**Presentation Overview** 



- 1. Where We Were
- 2. Conceptual Design
  - How Water Moves
  - How Sediment is Managed
  - How Habitat is Created
  - How Existing Contaminants are Managed
- 3. Next Steps

Don Mouth Naturalization and Port Lands Flood Protection Project EA

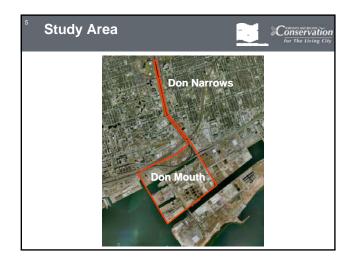
May 9th, 2009 TRCA

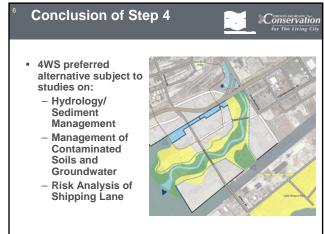
# To establish and sustain the form, features, and functions of a natural river mouth within the context of a revitalized City environment while providing flood protection up to the Regulatory Flood. Revitalized City Environment Revitalized City Environment Flood protection

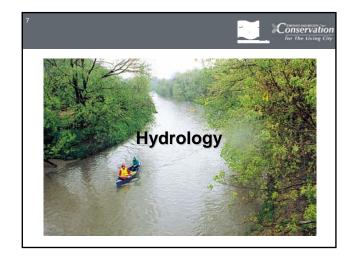
## Project Objectives

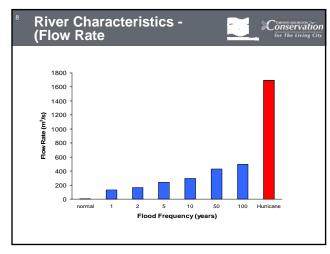


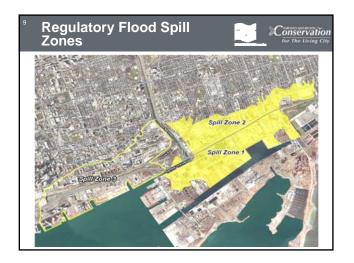
- 1. Naturalize and rehabilitate mouth of the Don River
- 2. Provide flood protection for Spill Zones 1 and 2
- 3. Manage sediment, debris and ice
- 4. Integrate infrastructure
- 5. Encourage recreation, cultural heritage opportunities and accessibility
- 6. Contribute to revitalization and sustainability of waterfront
- 7. Design and implement this project in a sustainable manner

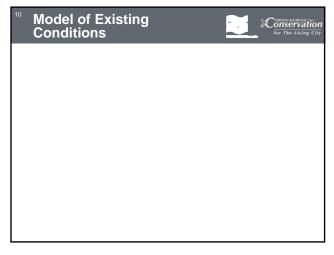




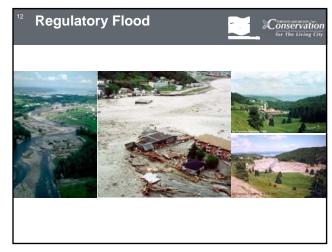


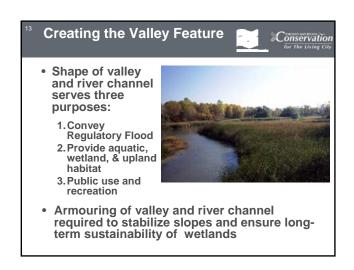


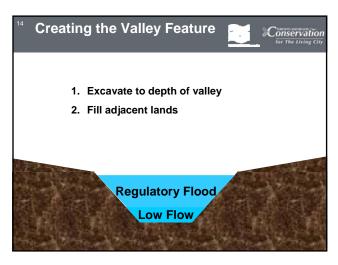


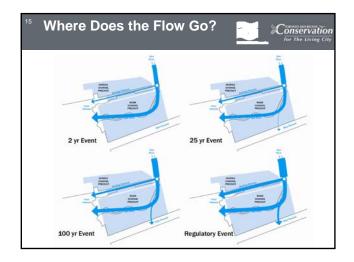


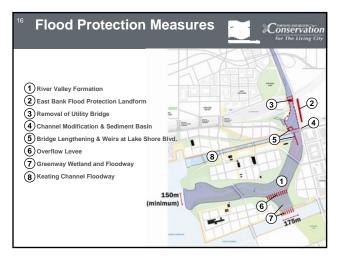


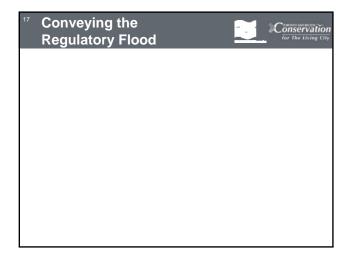


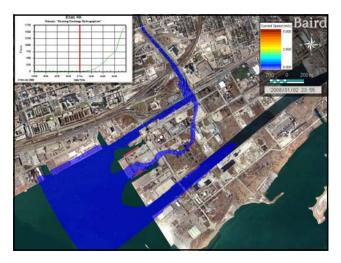


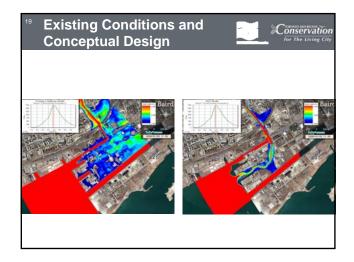


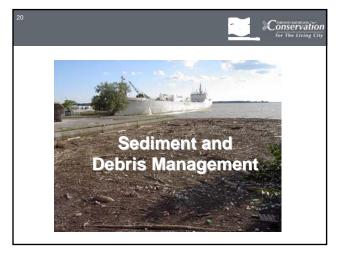












### Existing Approach to Sediment Management



- Sediment currently managed within Keating Channel
- Clamshell dredge removes up to 40,000 m<sup>3</sup> per year
- Barge with dredgeate is towed to Tommy Thompson Park for disposal

