line is not steep enough for future years and the sewage flow will reach the 80% trigger in 2027, 90% trigger in 2031 and 100% capacity in 2035. My analysis is based on plotting the sewage flow data provided by the Niagara Region for 2011 through 2021 and applying a trend line using MS Excel. The MS Excel trend line shows an increase in sewage flow of approx. 20% between 2011 and 2021 or an approx. 20% increase every 10 years. The trend line indicates 71% of capacity was used in 2021. Therefore if growth during the next 10 years continues roughly as it has during the past 10 years, the sewage flow should be approx. 91% in 2031 and 111% in 2041. A major new development called Spring Creek Estates, including 225 units and 549 people, was recently approved by the Town of Fort Erie for the Douglastown neighbourhood and a major commercial development is currently being considered by the Town of Fort Erie for the Netherby and Townline Rd. area of Douglastown. Both of these developments will contribute sewage to the Stevensville Douglastown Lagoons.

2) Page 145 of 340, includes the statement, "Broader strategic study is required to determine optimal wastewater treatment solution for all of Fort Erie." Has the broader strategic study been started? If not, when is it scheduled to start and when is it scheduled to be finished?

3) Page 265 of 340, includes the following "item 6) Fort Erie • Stevensville Douglastown Lagoons – triggered for capacity upgrade, **but there is potential of redirecting to South NF**" Please refer to 2016 W&WW MSPU, volume IV, item G5, page (235 of 354) which says that directing sewage from the Stevensville-Douglastown sewage lagoons is not practical or cost effective because > Generally low flow rate relative to the forcemain length and volume would generate significant operational challenges and increase cost.

> Generally high cost of construction due to distance, and potential additional design considerations to address operational challenges.

I'm surprised to see the option of directing sewage from the Stevensville-Douglastown lagoons to the new South Niagara WWTP resurrected in the 2021 MSPU after it was disregarded in the 2016 MSPU. Is directing sewage from the SD lagoons to the new SNF WWTP practical and cost effective or not?

If you have any questions, please don't hesitate to ask.

Best Regards,

[REDACTED]

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From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Wednesday, June 28, 2023 9:58 AM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan
Subject: FW: 2021 Water and Wastewater MSPU - Townline Rd. Commercial Development
Attachments: Townline_Rd_Stevensville_Douglastown_Sewage_Lagoons.jpg

F.Y.I.

From: [REDACTED]
Sent: Tuesday, June 27, 2023 4:22 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Subject: 2021 Water and Wastewater MSPU - Townline Rd. Commercial Development

CAUTION EXTERNAL EMAIL: This email originated from outside of the Niagara Region email system. Use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

Hello Mr. Stetic,
In addition to the email I sent to you previously, please see the attached file for an estimate of the amount of sewage projected to flow from the proposed Commercial development on the corner of Townline and Netherby Rds., into the Stevensville-Douglasown sewage lagoons. This estimate may be useful in your sewage lagoon available capacity projections.

Regards,

[REDACTED]

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From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Thursday, June 29, 2023 12:11 PM
To: [REDACTED]
Cc: Alice Lin - GM BluePlan
Subject: 2021 MSPU - Web Inquiry

Date:	6-28-2023 8:04:20 AM	Liked:	n
IP:	[REDACTED]	Email:	[REDACTED]
Comment:	To Whom it May Concern I actually want to see / review Volumes 1-5 not just summaries as outlined on this web page. Please forward a 'Paper Copy' of Volumes 1-5 to the address below. Thanks [REDACTED] [REDACTED] [REDACTED]	Agent:	Mozilla/5.0 (Macintosh; Intel Mac OS Gecko/20100101 Firefox/114.0
Page:	https://www.niagararegion.ca/projects/www-master-servicing-plan/default.aspx		

[REDACTED],

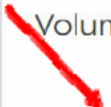
Thank you for your interest in the Regional 2021 MSPU and your web inquiry.

I am sorry to hear that you found only summaries of Volumes 1 – 5 and had a problem with finding the rest. Perhaps, you did not realize that the full documents can be downloaded from the highlighted “Volume # link” in each of the Volume Summaries.

Below, I captured the link example for you so, you can easier download it next time.

2021 Master Servicing Plan Final Report

Volume 1 - Executive Summary



[Volume 1](#) includes a brief overview of the 2021 Master Servicing Plan Update. It summarizes the information from Volumes 2, 3, 4 and 5, including the problem statement, the purpose of the study, significant planning, and policy and technical considerations. This volume also covers the description of the preferred water and wastewater servicing strategies including depiction of the projects and documentation of the capital programs.

Please, use the same logic for downloading the other volumes.

Sincerely,

Ilija Stetic, B.Sc., CET, PMP

Manager W-WW Infrastructure Planning

Growth Strategy and Economic Development

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

www.niagararegion.ca

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From: Stetic, Ilija <ilija.stetic@niagararegion.ca>
Sent: Monday, July 10, 2023 11:13 AM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan
Subject: FW: Online Form - Enquiry from Region website

From: Coffe, Nicole <nicole.coffe@niagararegion.ca>
Sent: Friday, July 07, 2023 12:11 PM
To: WWWSERVICES <WWWSERVICES@niagararegion.ca>
Subject: FW: Online Form - Enquiry from Region website

Good afternoon – please see below for follow-up.

Thank you in advance.

Nicole

Nicole Coffe
Executive Assistant to the Commissioner of Public Works
Public Works Department
Niagara Region
Phone: 905-980-6000 ext. 3340 Toll-free: 1-800-263-7215
www.niagararegion.ca

From: Niagara Region Website <webmaster@niagararegion.ca>
Sent: Friday, July 07, 2023 10:37 AM
To: pworks <pworks@niagararegion.ca>
Cc: webincomin <webincomin@niagararegion.ca>
Subject: Online Form - Enquiry from Region website

Enquiry from Region website

To reply, copy the email address from below and put into 'To'. (if resident entered their email address)

name
Bob moir

phone
7053311449

email

RMOIR@URBANTECH.COM

municipality

Welland

subject

Sewers/Wastewater

comments

HI IM AN ENGINEER WORKING ON THE NORTHERN REACH PROERTY IN THE TOWN OF WELLAND AND AM LOOKING TO SPEAK TO SOMEONE ABOUT EXISTING SEWER CAPACITYIES AT THE PUMPSTATIONS IN THE AREA . THANKS,

reply

yes

Page Referrer

https://www.niagararegion.ca/water_wastewater/default.aspx?topnav=1



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From: Stetic, Ilija <ilija.stetic@niagararegion.ca>
Sent: Monday, July 10, 2023 10:42 AM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan
Subject: FW: Enquiry From Region Website

F.Y.I.

From: Stetic, Ilija
Sent: Monday, July 10, 2023 10:13 AM
To: RMOIR@URBANTECH.COM
Subject: Enquiry From Region Website

Dear Mr. Moir,

Thank you for your interest expressed in your enquiry on the Region website.

The Region has finished the Water Wastewater Master Servicing Plan Update just recently. The documents can be reviewed at the project web page [HERE](#)

Regards,

Ilija Stetic, B.Sc., CET, PMP
Manager W-WW Infrastructure Planning
Growth Strategy and Economic Development
Niagara Region
Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215
www.niagararegion.ca

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From: Del Villar Cuicas, Joan (MECP) <joan.delvillarcuicas@ontario.ca>
Sent: Monday, July 31, 2023 10:56 AM
To: Stetic, Ilija
Cc: Alice Lin - GM BluePlan
Subject: RE: Regional Municipality of Niagara, 2021 Water & Wastewater Master Servicing Plan Update
Attachments: image001.jpg; MECP PRU Comments - Report - 2021 MSPU.pdf

Good morning,

Thank you for circulating the Notice of completion and masterplan for the Regional Municipality of Niagara 2021 Water & Wastewater Master Servicing Plan Update.

Please find attached our comments for your consideration.

Should you or any members of your project team have any questions regarding the material above, please contact me.

Regards,

Joan Del Villar Cuicas (she/her)
Regional Environmental Planner
Project Review Unit | Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks
Joan.delvillarcuicas@ontario.ca | Phone: 365-889-1180

From: Alice Lin - GM BluePlan <Alice.Lin@gmblueplan.ca>
Sent: June 21, 2023 9:01 AM
To: EA Notices to WCRegion (MECP) <eanotification.wcregion@ontario.ca>
Cc: Niagara MSPU <niagaramspu@niagararegion.ca>; Stetic, Ilija <ilija.stetic@niagararegion.ca>; Chris Hamel - GM BluePlan <chris.hamel@gmblueplan.ca>
Subject: Regional Municipality of Niagara, 2021 Water & Wastewater Master Servicing Plan Update

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Dear Sir/Madam,

The Regional Municipality of Niagara has issued the Notice of Study Completion for the 2021 Water & Wastewater Master Servicing Plan Update.

Please find the attached copy of the notice, as well as the PIF from study initiation for the Regional Municipality of Niagara, 2021 Water & Wastewater Master Servicing Plan Update.

Should you have any questions regarding this study, please contact the Region Project Manager listed in the attached notice.

