



Pottersburg Creek Slope Stability Study South of Hamilton Road Municipal Class Environmental Assessment Schedule 'B'

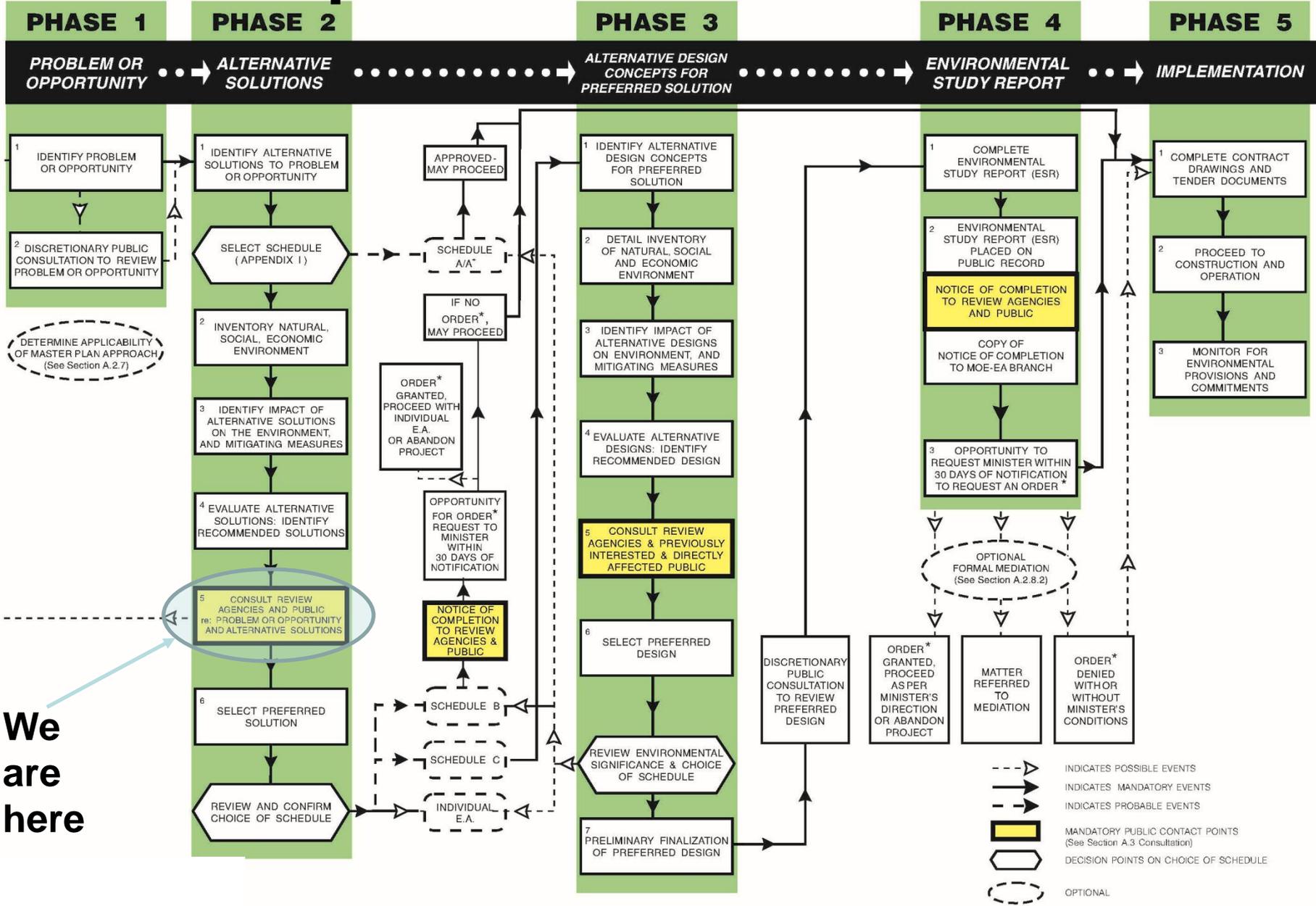


Public Information Centre at
Civic Works Committee
July 22, 2013

Stormwater Management Unit
Environmental and Engineering
Services

Berta Krichker, M.Eng., F.E.C., P.Eng.
Manager of Stormwater Management Unit

Municipal Class EA Process



