

YELLOW CREEK NEAR HEATH STREET EAST EROSION CONTROL AND SLOPE STABILIZATION PROJECT

Public Meeting #1 April 23, 2018







7:00 – 7:10 PM: Welcome and Introductions

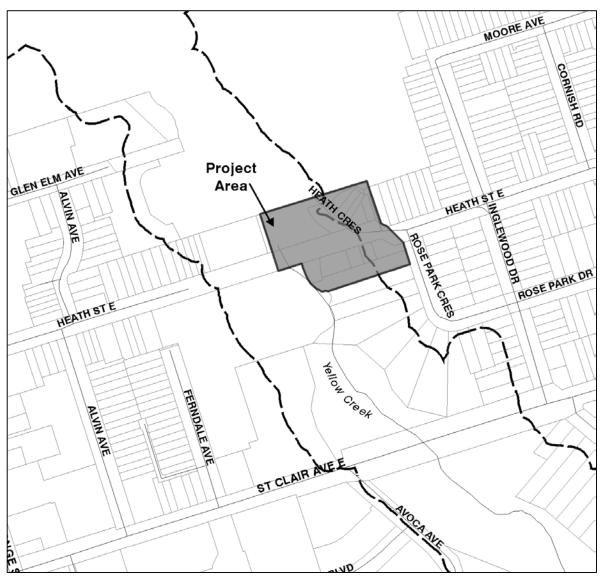
7:10 – 7:30 PM: Presentation by TRCA

- Overview of the erosion and slope instability issues at this site
- Overview of TRCA's Erosion Risk Management Program
 - Primary Objective: Address the underlying erosion and slope instability issues behind Heath Street East & Heath Crescent
 - Secondary Objective: Reinstate pre-existing pedestrian access into the Vale
 of Avoca Ravine and David A. Balfour Park with support from the Community
 and City of Toronto Parks, Forestry and Recreation
- Overview of the Class EA planning process
- Proposed next steps

7:30 - 8:30 PM: Question & Answer Session

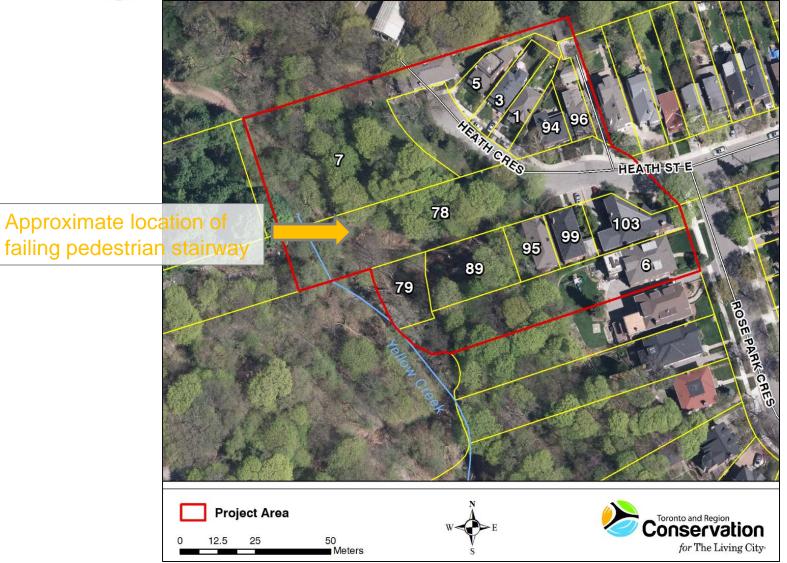


STUDY AREA





STUDY AREA





Failures on east valley slope were reported to CoT following the July 8, 2013 severe weather event

CoT Parks, Forestry and Recreation (PR&R) completed a Stairway Feasibility Study in 2014 with Cosburn Giberson Landscape Architects

CoT retained Schollen & Company Inc. Landscape Architects in 2015 to develop designs for stairway, however it was concluded that the stability of the existing slope was not acceptable for the purpose of implementing a replacement stairway Schollen recommended expanded slope stability analysis to include the surrounding slope as well as residential properties at the top of slope;

TRCA offered to assess the risk to the residential properties through the Erosion Risk Management Program in 2017



Identification of Erosion and Slope Instability Issues

 Based on the findings of the Slope Stability and Erosion Risk Assessment, Heath Street East and Heath Crescent have been identified as priority candidates for work based on risk to residential properties and City of Toronto infrastructure at the top of slope (GeoTerre Ltd., 2017)

Toronto and Region Conservation Authority (TRCA)
has proposed to a develop a preferred solution to
stabilize the slope as required to protect life and
property from the hazards of flooding and erosion.