Best Regards,

Alice Lin
Infrastructure Planning

GM BluePlan Engineering Limited

Royal Centre | 3300 Highway No. 7, Suite 402 | Vaughan ON L4K 4M3
c: 416.949.3715

alice.lin@gmblueplan.ca | www.gmblueplan.ca



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**Ministry of the Environment,
Conservation and Parks**

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**

Environmental Assessment
Branch

Direction des évaluations
environnementales

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télec. : 416 314-8452

Via E-mail Only

July 31, 2023

Ilija Stetic
Project Manager
Niagara Region
Email: niagaramspu@niagararegion.ca

**Re: 2021 Water and Wastewater Master Servicing Plan
Niagara Region
Municipal Class Environmental Assessment – Master Plan- Approach
Project Review Unit Comments – Master Plan**

Dear Ilija Stetic,

This letter is in response to the Notice of Completion provided for the Master Plan for the above noted Class Environmental Assessment (EA) project. Our understanding is that in order to improve, update, and bring into compliance with current Niagara Region and provincial standards the 2021 Water and Wastewater Master Servicing Plan (MSP), the Niagara Region (the proponent) has determined that the preferred alternative is to implement a long-term water and wastewater servicing strategy that and capital forecast to ensure level of service for existing and future residents and businesses to support projected future growth in the Niagara Region. The Ministry of the Environment, Conservation and Parks (ministry) provides the following comments for your consideration.

General

- Please revise section 4.1.6 of Volume 4 of the MSP, there are three grammatical errors where a space should be added in between the words in bold and the rest of the bullet point. For example, there should be a space between "Strategy and "Without" on the second bullet point of this section.

- Appendix B Shareholder Contact List in Volume 5 of the MSP should be revised to have the correct titles for stakeholders. In this case Joan Del Villar Cuicas of the MECP is mislabeled as 'Project Information Form - Online Submission' and should be revised to Regional Environmental Planner. The table should be reviewed to ensure there are no other errors.
- It is recommended that the identified preferred alternative is labeled on Tables 3.A.12, 3.B.12, 3.C.12, 3.D.12, 3.E.12, and 3.F.12 Comparison of Alternatives in Volume 3 of the MSP.

Indigenous Consultation

- The proponent should continue to document communication with all communities that have been engaged with as the Class EA proceeds.

Species at Risk

- Please note that it is the responsibility of the proponent to ensure that Species at Risk (SAR) are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the Endangered Species Act (ESA). As is noted in the Report, if the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact SAROntario@ontario.ca to undergo a formal review under the ESA.

Thank you for circulating this Report for the ministry's consideration. Please document the receipt of this Project Review Unit Comments letter in the final report. We look forward to receiving a written response from the Niagara Region to address our comments provided above.

Should you or any members of your project team have any questions regarding the material above, please contact me at Joan.DelVillarCuicas@ontario.ca.

Sincerely,



Joan Del Villar Cuicas
Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks

cc Alice Lin, Infrastructure Planning, GM BluePlan.

From: Stetic, Ilija <ilija.stetic@niagararegion.ca>
Sent: Wednesday, August 09, 2023 3:11 PM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan
Subject: FW: Online Form - Enquiry from Region website
Attachments: ~WRD0000.jpg

F.Y.I.

From: Niagara Region Website <webmaster@niagararegion.ca>
Sent: Friday, August 4, 2023 4:40 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: webincomimg <webincomimg@niagararegion.ca>
Subject: Online Form - Enquiry from Region website

Enquiry from Region website

To reply, copy the email address from below and put into 'To'. (if resident entered their email address)

name

Robert Babic

phone

4164773392

email

rbabic@cfcrozier.ca

municipality

Fort Erie

subject

2021 Water and Wastewater Master Servicing Plan Update

comments

The following is a copy of a letter emailed to niagaramspu@niagararegion.ca on August 4, 2023 regarding the 2021 MS This letter is regarding the 2021 Water and Wastewater Master Servicing Plan Update and is submitted as a comment during the 45-day public review period ending August 7, 2023. Crozier Consulting Engineers has been retained by Jukic Group Inc who are "the Owners" of 10 parcels located between the Stevensville Secondary Plan area and the Douglas Town-Black Creek Secondary Plan area, including the property municipally addressed as 2900 College Road (the "subject lands"). Previously, a formal request was submitted in July 2021 to the Region to add the subject lands to the urban area of Stevensville-Douglastown. This was followed by a letter

submitted in December 2021 and further correspondence in January 2022 including an Engineering Opinion letter regarding servicing concerns and strategy. This letter is a continued and ongoing effort from the Owners to further discussions with the Region regarding the development and servicing of their lands and considering the new Master Servicing Plan Update recently made public. We have reviewed the 2021 MSP Update and note that the subject lands fall within the Stevensville-Douglastown area for both Water and Wastewater. The 2021 MSP will have a direct impact on the serviceability of the subject lands and we would like to be included in updates and discussions related to the recommendations and preferred strategies to be undertaken by the Region. Of particular interest is the following capital projects outlined in the Preferred Servicing Strategy (Vol 4-G.6) for the Stevensville-Douglastown area: • WW-ST-002 - Fort Erie QEW Corridor Long-Term Study • WW-SPS-006 - Stevensville SPS Upgrade It is noted that both projects have associated timeframes of 2022-2026. If there has been any initiation or progress of these projects to date we would also request to be updated on their status and included in any ongoing discussions.

reply
yes

Page Referrer
<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>



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From: Stetic, Ilija <ilija.stetic@niagararegion.ca>
Sent: Thursday, August 10, 2023 5:43 PM
To: Alice Lin - GM BluePlan; Jody Lee - GM BluePlan; Julien Bell - GM BluePlan
Subject: Fwd: 2021 Water & Wastewater MSP Update
Attachments: 620126 - LAM Meeting WEL, THO, PL - 2022-02-22 - Welland Comments.pdf; RE: 2021 MSP Update (3)

This is little late, but can we investigate and find a reasonable explanation to their questions.
Thank you.

Ilija

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From: Livia McEachern <livia.mceachern@welland.ca>
Sent: Thursday, August 10, 2023 5:31 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: Lambert, Phill <Phill.Lambert@niagararegion.ca>; Sherri-Marie Millar <sherri-marie.millar@welland.ca>; Matthew Main <matthew.main@welland.ca>; James Sticca <james.sticca@welland.ca>
Subject: RE: 2021 Water & Wastewater MSP Update

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Hello,

Apologies for the delayed response. I have attached previous correspondence and comments from the City of Welland. Could staff provide formal comments for the City's documentation? In addition, could staff also provide supplemental information in response to the comments below?

1. There are Regional projects identified in Welland's 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include:

- a. Dain City SPS Storage Optimization
- b. Woodlawn Trunk Sewer Upgrade

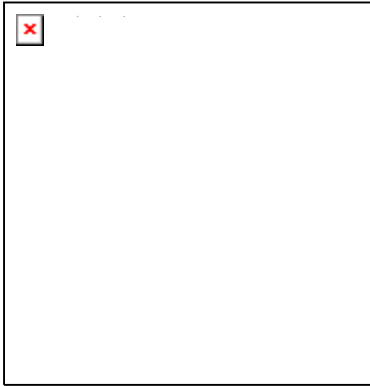
Can staff provide some clarification as to why these projects were not identified in the Regional study?

2. The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region's Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City's Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade:
 - a. Ontario Rd – Southworth to Empress – 172 l/s
 - b. Ontario Rd – Empress to Ontario Rd SPS – 205 l/s

Can staff provide some clarification as to why this project was not identified in the Regional study?

3. There were low pressures identified in the Hunter's Point Area. Can staff confirm if the water analysis incorporated the Hunter's Point Booster Station?

Thank you in advance,



Livia McEachern, P.Eng.

Manager of Engineering

Infrastructure Services

60 East Main Street, Welland, Ontario L3B 3X4

Phone: 905-735-1700 x2208

welland.ca

engagewelland.ca



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From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>

