

A network diagram background consisting of a series of interconnected nodes and lines. The nodes are represented by circles of varying sizes, and the lines are thin, light gray or blue, depending on the background color. The overall structure is a complex, web-like pattern that suggests connectivity and movement.

MOVING WATER FORWARD

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara Falls Elevated Tank Environmental Assessment

Public Information Centre (PIC) No. 2

MOVING
WATER
FORWARD

CONNECTING MORE PEOPLE TO MORE POSSIBILITIES

Niagara  Region



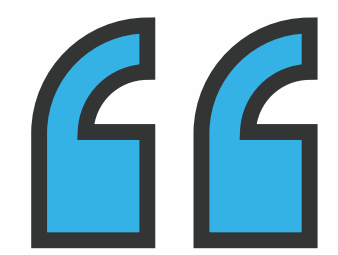
Project Introduction

The Niagara Region is undertaking the **Niagara Falls Elevated Tank Environmental Assessment (EA)** to determine a preferred solution for meeting water storage requirements to efficiently operate the Niagara Falls water distribution system.

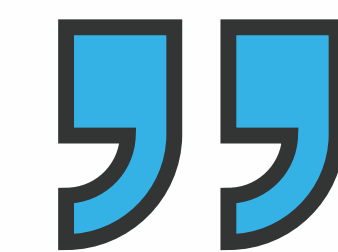
This **Schedule 'B' Municipal Class Environmental Assessment** was triggered by recommendations from the Region's 2021 Master Servicing Plan. The previous study identified a water storage volume deficit at the City's current Lundy's Lane water tower and recommended the construction of a new larger water tower to support both existing and future water customers. A new water tower is proposed in a new location, following the decommissioning of the Lundy's Lane water tower, to provide additional system capacity to support growth and optimize operations.



Problem Statement



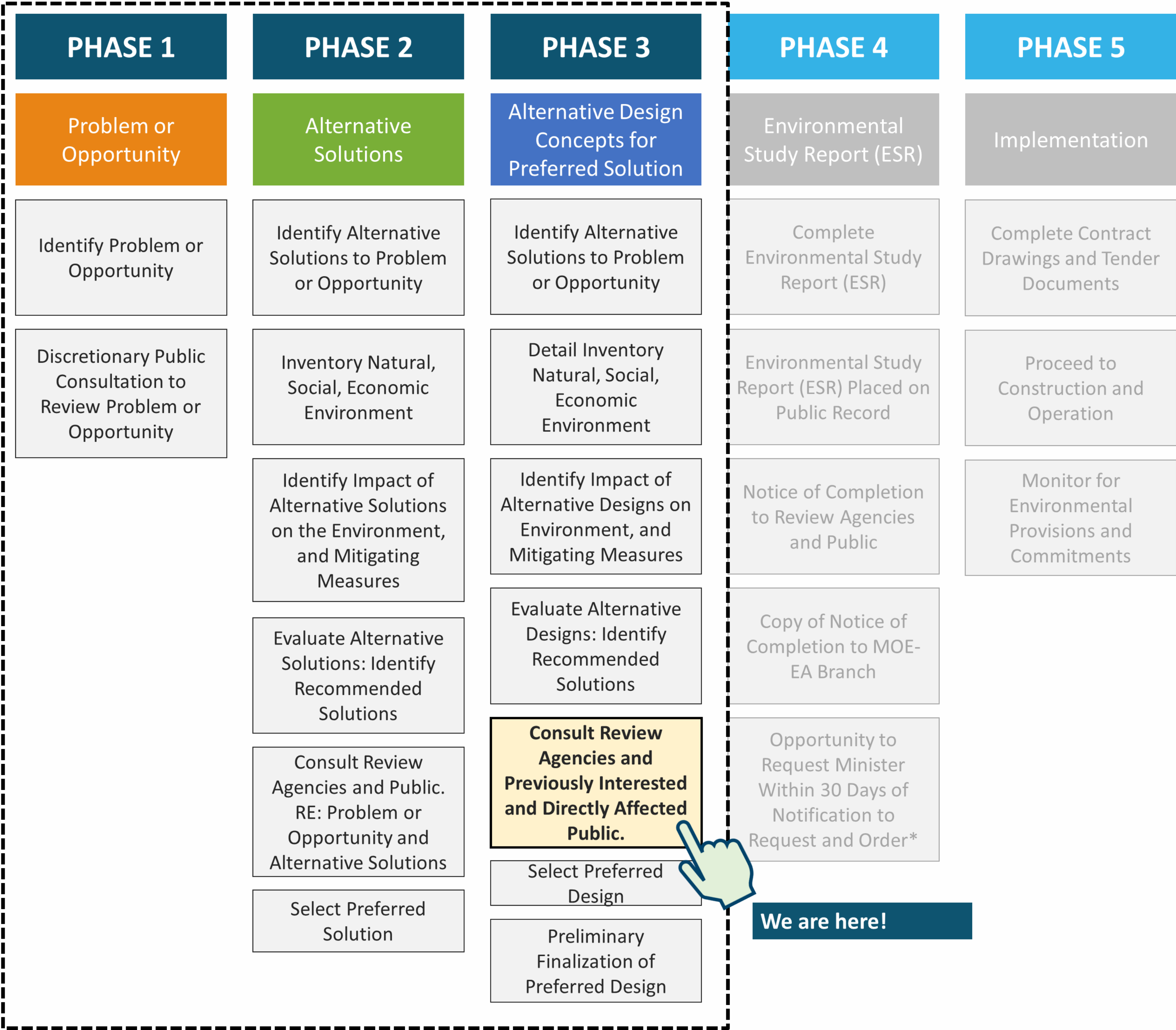
Identify and develop a preferred solution for meeting requirement needs, support growth, enhance resiliency and improve operational efficiency of the Niagara Falls Water Distribution System.



