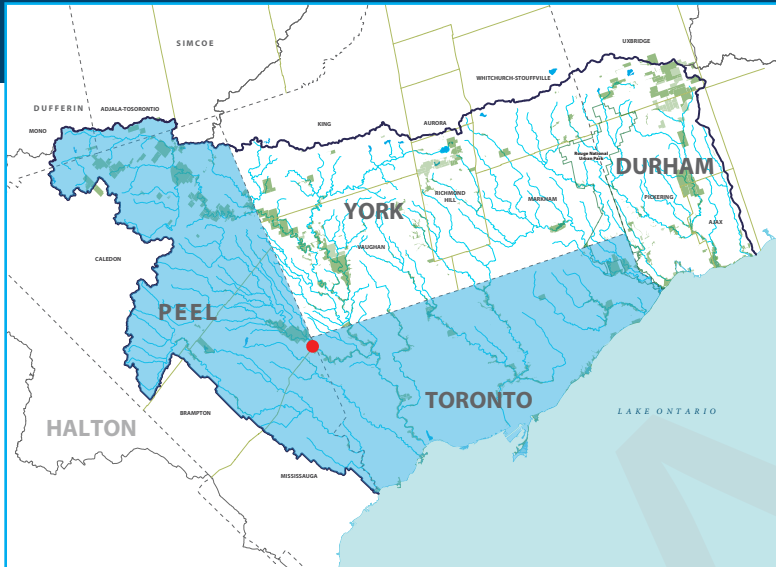




PEEL AND TORONTO

FLOOD AND EROSION INFRASTRUCTURE – PHYSICAL

Claireville Dam Major Maintenance



OVERVIEW

Claireville Dam was constructed in 1963 to provide flood protection to communities on the Humber River. Deficiencies identified in 2016 classify the dam's hazard potential as "Very High" because of the risk to life and property if the dam fails.

Recent inspections have identified several major deficiencies that need to be repaired to ensure the safety of the structure. Extreme weather conditions under climate change projections will continue to exacerbate this risk.

This project will fix major structural dam deficiencies, reduce the hazard potential, uphold regulatory obligations, ensure compliance with critical safety standards, and protect densely populated downstream communities for decades to come.

OBJECTIVES

- Restore critical dam safety infrastructure to protect life & property
- Maintain asset in a state of good repair
- Modernize operational components

BENEFITING STAKEHOLDERS

- Estimated 250 people residing in at-risk communities
- Multiple properties and critical infrastructure would be protected
- Governments: City of Toronto, City of Brampton, Region of Peel, Province of Ontario, Government of Canada

EXPECTED IMPACT

- Protected downstream communities through reduced flood risk
- Maintained operational integrity through future-proofed essential infrastructure
- Upheld regulatory obligations, ensuring compliance with critical safety standards
- Job creation: Multi-year activities will generate approximately 50 construction, geotechnical and engineering design sector jobs* requiring numerous specialized trades.

*The Economic Benefits of Public Infrastructure Spending in Ontario, 2017

BUDGET & FUNDING

Total project cost \$11 Million

- Wing Wall Rebuild: \$1.2M
- Gate System Repair: \$3.3M
- Spillway Major Maintenance Works: \$6.5M

Possible Funding Sources:

- Peel Region, City of Brampton, City of Toronto, Government of Ontario, Government of Canada

OWNERSHIP

TRCA Asset serving Peel Region and the City of Toronto



PEEL AND TORONTO

FLOOD AND EROSION INFRASTRUCTURE – PHYSICAL

KEY PRIORITIES AND ACTIVITIES TO DATE

Rebuild Wing Wall High Priority



Failure is imminent, wing wall replacement is required.

Engineering design work and approvals to be completed in 2025.

Gate System Repair High Priority



Gate currently inoperable, severe gate corrosion observed.

Engineering design started in 2024.

Spillway Major Maintenance Medium Priority



Risk only during extreme floods, lower priority than above.



RISKS IF UNFUNDED

Social: Residential communities and businesses at increased flood risk due to dam break.

Financial / Economic: Emergency repairs are always more disruptive and expensive than pre-planned work and scheduled maintenance activities. Broad financial impact to region beyond impacted communities if dam should break.

Deferred Action Risk: Delayed action results in a higher probability of experiencing extreme floods that could imperil the dam. Compounded needs increase complexity.

KEY DATES

- Possible Start: 2026
- Anticipated duration: 7-10 years



CONTACT INFORMATION:

Craig Mitchell, Senior Manager,
Flood Infrastructure & Hydrometrics,
Craig.Mitchell@trca.ca