Sent: Thursday, June 22, 2023 8:07 AM

To: D Graham <dgraham@lincoln.ca>; Lambert, Phill <Phill.Lambert@niagararegion.ca>; Gabel, Richard <Richard.Gabel@niagararegion.ca>; Bradshaw, Roland <Roland.Bradshaw@niagararegion.ca>; Tonellato, Joseph <Joseph.Tonellato@niagararegion.ca>; Cimino, Tony <tony.cimino@niagararegion.ca>; Oatley, Jason <jason.oatley@niagararegion.ca>; Daw, Robert <Robert.Daw@niagararegion.ca>; 'EVonk@lincoln.ca' <EVonk@lincoln.ca>; 'WNeubauer@lincoln.ca' <WNeubauer@lincoln.ca>; Lincoln Gillian <gharris@lincoln.ca>; Mike DiPaola <m dipaola@westlincoln.ca>; 'Jennifer Bernard' <jbernard@westlincoln.ca>; Steve McGean <smcgean@westlincoln.ca>; Brandon Wartman <bwartman@grimsby.ca>; 'Marvin Ingebrigtsen' <mingebrigtsen@grimsby.ca>; K Walsh <kw Walsh@forterie.ca>; Chris Pisaric <cpisaric@forterie.ca>; 'ckalimootoo@forterie.ca' <ckalimootoo@forterie.ca>; Darlene Suddard <darlene.suddard@portcolborne.ca>; M Green <mgreen@stcatharines.ca>; Christine Adams <cadams@stcatharines.ca>; 'sheldon.randall@notl.com' <sheldon.randall@notl.com>; 'Sean.Dunsmore@thorold.ca' <Sean.Dunsmore@thorold.ca>; Geoff Holman <geoffholman@thorold.ca>; Brett Ruck <Brett.Ruck@notl.com>; Mike.Komljenovic <Mike.Komljenovic@notl.com>; Adam Allcock <adam.allcock@notl.com>; 'Abu.Rashed@thorold.ca' <Abu.Rashed@thorold.ca>; Sherri-Marie Millar <sherri-marie.millar@welland.ca>; Livia McEachern <livia.mceachern@welland.ca>; Jason Marr <jmarr@pelham.ca>; Eric Nickel <enickel@niagarafalls.ca>; 'kschachowskoj@niagarafalls.ca' <kschachowskoj@niagarafalls.ca>; Courteau, Craig <Craig.Courteau@niagararegion.ca>; Fulton, Glenn <glenn.fulton@niagararegion.ca>; Epp, Greg <greg.epp@niagararegion.ca>; VanVliet, Ed <ed.vanvliet@niagararegion.ca>; Zvaniga, Bruce <Bruce.Zvaniga@niagararegion.ca>; Rurak, Dean <Dean.Rurak@niagararegion.ca>; Norio, Ann-Marie <Ann-Marie.Norio@niagararegion.ca>; Tripp, Ron <Ron.Tripp@niagararegion.ca>; Harrison, Todd <Todd.Harrison@niagararegion.ca>; Ryall, Carolyn <Carolyn.Ryall@niagararegion.ca>; Daw, Robert <Robert.Daw@niagararegion.ca>; Korchok, Andrew <Andrew.Korchok@niagararegion.ca>; Rose, Janet <Janet.Rose@niagararegion.ca>; Habermabl, Catherine <catherine.habermabl@niagararegion.ca>; Busnello, Pat <pat.busnello@niagararegion.ca>; Stea, Angela <Angela.Stea@niagararegion.ca>; Morreale, Diana <Diana.Morreale@niagararegion.ca>; Richard Pinder - GM BluePlan <Richard.Pinder@gmblueplan.ca>; Gabel, Richard <Richard.Gabel@niagararegion.ca>; Brunet, John <john.brunet@niagararegion.ca>; Anthony Martuccio <amartuccio@stcatharines.ca>; Chris Kalimootoo <Chris.kalimootoo@portcolborne.ca>; M Grusso <mgrusso@niagaraparks.com>; NOTL Jeff <jeff.vyse@notl.com>; R Nan <rnan@wainfleet.ca>

Cc: Lambert, Phill <Phill.Lambert@niagararegion.ca>; Sergi, Michelle <Michelle.Sergi@niagararegion.ca>; Tripp, Ron <Ron.Tripp@niagararegion.ca>

Subject: 2021 Water & Wastewater MSP Update

WARNING: This email originated from an external sender. eMail from City of Welland email accounts will not begin with this warning! Please do not click links or open attachments unless you are sure they are safe!

Please, review the Final Master Plan Documentation for the Niagara Region 2021 Water and Wastewater Master Servicing Plan Update.

The documentation will be available on the project website (<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>) for a 45-day public review period starting **Thursday, June 22, 2023**.

Should you have any questions regarding this study, please contact the Niagara Region Project Manager at niagaramspu@niagararegion.ca.

Sincerely,

Ilija Stetic, B.Sc., CET, PMP
Manager W-WW Infrastructure Planning
Growth Strategy and Economic Development
Niagara Region
Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215
www.niagararegion.ca

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Jody Lee - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Tuesday, September 12, 2023 7:45 AM
To: Alice Lin - GM BluePlan
Cc: Jody Lee - GM BluePlan; Kristen Farrell - GM BluePlan
Subject: FW: Northern Reach master Servicing Questions

F.Y.I.

From: Stetic, Ilija
Sent: Wednesday, September 6, 2023 4:15 PM
To: Rob Merwin <rmerwin@urbantech.com>; Bob Moir <rmoir@urbantech.com>
Cc: Sam Badawi <sbadawi@livhere.ca>; Benjamin Jones <bjones@livhere.ca>; Andrew Mulder <amulder@livhere.ca>; Lambert, Phill <Phill.Lambert@niagararegion.ca>
Subject: RE: Northern Reach master Servicing Questions

Hi Rob,

I am in Europe and will be coming back to the office after September 12. If the matter is not urgent, I will look at this when I return.

If you want to discuss earlier, please contact Phill Lambert, my director who is at the office. Phill can be reached at Phill.Lambert@niagararegion.ca

Regards,

Ilija

From: Rob Merwin <rmerwin@urbantech.com>
Sent: Wednesday, September 6, 2023 9:48 AM
To: Bob Moir <rmoir@urbantech.com>; Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: Sam Badawi <sbadawi@livhere.ca>; Benjamin Jones <bjones@livhere.ca>; Andrew Mulder <amulder@livhere.ca>
Subject: RE: Northern Reach master Servicing Questions

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Hi Ilija,

In Bob's absence this week I am following up on this request. Could we please arrange a meeting to discuss?

Rob Merwin, P.Eng.

Senior Associate, Land development

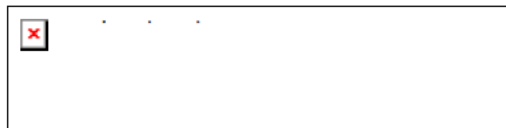
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[2030 Bristol Circle, Suite 105, Oakville, ON L6H 0H2](#)

rmerwin@urbantech.com • www.urbantech.com

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From: Bob Moir <rmoir@urbantech.com>

Sent: Wednesday, August 16, 2023 3:39 PM

To: ilija.Stetic@niagararegion.ca

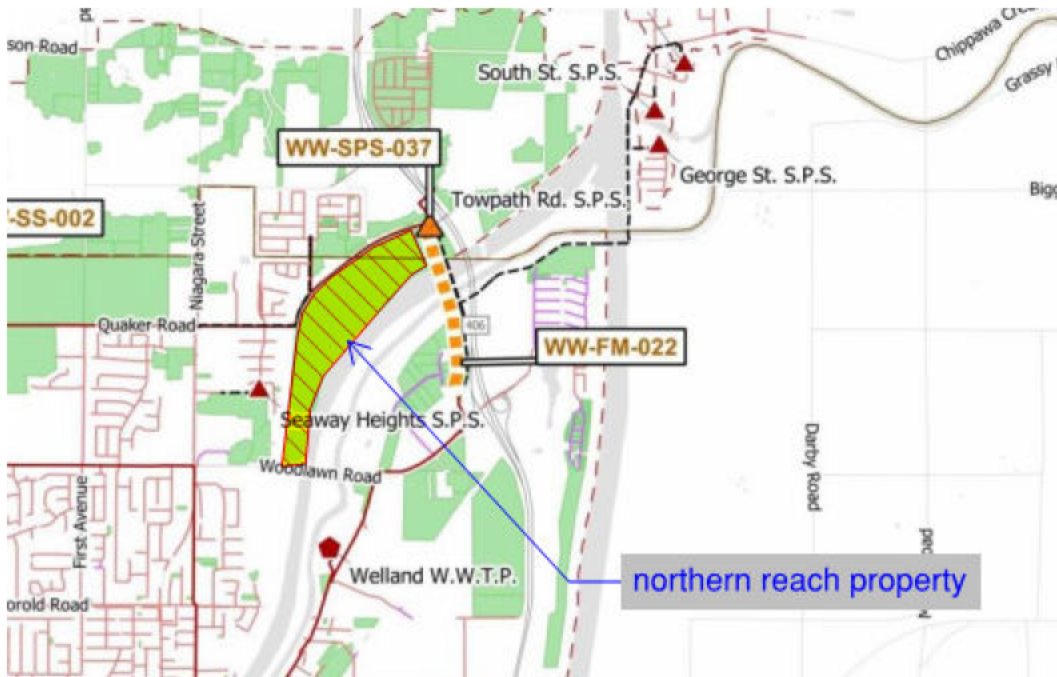
Cc: Rob Merwin <rmerwin@urbantech.com>; Sam Badawi <sbadawi@livhere.ca>; Benjamin Jones <bjones@livhere.ca>;

Andrew Mulder <amulder@livhere.ca>

Subject: Northern Reach master Servicing Questions

Hi Ilija,

We are working on a portion of property within the Welland/ Thorold area known as the northern reach along the canal. There are a few items from the master servicing plan as it relates to the towpath pumpstation (WW-SPS-037) that we are looking to clarify and we are hoping you can help us out.

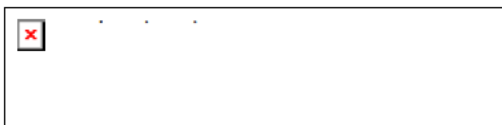


1. What allocation (if any) was considered for the site (flow)
2. What existing capacities are available for the towpath pump station (WW-SPS-037) (flow)
3. What are the timelines for the pump station upgrades (its our understanding the upgrades to WW-FM-022 have been completed)
4. How does the region allocate new development populations without a projected unit count? Ie a pp/ha
 - a. I cannot seem to locate this info, the only info that I can find is:
 - i. Residential Flow Generation: 255 Lpcd
 - ii. Employment Flow Generation: 310 Lpcd
 - iii. Peaking Factor based on Harmon formula with values between 2 and 4

Would you be available to have a call or direct us to the correct person to discuss the above?