Proposed Project Limits



Upstream limits of project area within Yellow Creek

Failed gabion baskets within Yellow Creek Channel





Proposed Project Limits



Scouring along channel of Yellow Creek at toe of Slope

Mid to upper slope



Proposed Project Limits



Failed stairway (top of slope)

Failed stairway (mid-slope)







- Primary Objective: Stabilize the slope as required to provide long term, low maintenance protection for the residential properties and City infrastructure identified to be at risk at the top of slope
- Secondary Objective: As part of this project, TRCA has offered to assist the City to reinstate the pre-existing pedestrian access into the Vale of Avoca ravine system and David A. Balfour Park







- TRCA is working in partnership with CoT PF&R to stabilize the slope and reinstate the existing pedestrian access into the Vale of Avoca Ravine and David A. Balfour Park
- PF&R has committed funding to reinstate the new pedestrian access; TRCA to fund all erosion control and slope stabilization works in accordance with the terms of the Erosion Risk Management Program
- All designs and technical reports will be provided to the CoT to facilitate future channel works within the Yellow Creek Ravine







- One of 36 CAs in Ontario
- Provincially legislated under the CA Act of 1946
- Watershed boundaries (crosses multiple municipalities)
- Largest landowner in the GTA

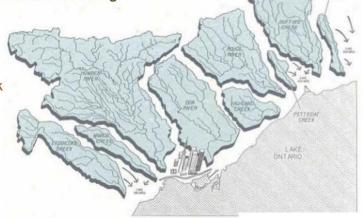
The TRCA's area of jurisdiction includes:

3,467 sq. km: 2,506 on land and 961 water-based.



- Etobicoke Creek Rouge River
- Mimico Creek
- Petticoat Creek
- Humber River
- Duffins Creek
- Don River
- · Carruthers Creek
- Highland Creek

The TRCA's jurisdiction also extends into Lake Ontario to a point defined by the Territorial Divisions Act, R.S.O. 1980



The population in 2004 within TRCA's jurisdiction is approximately 4,300,000 (37% of Ontario's population).



Conservation Authorities Act (1946)

- created in 1946 in response to flooding and erosion concerns
- basis for TRCA's mandate to prevent, eliminate or reduce the risk to life and property from flooding and erosion
- TRCA achieves this mandate through:
 - Ont. Reg. 166/06 (permits)
 - > Programs
 - Flood Forecasting and Protection
 - Erosion Risk Management





EROSION RISK MANAGEMENT PROGRAM – Typical Sites













EROSION RISK MANAGEMENT PROGRAM – Typical Sites













EROSION RISK MANAGEMENT PROGRAM

- 1. 30+ years monitoring & remediating erosion hazards across the GTA
- How work is prioritized Risk to essential structures (i.e. homes, infrastructure)
 - i) Heath Street East and Heath Crescent prioritized for work based on risk to residential properties and City of Toronto infrastructure at the top of slope (GeoTerre Ltd., 2017)
- 3. Benefitting landowners must contribute to the project via conveyance of the impacted lands into public ownership OR financial contribution



EROSION MANAGEMENT PROGRAM

Funding and Priorities



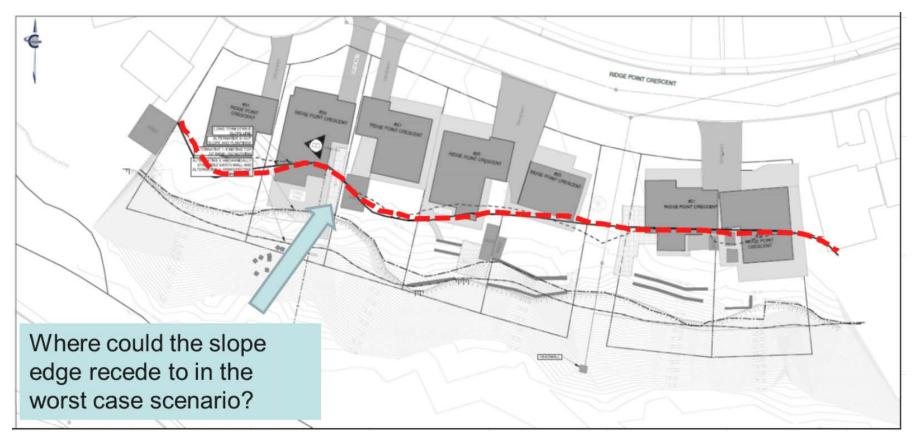
- Funded annually by TRCA's municipal partners and on a project-by-project basis by Ministry of Natural Resources and Forestry
- Majority of funding applied toward the maintenance of existing erosion control structures
- In Toronto, funding is extended to private properties on a priority basis, subject to approvals and agreements, and on an annual budget approval

- TRCA monitors erosion control structures and erosion hazard sites annually
- Sites are assigned a priority ranking
- Priorities are dynamic and site conditions change (ex. July 8th, 2013 severe weather event)



