



# Lakeview Waterfront Connection (LWC) Environmental Assessment

Public Information Centre (PIC)  
Meeting #2

May 1, 2012





## ENVIRONMENTAL ASSESSMENT (EA) PROCESS

- The LWC Project will follow a coordinated EA process (both Provincial and Federal requirements are met through a single set of documents)
- Provincial process (*Ontario Environmental Assessment Act*) – An Individual EA is required, which includes a two step process

Step 1: Terms of Reference (ToR)



Step 2: Environmental Assessment (EA)

- A federal screening may or may not be required for this project, pending changes to the *Canadian Environmental Assessment Act*.
- Proponents:

 **Region of Peel**  
Working for you





## STUDY AREAS

The **Project Study Area** is the area identified for potential establishment of ecological and public linkages. It is the area where direct impacts from the LWC are most likely to occur.



The **Regional Study Area** is a broader area in which direct and indirect effects of the LWC construction and establishment may be felt.





## PROJECT TIMELINES

- Detailed design, permit approvals, land acquisition, and construction/implementation – 4-5 years (target start date end of 2013)
- Establishment – defined as the timeframe for monitoring and adaptive management (approximately first 15 years after construction)
- Post-Establishment Monitoring – monitoring to identify if further intervention necessary if naturalized system is not self-maintaining (onwards from establishment)

*NOTE: monitoring does not include day-to-day park operations and maintenance*





## PROBLEM/OPPORTUNITY STATEMENT

### Highly Degraded Ecosystem

- Historic stonehooking resulted in habitat loss
- Low aquatic habitat diversity
- Sparse terrestrial habitat disconnected from other natural corridors
- Presence of invasive species leading to simplification of foodweb
- Water quality impacts: contamination and debris from creeks, high nutrient and bacteria loads leading to extensive algae blooms



### Ecological and Public Linkages

- Well-documented need for ecological and public linkages across eastern Mississauga waterfront
- Waterfront Trail does not follow the shoreline
- G.E. Booth WWTP is critical public infrastructure, so security concerns restrict public access across site





## PROBLEM/OPPORTUNITY STATEMENT

### Innovative Use of Future Resources

- An estimated 2 million m<sup>3</sup> of clean fill will be generated by Peel Region in the next 10 years from various infrastructure projects
- An opportunity exists to use the fill to create ecological and public linkages along the waterfront
- If beneficial use for fill could be found closer to the sites generating fill, the costs associated with disposal could be offset and redirected to other projects, such as the LWC





## OVERVIEW OF EXISTING ENVIRONMENT

- The Terms of Reference will include a brief description of the existing environment to highlight key features of the Project Study Area and Regional Study Area
- Based on secondary information, such as but not limited to:
  - Feasibility Study
  - LOISS reports
  - Inspiration Lakeview
  - Marie Curtis Park, Arsenal Lands and Colonel Samuel Smith Park reports and Master Plans
- The following aspects of the environment will be described:

### *Shoreline and Nearshore*

- Coastal Processes
  - Shoreline
  - Creeks
- Bathymetry (lake bottom contours)
- Aquatic Habitat
  - Nearshore
  - Lake
  - Creeks
- Water Quality
  - Lake
  - Creeks
- Lake Water Levels
- Surface Drainage
- Sediment Quality and Loadings
- Ice and Debris

### *Terrestrial Environment*

- Vegetation
- Birds
- Mammals
- Soils and Geology

### *Socio-economic Environment*

- Local Communities
- Land Use
- Infrastructure
- Transportation
- Land Ownership
- Archaeology
  - Land Based
  - Marine
- Cultural heritage
- Recreation
  - Land Based
  - Marine



## EVALUATION OF “ALTERNATIVES TO”

- Well-documented need for ecological and public linkages across the eastern Mississauga waterfront:
  - *Ecological Linkages* - Binational Biodiversity Strategy for Lake Ontario, CVC’s LOISS, Aquatic Habitat Toronto
  - *Public Linkages* - Future Directions, Inspiration Lakeview, City of Mississauga Waterfront Parks Strategy, Marie Curtis Park/Arsenal Lands Master Plans

- There are two “alternatives to” proposed for the LWC Project, which refer to the different ways to meet the Project Goal. These are:
  1. Create linkages without lakefilling (“Do Nothing”)
  2. Create linkages with lakefilling





## EVALUATION OF “ALTERNATIVES TO” (continued)

- The evaluation of “Alternatives To” concludes that creating linkages without lakefilling (“Do Nothing”) will not meet project objectives because:
  - WWTP activities extend to water’s edge; as such, no opportunities to create new aquatic AND terrestrial habitat are available on the existing land base
  - The WWTP is critical public infrastructure so public access across the property is restricted; therefore, there are no opportunities to create public linkages on the existing land base
  
- **Recommendation:**
  - the EA will consider viable alternatives using lakefill to create ecological and public linkages within the Project Study Area.