Thanks again,

Robert (Bob) Moir, C.E.T., rcji
 Design Project Manager
Urbantech® Consulting
 A Division of Leighton-Zec West Ltd.
[2030 Bristol Circle, Suite 105, Oakville, ON L6H 0H2](mailto:rmoir@urbantech.com)
rmoir@urbantech.com • www.urbantech.com
 TEL 905-829-8818 Ext.1009 • DIR 905-829-6919 • MOB 705-331-1449



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Kristen Farrell - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Wednesday, September 06, 2023 4:29 PM
To: Julien Bell - GM BluePlan
Cc: Jody Lee - GM BluePlan
Subject: Cole Farm SPS Q

Follow Up Flag: Follow up
Flag Status: Completed

Hi Julien,

We received some comments about Cole Farm SPS. I know you have an answer. The ADWF is 9.6 L/s but the PDWF is 48.3 L/s. This seems unusual to have over 5 x peaking for a residential area. On our side, we can check with Glenn about the data quality supplied to GMBP if you do not have an explanation.

B.3.2. Sewage Pumping Station

Table 4.B.8 highlights the sewage pumping station operational firm capacities and the existing and projected flows. The existing a which was updated using the best available billing, flow monitoring, and SCADA data from 2018 to 2020.

Table 4.B.8 System Sewage Pumping Station P

Sewage Pumping System	Station Capacity	2021 Flows				
	Operational Firm Capacity	Average Dry Weather Flow	Peak Dry Weather Flow	Design Allowance Peak Wet Weather Flow	5-Year Storm Peak Wet Weather Flow	Peak Wet Weather Flow
	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)
↳ Lakeside SPS	110.0	19.5	26.1	87.3	275.3	38.8
↳ Cole Farm SPS	94.2	9.6	48.3	90.1	62.5	54.3
↳ Snug Harbour SPS	3.0	0.0	0.1	0.4	0.1	0.1
↳ Lighthouse Road SPS	45.0	0.0	0.0	1.1	0.6	0.0
↳ October Village SPS	5.0	0.6	0.6	5.3	3.4	0.9
↳ St. Georges Point SPS	11.9	1.3	1.8	9.0	13.4	2.0
↳ Wellandvale SPS	33.0	3.6	3.9	7.1	25.4	14.7
↳ Argyle SPS	40.2	1.0	1.2	6.2	65.8	4.0
↳ Eastchester SPS	72.0	5.7	7.8	25.0	143.6	17.1
↳ Renown SPS	700.0	85.5	115.4	516.0	926.6	203.1
↳ Glendale SPS	10.0	0.0	0.1	1.7	4.8	0.1
↳ Riverview SPS	9.5	0.0	0.1	1.8	1.5	0.1
↳ Confederation Heights SPS	171.0	19.8	26.3	103.9	95.5	70.6
↳ Beaverdams SPS	10.2	2.1	2.5	25.4	17.3	21.7

The 2016 MSP had some different ADWF, about 50% of the 2021.

Table 4.B.7 Existing Wastewater System Flows by Catchment

Catchment	Total Service Equivalent Population	Existing Average Dry Weather Flow (L/s)	Existing Design Peak Wet Weather Flow (L/s)	Existing 2-Year Flow (L/s)	Existing 5-Year Flow (L/s)
Port Dalhousie Wastewater Treatment Plant (WWTP)	115,669	377.9	1,666.5	3,868.5	6,189.6
Port Dalhousie WWTP	81,109	257.6	1,057.8	1,858.5	3,345.0
Lakeside Sewage Pumping Station (SPS)	4,608	8.4	64.9	167.1	300.3
Lakeside SPS	2,482	3.6	24.0	57.3	103.0
Cole Farm SPS	2,127	4.6	40.1	107.9	194.0
Snug Harbour SPS	0	0.1	0.8	1.9	3.3
Lighthouse Road SPS	0	0.1	0.8	2.2	4.0
October Village SPS	1,692	1.3	5.7	11.3	20.0
St. Georges Point SPS	264	0.5	8.3	25.6	46.0
Wellandvale SPS	708	7.4	20.0	81.0	146.0
Argyle SPS	599	5.1	16.7	22.8	41.0
Eastchester SPS	2,204	6.7	32.6	88.6	118.1
Renown SPS	24,486	90.9	459.6	1,585.8	2,123.2
Renown SPS	15,058	73.0	349.8	1,353.0	1,799.8
Glendale SPS	24	0.3	2.8	7.9	11.0
Riverview SPS	1,827	0.1	2.3	7.2	10.0
Confederation Heights SPS	7,169	15.7	89.8	208.2	289.7
Beaverdams SPS	408	1.7	14.8	9.5	12.7

Note: Flow numbers may not sum due to rounding.

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Kristen Farrell - GM BluePlan

From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Sent: Monday, September 18, 2023 9:14 AM
To: Julien Bell - GM BluePlan
Cc: Jody Lee - GM BluePlan; Lambert, Phill
Subject: RE: Cole Farm SPS Q

Hi guys,

It seems that the best way to handle this to prevent future confusion is to correct the flows in the table.

Here, I have two corrections to incorporate:

Cole Farm SPS – PDWF 14 L/s based on the upstream pipe segment. This is very similar to the flow numbers from Glenn;

Biggar Lagoon – Operational firm capacity is 74 L/s instead of 54 L/s;

If you know of any other correction that would prevent additional questions and confusion, please feel free to make it and let us know.

As a next step to the finalization of the documentation, I wanted to discuss a Lessons Learned session to be held with a wider audience. Basically, to facilitate the meeting, collect an input about the latest MSPU process, what worked/what did not, flow coverage/ collection/validity/gaps/improvements for the next MSPU, etc.

This could be done in one session including the W&WW Services group (10 – 15 people) and a follow up session with a smaller group (2 – 5). Perhaps, we can schedule a meeting during September when you are available to discuss this in more details.

Let me know your thoughts.

Ilija

From: Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>
Sent: Friday, September 8, 2023 3:22 PM
To: Stetic, Ilija <ilija.Stetic@niagararegion.ca>
Cc: Jody Lee - GM BluePlan <Jody.Lee@gmblueplan.ca>
Subject: RE: Cole Farm SPS Q

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Hi Ilija,

Looked into this for you. Essentially what we have happening is that the pump start/stop level in the model are such that we caused minor backwater in the pumps are off, and a sudden rush of flow out when the pumps are off, causing an

artificial increase in peak flows. When I measure the flows one pipe segment up, the average flows are the same however, the peak flows are on 14 L/s.

As this station wasn't flagged for any capacity issues in the MSP, as such we didn't investigate the operations of the station to the same degree as the stations that were flagged for upgrades.

We can correct the flows in the table as part of the final submission. Which we are in the process of doing now.

Regards

Julien Bell, P.Eng.

Infrastructure Planning, Partner

GM BluePlan Engineering Limited

330 Trillium Drive, Unit D | Kitchener ON N2E 3J2

t: 519.748.1440 ext. 4264 | c: 416.254.6247

julien.bell@gmblueplan.ca | www.gmblueplan.ca



From: Stetic, Ilija <ilija.Stetic@niagararegion.ca>

Sent: Wednesday, September 06, 2023 4:29 PM

To: Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>

Cc: Jody Lee - GM BluePlan <Jody.Lee@gmblueplan.ca>

Subject: Cole Farm SPS Q

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B.3.2. Sewage Pumping Station

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Catchment	Total Service Equivalent Population	Existing Average Dry Weather Flow (L/s)	Existing Design Peak Wet Weather Flow (L/s)	Existing 2-Year Flow (L/s)	Existing 5-Year Flow (L/s)
Port Dalhousie Wastewater Treatment Plant (WWTP)	115,669	377.9	1,666.5	3,868.5	6,189.6
Port Dalhousie WWTP	81,109	257.6	1,057.8	1,858.5	3,345.0
Lakeside Sewage Pumping Station (SPS)	4,608	8.4	64.9	167.1	300.3
Lakeside SPS	2,482	3.6	24.0	57.3	103.0
Cole Farm SPS	2,127	4.6	40.1	107.9	194.0
Snug Harbour SPS	0	0.1	0.8	1.9	3.3
Lighthouse Road SPS	0	0.1	0.8	2.2	4.0
October Village SPS	1,692	1.3	5.7	11.3	20.0
St. Georges Point SPS	264	0.5	8.3	25.6	46.0
Wellandvale SPS	708	7.4	20.0	81.0	146.0
Argyle SPS	599	5.1	16.7	22.8	41.0
Eastchester SPS	2,204	6.7	32.6	88.6	118.1
Renown SPS	24,486	90.9	459.6	1,585.8	2,123.2
Renown SPS	15,058	73.0	349.8	1,353.0	1,799.8
Glendale SPS	24	0.3	2.8	7.9	11.0
Riverview SPS	1,827	0.1	2.3	7.2	10.0
Confederation Heights SPS	7,169	15.7	89.8	208.2	289.7
Beaverdams SPS	408	1.7	14.8	9.5	12.7

Note: Flow numbers may not sum due to rounding.

