



Dingman Creek Stage 2 Environmental Assessment Flood Hazard Update



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Land Acknowledgement

The City of London is situated on the traditional lands of the Anishinaabek, Haudenosaunee, Lūnaapéewak and Attawandaron Peoples.

We honour and respect the history, languages and culture of the diverse Indigenous People who call this territory home.

The City of London is currently home to many First Nations, Metis and Inuit People today. As representatives of the City of London, we are grateful to have the opportunity to work and live in this territory.



Introductions

Welcome! Thank you for joining us today.

Who's on the call today?

- Adrienne Sones - Engineer, Environmental Services Program Manager & Stormwater Engineering
- Amna Tariq - Engineer, Environmental Services Program Manager & Stormwater Engineering

Outline

1. Introduction/Background

- Review Objectives - Dingman Creek Stage 2 Environmental Assessment (EA)
- Dingman Creek Stage 2 EA Progress Update

2. Official Plan Amendment

- Flood Hazard Official Plan Amendment Schedule
- Policy/Text Updates
- Mapping Updates

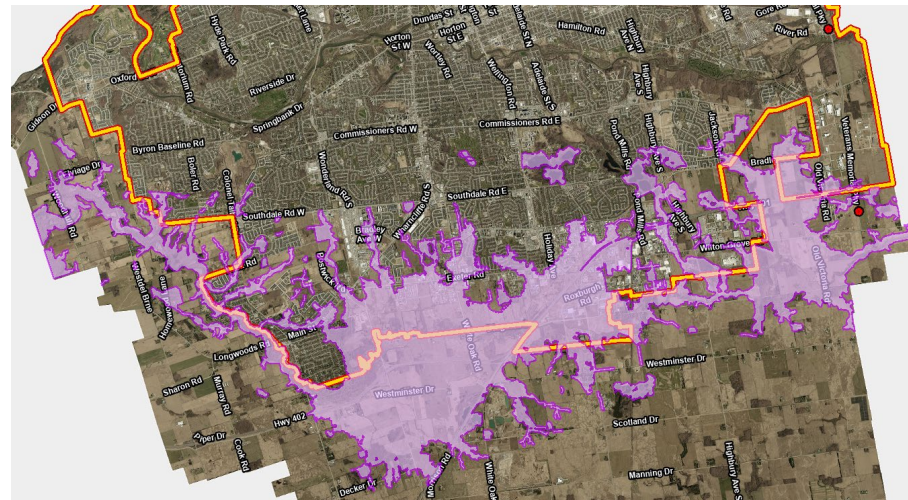
3. Flood Hazard Limit

4. Future Coordination for Flood Hazard mapping



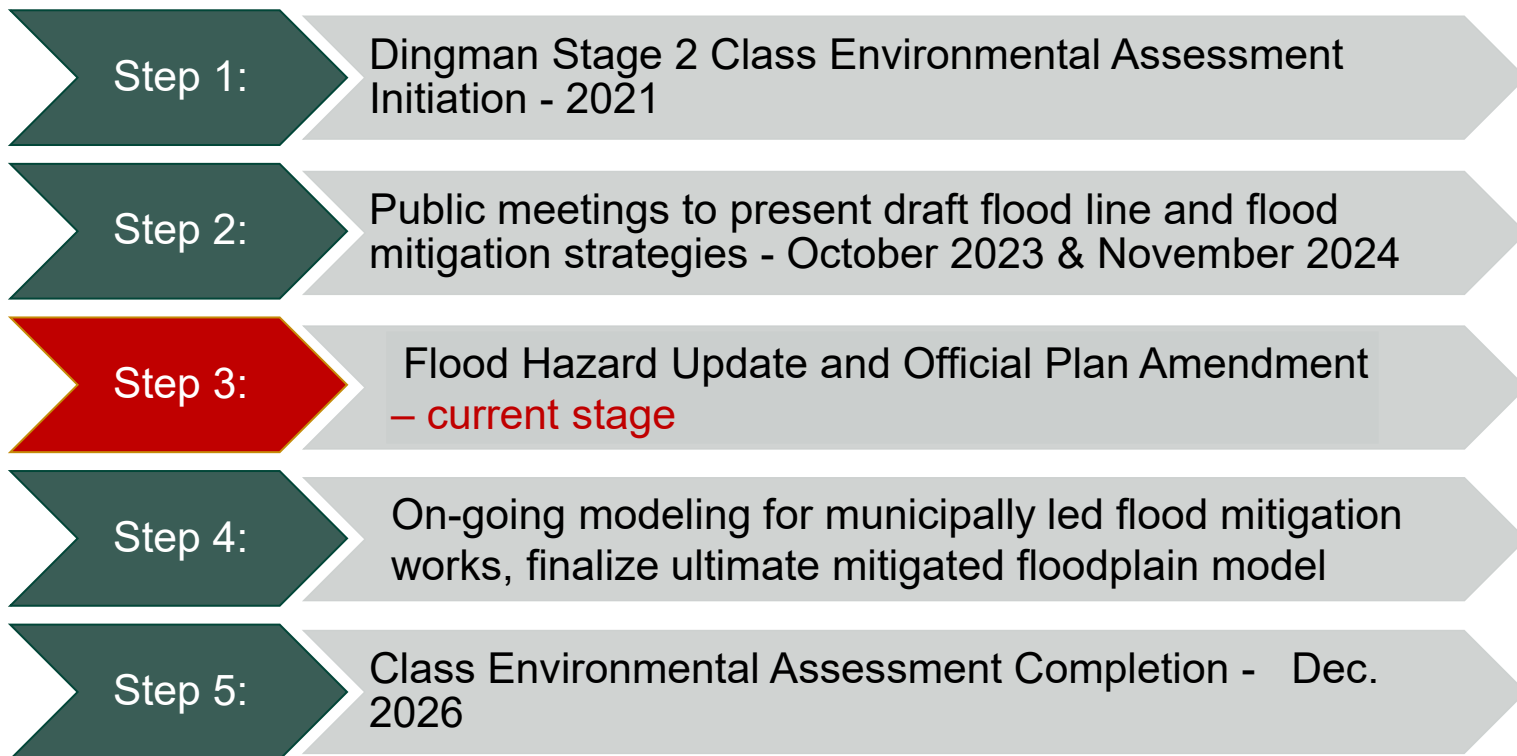
Dingman Creek Stage 2 Environmental Assessment (EA)

- **Dingman Stage 1 EA:** developed SWM strategy for lands not impacted by Upper Thames River Conservation Authority (UTRCA) Screening Area
- **Dingman Stage 2 EA:** includes flood hazard update and future municipal works for flood mitigation (e.g., culvert and channel upsizing)
- Floodplain update follows current regulatory standards, guidelines, and best practices
- National Disaster Mitigation Funding (NDMF) funding supported this EA

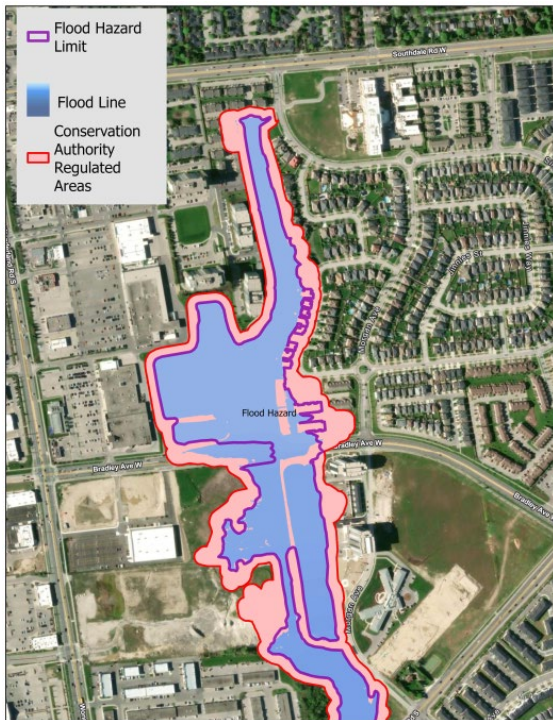


UTRCA Screening Area (includes Flood, Wetland and Erosion hazard limits)

