Welcome!

To the Municipality of Lakeshore's

County Road 22 Sewer Expansion Project
Public Information Centre

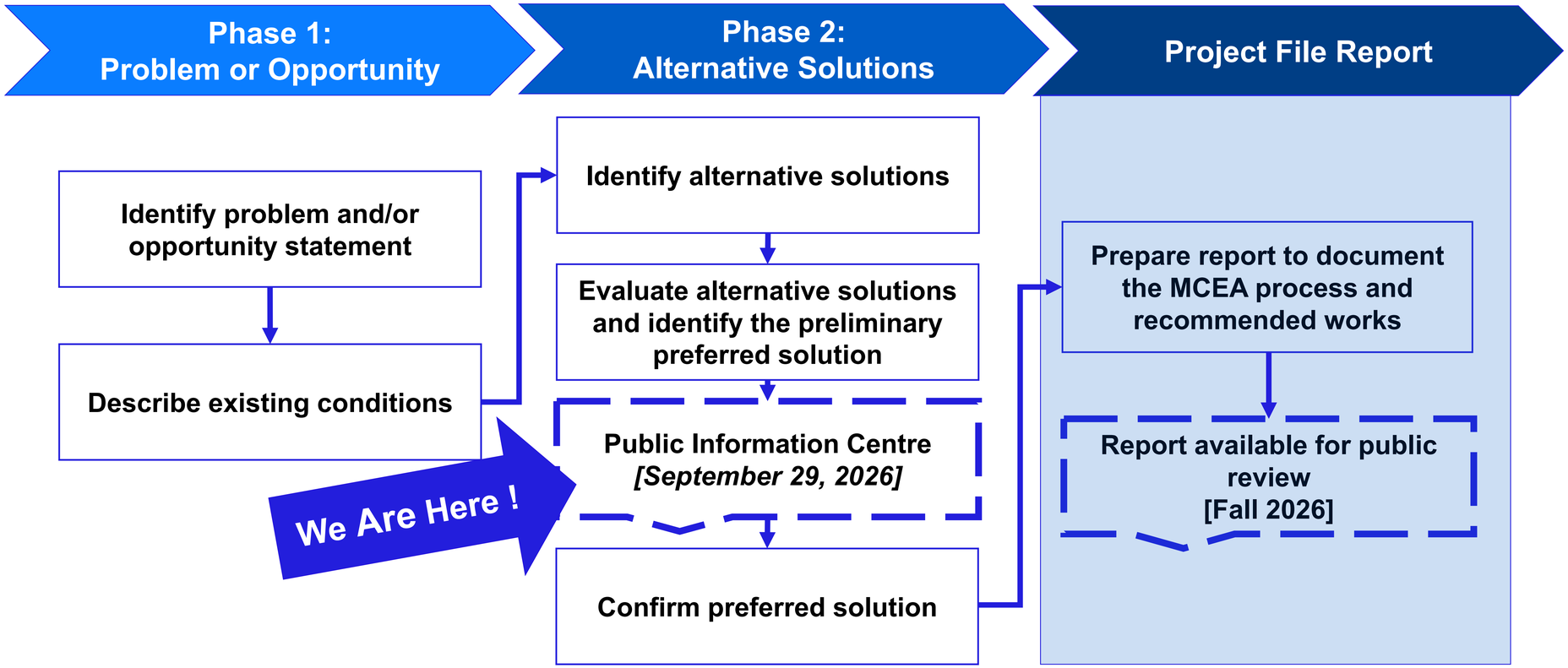
- Please sign in and feel free to browse the information panels.
- Your comments are important to us. Please complete the survey here (paper copies are available) or online at **www.Lakeshore.ca/living-here/community-input/county-road-22-sewer-expansion-project/** prior to October 14, 2026.
- Staff from the Municipality and their consultants (Jacobs) are available to answer any questions that you have.
- French interpretation services are available during the Public Information Centre / *Des services d'interprétation en français seront offerts lors de la séance d'information publique.*

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Overview of Planned Public Engagement & Schedule

The County Road 22 Sewer Expansion Project will be completed in accordance with the Municipal Engineers Association's process for Schedule B Municipal Class Environmental Assessments (MCEA) and complete phases 1 and 2 of the 2024 amended Class EA Process.



This Public Information Centre provides an opportunity for members of the community to:

- Understand the project background, servicing needs, evaluation criteria, potential impacts and preliminary findings.
- Review on the proposed pump station alternative solutions.
- Understand decision-making process used to identify the preliminary preferred pump station solutions.
- Ask questions and seek clarification from Municipal staff and their consultants (Jacobs).
- Provide feedback on the preliminary preferred pump station solutions.