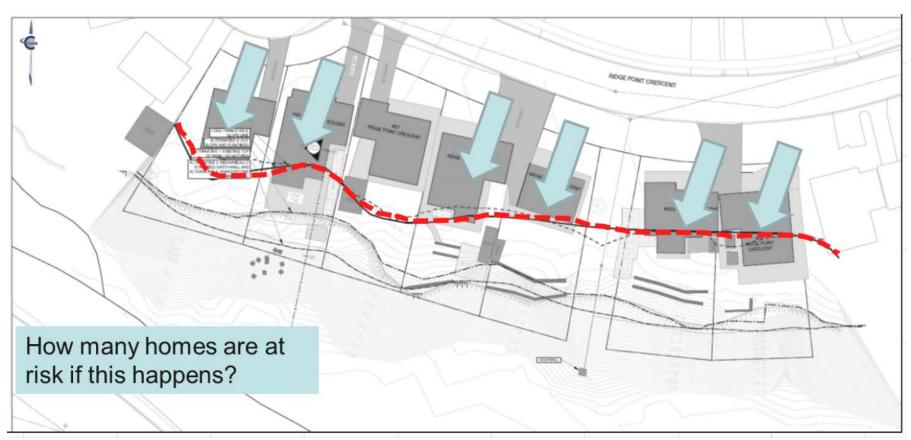


How sites are prioritized for assistance



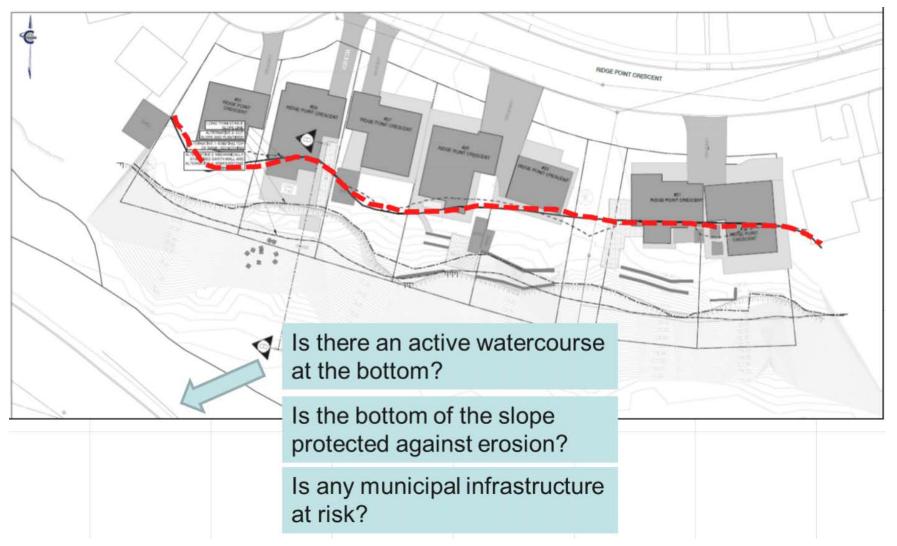


How sites are prioritized for assistance



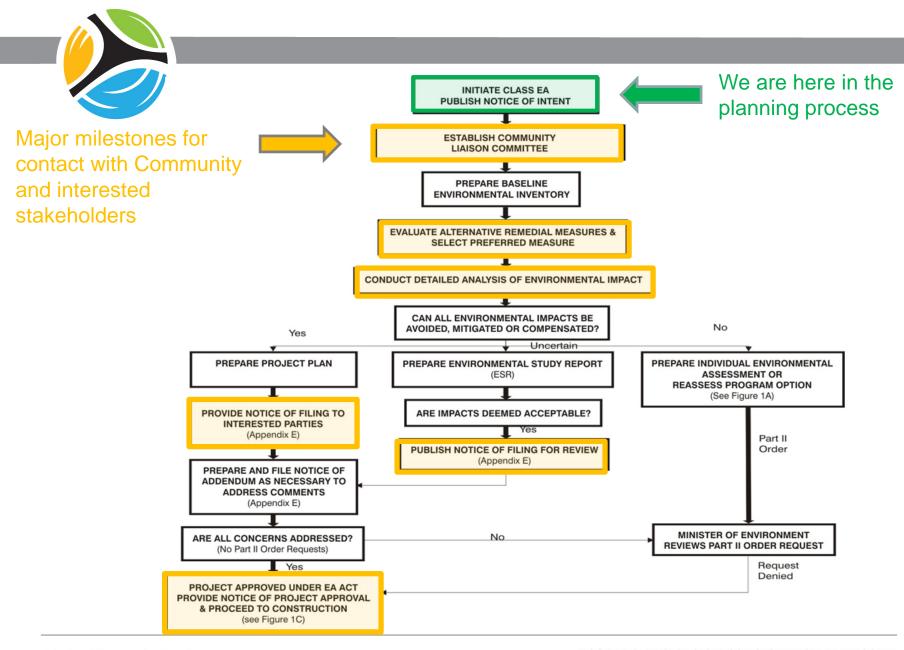


How sites are prioritized for assistance



PLANNING AND DESIGN PROCESS:

Class EA for Remedial Flood and Erosion Control Projects (amended 2013)







- 1. Please fill out the general comment form to provide your feedback
- 2. TRCA to file Notice of Intent formally initiating the Class EA planning process
- 3. TRCA to continue collection of baseline data to develop a range of alternative solutions for evaluation by the Community Liaison Committee
- 4. TRCA to present range of alternative solutions to interested stakeholders tentatively in June 2018



