McVean Sewage Pumping Station Environmental Assessment Project Schedule 'B' Class Environmental Assessment

Thursday, July 29, 2021



Public Consultation



Problem Solving Process

Why is the McVean Sewage Pumping Station EA Project taking place?

The objective of the McVean Sewage Pumping Station (SPS) EA project is to determine the best solution that fully addresses the problems identified in the 2015 condition assessment of the facility:

- The station does not have enough emergency storage to meet future demands.
- Peel Region has experienced operation and maintenance challenges due to grit and 2. Fat, Oil and Grease (FOG) buildup.

Purpose of Public Consultation

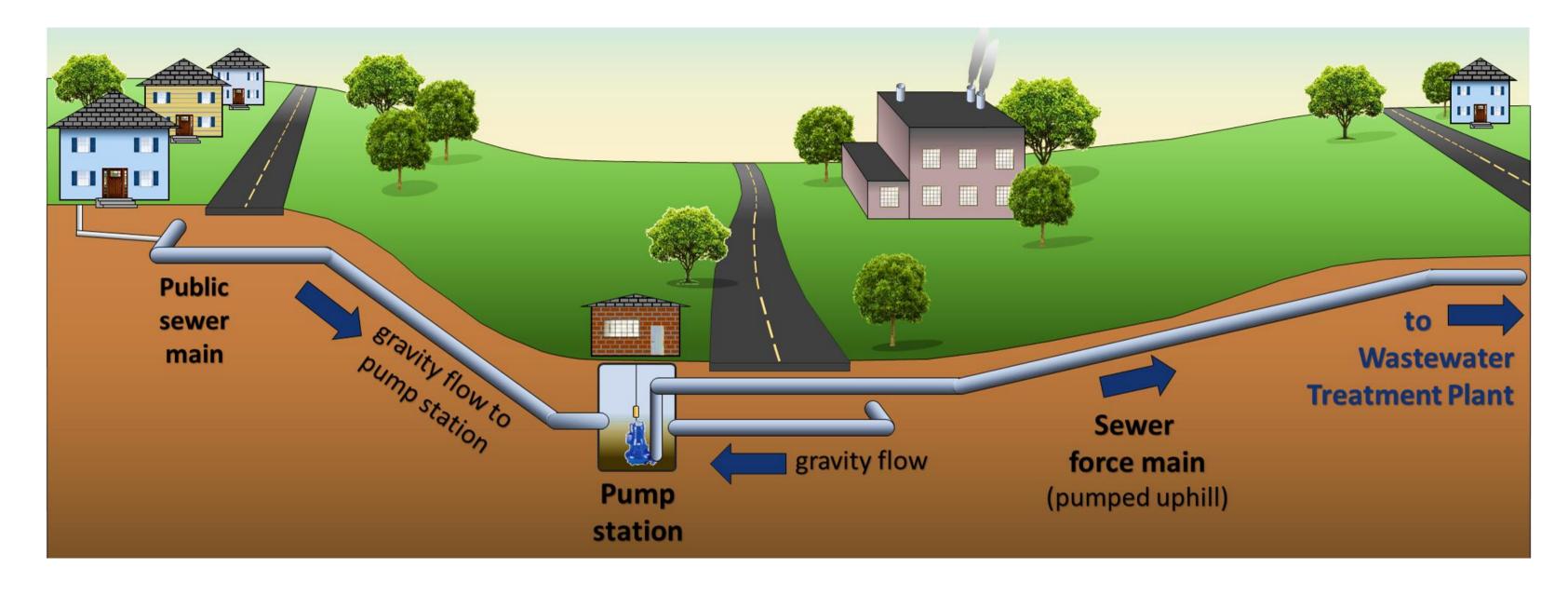
Overview

The purpose of this public consultation is to tell you about:

- The problem solving process being followed \bullet
- The 2 alternative solutions being evaluated

What is a Sewage Pumping Station?