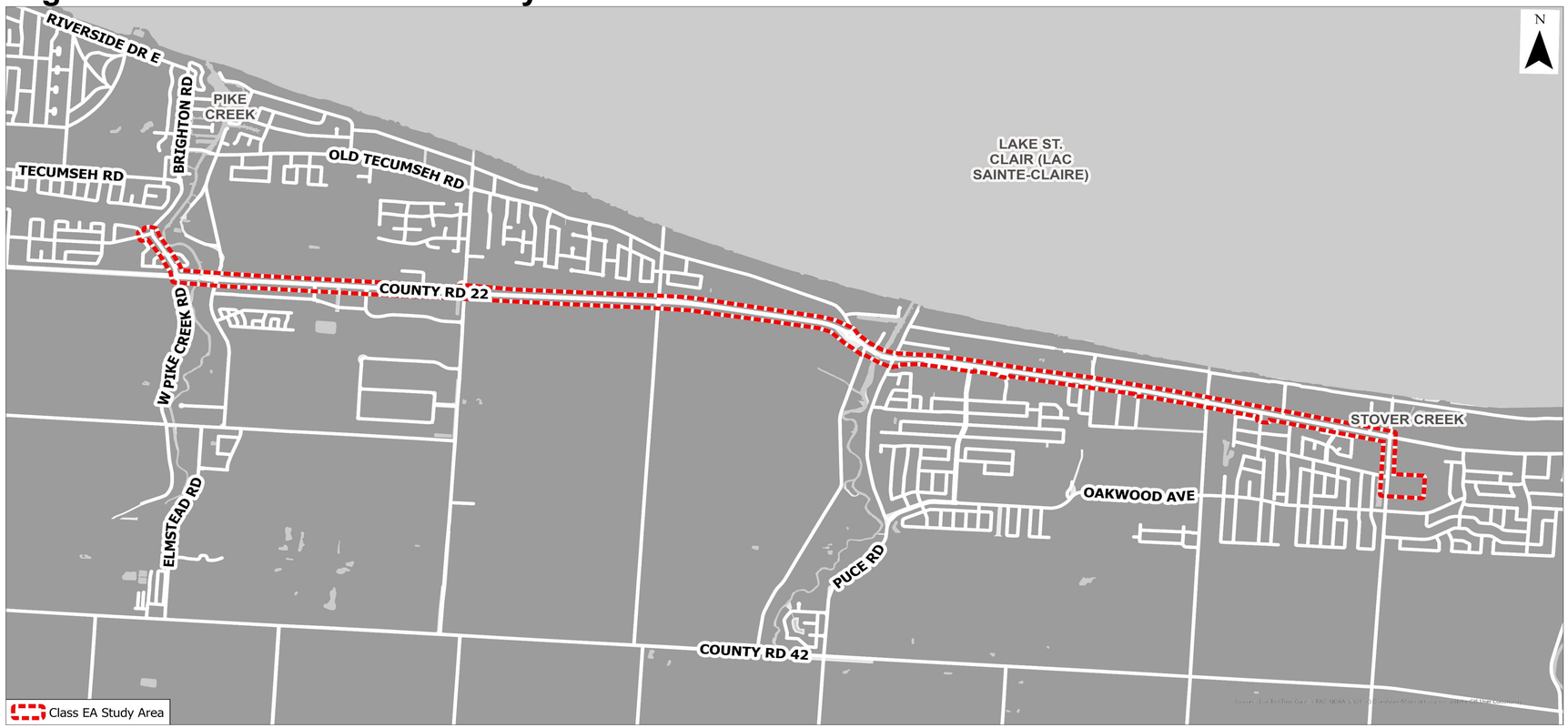
Your feedback is important to us, please complete the provided survey.

Study Area, Background, and Purpose

Background: The 2024 Water and Wastewater Master Plan (WWMP) identified the need to expand and upgrade the County Road 22 trunk sewer to support growth, enhance wastewater system and enable future housing development. The County Road 22 trunk sewer route was evaluated, selected, and finalized through the 2024 WWMP.

Purpose of Study: This study will complete a Schedule B Municipal Class Environmental Assessment (MCEA) to identify the number, location, and configuration of pump stations required along the County Road 22 trunk sewer route, in accordance with the Municipal Engineer Association's process for MCEA's. Figure 1 illustrates the Study Area for this Schedule B MCEA, pump stations will be identified within this area.