Dingman Creek Stage 2 - EA Update

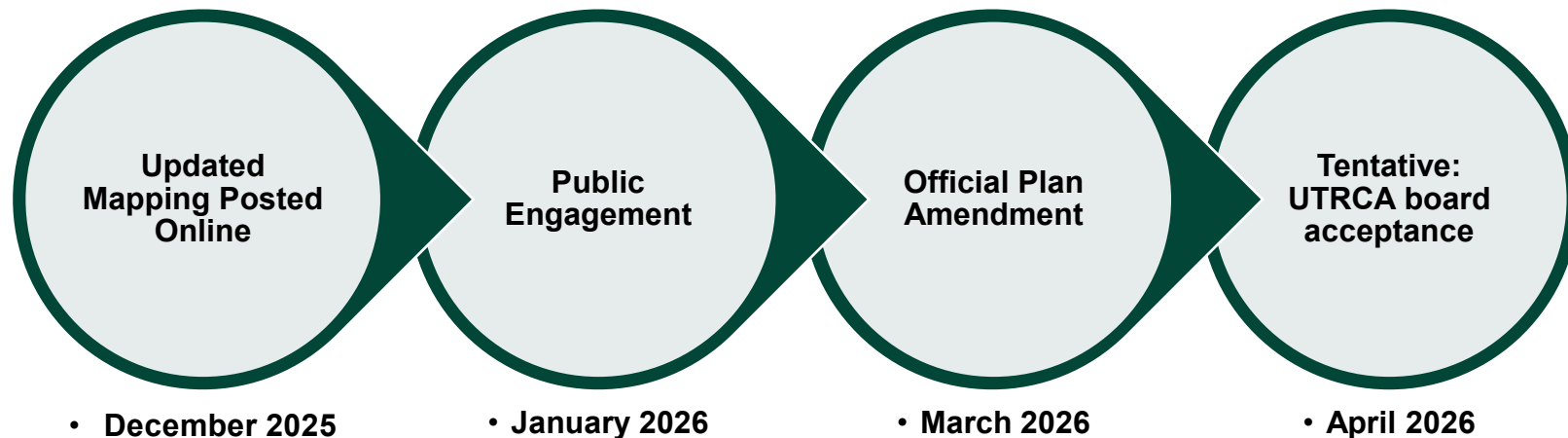


Key Concepts: Flood Hazard Update



- **Flood Line:** flood extents for a stream, watercourse, or lake during a flood hazard event (i.e. 250-year storm), typically delineated by modeling results.
- **Flood Hazard:** the flooded areas adjacent to a stream system, including buildings and high ground areas impacted by the natural hazard. May be used interchangeably with “*Flood Plain*”.
- **Conservation Authority Regulatory Area:** Encompasses **wetlands, flood, and erosion hazards** and applies an additional setback (15-30m).

Flood Hazard Update Schedule



Official Plan Amendment (OPA)

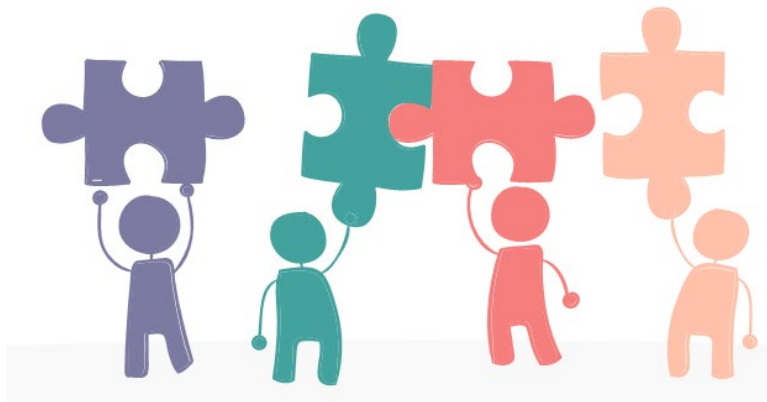
What will be updated?