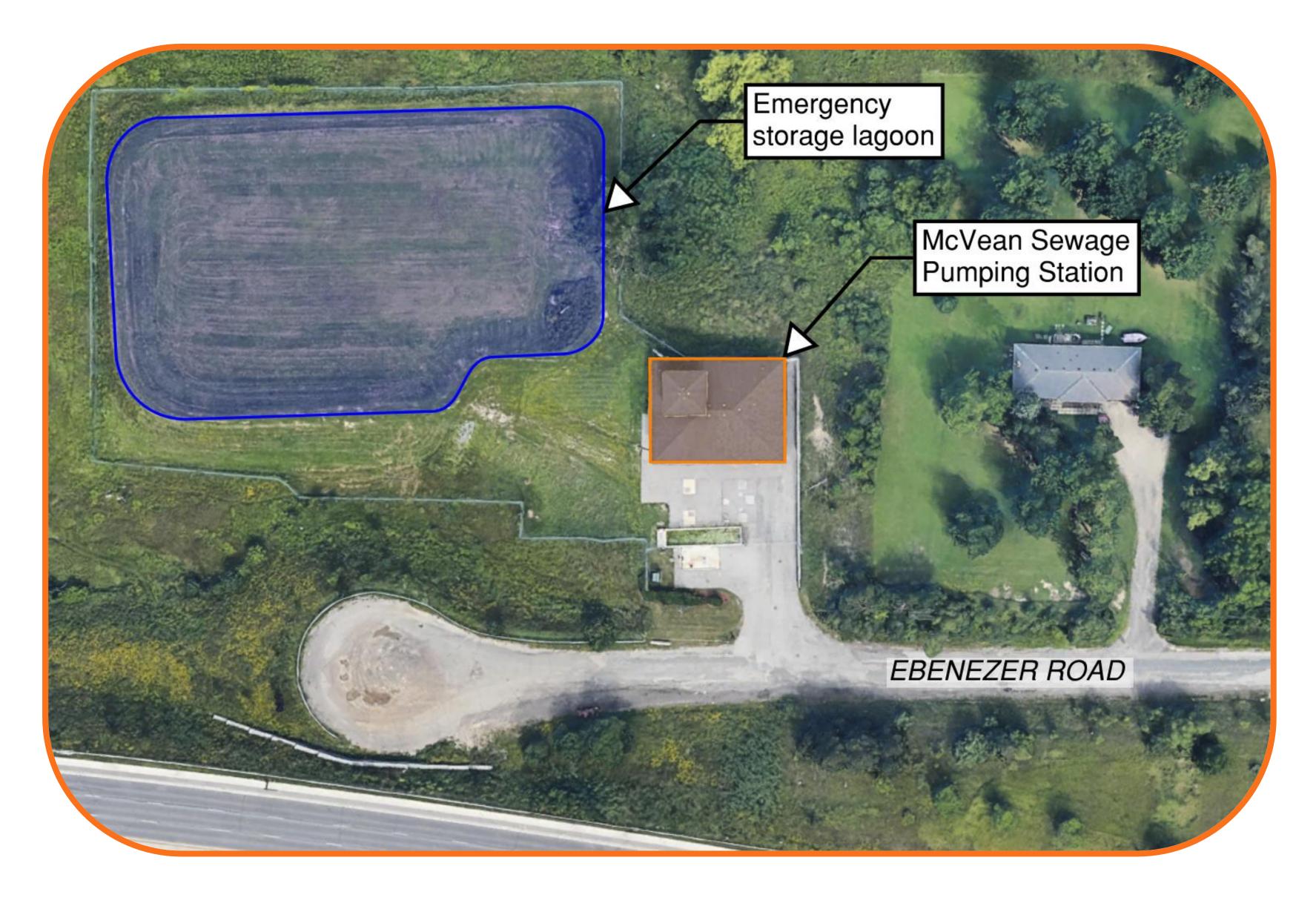
Sewers use gravity to move sewage from high to low points in the sanitary system. Sewage pumping stations are installed at low points to push sewage from low to high points so that sewage will end up at the wastewater treatment plant.