Figure 1: Schedule B MCEA Study Area



Problem and Opportunity Statement

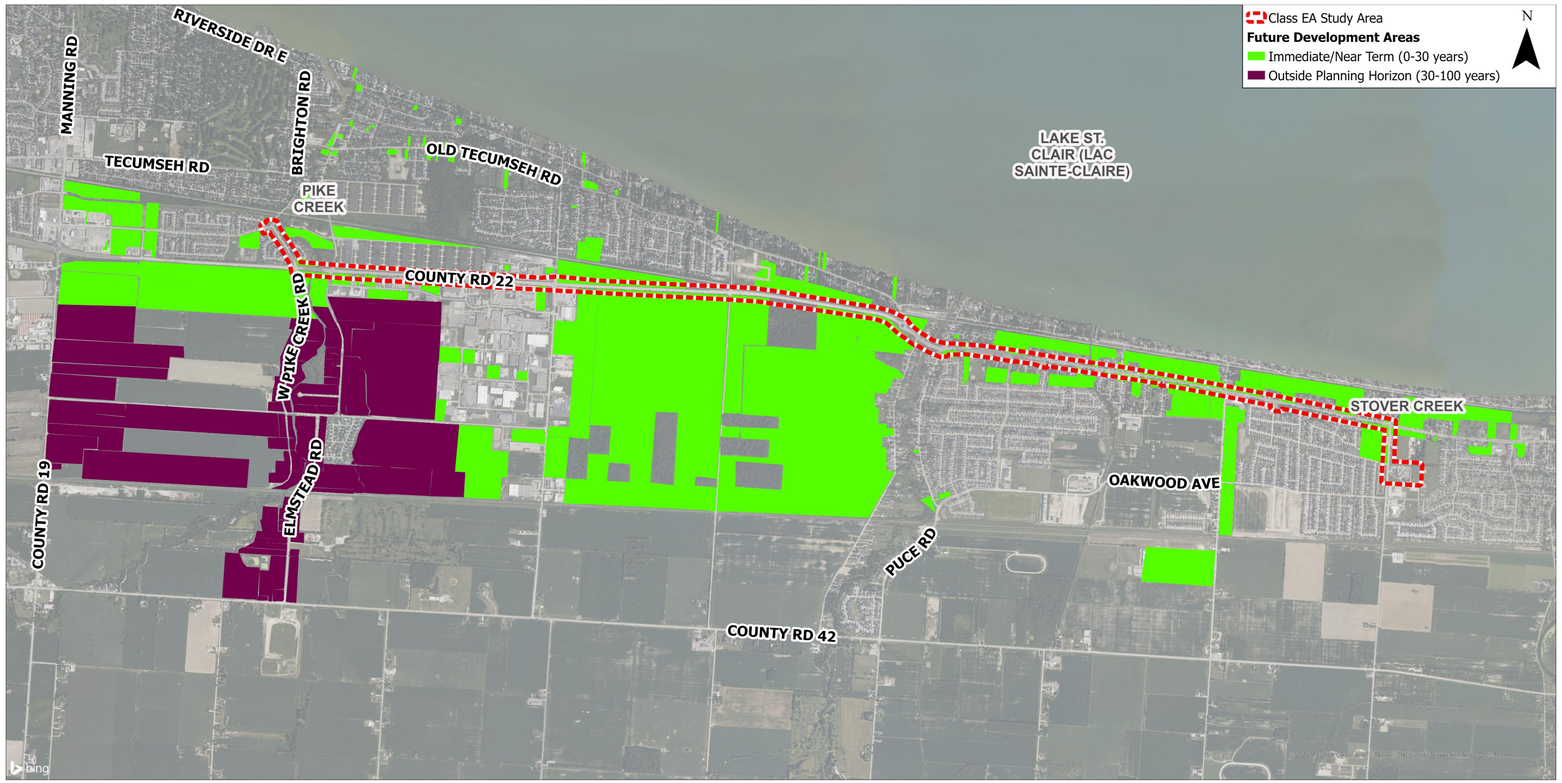
The County Road 22 trunk sewer requires new and upgraded pump stations along the trunk sewer route to provide capacity for future growth and convey wastewater to the Denis St Pierre Water Pollution Control Plant. This Schedule B Municipal Class Environmental Assessment will identify the number of pump stations required, identify where new pump stations are needed, and identify options to expand existing pump stations to provide capacity to service future growth.

The addition of new and upgraded sanitary pumping stations are required to provide capacity to convey wastewater to the Denis St. Pierre Water Pollution Control Plant.

In addition to provided capacity for the addition of new homes in Lakeshore, this project provides opportunities to leverage and improve the function of the existing infrastructure, appropriately size new infrastructure to support housing and economic development, provide adaptation and resiliency, improve energy efficiency, protect the environment, and protect human health and safety.

The County Road 22 Sewer Expansion Project will provide additional sanitary sewer capacity to enable the addition of 13,500 new homes within the area serviced by the new trunk sewer.

Future Conditions



Two growth scenarios were developed to inform the County Road 22 trunk sewer expansion pump station sizing, as recommended in the 2024 Water and Wastewater Master Plan (WWMP). The timeline of these scenarios align with the expected service lives of the infrastructure associated with the pump stations and trunk sewer.