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From: [Stetic, Ilija](#)
To: [REDACTED]
Cc: [Alice Lin - GM BluePlan](#); [Jody Lee - GM BluePlan](#)
Subject: Comments regarding the 2021 Water and Wastewater Master Servicing Plan Update
Date: Friday, November 10, 2023 2:53:38 PM
Attachments: [REDACTED]

Dear [REDACTED],

Please, review our response to your comments received in June 2023 and let us know if an additional clarification is needed.

Best regards,

Ilija Stetic, B.Sc., CET, PMP

Manager W-WW Infrastructure Planning

Growth Strategy and Economic Development

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

www.niagararegion.ca

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November 6, 2023

[REDACTED]
[REDACTED]

RE: Comments regarding the 2021 Water and Wastewater Master Servicing Plan Update

Dear Mr. Hunter,

Thank you for providing your comments related to the 2021 Master Servicing Plan Update. We appreciate the time and consideration you've given to providing feedback on this project.

The 2021 Master Servicing Plan Update project recommendations were based on the Region's best available growth projections at the time. For the area tributary to the Stevensville and Douglastown Lagoons, the Region's 2051 growth projection generally accounts for the buildout of the remaining developable lands within the urban area boundary.

Due to the complexity and uncertainty in projecting the individual rate of growth for any individual development area, it was assumed to be consistent for the purposes of establishing the 2051 Capital needs. While it is possible that individual areas may develop differently than what was anticipated within the planning projections, the Region has established a flow and capacity monitoring process that is used to accelerate project timelines based on observed flows and active development applications. In areas where development applications exceed available capacity, the Region has a mechanism to delay additional growth until the needed capacity is constructed.

The Master Servicing Plan Update analysis and evaluation process did identify a potential future capacity concern with the Stevensville-Douglastown Lagoons having potential for exceeding the existing capacity by 2046. Although no firm strategy has been recommended in the Master Servicing Plan Update to address the long-term capacity requirement for the Stevensville-Douglastown catchment, the Master Servicing Plan Update does recommend the Region to undertake the Fort Erie QEW Corridor Long-Term Study (project WW-ST-002) to review and identify the preferred solutions to address the treatment strategy of the Town of Fort Erie (including the Crystal Beach and Anger Avenue wastewater treatment plant capacity needs) and future potential servicing of the QEW corridor to the north, with consideration for capacity, maintenance, and long-term operational cost. The timing for this project is yet to be confirmed. However, the Master

Servicing Plan Update recommended the Study be completed in the 2022 – 2026 time frame.

If you have any questions or require additional information, please feel free to contact the undersigned.

Yours truly,

A handwritten signature in black ink that reads "Ilija Stetic". The script is cursive and fluid, with the first name "Ilija" and last name "Stetic" clearly distinguishable.

Ilija Stetic, B.Sc., CET, PMP
Project Manager
Planning & Development Services
Niagara Region
1815 Sir Isaac Brock Way, PO Box 1042
Thorold, ON L2V 4T7
ilija.stetic@niagararegion.ca
905-980-6000

From: [Stetic, Ilija](#)
To: rbabic@cfcrozier.ca
Cc: [Alice Lin - GM BluePlan](#); [Jody Lee - GM BluePlan](#)
Subject: Comments regarding the 2021 Water and Wastewater Master Servicing Plan Update
Date: Friday, November 10, 2023 3:28:13 PM
Attachments: [2023-08-04 Crozier Engineering.pdf](#)
[Crozier_response letter.pdf](#)

Dear Mr. Babic,

Please, find attached our response to your comments received in August 2023.

Best regards,

Ilija Stetic, B.Sc., CET, PMP

Manager W-WW Infrastructure Planning

Growth Strategy and Economic Development

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

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November 6, 2023

Mr. Robert Babic
Crozier Consulting Engineers
rbabic@cfcrozier.ca

RE: Comments regarding the 2021 Water and Wastewater Master Servicing Plan Update

Dear Mr. Babic,

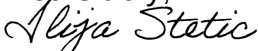
Thank you for providing your comments related to the 2021 Master Servicing Plan Update. We appreciate the time and consideration you've given to providing feedback on this project.

The recommendations in the Master Servicing Plan Update were made based on the best available planning information as of 2021. The Region has an active development capacity review process and will re-evaluate capacity needs when new development applications, which exceed the planning projections identified in the Master Servicing Plan Update. Please refer to the water and wastewater project implementation flow charts that are provided in Volume 3 and Volume 4 of the MSPU document. The intent of this implementation flow chart is to outline the necessary items to be reconfirmed by the Region prior to/during the design process for the recommended infrastructure projects.

It has been noted with the Region Master Servicing Plan Update team that Crozier Consulting Engineers have requested to be included in updates and discussions related to recommendations and preferred strategies undertaken by the Region within the Stevensville Secondary Plan area and the Douglas Town Black Creek Secondary Plan area.

If you have any questions or require additional information, please feel free to contact the undersigned.

Yours truly,

A handwritten signature in black ink that reads "Ilija Stetic".

Ilija Stetic, B.Sc., CET, PMP
Project Manager, Planning & Development Services
Niagara Region
1815 Sir Isaac Brock Way, PO Box 1042
Thorold, ON L2V 4T7
ilija.stetic@niagararegion.ca
905-980-6000

From: [Stetic, Ilija](#)
To: [Livia McEachern](#)
Cc: [Lambert, Phill](#); ["Sherri-Marie Millar"](#); [Matthew Main](#); ["James Sticca"](#); [Tonellato, Joseph](#); [Bradshaw, Roland](#); [Gabel, Richard](#); [Alice Lin - GM BluePlan](#); [Jody Lee - GM BluePlan](#); [Julien Bell - GM BluePlan](#)
Subject: 2021 Regional MSPU Response
Attachments: [2021 MSPU - Welland Enquiry.pdf](#)
[Welland CS MSP Tables.pdf](#)

Dear Livia and the Welland team,

The Region has finalized the 2021 Water & Wastewater MSPU and preparing the final copies of the documents to be available for all our partners. Thank you for all your inputs during the development of the final recommendations and during the whole MSPU process. Only together, we were able to make it work.

This response is to your enquiry submitted to us in August and will form a part of the Communication document included in the final copy.

The attached pdf. file called *2021 MSPU – Welland Enquiry* presents our collaborative response based on the received email below while the other file, *Welland CS MSP Tables* is a supporting document developed by the City's consultant.

Please, review the attached documents. They can also serve as a base for our future discussions about bringing an efficient and reliable water & wastewater services to our communities.

Best regards,

Ilija Stetic, B.Sc., CET, PMP

Manager W-WW Infrastructure Planning

Growth Strategy and Economic Development

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

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From: Livia McEachern

Sent: Thursday, August 10, 2023 5:29 PM

To: Stetic, Ilija Ilija.Stetic@niagararegion.ca

Cc: Lambert, Phill ; Sherri-Marie Millar ; Matthew Main ; James Sticca

Subject: RE: 2021 Water & Wastewater MSP Update

CAUTION EXTERNAL EMAIL: This email originated from outside of the Niagara Region email system. Use caution when clicking links or opening attachments unless you recognize the sender and know the content is safe.

Hello,

Apologies for the delayed response. I have attached previous correspondence and comments from the City of Welland. Could staff provide formal comments for the City's documentation? In addition, could staff also provide supplemental information in response to the comments below?

1. There are Regional projects identified in Welland's 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include:
 - a. Dain City SPS Storage Optimization
 - b. Woodlawn Trunk Sewer Upgrade

Can staff provide some clarification as to why these projects were not identified in the

Regional study?

2. The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region's Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City's Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade:
 - a. Ontario Rd – Southworth to Empress – 172 l/s
 - b. Ontario Rd – Empress to Ontario Rd SPS – 205 l/s

Can staff provide some clarification as to why this project was not identified in the Regional study?

3. There were low pressures identified in the Hunter's Point Area. Can staff confirm if the water analysis incorporated the Hunter's Point Booster Station?

Thank you in advance,



Livia McEachern, P.Eng.