Alternative 1

Alternative 2



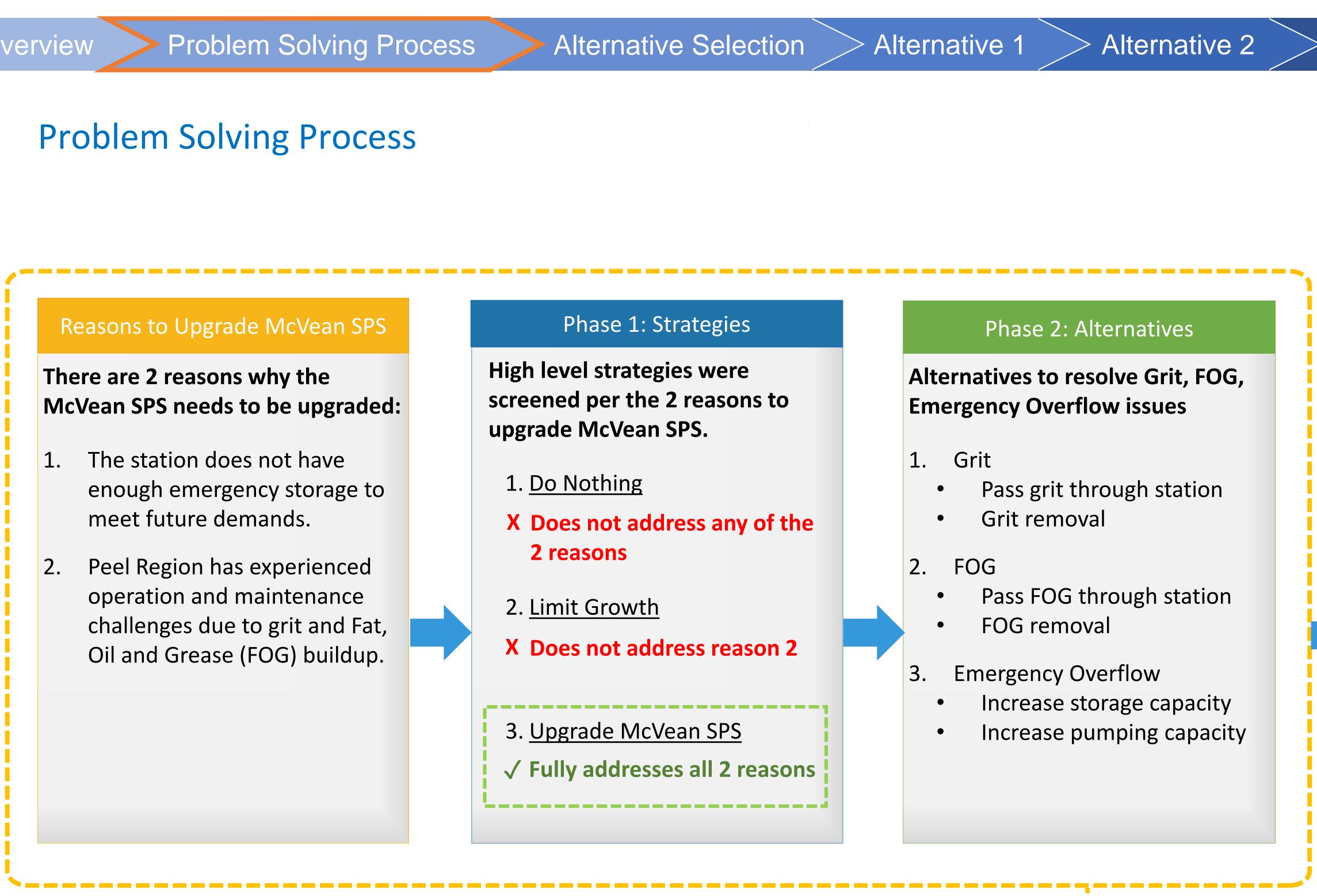
Headworks Facility

Mitigation

Next Steps



Overview



Want to know more about Environmental Assessments?