Growth Scenario	Future Population	Future Flow (liters per second)	Description
2060 (30-year horizon)	**Residential:** 81,300 **Equivalent Industrial, Commercial, Institutional (ICI):** 14,800	**Peak:** 1,500 litres per second **Average Dry Weather Flow:** 850 litres per second	This growth scenario will inform pump station capacities.
Full Build Out (30 to 90-year horizon)	**Residential:** 95,800 **Equivalent ICI:** 24,100	**Peak:** 1,600 litres per second **Average Dry Weather Flow:** 900 litres per second	This population/flow scenario will inform the pump station storage capacities and trunk sewer sizing.

Note: Future WWMP updates will identify solutions and timelines to bring sanitary servicing to the unserviced areas presented in this figure.

Identification and Evaluation of Pump Station Alternatives

The method for identifying and evaluating Pump Station alternatives is consistent with the decision-making process defined by the Municipal Engineers Association for Municipal Class Environmental Assessments.

Step 1: Identify the Number & Location of Pump Stations

This step determines the number and approximate location of pump stations needed to meet sanitary flow needs in the new County Road 22 trunk sewer.

SCREENING EXERCISE

Long List of Alternative Solutions:
Pass/Fail Criteria are used to screen a **long list of possible alternatives** to eliminate options that are not feasible and do not align with Municipal priorities.

DETAILED EVALUATION

Short List of Alternative Solutions:
Detailed Evaluation Criteria are **used to evaluate the short-listed** alternatives.
Criteria represent the following categories:

- Technical Environment
- Natural Environment
- Social/Cultural Environment
- Economic Environment

IDENTIFY SOLUTION

Preferred Solution:
Alternatives were scored for each of the Detailed Evaluation Criteria.
The highest scoring alternative confirmed the number of pump stations required.

Step 2: Identify Pump Station Configurations for Each Location

This step identifies the preferred configuration and refines the location of each pump station identified in Step 1.

SCREENING EXERCISE

Existing Pump Station Locations were screened to identify opportunities to leverage existing infrastructure in alternatives.

DETAILED EVALUATION

Pump Station Alternatives are developed for each location incorporating the results of the screening exercise.
Detailed Evaluation Criteria are **used to evaluate the alternatives** for each Pump Station Location. These criteria represent the technical, natural, social/cultural, and economic environments.

IDENTIFY SOLUTION

Preferred Solution:
Alternatives were scored for each of the Detailed Evaluation Criteria.
The highest scoring alternative for each pump station is identified as the preliminary preferred alternative.

The preliminary preferred pump station solution is presented to the public for feedback.