Manager of Engineering

Infrastructure Services

60 East Main Street, Welland, Ontario L3B 3X4

☐ Phone: 905-735-1700 x2208

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From: Stetic, Ilija

Sent: Thursday, June 22, 2023 8:07 AM

To: D Graham ; Lambert, Phill ; Gabel, Richard ; Bradshaw, Roland ; Tonellato, Joseph ; Cimino, Tony ; Oatley, Jason ; Daw, Robert ; 'EVonk@lincoln.ca' ; 'WNeubauer@lincoln.ca' ; Lincoln Gillian ; Mike DiPaola ; 'Jennifer Bernard' ; Steve McGean ; Brandon Wartman ; 'Marvin Ingebrigtsen' ; K Walsh ; Chris Pisaric ; 'ckalimootoo@forterie.ca' ; Darlene Suddard ; M Green ; Christine Adams ; 'sheldon.randall@notl.com' ; 'Sean.Dunsmore@thorold.ca' ; Geoff Holman ; Brett Ruck ; Mike.Komljenovic ; Adam Allcock ; 'Abu.Rashed@thorold.ca' ; Sherri-Marie Millar ; Livia McEachern ; Jason Marr ; Eric Nickel ; 'kschachowskoj@niagarafalls.ca' ; Courteau, Craig ; Fulton, Glenn ; Epp, Greg (greg.epp@niagararegion.ca) ; VanVliet, Ed ; Zvaniga, Bruce ; Rurak, Dean ; Norio, Ann-Marie ; Tripp, Ron ; Harrison, Todd ; Ryall, Carolyn ; Daw, Robert ; Korchok, Andrew ; Rose, Janet ; Habermehl, Catherine ; Busnello, Pat ; Stea, Angela ; Morreale, Diana ; Richard Pinder - GM BluePlan ; Gabel, Richard ; Brunet, John ; Anthony Martuccio ; Chris Kalimootoo ; M Gruosso ; NOTL Jeff ; R Nan

Cc: Lambert, Phill ; Sergi, Michelle ; Tripp, Ron

Subject: 2021 Water & Wastewater MSP Update

WARNING: This email originated from an external sender. eMail from City of Welland email accounts will not begin with this warning! Please do not click links or open attachments unless you are sure they are safe!

Please, review the Final Master Plan Documentation for the Niagara Region 2021 Water and Wastewater Master Servicing Plan Update.

The documentation will be available on the project website (<https://niagararegion.ca/projects/www-master-servicing-plan/default.aspx>) for a 45-day public review period starting **Thursday, June 22, 2023**.

Should you have any questions regarding this study, please contact the Niagara Region Project Manager at niagaramspu@niagararegion.ca.

Sincerely,

Ilija Stetic, B.Sc., CET, PMP

Manager W-WW Infrastructure Planning
Growth Strategy and Economic Development

Niagara Region

Phone: 905-980-6000 ext. 3777 Toll-free: 1-800-263-7215

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October 17, 2023

Hello,

Thank you for submitting your comments to the Regional 2021 Water & Wastewater Master Servicing Plan Update (MSPU).

As per your request, Regional staff have reviewed your questions with GM Blue Plan and have prepared these formal responses:

1. *There are Regional projects identified in Welland's 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include:*
 - a. *Dain City SPS Storage Optimization*
 - b. *Woodlawn Trunk Sewer Upgrade*

Can staff provide some clarification as to why these projects were not identified in the Regional study?

1.
 - a. The 2021 MSPU is now planning for a higher peak flow at the Dain City sewage pumping station to accommodate the estimated growth out to 2051 of 6,595 people and jobs along with the 0.4 L/s/ha wet weather flow design allowance for the existing catchment while keeping 0.286 L/s/ha for the new development. Based on the higher flow estimates, a capacity upgrade to the Dain City SPS has been recommended in the 2021 MSPU. This Dain City SPS upgrade replaces the Storage Optimization project; however, as part of this project, there will be a review of the existing wet well sizing and available system storage.
 - b. The PPCP identified the Woodlawn Trunk Sewer Upgrade as being optional if the 25% I&I reduction wasn't achieved. The 2021 MSPU made a general assumption that the identified local I&I reduction targets would be achieved. Based on this and the projected growth out to 2051, the project wasn't included in the 2021 MSP. Note that the upgrade needs of this project are also subject to the degree of flow diversion with the new Regional Quaker Road Sewer Project, as with a larger diversion of flow, it could further reduce any potential upgrades needed along the Woodlawn Trunk Sewer in the longer term.

In the future, should there be a significant increase in the proposed development density and sanitary flows in the City's Northwest Secondary Plan area and the City of Thorold's Port Robinson West Secondary Plan area, then an overall assessment of the Woodlawn Sewer upgrade, along with potential sewer upgrades along Quaker Road will need to be revisited. Again, I&I reduction in the sanitary system is an essential part of the overall servicing strategy to accommodate growth in Niagara.

2. *The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region's Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s*

or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City's Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade:

- Ontario Rd – Southworth to Empress – 172 l/s
- Ontario Rd – Empress to Ontario Rd SPS – 205 l/s

Can staff provide some clarification as to why this project was not identified in the Regional study?

2. The City's 2020 PPCP & MSP identified projects WW-SS-003 Ontario Road Sewer Upgrade and WW-SS-006 Ontario Road Sewer Extension, with the City as the Infrastructure Owner. City and Regional staff had several meetings and discussions in 2022 and early 2023 about the City's ownership of these infrastructure projects. Additionally, these Ontario Road Sewer projects were identified in the City's 2022 Development Charges Background. Sections of both reports are provided below.



Table 53: Wastewater Capital Program Summary – Required Projects

Capital Program ID	Name	Overview	Sanitary Catchment	Priority Area	Project Description	Required Studies	Class EA Schedule	Project Type	Size/Capacity	Length (m)	Infrastructure Owner	Funding Source/Responsibility	Total Estimated Cost (2020\$)	Timeline	DC Benefit to Existing Class
WW-SS-001	Sewer	Broadway Trunk Upgrade	WWTP	Broadway	Sewer Upgrade of Broadway Trunk		A+	Sewer 10m	600 mm	1,000	City	DC Eligible	\$ 6,145,000	0-5 Years	E
WW-SS-002	Sewer	Broadway Local Sewer Reconfiguration and Upgrades	WWTP	Broadway	Local sewer reconfiguration, deepening, and upgrading to accommodate existing peak flow and growth capacity needs, while also providing sufficient freeboard to achieve the 2.4 m freeboard level of service objective		A+	Sewer 5m	300 mm	2,015	City	DC Eligible	\$ 2,413,000	0-5 Years	E
WW-SS-003	Sewer	Ontario Road Sewer Upgrade	Ontario Rd	Ontario Rd	Upgrade and deepen 500 m of the Ontario Rd tank sewer from Ontario Rd SPS to Empress Avenue. The existing sewer will be upgraded to 900 mm and lowered to approximately 10 m depth.		A+	Sewer 10m	900 mm	500	City	DC Eligible	\$ 4,323,000	0-5 Years	D
WW-SS-006	Sewer	Ontario Road Extension	Ontario Rd	Ontario Rd	New 600 mm trunk sewer extending along Ontario Road. Sewer sized to accommodate full buildout and provide storage for wet weather resilience.	Detailed Servicing Study	A+	Sewer 10m	600 mm	1,600	City	DC Eligible	\$ 11,550,000	10-20 Years	B
WW-SS-007	Sewer	East Forks Sewer Upgrade	Dain City	Dain City	Upgrade of existing sewers on Forks Road to support Dain City Community Development		A+	Sewer 5m	300 mm	300	City	DC Eligible	\$ 359,000	0-5 Years	A