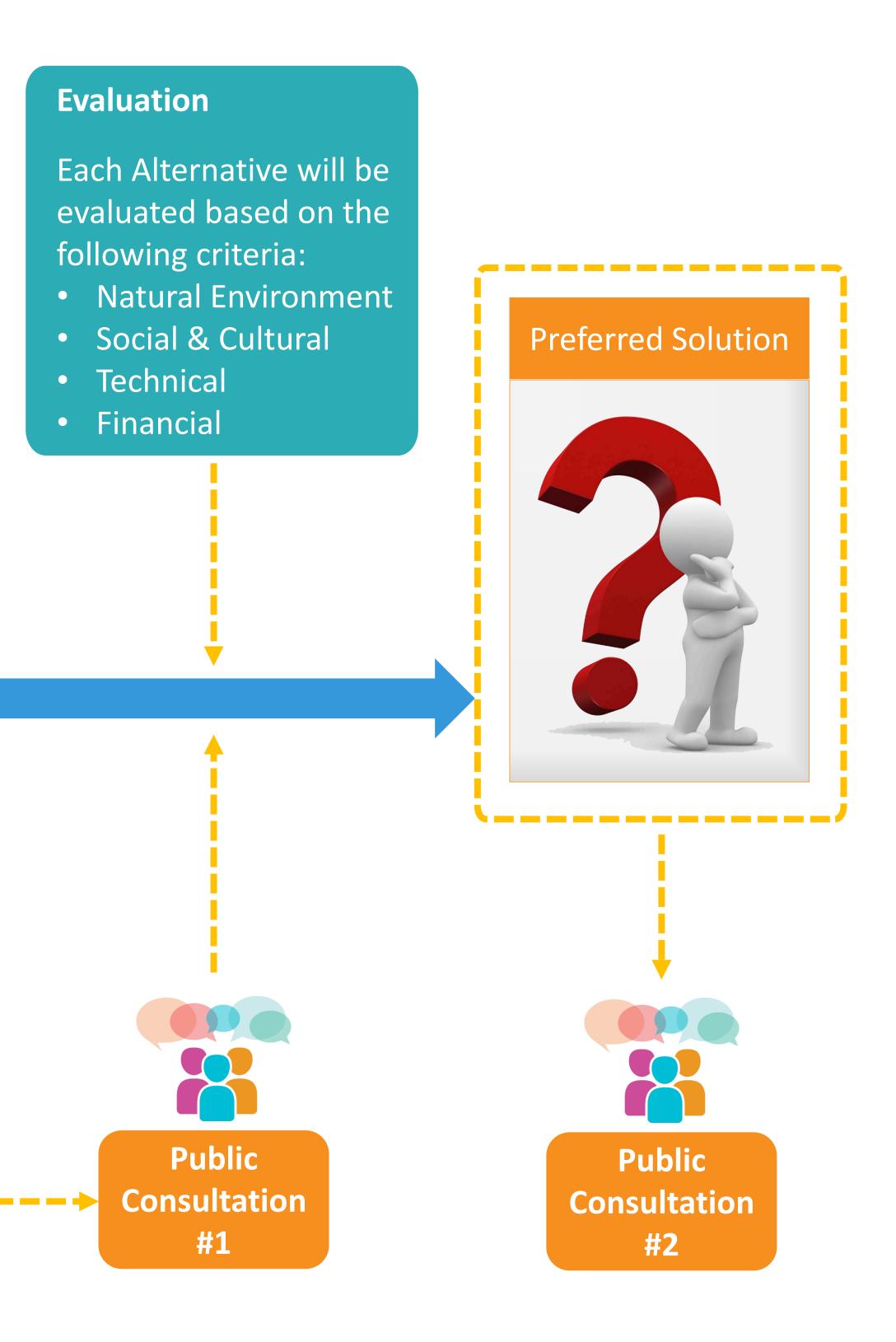
Check out our website at: https://www.peelregion.ca/pw/environ-assess/ea.htm