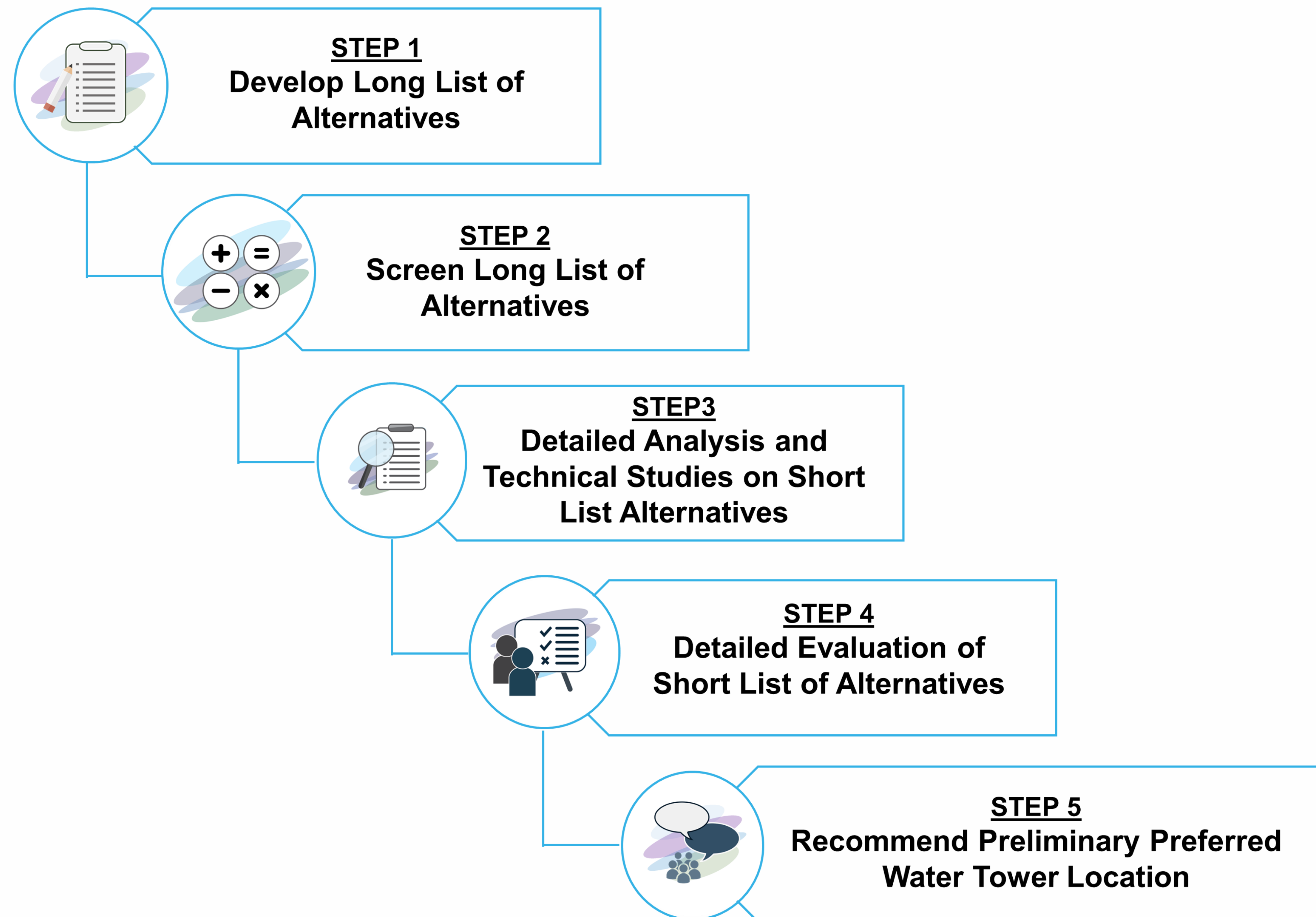
Environmental Assessment Process

This study being completed as a **Schedule ‘B’ Class Environmental Assessment (EA)**, satisfying Phases 1 and 2 of the Municipal Engineers Association (MEA) Class Environmental Assessment process.

This is a decision-making process that all Ontario municipalities follow for rehabilitating and building new infrastructure.



Project Road Map



How Your Water System Works

Supply and Treatment

The City of Niagara Falls water system is supplied by water from the Niagara River. The Region monitors and treats this water before supplying it to the City of Niagara Falls.

Pumping Stations

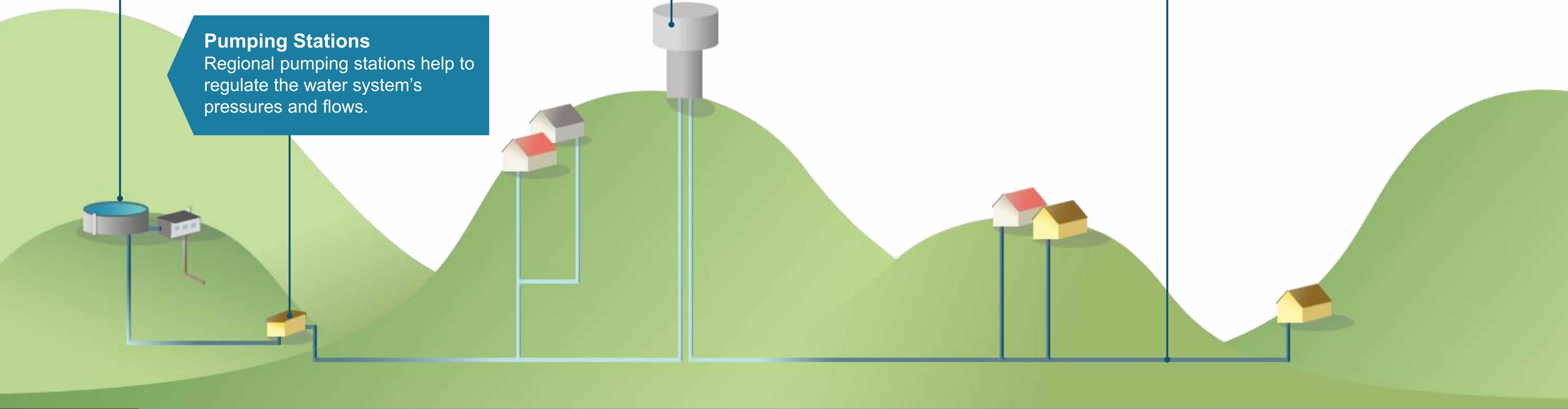
Regional pumping stations help to regulate the water system's pressures and flows.

Storage

Regional water storage is used to help maintain pressures and provide water during peak usage times and emergencies.

Watermains

The local municipalities and Region have a network of underground watermains that deliver water to residences, businesses, and fire hydrants.



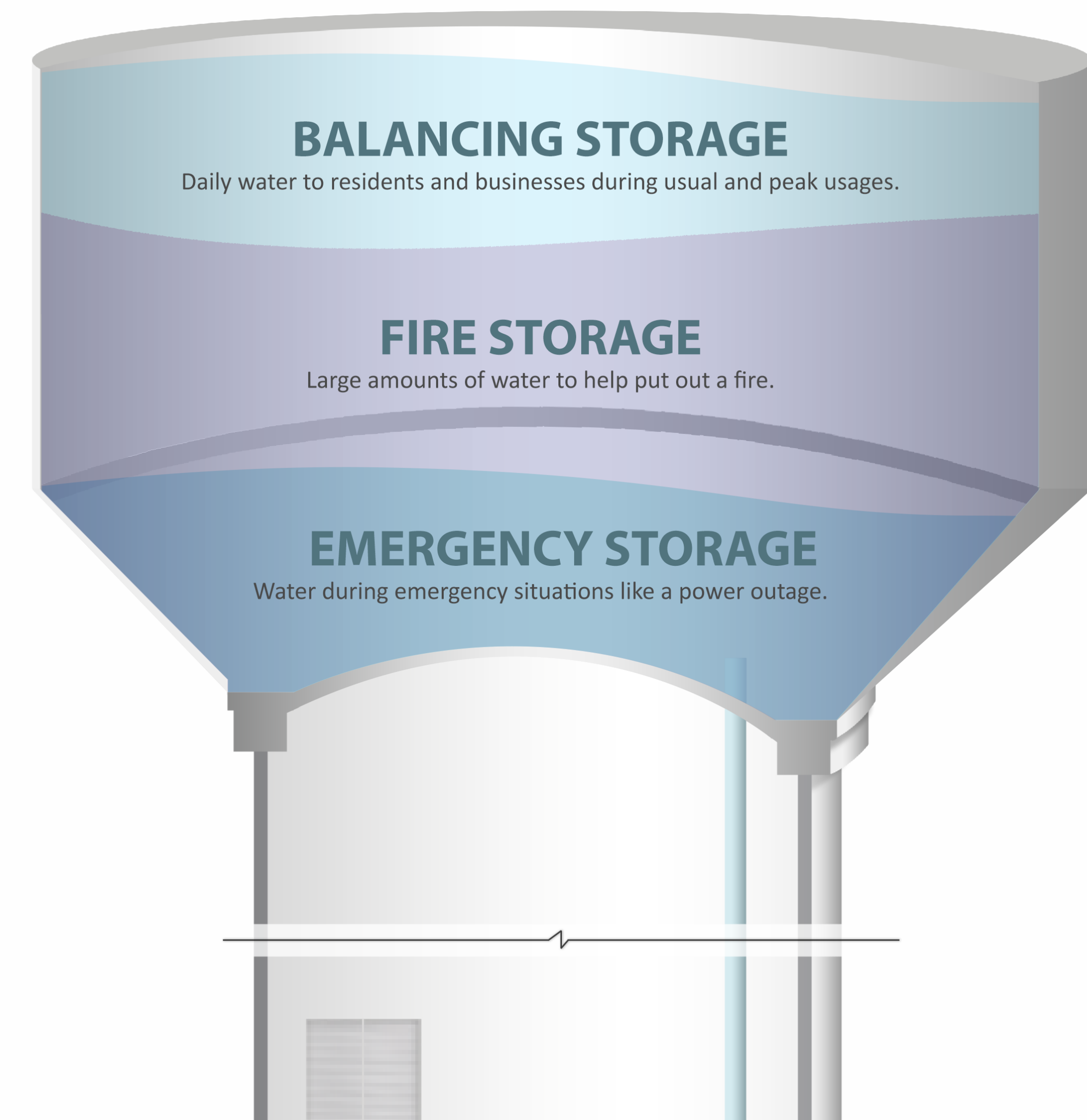
Water Towers are Important for Our Water System

Water towers use gravity to **provide water to your community as you need it.**

Water levels in tanks go up and down during the day. This allows the water system to:

- Maintain constant pressure in your home,
- Respond quickly to fires and emergency situations, and,
- Maintain good water quality.