Step 1: Evaluation of the Short-listed Pump Station Alternatives

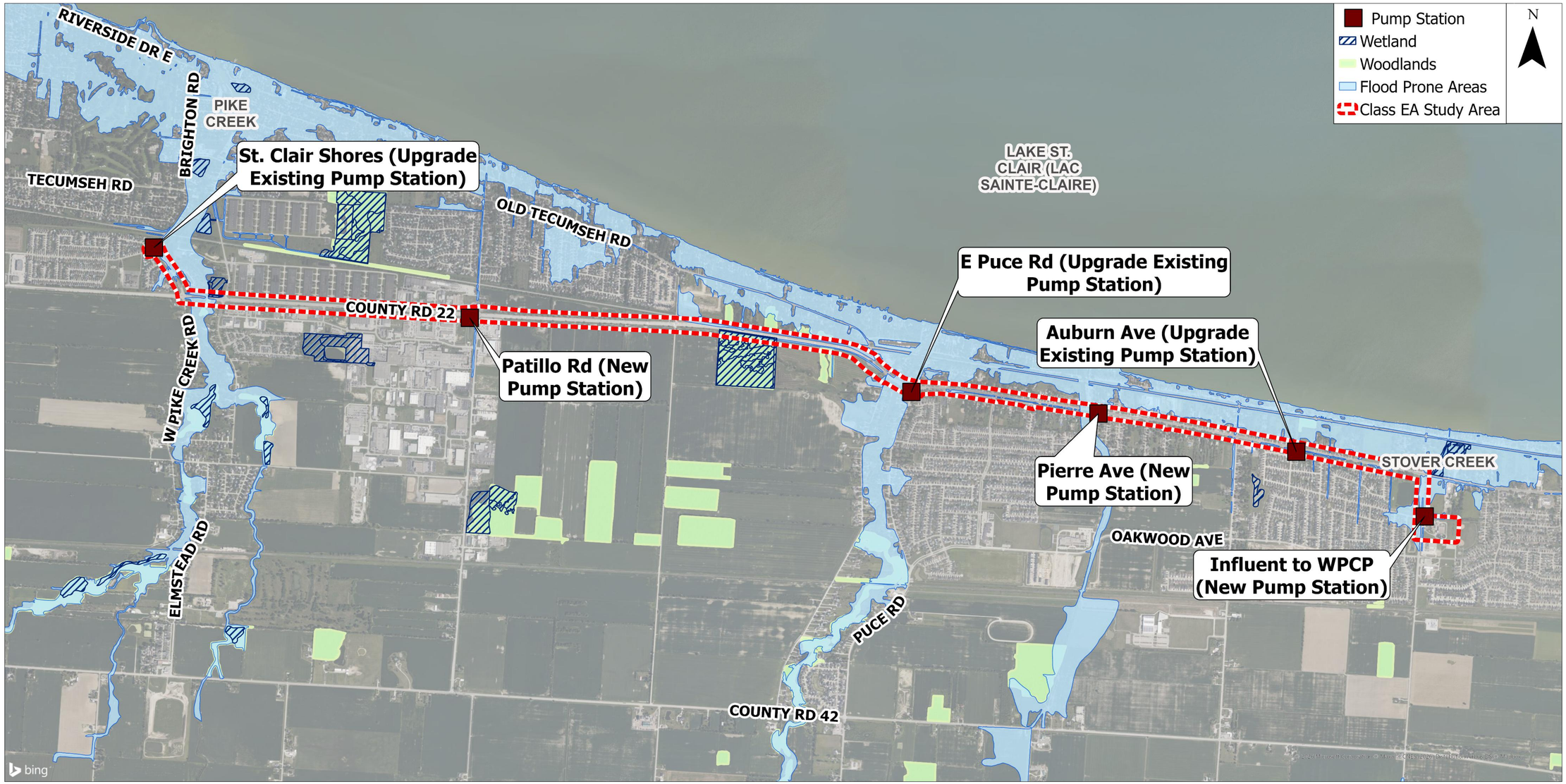
The long list of County Road 22 pump station alternatives were screened to develop a short list of alternatives that were then subjected to a detailed evaluation. These alternatives are on the established route for County Road 22 and represent different number and locations of pump stations along the route. Four County Road 22 pump station alternatives were short listed.

Item	Do Nothing	★ Alternative 3 Minimize Sewer Depth	Alternative 6 Minimize Sewer Depth and Pump Stations	Alternative 10 Moderate Sewer Depth and Minimize Pump Stations
Number of Pump Stations	Existing Pump Stations Remain	Six (three existing, three new locations)	Five (three existing, two new locations)	Three (three existing locations)
Sewer Depth	Existing Sewer Depths	8.5 meters deep (only at Puce River Crossing)	8.5 meters deep	11.5 meters deep
Pipe Slope	Existing Sewer Slopes	0.15 %	0.15 %	0.15 %
Rank	Eliminated	1st (preferred)	2nd	3rd
Relative Capital Cost	N/A	Median	Lowest	Highest
Overview of Rationale	This alternative cannot solve the problem identified in the project problem statement.	This alternative received the highest overall benefit score and aligns with the Municipality's long-term objectives to service growth sustainably. This alternative provides familiar operations and maintenance procedures and can be constructed using familiar methods. This alternative provides the greatest operating and servicing flexibility over the lifespan of the infrastructure.	This alternative received the 2nd highest benefit score. This alternative requires more complex operations and maintenance procedures and specialized equipment related with longer length of deep sewers. This alternative's deeper sewer depth requires more complex construction methods and is less consistent with Municipal current practices.	This alternative received the 3rd highest benefit score. This alternative require more complex operations and maintenance procedures along the extent of the trunk sewer. This alternative also required more complex construction methods. Therefore, this alternative does not align with long-term Municipal objectives for sustainable system operation.

★ Preferred alternative

Step 1: Preferred Number and Location of Pump Stations

Alternative 3 was selected as the preferred pump station alternative and is illustrated in the figure on this panel. This alternative includes six pump stations, three new pump stations, and upgrades to three existing pump stations.



Step 2: Screening Exercise

The Step 2 Evaluation began with a screening exercise. The objective of the screening exercise was to identify opportunities to leverage Lakeshore's prior infrastructure investments wherever feasible and to reduce project complexity.

The three existing pump stations along the County Road 22 trunk sewer route were screened for the potential to reuse the existing wet wells in alternatives identification.

Item	Existing Maidstone Pump Station 2 (Auburn Ave Pump Station)	Existing Maidstone Pump Station 4 (E Puce Rd Pump Station)	Existing St Clair Shores Pump Station
Screening Result	Not able to reuse.	Not able to reuse.	Potential to reuse existing structure.
Rationale	The existing wet well is not deep enough to provide the storage volume required for pumps at this location.	The existing wet well is not large enough to fit the number of pumps required to convey the projected peak flow.	The existing wet well size is large enough to fit the required pumps and provide adequate storage volume. Specific pump requirements and configuration is required for implementation.