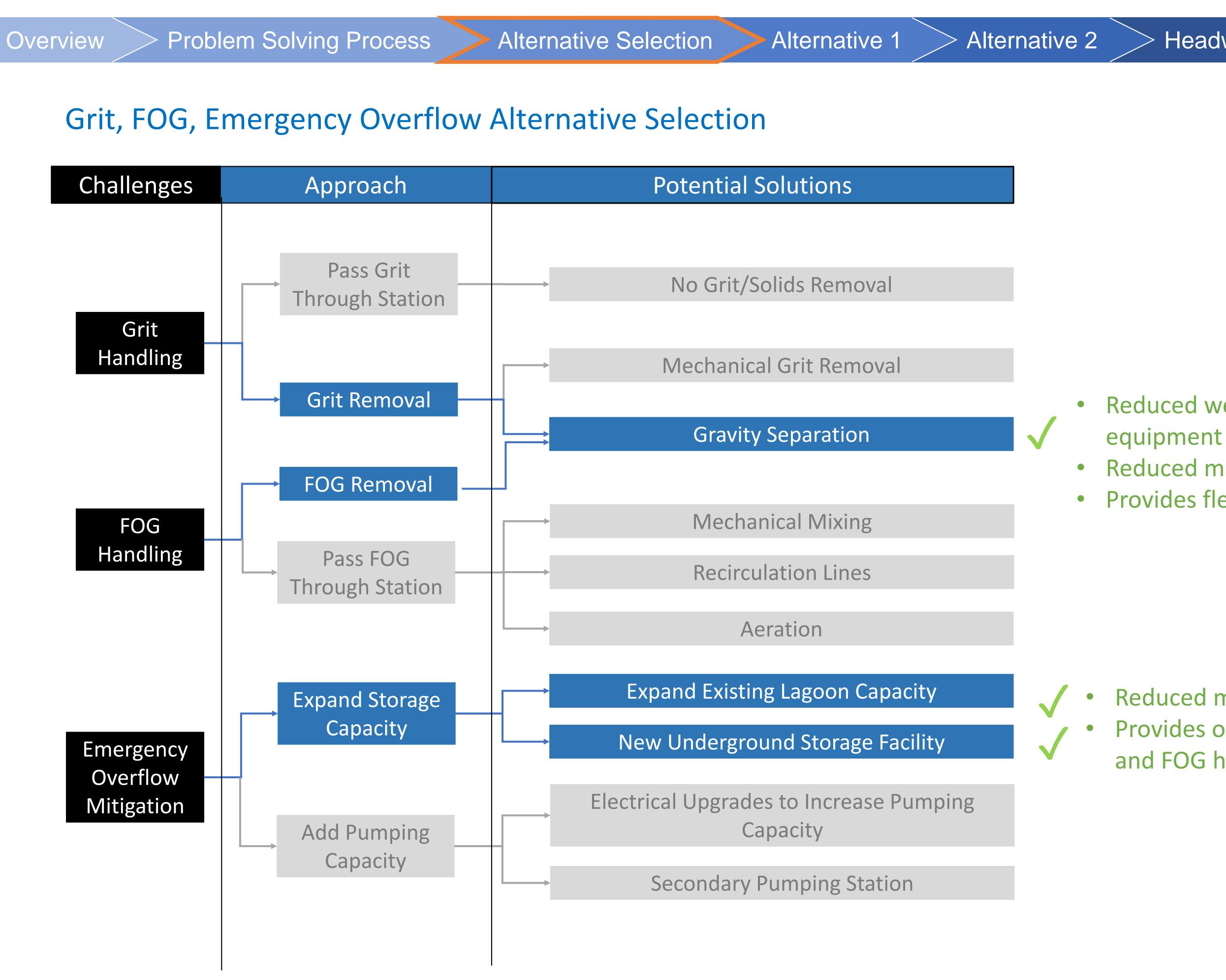
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Mitigation