Water stored within a water tower has **three important purposes.**



Locating a New Water Tower

Technical

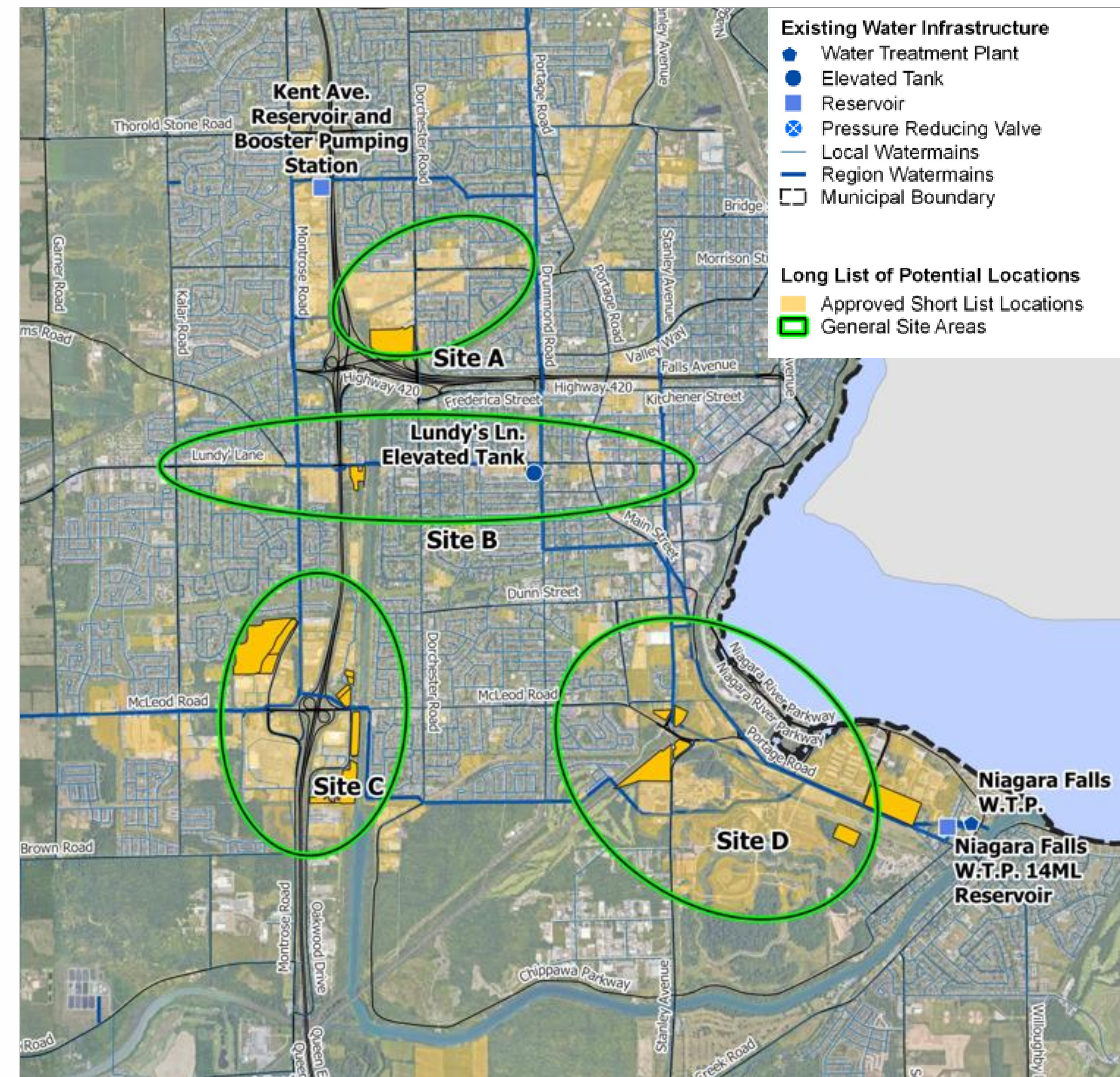
- Appropriate size of property for new water tank.
- Ground elevation to support tank height.
- Consideration of distance from water treatment plant to new water tank.
- Close to existing watermains

Environmental

- Minimize impact to natural, cultural / heritage and socio-economic features.
- Ability to mitigate potential impacts.

Land Use

- Consideration of current and future land use of site.
- Consideration of surrounding land use.