We are here

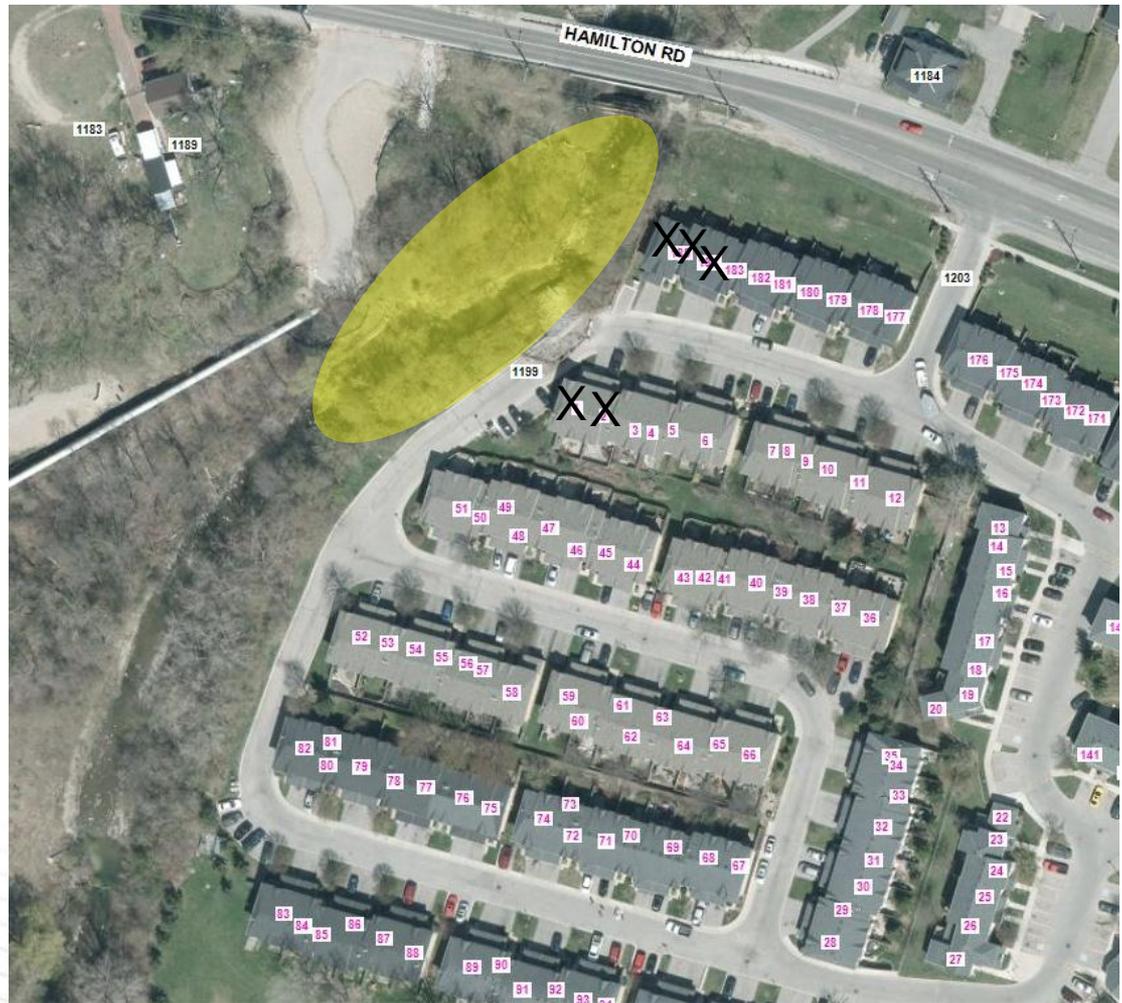
Purpose and Objective of Study

- Purpose:
 - Develop bank stabilization options
 - Protect properties and servicing infrastructure
 - Protect, maintain and enhance ecological processes, stream function and natural features of the area
- Objective
 - Develop and evaluate viable options (review agency and public input)
 - Recommend solution