Next Steps







Reduced wear to pumping station and downstream

- Reduced maintenance and operational needs
- Provides flexibility for future expansion

Reduced maintenance and operational needs Provides opportunity for integration with the grit and FOG handling





Problem Solving Process

Alternative Selection

Grit, FOG, Emergency Overflow - Alternative 1

Proposed Emergency Overflow Lagoon Expansion

✤ 30 minutes of storage time

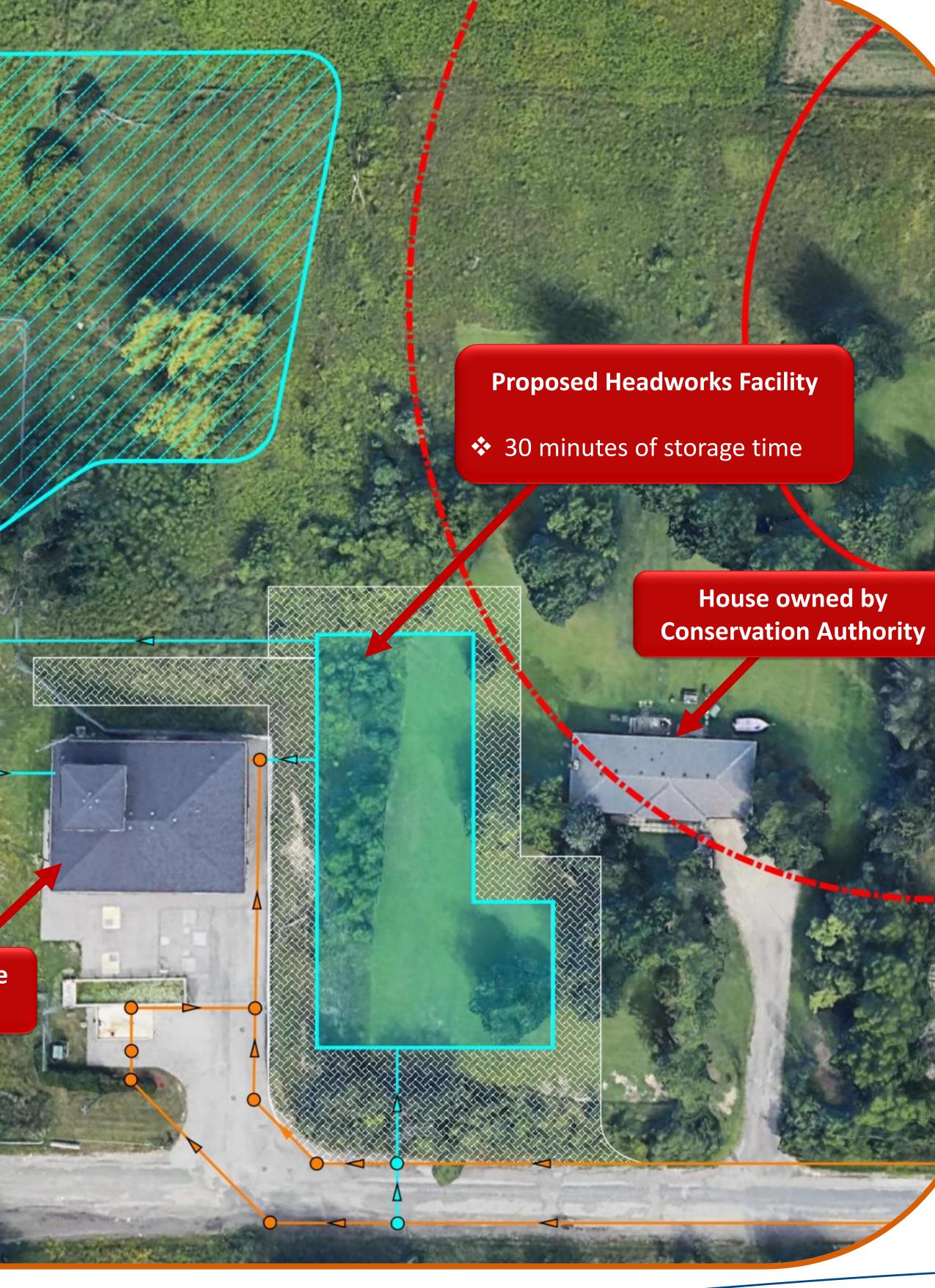
Existing Emergency Overflow Lagoon

Raise side walls of lagoon to increase storage volume 60 minutes of storage time

Existing McVean Sewage Pumping Station

Alternative 1

Alternative 2



Headworks Facility

Mitigation

Next Steps



Sanitary flows along Ebenezer Road will be redirected to the proposed Headworks Facility.



The Headworks Facility will remove grit and FOG from the sewage before entering the McVean Sewage Pumping Station.



The existing lagoon will be expanded.

Pros and Cons



- Pros:
- Lower capital cost



Cons:

- House near station will be heavily impacted during construction
- Construction may impact archaeologically sensitive lands

Legend

- Existing Maintenance Hole
- Existing Sanitary Sewer Flow Direction
- Proposed Maintenance Hole \bigcirc
- Proposed Sanitary Sewer Flow Direction



Region of Peel

working with you

- Proposed Access Road
- Archaeologically Sensitive Area
- ----- Buffer for Archaeologically Sensitive Area



Problem Solving Process

Alternative Selection

Grit, FOG, Emergency Overflow - <u>Alternative 2</u>

Existing Emergency Overflow Lagoon

To be abandoned

Existing McVean Sewage Pumping Station

Alternative 1

Alternative 2

Proposed Emergency Overflow Lagoon

90 minutes of storage time