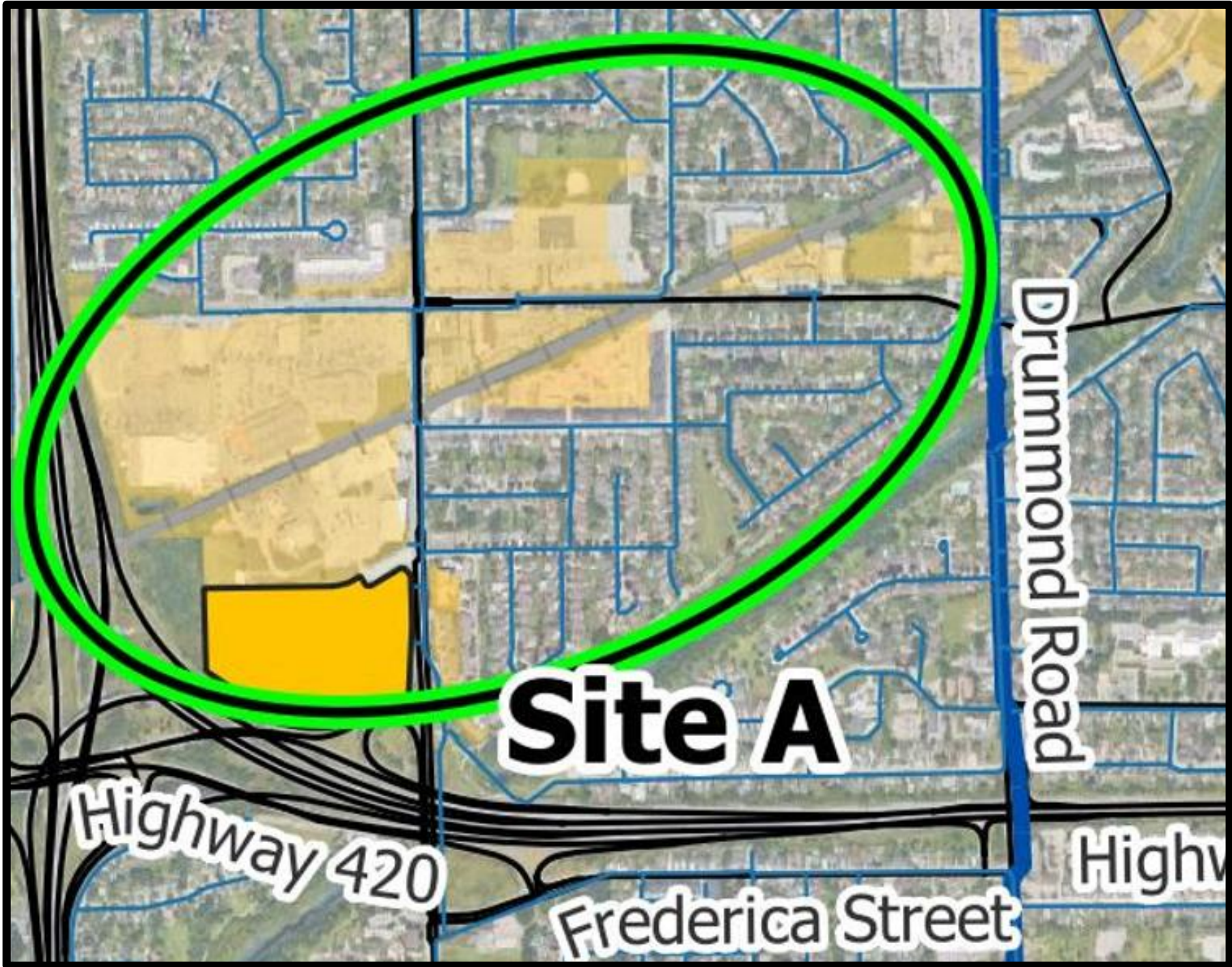
Shortlist Sites

- Existing Water Infrastructure**
- Water Treatment Plant
 - Elevated Tank
 - Reservoir
 - Pressure Reducing Valve
 - Local Watermains
 - Region Watermains
 - Municipal Boundary

- Long List of Potential Locations**
- Approved Short List Locations
 - General Site Areas