The results of the screening showed that only the St. Clair Shores pump station has the potential to reuse the existing wet well in the alternatives identified. The screening results will be incorporated as opportunities in the identified alternatives for the St. Clair Shores pump station.

Detailed Evaluation Criteria

Technical Environment

- Ease of Implementation (Constructability)
- Operational Accessibility
- Energy Requirements
- Risks with Obtaining Permit and Approvals
- Compatibility with Existing Infrastructure
- Compatibility with Future Infrastructure
- Reliability
  Footprint Requirements
- Impact of Utility Coordination

Social / Cultural Environment

- Impacts to Occupational & Community Health and Safety
- Noise, Odour, and Impacts to Air Quality During Construction
- Long-Term Noise, Air, and Odour Impacts from Project Implementation
- Economic Development and Municipal Planning Compatibility
- Aesthetic Considerations and Public Perception
  - Impact on Potential Archeological Resources
  - Impact on Cultural Heritage Resources
  - Impact on Cultural Heritage Landscapes

Detailed Evaluation Criteria

Natural Environment

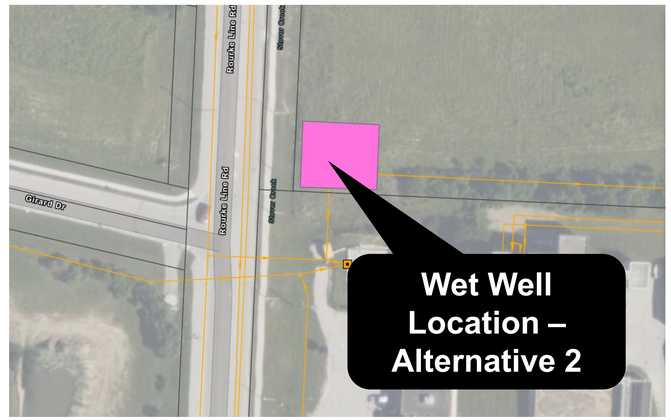
- Climate Change Adaptation
- Climate Change Mitigation
- Impact on Local Hydrogeology and Groundwater System
- Impacts to Terrestrial Habitats and Corridors
- Impacts to Aquatic Habitats and Fisheries
- Impacts to Surface Water Quality and Quantity
- Noise Levels, Odour Generation, and Impacts to Air Quality
- Impacts to Wetlands

Economic Environment

- Capital Costs
- Operations and Maintenance (O&M) Costs
- Life Cycle Cost
- Land Acquisition Cost

Step 2: Identification and Evaluation of Pump Station 8 Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

Existing PS	Alternative 1 Do nothing	★ Alternative 2 Supplemental pump station	Location North of Denis St Pierre WPCP
Existing Maidstone PS-08 (Influent to WPCP)	This alternative requires that the new trunk sewer arrive at PS-08 at the same depth as the existing infrastructure. As this is not feasible, this alternative limits growth and requires O&M improvements.	Establishes a supplemental pump station at PS-08 on the Denis St Pierre WPCP site.	

Evaluation Results

Alternative 2 received the highest benefit score and was selected as the preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency.

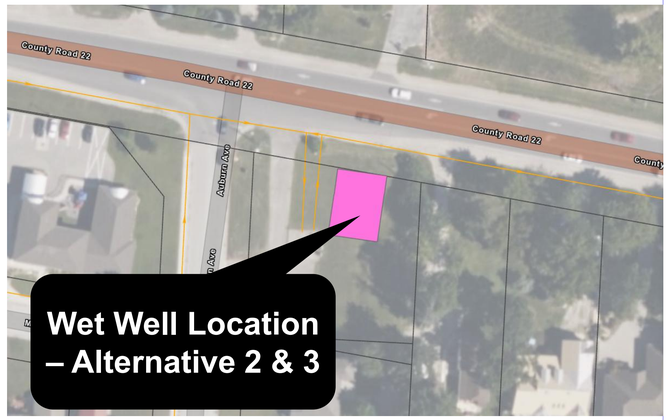
Alternative 1 was not preferred because the depth of County Road 22 Trunk Sewer at this location is deeper than the existing pump station wet well, therefore it cannot provide sufficient capacity to accommodate future growth. However, if during implementation it becomes feasible to connect to the existing influent pump station by gravity, then Alternative 1 is preferred.

Note: Locations shown are approximate.