Appendix D-9
Table 1
City of Welland
Wastewater

Capital Costs Included in the Development Charges Calculation

Increased Service Needs Attributable to Anticipated Development 2022-2041	Year Required	Gross Project Costs	Less: Grants, Subsidies & Development Contributions Attributable to New Development	Net Capital Costs	Less: Benefits to Existing Development		Total Development Recoverable Costs	Less: Adjustments	Total Development Recoverable Costs Net of Adjustments	Post Period Capacity to be Carried Forward	Total Development Recoverable Costs Adjustment Due to Service Level Cap	DC Eligible Costs	
					\$	%						Residential Share	Non-Res. Share
Buchner Road Sewer Extension (Highway #140 to West limit) - 650m	2026	\$ 900,000		\$ 900,000	\$ -	0%	\$ 900,000		\$ 900,000				
Brown Road Sanitary Sewer (Woodlawn Road to Oxford Road) - 1400m	2025	\$ 1,900,000		\$ 1,900,000	\$ -	0%	\$ 1,900,000		\$ 1,900,000				
Broadway Trunk Upgrade - 1000m	2022	\$ 6,145,000		\$ 6,145,000	\$ 4,279,974	70%	\$ 1,865,026		\$ 1,865,026				
Broadway Local Sewer Reconfiguration and Upgrades - 2015m	2022	\$ 2,413,000		\$ 2,413,000	\$ 1,680,647	70%	\$ 732,353		\$ 732,353				
Ontario Road Sewer Upgrade (From SPS to Empress Ave) - 500m	2022	\$ 4,323,000	\$ 2,161,500	\$ 2,161,500	\$ 1,505,478	70%	\$ 656,022		\$ 656,022				
Empress Ave Sewer Upgrade (Ontario Rd to Sutherland Ave) - 300m	2026	\$ 4,457,000		\$ 4,457,000	\$ -	0%	\$ 4,457,000		\$ 4,457,000				
Plymouth Rd In-line Storage (Churchill Ave to First St) - 370m	2026	\$ 1,353,000		\$ 1,353,000	\$ 942,360	70%	\$ 410,640		\$ 410,640				
Danier Parkway Sewer Upgrade - 500 m	2028	\$ 2,845,000		\$ 2,845,000	\$ 682,800	24%	\$ 2,162,200		\$ 2,162,200				
Oxford Road Sewer Upgrade - 140m	2028	\$ 406,000		\$ 406,000	\$ 97,440	24%	\$ 308,560		\$ 308,560				
Ontario Road Sewer Extension (Empress Ave to King St) - 1600m	2031	\$ 11,550,000		\$ 11,550,000	\$ 2,772,000	24%	\$ 8,778,000		\$ 8,778,000				
New Oxford Road - Highway 406 Crossing	2031	\$ 717,000		\$ 717,000	\$ -	0%	\$ 717,000		\$ 717,000				
Forks Road Sanitary Sewer - 850m	2022	\$ 923,100		\$ 923,100	\$ 738,480	80%	\$ 184,620		\$ 184,620				
				\$ -	\$ -	-	\$ -		\$ -				
Inflow and Infiltration (I&I)				\$ -	\$ -	-	\$ -		\$ -				
Flow Monitoring	2022	\$ 8,423,000	\$ 4,211,500	\$ 4,211,500	\$ 2,105,750	50%	\$ 2,105,750		\$ 2,105,750				
City Wide I&I Reduction Program	2022	\$ 10,000,000	\$ 5,000,000	\$ 5,000,000	\$ 2,500,000	50%	\$ 2,500,000		\$ 2,500,000				
Broadway Priority I&I Reduction Program	2022	\$ 6,158,000	\$ 3,079,000	\$ 3,079,000	\$ 1,539,500	50%	\$ 1,539,500		\$ 1,539,500				
Ontario Road Priority Area Study I&I Reduction Program (North)	2022	\$ 8,340,000	\$ 4,170,000	\$ 4,170,000	\$ 2,085,000	50%	\$ 2,085,000		\$ 2,085,000				
Ontario Road Priority Area Study I&I Reduction Program (South)	2022	\$ 7,589,000	\$ 3,794,500	\$ 3,794,500	\$ 1,897,250	50%	\$ 1,897,250		\$ 1,897,250				
Dain City Priority Area Study and I&I Program	2022	\$ 4,784,000	\$ 2,392,000	\$ 2,392,000	\$ 1,196,000	50%	\$ 1,196,000		\$ 1,196,000				
Plymouth Rd Priority Area Study and I&I Reduction Program	2026	\$ 9,866,000	\$ 4,933,000	\$ 4,933,000	\$ 2,466,500	50%	\$ 2,466,500		\$ 2,466,500				
Prince Charles Drive South Study and I&I Reduction Program	2026	\$ 9,866,000	\$ 4,933,000	\$ 4,933,000	\$ 2,466,500	50%	\$ 2,466,500		\$ 2,466,500				
Feeder Rd Priority Area Study and I&I Reduction Program	2026	\$ 3,428,000	\$ 1,714,000	\$ 1,714,000	\$ 857,000	50%	\$ 857,000		\$ 857,000				
Woodlawn Rd Priority Area Study and I&I Reduction Program	2026	\$ 6,087,000	\$ 3,043,500	\$ 3,043,500	\$ 1,521,750	50%	\$ 1,521,750		\$ 1,521,750				
Seaway Heights Priority Area Study and I&I Reduction Program	2026	\$ 5,294,000	\$ 2,647,000	\$ 2,647,000	\$ 1,323,500	50%	\$ 1,323,500		\$ 1,323,500				
Welland River Inflow Investigation and Valve Installations	2022	\$ 1,475,000	\$ 737,500	\$ 737,500	\$ 368,750	50%	\$ 368,750		\$ 368,750				

As stated in your question, the Regional trunk mains are defined by having 170 L/s or more Peak Dry Weather Flow (PDWF) utilizing Regional design criteria.

The reason for potential confusion of ownership of the sanitary sewer trunk appears to be found in the shared Commercial Street MSP by Kerry T. Howe (CS MSP). This report presented an estimated existing PDWF that is substantially higher than the existing observed PDWF in the sewer in the Region's 2021 MSP. The report projects twice as much growth as the Region's 2021 MSP which resulted in a much greater PDWF.

When using the lower existing baseline PDWF and lower growth projections from the Region's 2021 MSP, the estimated 2051 PDWF in the Ontario St. Sewer remains below the 170 L/s threshold for PDWF

Comparing the 2021 MSPU and the CS MSP, there is a design calculation for sizing wastewater infrastructure that is not normally used for the separate sewer systems in the CS MSP.

The Ministry recommended value for extraneous flow allowance is in the range of up to 0.28 L/s/ha. The Region is using 0.286 L/s/ha for all new developments and the CS MSP used 1.7 L/s/ha for the future growth and 1.2 L/s/ha for the existing area upgrades allowing treatment of storm water through our shared infrastructure that does not need the same level of treatment as domestic wastewater.

The differences in the existing and future flows are summarized and presented below:

Existing Flows

I. 2021 MSPU

Estimated existing flows and PDWF using the all-pipes model, which was calibrated to historic flow monitoring data and the Region's SCADA records at the Region Ontario Road SPS.

- Estimated existing PDWF on Ontario Road are:
 - 13 L/s at Empress
 - 14 L/s at Memorial Park
 - Note that PDWF at Ontario Road SPS of 82.4 L/s is largely due to influence of upstream Dain City SPS. An average dry weather flow (ADWF) at this station is 37 L/s
- Per capita flow rates
 - The 2021 MSPU used 255 L/c/day (residential) and 310 L/e/day (employment)
- Estimated total population in 2021
 - 2021 MSPU at Ontario Road SPS – approximately 9,600 people and jobs
- Extraneous flow allowance in design calculations
 - Baseline existing system flows (billing meter records and flow monitoring data)

II. Commercial Street MSP (CS MSP) - reference table is attached

Estimated existing flows and PDWF using an estimated population and a per capital flow rate/criteria that are both higher than what is used in the Regional 2021 MSPU

- Estimated existing PDWF on Ontario Road:
 - 97 L/s at Empress
 - 103 L/s at Memorial Park
 - Note that estimated PDWF at Ontario Road Station is approximately 99 L/s, which is approximately 3 times higher than observed ADWF
- Per capita flow rates
 - The CS MSP used 275 L/c/day
- Estimated total population in 2021
 - CS MSP at Ontario Road SPS - approximately 31,000 people and jobs in total contributing areas
- Extraneous flow allowance in design calculations
 - 1.7 L/s/ha

Future Flows

I. 2021 MSPU

Projected 2051 flows by using the existing flows, PDWF, and adding the additional growth flows on-top of existing flows

- Total 2051 growth in the Ontario Road SPS was 6,132 (plus 6,595 in the Dain City SPS catchment)
- Extraneous flow allowance in design calculations
 - 0.286 L/s/ha

II. CS MSP - reference table is attached

Estimated flows and PDWF using total estimated population and a per capital flow rate are both higher than what is used in the Regional 2021 MSPU

- CS MSP appears to have estimated growth of approximately 12,600 people within the Ontario Road sewer catchment
 - CS MSP estimated existing PDWF on Ontario Road at Memorial Park at 195 L/s
- Extraneous flow allowance in design calculations
 - 1.7 L/s/ha and 1.2 L/s/ha

3. *There were low pressures identified in the Hunter's Point Area. Can staff confirm if the water analysis incorporated the Hunter's Point Booster Station?*

3. The water analysis in the 2021 MSPU did not account for the Hunter's Point BPS. It is being included in the Bemis ET EA.

It will be important for the City and Region to continue working together to accommodate anticipated growth as well as providing an appropriate level of service in the sanitary system. In addition to the future Regional capacity improvement projects, it is essential that the City focus on extraneous flows reduction. The CSO Funding Program is an excellent option to assist the City in addressing these issues and is helping the City with remedial action plans.

We will be happy to meet about the information provided should you find that an additional discussion is mutually beneficial.

Best Regards,

Ilija Stetic, B.Sc., CET, PMP

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Growth Strategy and Economic Development

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From: [Stetic, Ilija](#)
To: [Livia McEachern](#)
Cc: [Sherri-Marie Millar](#); [Alice Lin - GM BluePlan](#); [Jody Lee - GM BluePlan](#)
Subject: Comments regarding the 2021 Water and Wastewater Master Servicing Plan Update
Date: Friday, November 10, 2023 3:40:45 PM
Attachments: [2021 Regional MSPU Response.msg](#)
[City of Welland Comments Tracking.xlsx](#)

Dear Ms. McEachern,

Thank you again for providing your comments related to the 2021 Master Servicing Plan Update in August 2023. We appreciate the time and consideration you've given to providing feedback on this project.

In addition to our responses to your comments provided last month, here is a comments tracking sheet for your file.