Site A

Screened Out



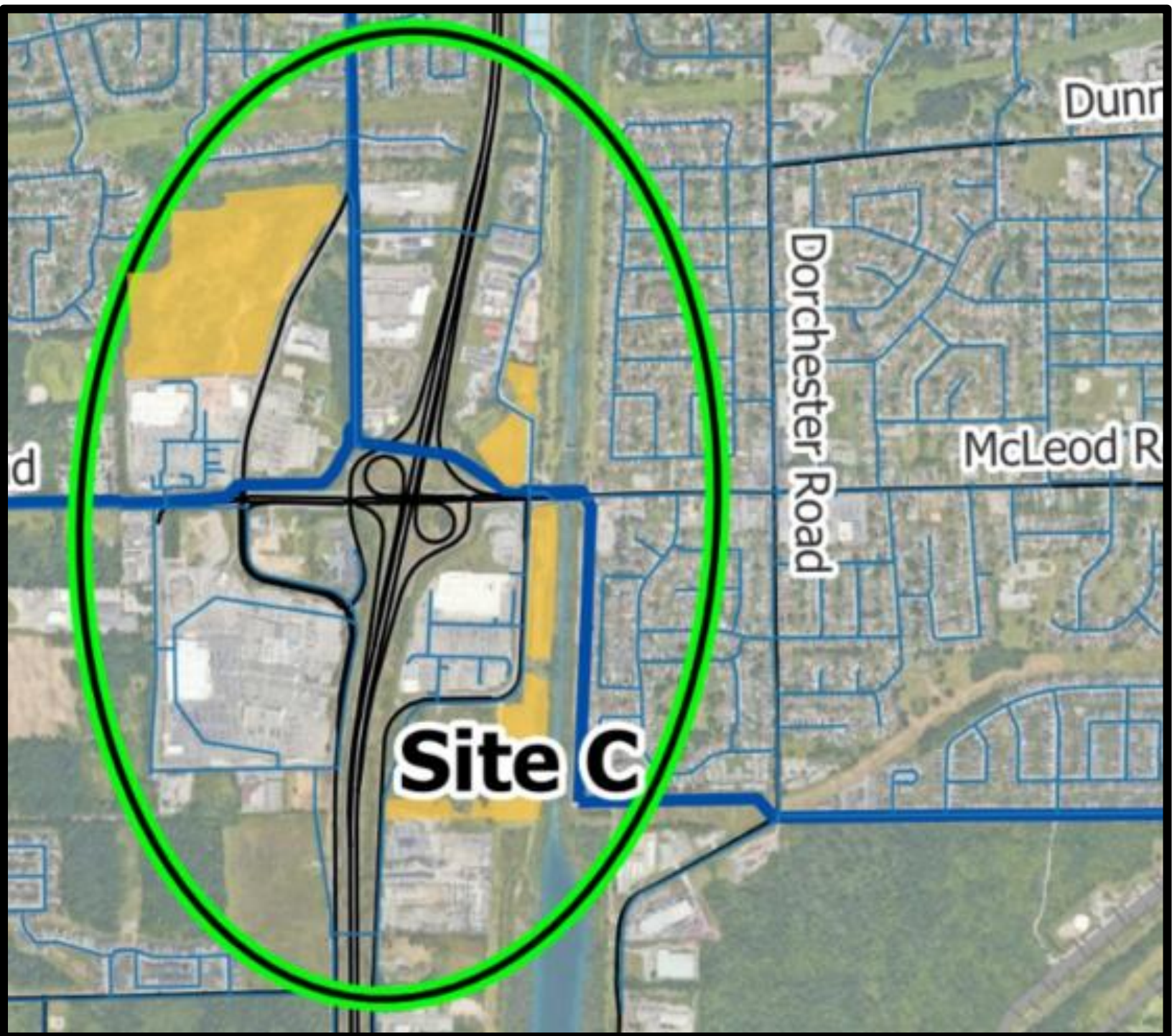
Site B

Screened Out



Site C

Carried Forward



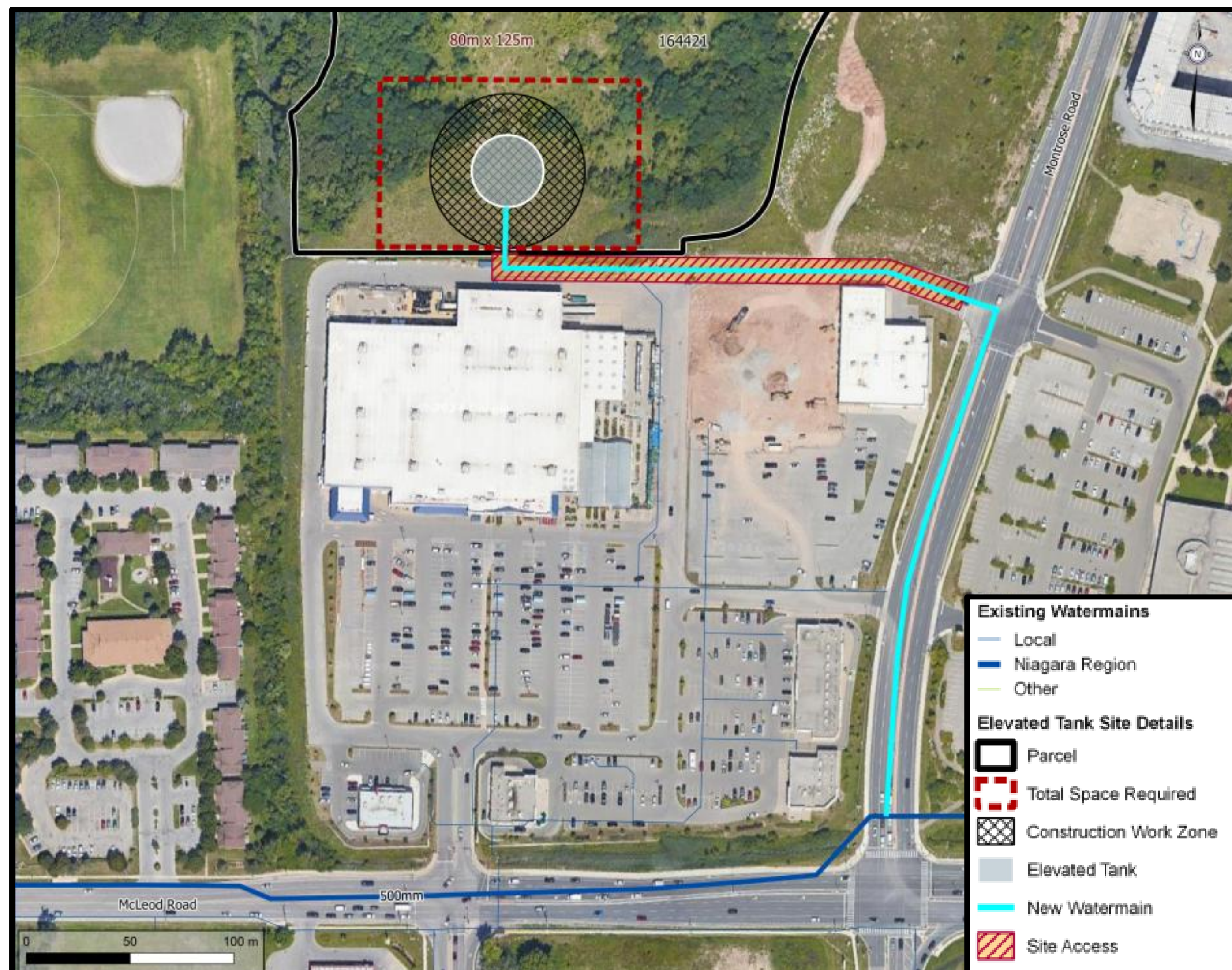
Site D

Carried Forward

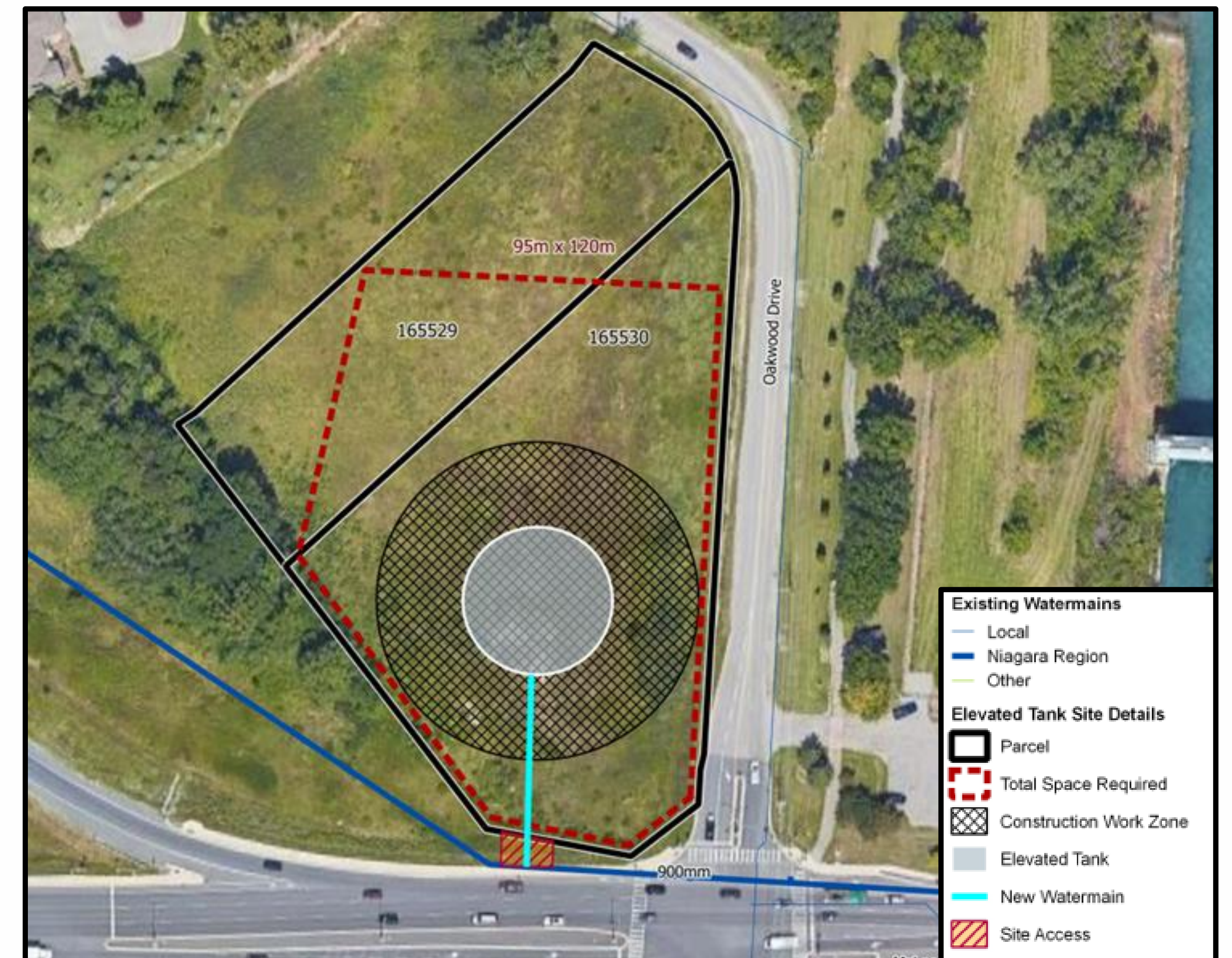