Study Limits

- 80 m of channel downstream of Hamilton Road



Problem and Opportunity

- Problem:
 - East bank slope is unstable and requires remedial action
 - Residences and servicing infrastructure in critical condition and at risk
- Opportunity:
 - Develop remediation options that ensure public safety
 - Protect key services
 - Protect environmental and ecological conditions of Pottersburg Creek





London
CANADA

Background

- Natural slope was modified by engineering works in 1989
- Portions of slope built steeper than original recommended
- Residential units and servicing infrastructure located within hazardous slope stability area
- Focus of this study is on remediation works





London
CANADA

Option 1: Do Nothing

- Slope is unstable and unsafe
- Residential units located on top of unstable slope (public risk)
- Key servicing infrastructure at risk (water and sewer)
- Environmental impacts of potential malfunction or breaks in services
- Not a viable option

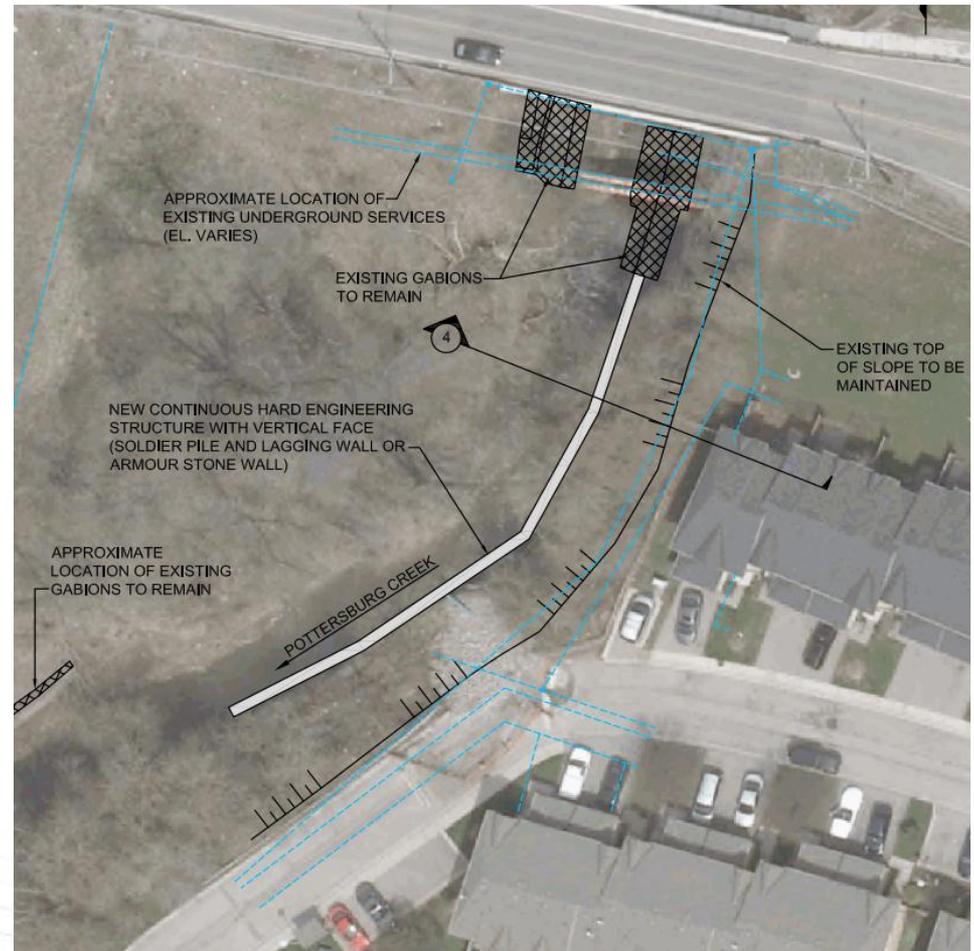




London
CANADA

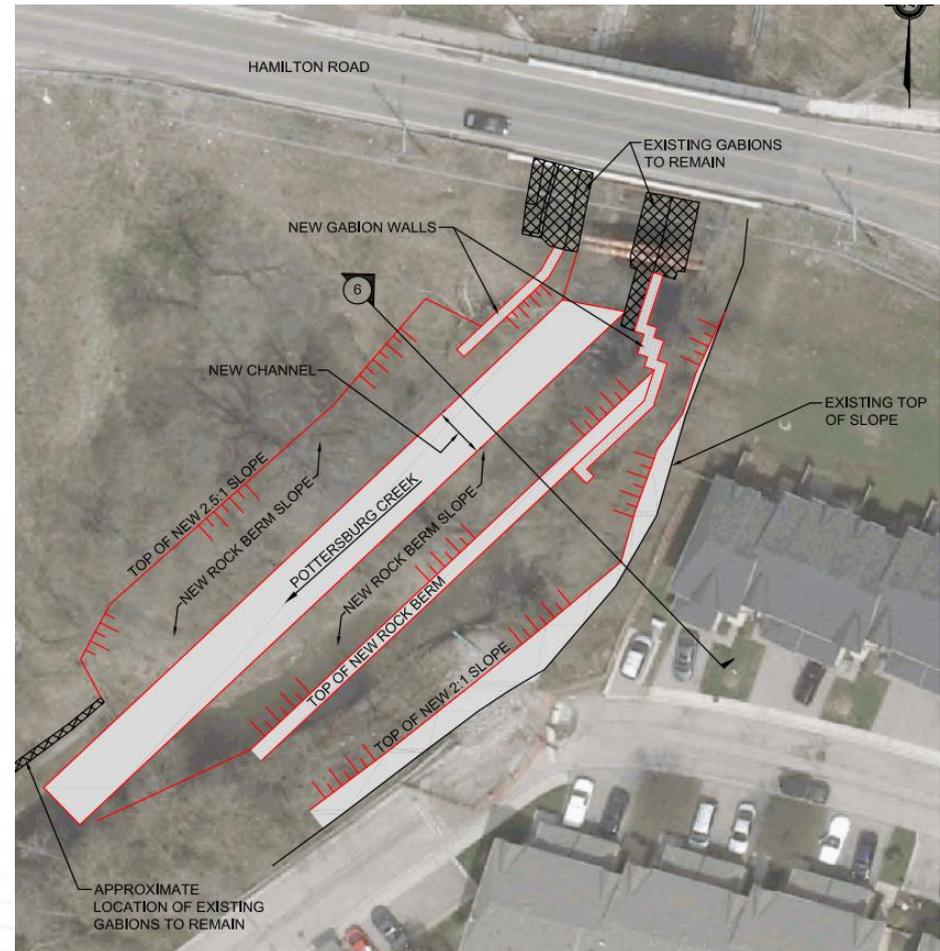
Option 3: New retaining wall

- 60 m of vertical wall
- New wall to be owned by individual property owners
- Heavy insurance requirements
- Long term maintenance required
- Residences and servicing infrastructure to remain
- Rock berm in front of wall required
- Elimination of fish spawning grounds
- Cost: Very High



Option 4: Channel Re-alignment

- Residences and services remain
- To facilitate shift, need new retaining walls near bridge
- Reshape bank, line with rock
- Remove contaminated PCB from west bank
- Design in-stream fish habitat improvements
- Native vegetation planting above rock
- Minor maintenance required
- Cost: Moderate



Draft Preferred Alternatives

Option 2 and 4: Slope Stabilization with Channel Re-Alignment; or Slope Stabilization with Buyout (Purchase) of Residential Properties

- Channel Realignment allows existing private servicing infrastructure on the east bank to remain in its current location. The estimated cost associated with this option is approximately \$1.14 M.
- The Slope Stabilization with Buyout (Purchase) of Residential Properties Solution involves removal of the existing gabion baskets and re-grading the slope of the east bank to a stable inclination this is facilitated through acquisition and demolition of five residential units adjacent to the slope. The estimated cost associated with this option is approximately \$1.3 M.



London
CANADA

Summary & Next Steps

Pending Council approval, a Notice of Completion will be filed, and the EA Project File be placed on public record for a 30 day review period:

- Stakeholders are encouraged to provide input and comments regarding the study during this time period.
- Should stakeholders feel that issues have not been adequately addressed, they may provide written notification within the 30-day review period to the Minister of the Environment requesting further consideration.
- Subject to no requests for a Part II Order being received, the project will be in a position to move forward to the detailed design and construction stages in accordance with the recommendations of the study subject to this work being funded by the private owner.