- London Plan Policy Updates
- Place Types
 - Map 1, London Plan
- Flood Hazard Limit
 - Map 6, London Plan



Flood Hazard Update: City and UTRCA Coordination

- City met regularly with UTRCA's Planning and Regulation, and Water and Information Management staff
- UTRCA had peer review completed by Water Analytics
- Flood Hazard limit post processed by UTRCA

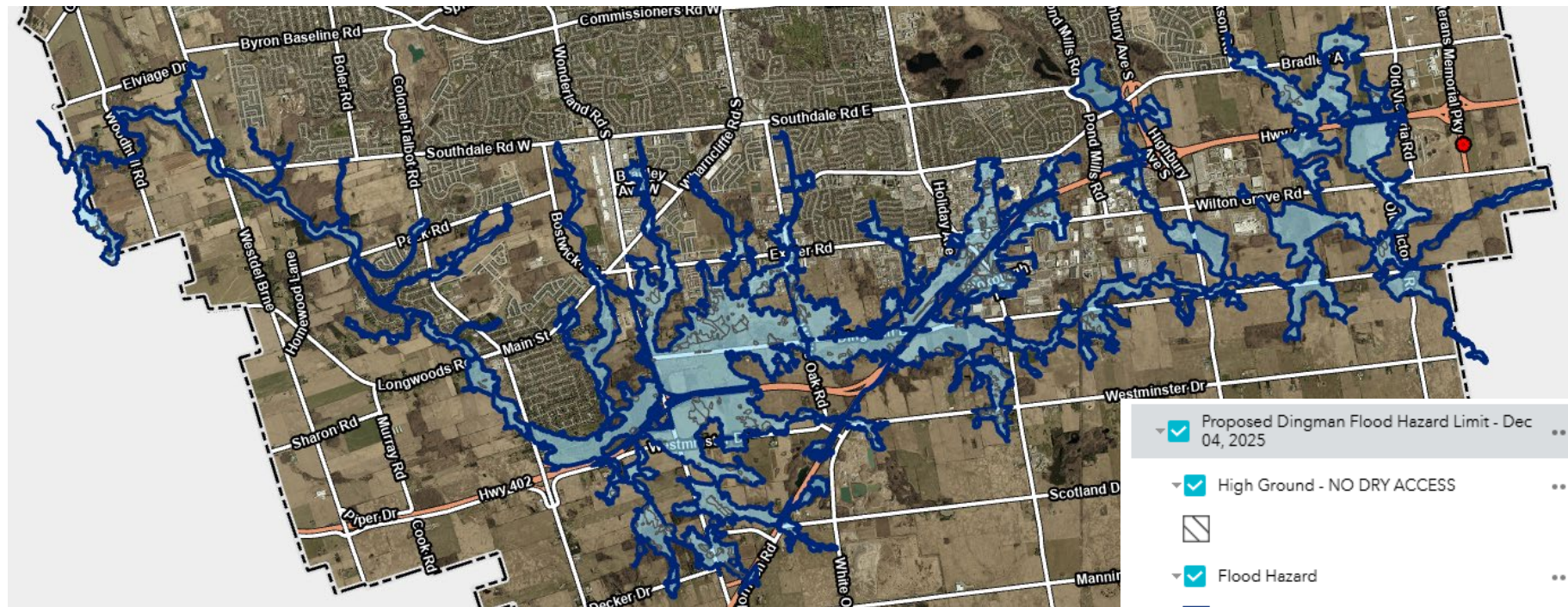


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CANADA

Flood Hazard Limit (250-year)



[Link to updated mapping](#)

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Modelling

- Hydrologic model
- Hydraulic model
 1. 1D Steady State
 2. 2D Unsteady State
- To define the flood hazard limit across the study area best model approach and flooding mechanisms were considered.