Site C Parcels

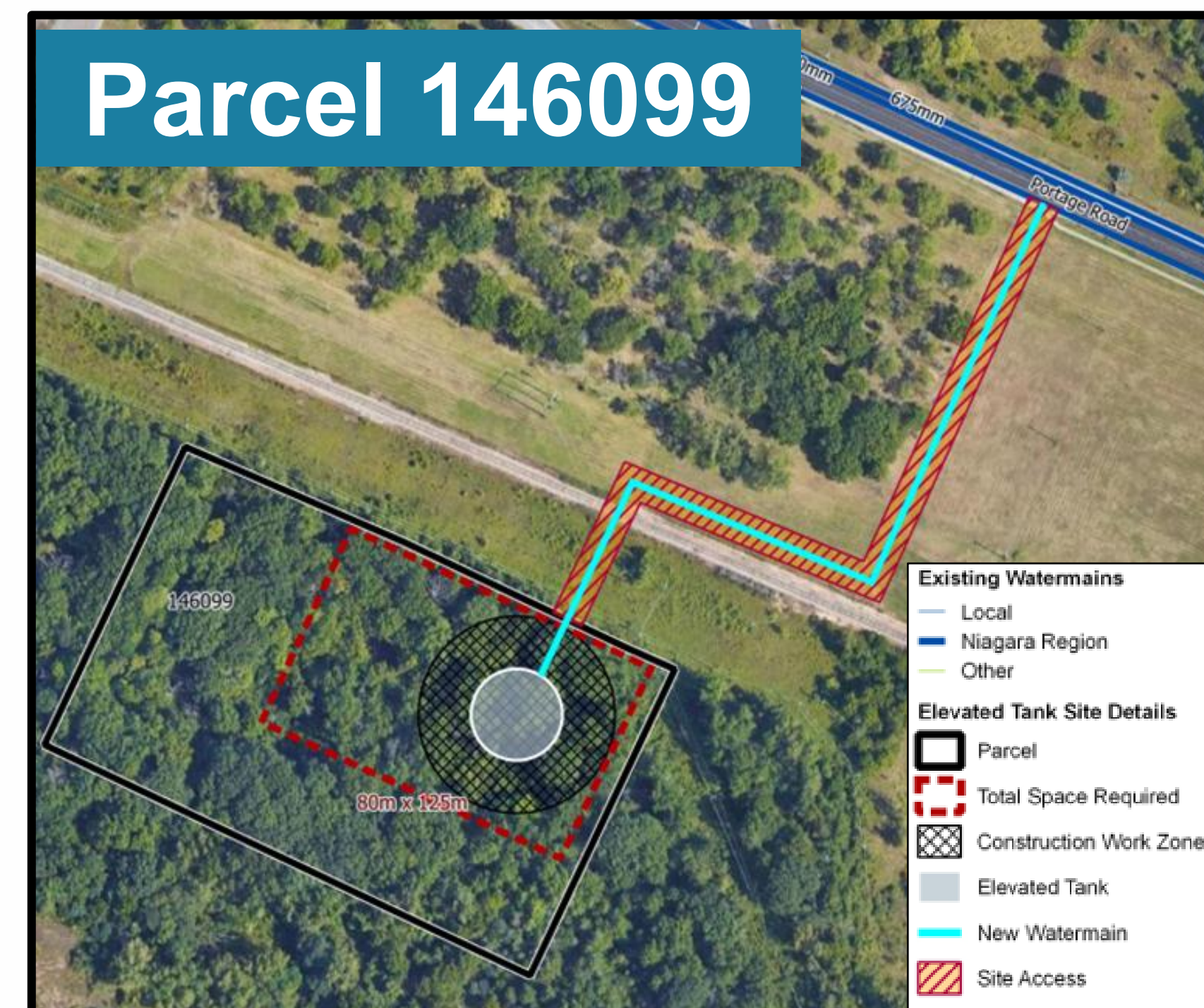
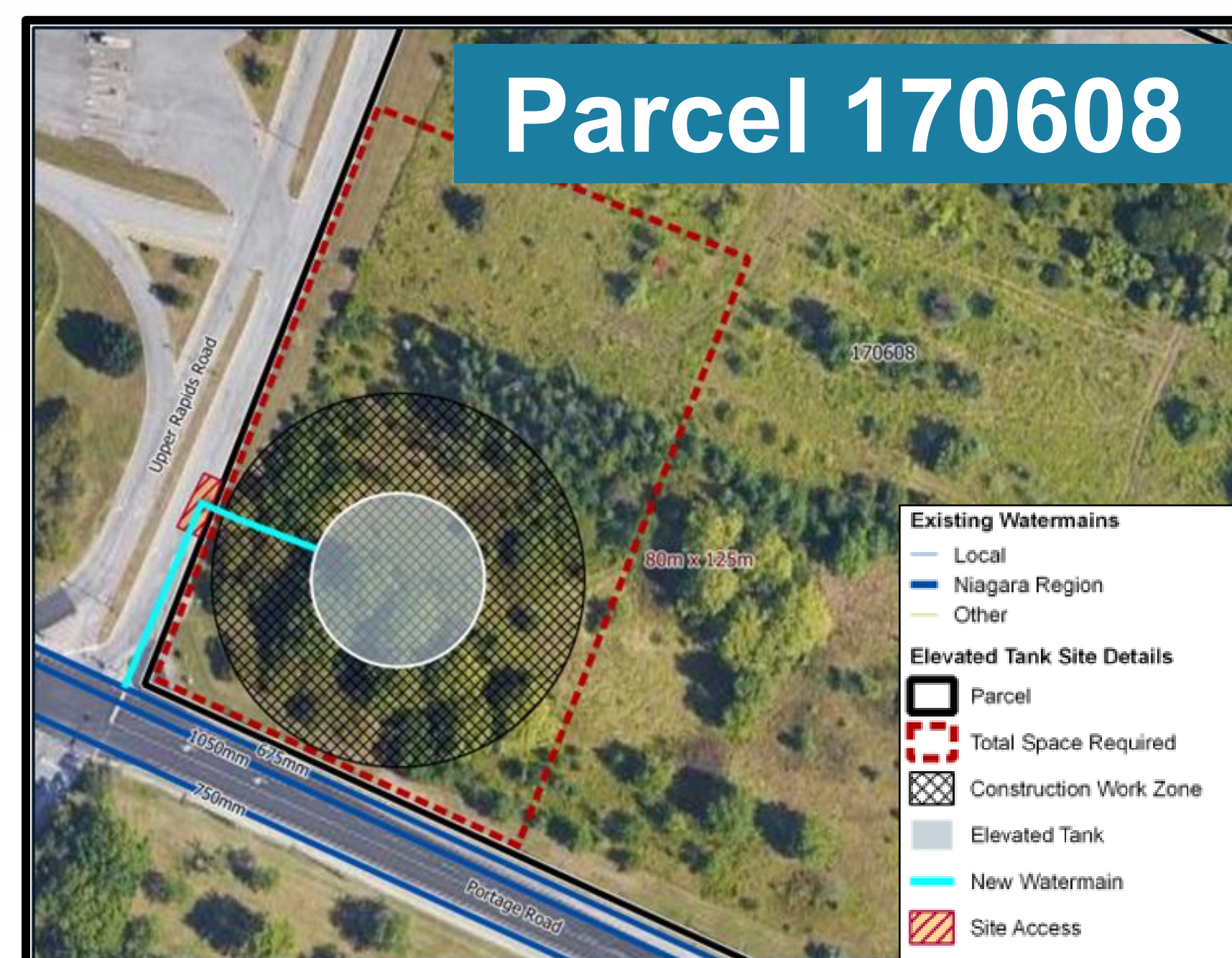
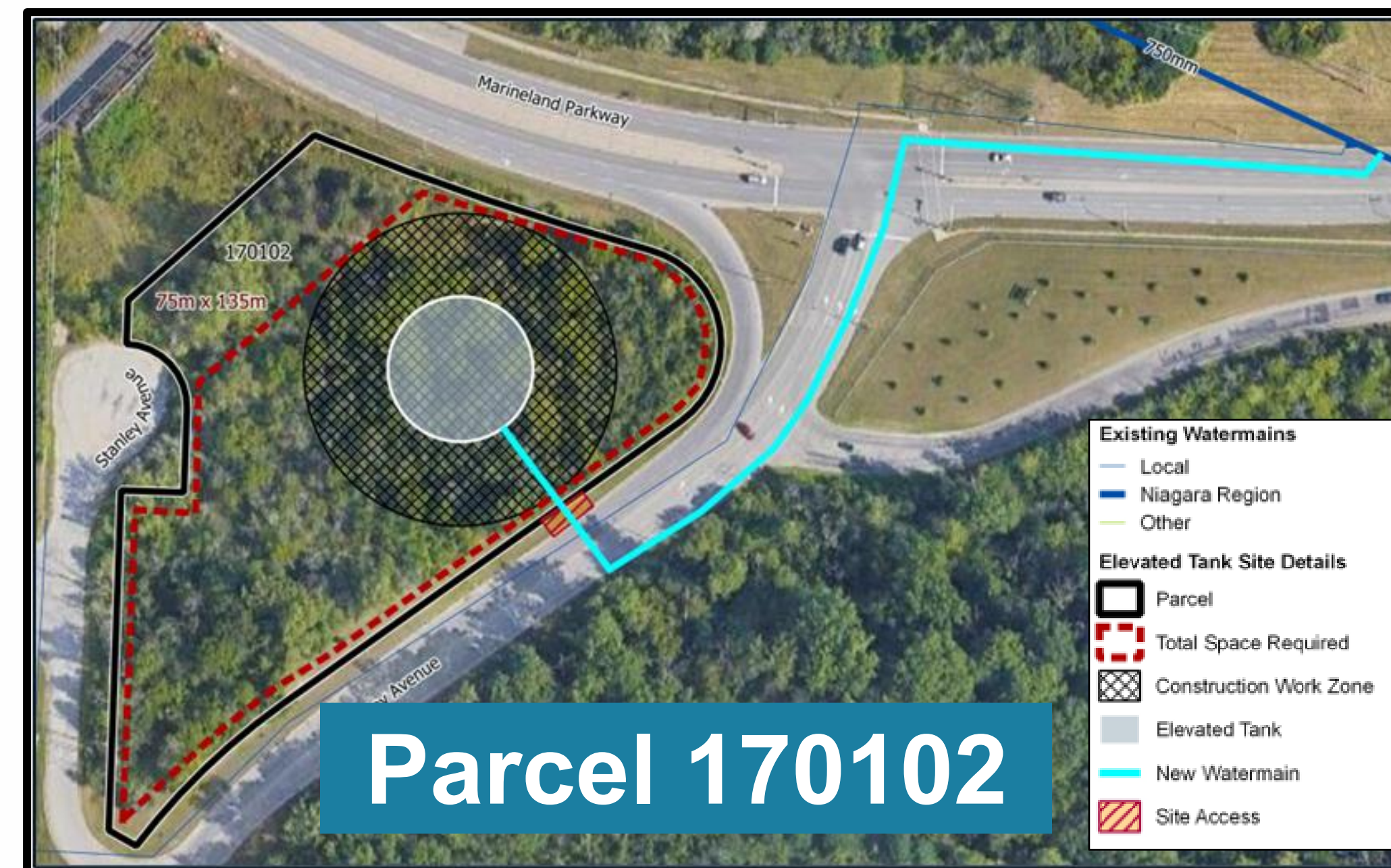
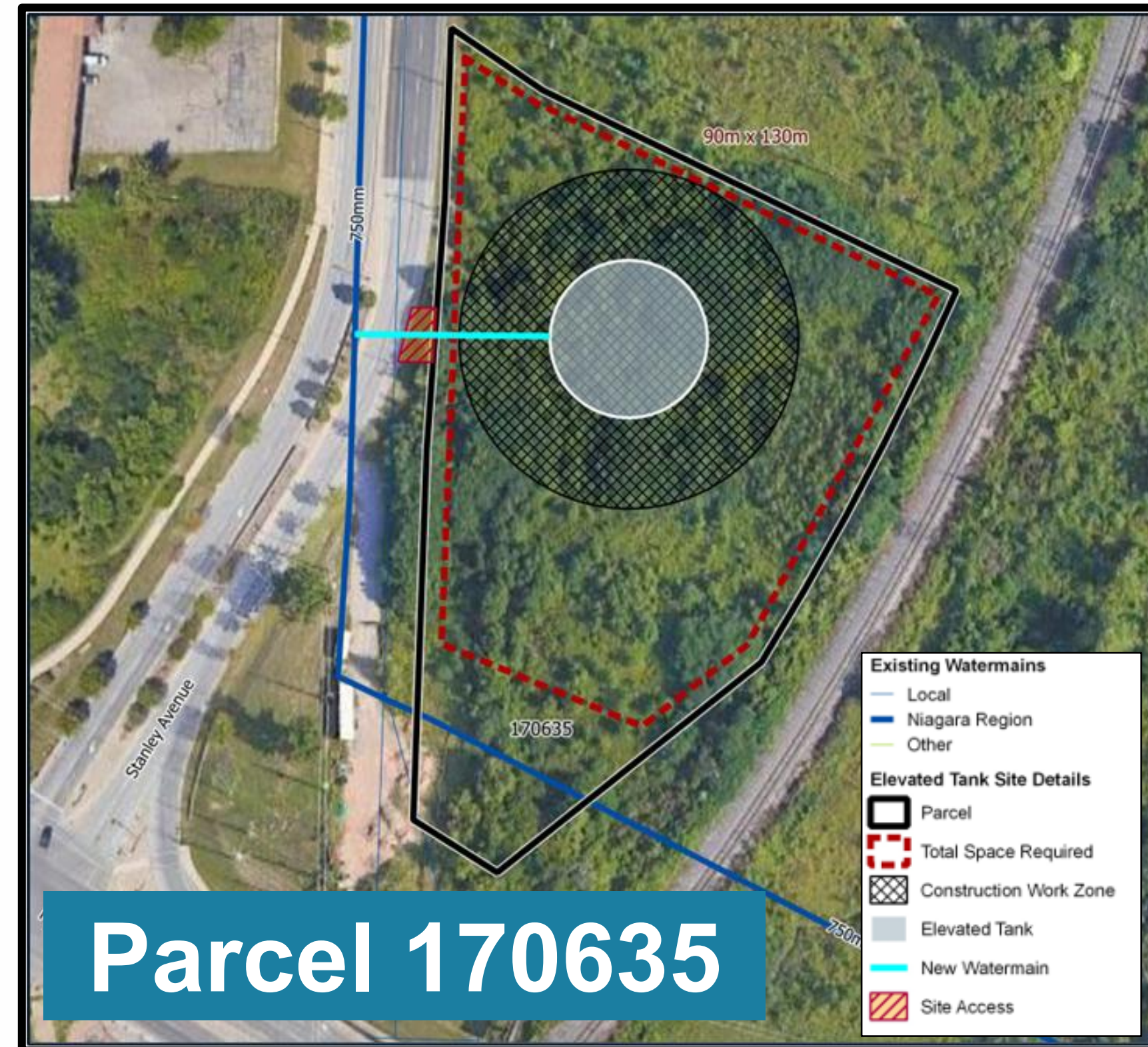
Parcel 164421