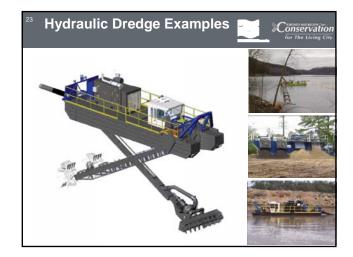


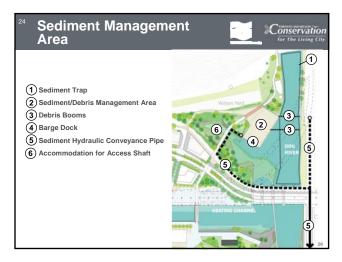
# Sediment Management Assumptions



- Dredging required to maintain hydraulic conveyance channel and ecological stability navigation
- Sediment trap north of Lake Shore Blvd. will collect majority of bedload (sand)
- Suspended sediment (silt and clay) will continue downstream as presently occurs



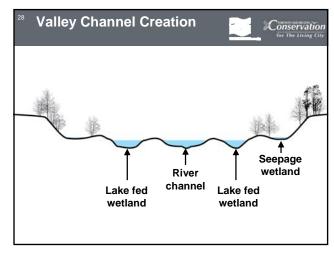












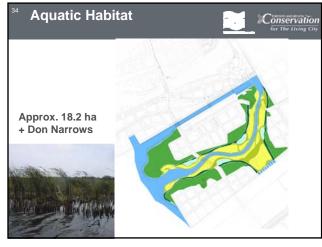


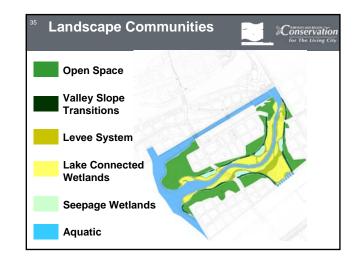


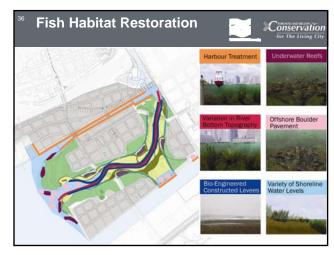


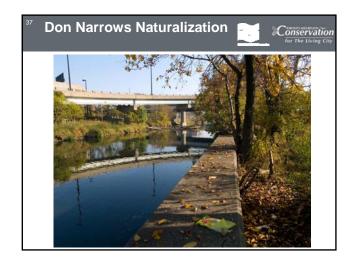












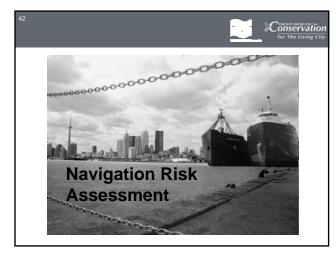


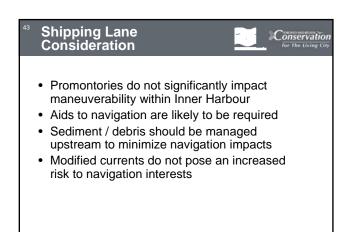


# Conservation for The Living City • Geotechnical and geo-environmental data collected in 2009 to fill gaps • Data will be used as part of risk assessment / risk management for entire Lower Don Lands

Data Collection on Soils

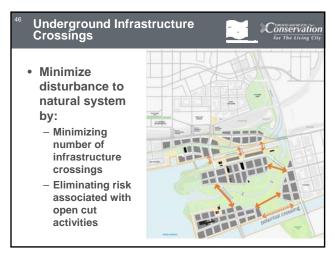


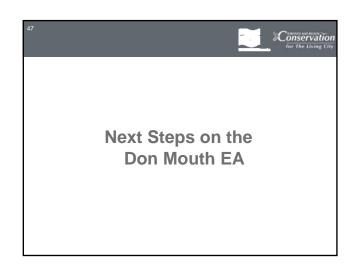
















| Timeline                                  |      |      | Conserved for the ti |      |  |
|---|------|------|----------------------|------|--|
| Remaining Tasks                           | 2009 | 2010 | 2011                 | 2012 |  |
| Detailed Impact<br>Assessment             | _    |      |                      |      |  |
| Public Meeting<br>#4                      | *    |      |                      |      |  |
| Prepare<br>Provincial /<br>Federal EAs    |      |      |                      |      |  |
| EA Approval<br>Process                    |      |      |                      |      |  |
| Detailed Design<br>and Other<br>Approvals |      |      |                      |      |  |
| Start<br>Construction                     |      |      | •                    |      |  |