Best regards,

Ilija Stetic, B.Sc., CET, PMP

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Growth Strategy and Economic Development

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Document	Slide	Date received	Comment ID	City Comment	GMBP Comment
Feb 22, 2022 LAM Workshop Slides	1	3/4/2022	1	Please confirm growth values with City of Welland Planning. Some mapping seemed inconsistent.	Growth values were based on best available planning information from the Region at the time of the study. The Region has established a flow and capacity monitoring process that is used to adjust project timelines earlier or later based on observed flows and active development applications.
Feb 22, 2022 LAM Workshop Slides	5	3/4/2022	2	Should per capita consumption be area or catchment specific to account for the individual needs of each system. In 2020, we reviewed the per-capita generation for Welland based on data for the previous 3 years. This review resulted in a recommended generation rate of 300 L/cap-day (although no distinction was made between residential and ICI). Note that these calculations did not include the demand for the auto-flushers, which was removed from the total demand prior to completing the per-capita calculations. Please confirm how the generation rates for the MSP were determined.	Local billing data for 3 years (2018 - 2020) for all local area municipalities was used to support the analysis for determining water per capita usage rates. A separate review of WTP production rates was completed with the local billing data to support the non-revenue water analysis. It is our understanding that the auto-flushers are not billed and would thus be included as non-revenue water. the 2016 MSPU recommended a usage rate of 300 L/c/d. Based on the balance of analysis results across all LAMs, the 2021 MSPU recommended a reduction for residential and employment usage rates. The changes represent a 20% reduction for residential rates and 10% for employment rates. Further reduction was not completed to maintain a level of conservatism.
Feb 22, 2022 LAM Workshop Slides	5	3/4/2022	3	What value is being used for Welland?	Welland maximum day demand peaking factor is 1.49
Feb 22, 2022 LAM Workshop Slides	6	3/4/2022	4	The existing modelling should include the booster station.	The water analysis in the MSP didn't not account for the Hunter's Point BPS. It is being included in the Bemis ET EA.
Feb 22, 2022 LAM Workshop Slides	8	3/4/2022	5	How will the new WTP build affect these numbers?	Region indicated that the WTP project involves replacement of the Welland WTP with 73 MLD in approximately the same location.
Feb 22, 2022 LAM Workshop Slides	8	3/4/2022	6	Is the floating storage volume the only portion that can service the distribution system per MECP requirements?	No, pumped and floating storage volume can service the distribution system. Effective system storage volume from the WTP reservoir was revised as part of this MSPU - refer to Volume 3 section 2.6.5 for more information.
Feb 22, 2022 LAM Workshop Slides	11	3/4/2022	7	Why is this project from the previous MSP the only previous project mapped? And vice versa, there are projects in the table from the previous MSP that are not mapped?	The previous MSP included 5 projects, 4 in Pelham and 1 in Welland, which are all mapped in this figure.
Feb 22, 2022 LAM Workshop Slides	11	3/4/2022	8	Neither option has a canal crossing.	Noted
Feb 22, 2022 LAM Workshop Slides	13	3/4/2022	9	Can you provide the proposed timing for each project for City comment? Will timing reflect the rapid rate of growth in Welland?	Please refer to Table 3.F.13 of the 2021 MSPU document (Volume 3)
Feb 22, 2022 LAM Workshop Slides	13	3/4/2022	10	Are the Dain City alternatives swapped? Mapping contradicts table. However, City still supports Alternative 1. Alternative 1 provides security of supply to the west and south.	Noted
Feb 22, 2022 LAM Workshop Slides	14	3/4/2022	11	The new WTP Plant and Intake have not been included.	The new WTP project has been included in the final capital program and MSPU documentation.
Feb 22, 2022 LAM Workshop Slides	15	3/4/2022	12	Can you provide the proposed timing for comment? Will timing reflect the rapid rate of growth in Welland?	Please refer to Table 3.F.13 of the 2021 MSPU document (Volume 3)
Feb 22, 2022 LAM Workshop Slides	15	3/4/2022	13	It was our understanding based on recent discussions with the Region that a watermain extension was planned on Woodlawn (easterly to connect the existing watermain at Niagara St intersection to watermain at River Rd intersection). Is this project no longer planned?	This project was not discussed with the Region in the context of growth-related MSPU projects. GMBP cannot comment on Region's intentions with respect to this project.
Feb 22, 2022 LAM Workshop Slides	15	3/4/2022	14	What happened to W-M-003?	The preliminary alignment shown for W-M-003 through the 2016 MSPU was not preferred by the Region project team. The alignment was updated for this project and renamed to W-M-017, which serves the same function as the 2016 W-M-003 project.
Feb 22, 2022 LAM Workshop Slides	17	3/4/2022	15	Why are the per capita outputs higher than the per capita for water inputs?	Please refer to Section 2.4.1 in Volume 4 of the 2021 MSPU document.
Feb 22, 2022 LAM Workshop Slides	17	3/4/2022	16	Welland may have higher I/I and using an average value for the Region will not account for all I/I in the system.	Region made the allowance for existing catchments to go up to 0.4 L/s/ha. Balance between increasing criteria and triggering significant infrastructure upgrades which do not address the I/I issues. Methodology for triggering SPS upgrades has changed in the 2021 MSPU.
Feb 22, 2022 LAM Workshop Slides	17	3/4/2022	17	GMBP recommended that the City evaluate the wastewater system using a 10 year design storm. The Region is using a 5 year storm due to the effects a 10 year storm has on the entire region. Does it make sense to evaluate each WWTP catchment differently?	The Region and local area municipalities have substantially increased their awareness of wet weather flow management during the last 10 years. This is reflected in the stepped increase in the desired system level of service that has been implemented in successive Master Plans. The Region selected a 5-year target based on achieving an equitable target across all municipalities. The hope is that over time, with a joint approach to wet weather flow reduction, is that a 10-year level of service (or greater) can be achieved across all systems. We would encourage municipalities who have the ability to target the higher 10 year design storm target in their local system.
Feb 22, 2022 LAM Workshop Slides	17	3/4/2022	18	What performance criteria will be used to minimize basement flooding? i.e. > 2.5m surcharge from surface?	Freeboard greater than 1.8 m below surfance in 5-year design storm
Feb 22, 2022 LAM Workshop Slides	20	3/4/2022	19	Will the increase in flows from Pelham limit the rate of growth in Welland? What is the timing for the upgrade at the Towpath SPS? Significant growth is expected in the short term.	Please refer to Table 3.K.10 of the 2021 MSPU document (Volume 4)
Feb 22, 2022 LAM Workshop Slides	20	3/4/2022	20	At recent meetings for the SPS upgrade project, Region staff noted that the proposed scope of work did not include capacity upgrades (WW-PS-002) or storage optimization (WW-PS-003) as recommended in the previous MSP. What is the proposed timing for this work? Will timing reflect the rapid rate of growth in Welland?	Please refer to Table 3.K.10 of the 2021 MSPU document (Volume 4)

Feb 22, 2022 LAM Workshop Slides	23	3/4/2022	21	FYI, the City is completing watermain work on Foss Road in 2022.	Noted
Feb 22, 2022 LAM Workshop Slides	23	3/4/2022	22	How was this total calculated? What proposed works are part of the \$30M?	This was a high level estimate given the existing state of inflow and infiltration and an estimate of what can realistically be removed from the system.
Aug 10, 2023 Email from Livia	-	8/10/2023	23	1. There are Regional projects identified in Welland’s 2020 PPCP & MSP Update that were not identified in the Regional MSP Update. Those projects include: a. Dain City SPS Storage Optimization b. Woodlawn Trunk Sewer Upgrade Can staff provide some clarification as to why these projects were not identified in the Regional study?	a. The MSP now planning for a higher peak flow at the station, to accommodate the estimated growth of 6,500 people and jobs growth, and with the 0.4 L/s/ha allowance for existing areas. Based on the higher flow estimates a capacity upgrade to the Dain City SPS is now recommended, when before it wasn’t. The SPS upgrade replaces the Storage Optimization project b. The PPCP identified the upgrade as being optional if the 25% I&I reduction wasn’t achieved. The MSP made the general assumption that the identified local I&I reduction targets would be achieved, as such the project wasn’t included. Note the upgrade needs of this project are also subject to the degree of flow diversion at the Quaker Road Sewer, with a larger diversion further reducing any potential upgrade needs along Woodlawn. The general need for the Woodlawn Sewer upgrade, along with potential sewer upgrades Quaker Road will need to be revisited in light of the increased proposed density in the City’s northwest and potentially within the City of Thorold’s Port Robinson east.
Aug 10, 2023 Email from Livia	-	8/10/2023	24	2. The Ontario Rd Sewer upgrade identified in the City 2020 PPCP & MSP meets the requirements of a Regional Wastewater Trunk Main as identified in the Niagara Region’s Development Charges Background Study Appendix E: Local Service Policy. Regional trunk mains are defined by having 170 l/s or more DWF. This upgrade was not identified in the Regional MSP. When investigated more closely though the City’s Commercial Street MSP the following DWF were calculated for the Ontario Rd Sewer upgrade: a. Ontario Rd – Southworth to Empress – 172 l/s b. Ontario Rd – Empress to Ontario Rd SPS – 205 l/s Can staff provide some clarification as to why this project was not identified in the Regional study?	Please see the next tab providing additional justification. In general terms the Commercial Street MSP has an estimated existing peak dry weather flow that is substantially higher than the existing observed peak dry weather flows in the sewer. Additionally, the Commercial Street MSP is projecting twice as much growth. When correcting for the lower existing baseline and lower growth projections, the 2051 peak dry weather flows remain below the 170 L/s threshold. Note: my response is based on a draft June 27, 2022 version of the Region that looks to differ from the latest. However, rational and justification should remain similar.
Aug 10, 2023 Email from Livia	-	8/10/2023	25	3. There were low pressures identified in the Hunter’s Point Area. Can staff confirm if the water analysis incorporated the Hunter’s Point Booster Station?	The water analysis in the MSP didn’t not account for the Hunter’s Point BPS. It is being included in the Bemis ET EA.