Proposed Headworks Facility

✤ 30 minutes of storage time

House owned by Conservation Authority

Headworks Facility

Mitigation

Next Steps



Sanitary flows along Ebenezer Road will be redirected to the proposed Headworks Facility.

The Headworks Facility will remove grit and FOG from the sewage before entering the McVean Sewage Pumping Station.



The existing lagoon will be abandoned and a new lagoon will be built.

Pros and Cons



Pros:

• Headworks Facility building is less visible from Ebenezer Rd.



Cons:

• Higher capital cost

Legend

- Existing Maintenance Hole
- Existing Sanitary Sewer Flow Direction
- Proposed Maintenance Hole

Proposed Access Road

- Proposed Sanitary Sewer Flow Direction

Region of Peel

working with you

- ----- Archaeologically Sensitive Area
- ----- Buffer for Archaeologically Sensitive Area

Overview



Headworks Facility

Mitigation

Next Steps

Above ground building for odour control unit and electrical controls Building to be designed to match the aesthetics of other buildings in the area

> Below ground grit and fat, oil and grease removal chambers



Overview

Problem Solving Process

Mitigation Measures

How will you be impacted?

- Estimated construction duration: 18 24 months
- Noise and dust from heavy machinery
- Construction traffic through Ebenezer Road \bullet
- Once construction is complete, there will be no more dust, noise and traffic related construction impacts

How will we reduce the ways you are impacted?

- Construction work hours will comply with the City of Brampton noise by-law
- Construction work will be at the far west end of \bullet Ebenezer Road
- Truck movements will be scheduled to minimize impacts to residential streets