★ Preferred alternative

Step 2: Identification and Evaluation of Maidstone Pump Station 2 Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

Existing PS	**Alternative 1** Do nothing	★ **Alternative 2** Expand existing pump station	**Alternative 3** New pump station at the existing pump station site	**Location** Auburn Ave
Existing Maidstone PS-02 (Auburn Ave)	This alternative limits growth and requires O&M improvements.	Expand the sanitary pump station capacity at the existing pump station location.	Establish a new sanitary pump station at an existing pump station location and provide off-line storage by reusing existing pump station wet well.	

Evaluation Results

Alternative 2 received the highest benefit score and was selected as the preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency.

Alternative 1 was not selected because it does not provide sufficient capacity to accommodate future growth.

Alternative 3 was not selected because the additional benefit of off-line storage does not justify the new O&M requirements.

Note: Locations shown are approximate.

★ Preferred alternative

Step 2: Identification and Evaluation of Pierre Ave New Pump Station Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

New PS	Alternative 1 Do nothing	Alternative 2 New pump station	★ Alternative 3 New pump station in alternate location	Location Pierre Ave at County Road 22
New PS (Pierre Ave)	This alternative limits growth and requires O&M improvements.	Establish a new sanitary pump station. There is an opportunity to use existing sanitary trunk sewer in parallel to new trunk sewer.	Establish a new sanitary pump station in alternative location. There is an opportunity to use existing sanitary trunk sewer in parallel to new trunk sewer.	

Evaluation Results

Alternative 3 received the highest benefit score and was selected as the preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency while minimizing private land acquisition needs.

Alternative 2 received the second highest benefit score due to limited space to implement the required footprint of the pump station and potential requirement for easements.

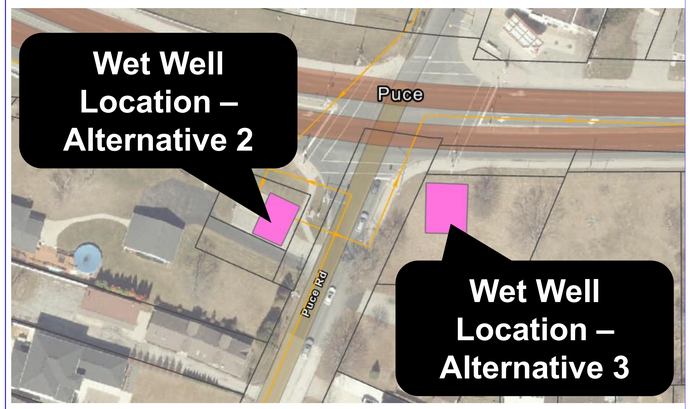
Alternative 1 was not selected as an option because it does not provide sufficient capacity to accommodate future growth.

Note: Locations shown are approximate.

★ Preferred alternative

Step 2: Identification and Evaluation of Maidstone Pump Station 4 Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

Existing PS	Alternative 1 Do nothing	★ Alternative 2 Expand existing pump station	Alternative 3 New pump station in alternative location	Location E Puce Rd at County Road 22
Existing Maidstone PS 04 (E Puce Rd)	This alternative limits growth and requires O&M improvements.	Expand the sanitary pump station capacity at the existing pump station location. There is an opportunity to use existing sanitary trunk sewer in parallel to new trunk sewer.	Establish a new sanitary pump station in alternative location. There is an opportunity to use existing sanitary trunk sewer in parallel to new trunk sewer.	

Evaluation Results

Alternative 2 received the highest benefit score and is selected as the preliminary preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency while utilizing Municipality-owned land.

Alternative 1 was not selected because it does not provide sufficient capacity to accommodate future growth.

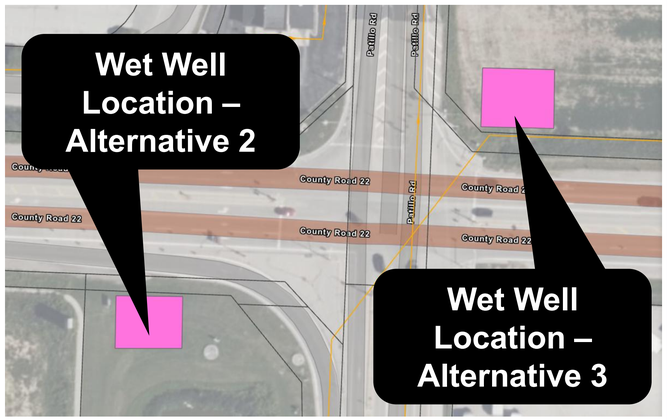
Alternative 3 received a lower benefit score due to anticipated level of coordination and complexity to implement. If the understanding of implementation complexity of Alternative 2 changes during design, Alternative 3 may be preferable.

Note: Locations shown are approximate.