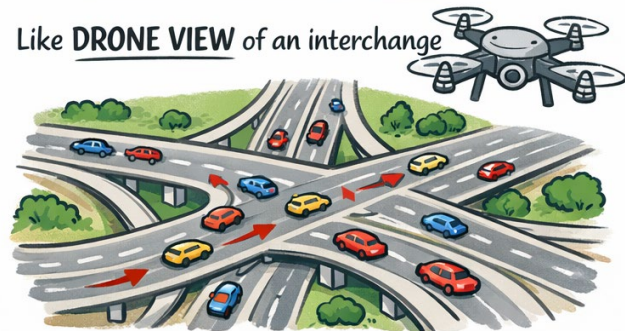
1D Steady Model

Like tracking ONE LANE of a highway



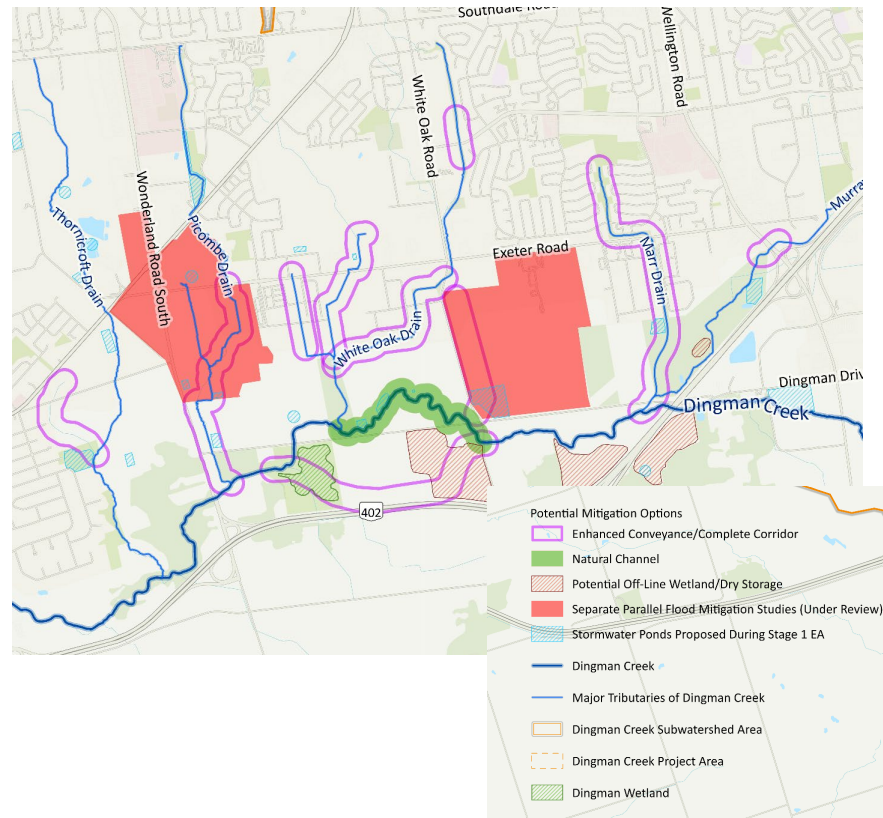
2D Unsteady Model

Like DRONE VIEW of an interchange



Future Coordination

- On-going Flood Hazard Limit updates as part of development and infrastructure projects (including Future Flood Mitigation Works).
- Impacts to Rezoning will be updated through ReThink London:
<https://getinvolved.london.ca/rethink-zoning>



Stay Informed

Sign up for email notifications at
<https://getinvolved.london.ca/dingmancreek>

Contact the project team at
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519-661-2489, Extension 5593



Questions?





Thank you!