Parcel 165529 & 165530



Site D Parcels



Background Studies

Technical Discipline Studies were undertaken to support site alternative baseline and site inventory review.

Stage 1 Archaeological Assessment (AA)

- All four (4) shortlist sites evaluated.
- Three (3) sites may retain archaeological potential and require Stage 2 AA prior to construction.

Natural Heritage Background Report

- A desktop review of existing natural heritage features, including wetlands, woodlands, wildlife habitat, and endangered / threatened species habitat, was completed.
- Three (3) sites were identified as having significant natural heritage constraints on site.

Cultural Heritage

- A desktop inventory of known and potential built heritage resources and cultural heritage landscapes was completed.
- Built heritage resources and cultural heritage landscapes were identified within or adjacent to several shortlisted sites; no impacts were confirmed at this stage.

Evaluation Criteria

Criteria Scoring



The short-listed water tower locations will be evaluated according to the criteria shown below, with each category of criteria being considered equally. The highest score will identify the preferred option.

Environmental Factors

- Protects environmental features.
- Protects wildlife and species-at-risk.
- Minimizes climate change impacts.



Financial Viability

- Low lifecycle costs.



Technical Factors

- Meets existing and future needs.
- Aligns with existing system and strategy.
- Provides a reliable water supply.
- Minimizes and manages construction risk.
- Ability to adapt to climate change.
- Minimizes operations and maintenance needs.
- Minimizes legal and jurisdictional issues.



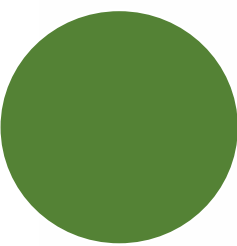
Social and Cultural Factors

- Minimizes disruptions to residents related to noise, traffic, and aesthetics.
- Minimizes disruptions to businesses.
- Minimizes source water protection impacts.
- Manages and minimizes construction impacts.
- Protects cultural heritage features.
- Protects archaeological features.

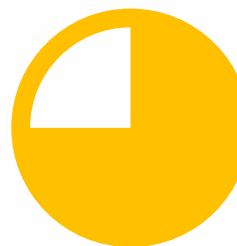


Shortlist Evaluation

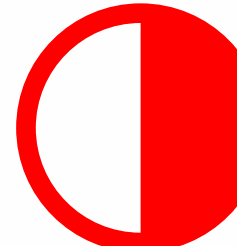
	Site C P-164421	Site C P-165529 & 165530	Site D P-170635	Site D P-170102	Site D P-170641	Site D P-170608	Site D P-146099
Technical Factors							
Environmental Factors							
Social and Cultural Factors							
Financial Viability							