★ Preferred alternative

Step 2: Identification and Evaluation of New Patillo Road Pump Station Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

New PS	Alternative 1 Do nothing	★ Alternative 2 New pump station	Alternative 3 New pump station in alternate location	Location Patillo Rd at County Road 22
New PS (Patillo Rd)	This alternative limits growth and requires O&M improvements.	Establish a new sanitary pump station.	Establish a new sanitary pump station in an alternate location.	

Evaluation Results

Alternative 2 received the highest benefit score and was selected as the preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency while utilizing Municipality-owned land.

Alternative 1 was not selected because it does not provide sufficient capacity to accommodate future growth.

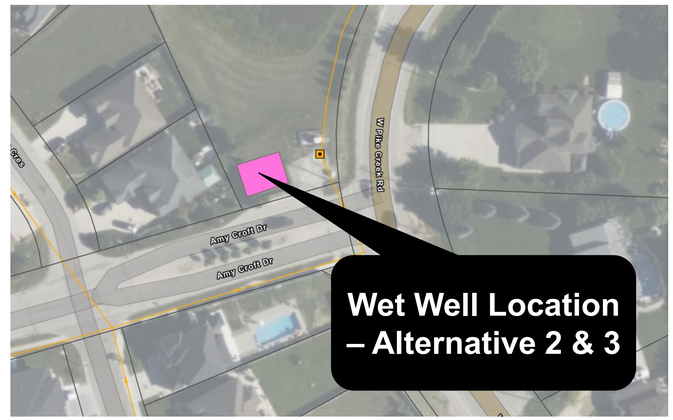
Alternative 3 was not selected because it requires additional coordination and complexity due to property acquisition.

Note: Locations shown are approximate.

★ Preferred alternative

Step 2: Identification and Evaluation of St Clair Shores Pump Station Alternatives

Pump station alternatives are presented for each location identified in the preferred alternative identified along the County Road 22 trunk sewer route in Step 1.

Existing PS	Alternative 1 Do nothing	★ Alternative 2 Expand existing pump station	Alternative 3 New pump station use existing wet well	Location Amy Croft Dr at W Pike Creek Rd
Existing St. Clair Shores PS	This alternative limits growth and requires O&M improvements.	Expand the sanitary pump station capacity at the existing pump station location.	Establish a new sanitary pump station. Provide off-line storage using existing wet well.	

Evaluation Results

Alternative 2 received the highest benefit score and was selected as the preferred alternative. This alternative provides sufficient capacity to accommodate projected flows and improves long-term system reliability and operational efficiency.

Alternative 1 was not selected because it does not provide sufficient capacity to accommodate future growth.

Alternative 3 was not selected because the additional benefit of off-line storage does not justify the new O&M requirements.

Note: Locations shown are approximate.

★ Preferred alternative

Pump Station Implementation: Impacts & Mitigations

Temporary Impact	How the Impact Will Be Managed
Traffic	Adjacent landowners will be notified of construction scheduling and will be consulted regarding temporary access routes.
Noise	Work will be done in accordance with Municipality of Lakeshore noise by-law 16-2024. Construction will occur during normal working hours. Where evening work is required, residents will be notified ahead of time.
Temporary disruption to users of adjacent properties	Construction will be scheduled to minimize periods of disruption in proximity of adjacent uses.
Sediment and erosion	Erosion control measures, includes sediment traps. Provisions for spill control.
Changes in volume of surface runoff	Design measures will be used to minimize runoff
Tree removal	Restoration planting.
Contamination of surface waters	Provisions for spill control through an Emergency Spill Response Plan. Run off from rainfall will be mitigated through erosion and sediment control.
Exhaust emissions from construction equipment and vehicles	Operation on site will be minimized, control location will be on site.
Groundwater contamination	Construction refueling, fill design and operation, and storage facility precautions.
Effects of emergency by-passing of sewage	Contact potentially affected government agencies and public downstream within 24 hours of by-pass event.

Next Steps & Staying in Touch

- **Your feedback is important to us!** Please complete the survey.
- Incorporate input received from the public, Indigenous communities, and regulatory agencies in the Project File.
- Confirm the preferred pump station solution.
- Issue the Notice of Completion and initiate the 30-day public review of the Draft Project File Report.
- Respond to comments received during the 30-day review period.
- Complete the Final Project File and file with the Ministry of the Environment, Conservation and Parks (MECP).
- Implement the confirmed preferred solution.
  Advance detailed design, approvals, and construction.

Thank you for attending our Public Information Centre!

Thank you for your interest in Lakeshore's County Road 22 Sewer Expansion project.

- Please refer to the Municipality's website for the most up-to-date information related to the project and to sign up for the project mailing list: www.Lakeshore.ca/living-here/community-input/county-road-22-sewer-expansion-project/

- A dedicated email address has been set up for this study. **To provide your comments or request more information please email:** cr22sewerproject@jacobs.com

- Alternatively, you can reach out to the following contacts:

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