Alternative 1

Alternative 2



Legend

Proposed Construction Compound

Mitigation

Next Steps



Overview

Problem Solving Process

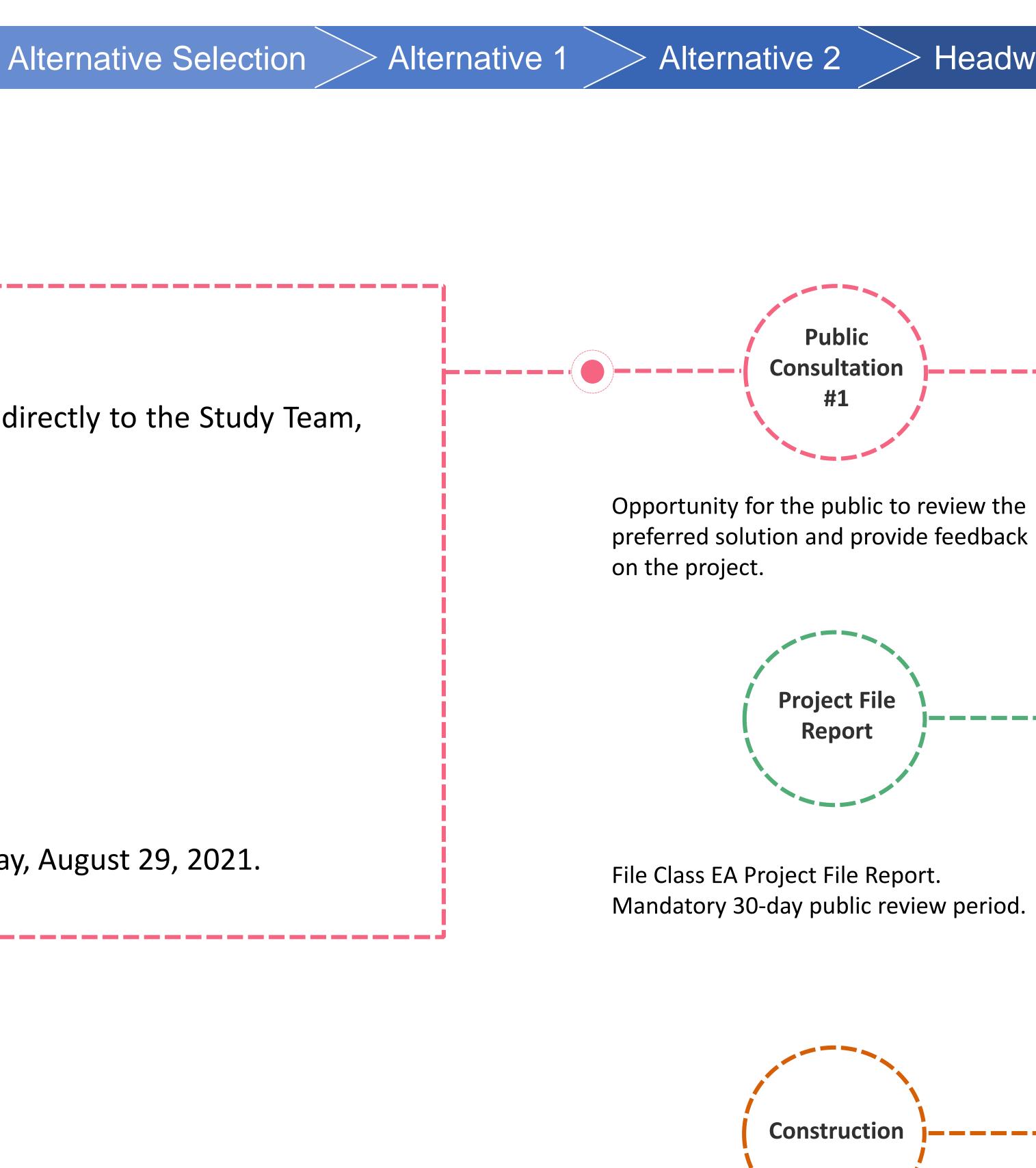
Next Steps

Stay Informed

If you would like to submit your comments directly to the Study Team, please contact:

Lyle LeDrew Project Manager, Water & Wastewater **Region of Peel** Phone: 905-791-7800 ext. 7836 Email: Lyle.ledrew@peelregion.ca

Please provide your feedback before Saturday, August 29, 2021.



Headworks Facility

Mitigation

Next Steps

Opportunity for the public to provide feedback on the project. Public Consultation **#2** Document findings of study. Incorporate comments received from the public and review agencies. Notice of Study Completion Construction estimated to begin in 2024