Most Preferred and
Least Potential Impact



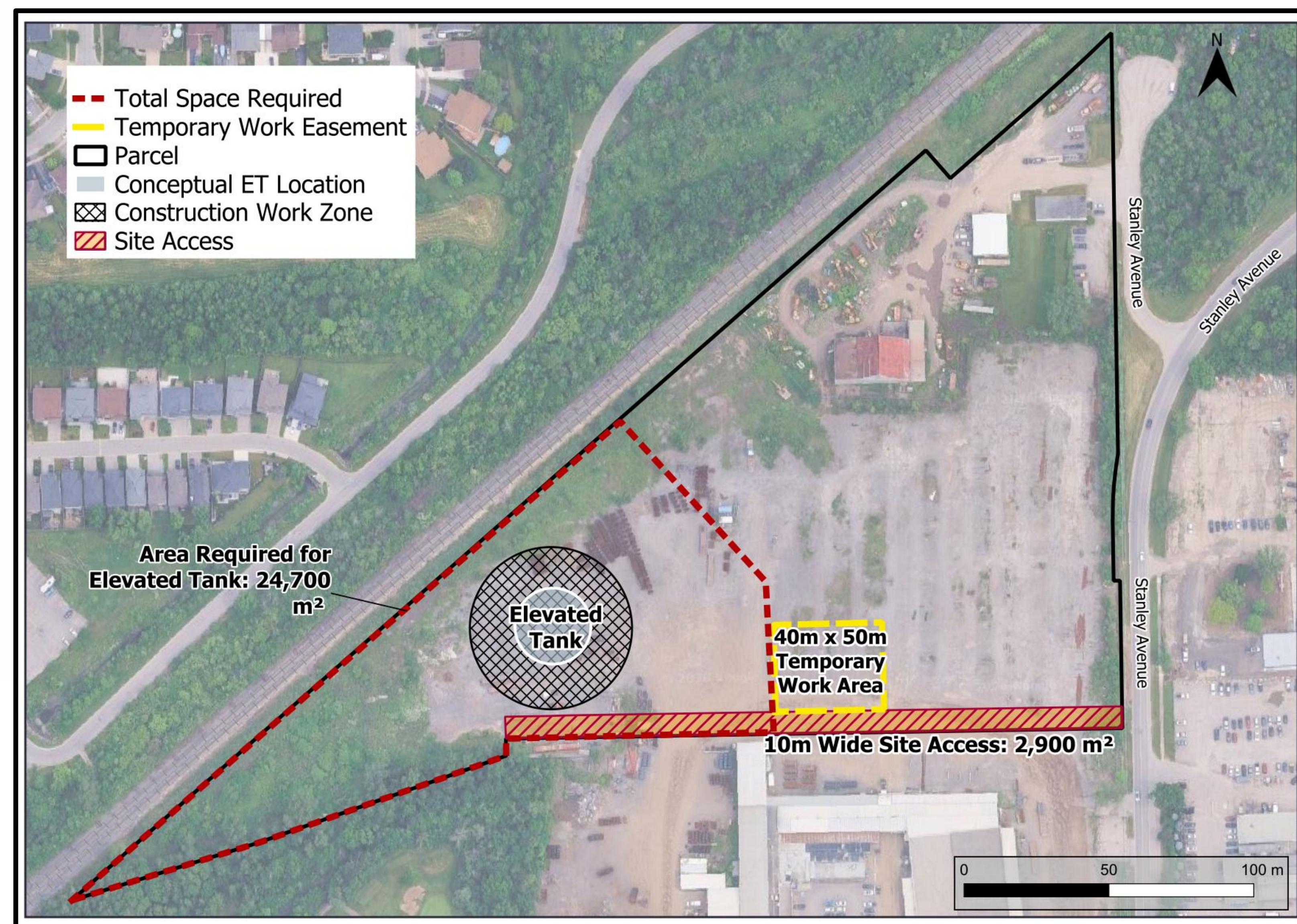
Not Preferred and
Moderate Potential Impact



Not Preferred and
Moderate Potential Impact

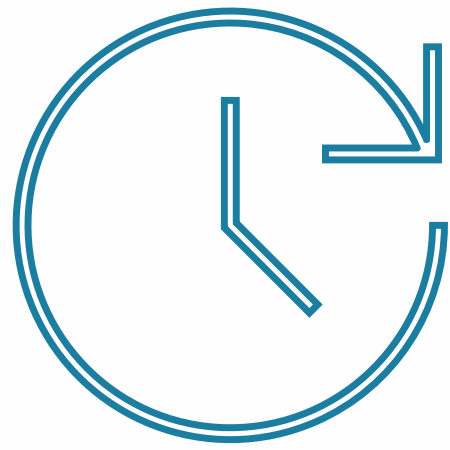
Preferred Solution – Site D

Site D, Parcel 170641 located off Stanley Avenue, is the preliminary preferred site for the elevated tank.



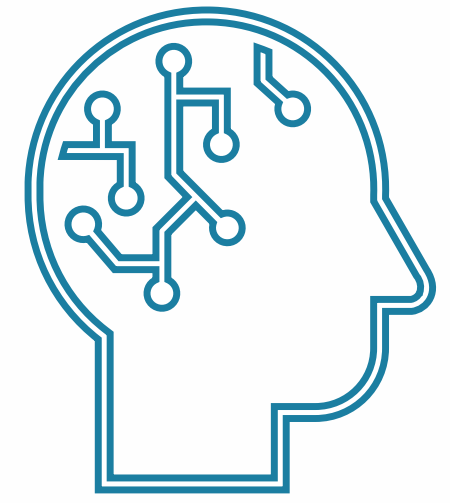
- **Minimal impact to cultural heritage** based on Stage 1 and Stage 2 Archaeological Assessment, resulting in low risk to archeological resources.
- **Minimal impact to residents and businesses** due to distance from residential areas and surrounding land uses.
- **Low greenhouse gas production** associated with a relatively short trunk watermain connection compared to other alternatives.
- **No significant natural heritage constraints on the parcel or adjacent lands**, reducing environmental risk and mitigation requirements.
- **Aligns with surrounding industrial / commercial land use**, ensuring compatibility with existing and planned development.
- **Supports a dedicated feed from the Water Treatment Plant**, improving system operability and long-term flexibility.
- **Adequate parcel size to support future growth**, including long-term system needs beyond 2051.
- **Increased storage capacity improves overall system resiliency**, allowing the system to better respond to increases in demand and potential changes in supply capacity.

Next Steps and Impact Mitigation



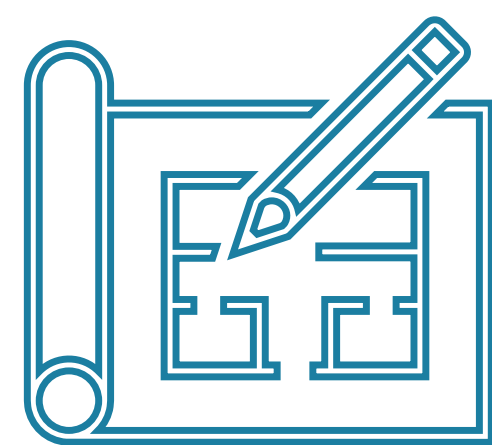
Future Commitments

- Finalize selection of the preferred solution based on comments and feedback.
- Ongoing discussions with property owner will be required.
- Identify and adhere to all municipal, environmental, and review agency approval requirements through design and construction.
- Permit to Take Water (PTTW) to support construction is not anticipated, however monitoring and contingency plans will be prepared.



Due Diligence Studies

- Contamination was identified through due diligence studies (ESA Phase 1 and 2).
- Further Risk Assessment during detailed design to determine how to manage contaminated soils.
- Complete Excess Soil Management Plan as part of detailed design and construction.
- Confirm any further impacts to design and construction requirements.



Project Implementation

- The Region will retain a detailed design consultant.
- Once detailed design is complete, the Region will tender the project to retain a contractor for construction.

Next Steps

**Environmental Assessment
Completed 2026**

**Design
2026 - 2027**

**Construction
2028 - 2030**

Problem and Opportunity

- Project Notice of Commencement
- Background Information Review

Identify Alternative Solutions

- Public Information Centre (PIC) No. 1
- Screening of Water Tower Locations to Develop a Short List
- Site Visits and Investigations

Evaluate Alternative Solutions

- Evaluate short list of water tower locations

Select Preferred Solutions

- Public Information Centre (PIC) No. 2
- 30 Day Public Review

Get Involved!

Public feedback is important. Submit any questions or comments to the Project Team.

We encourage you to provide feedback by **Friday, April 3rd, 2026.**

Responses to all comments received will be posted on the project page following the closing of the comment period.

Contact Project Team



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