## EVALUATION OF “ALTERNATIVES TO” (continued)

Project Objective	Criteria	Linkages w/o lake filling	Linkages with lake filling
Naturalization	Potential to create/ enhance/ remove aquatic habitat	Limited potential given hardened shore	Alternative will remove existing low quality habitat and replace it with higher quality habitat
	Potential to create/ enhance/ remove terrestrial habitat	No potential as WWTP abuts water's edge	Alternative may remove existing low quality habitat but has the potential to create an equal or larger area of higher quality habitat
<b>Summary</b>		<b>Low Rank</b>	<b>High Rank</b>
Access	Potential to create/disrupt access to the waterfront	No potential as providing access would compromise WWTP security – Low Rank	Potential to create better and more continuous trail and pedestrian access. However, access to existing waterfront parks may be disrupted temporarily during construction – High Rank
	Potential for new public amenities and recreational opportunities	No potential - Low Rank	Potential for new trail connections, amenities and recreation opportunities on lake filled areas – High Rank
	Potential to disrupt existing recreational opportunities	No potential - High Rank	Construction of the lake fill could disrupt existing recreational opportunities for a short period of time – Moderate Rank
<b>Summary</b>		<b>Low Rank</b>	<b>High Rank</b>
Resource Optimization	Availability of fill material	Fill will be managed by deposition in landfill creating no beneficial use – Low Rank	Lake filling provides for the potential beneficial reuse of fill to create shoreline habitat and opportunities for public access and recreation – High Rank
	Available funding and/ or deferred costs	Cost to haul and dispose of fill in landfill is \$31,000,000 to \$50,000,000 but no benefit will be realized – Low Rank	Depending on the scenario used costs of haulage and disposal can either be used to significantly offset the costs to develop the LWC but a funding gap may remain – High Rank
	Potential effects of fill management	Effects associated with fill management relate to relatively long haul transportation such as vehicle emissions (CO <sub>2</sub> , PM), road wear and tear, noise and dust between generation site and disposal site – Moderate Rank	Lakefilling has the potential to create water quality issues and to destroy habitat if it is not undertaken in a responsible manner. Transportation effects to residents and businesses near the Project Study Area will be limited by short haul distances. – Moderate Rank
<b>Summary</b>		<b>Low Rank</b>	<b>High Rank</b>
Coordination	Consistency with other local and regional planning initiatives	Alternative would not improve linkages between waterfront parks and the trail system in Mississauga. Therefore being inconsistent with other planning initiatives such as Inspiration Lakeview.	Alternative would close a gap in the continuity of waterfront parks and the trail system in Mississauga thereby being consistent with other planning initiatives such as Inspiration Lakeview. However, implementation of master plans for Marie Curtis Park and Arsenal Lands would be delayed
<b>Summary</b>		<b>Low Rank</b>	<b>High Rank</b>
Compatibility	Potential to affect operations of WWTP outfalls and water treatment plant intakes	No potential to affect operations	Lake filling could affect the operations however, lake fill can be planned to avoid physical effects to infrastructure and effects to water quality
<b>Summary</b>		<b>High Rank</b>	<b>High Rank</b>



## SUMMARY OF EVALUATION OF “ALTERNATIVES TO”

- Creating ecological and public linkages with lakefilling is the preferred “Alternative To” and will be carried forward to the development of “Alternative Methods”.
- Evaluation of “Alternatives To” uses a high level assessment of the potential for each alternative to achieve project objectives. The summary below synthesizes the results of the more detailed analysis.

Project Objectives	Linkages w/o Lakefilling	Linkages with Lakefilling
Naturalization	Low Rank	High Rank
Access	Low Rank	High Rank
Resource Optimization	Low Rank	High Rank
Coordination	Low Rank	High Rank
Compatibility	High Rank	High Rank
<b>Summary</b>	<b>Low Rank</b>	<b>High Rank</b>



## RESULTS OF CONSULTATION ACTIVITIES TO DATE

- **First meetings held with Technical Advisory Committee, Community Liaison Committee and the public**
  - *General support for LWC Project*
    - Overall positive support for the Project
    - Public is very committed to Inspiration Lakeview
  - *Accessibility, Recreation and Naturalization*
    - Great desire for more accessibility to the waterfront and the relocation of the waterfront trail to the water's edge
    - Desire for recreation such as bird watching, swimming, community gathering spot
    - Agreement with objectives, particularly naturalization and access
  - *Goals and Objectives*
    - Need to make language of goals and objectives simpler
    - Agreement on approach for meeting Project Goal – i.e., create linkages with lakefill
  - *Other: timing concerns, quality of fill and where it comes from, effects from traffic, maintaining view of water*





## **SUMMARY OF EA CONSULTATION PLAN**

- **Consultation opportunities for the project will be provided through the following venues:**
  - **Project Advisory Committee (EA Project Team, OPG & MNR)**
  - **Technical Advisory Committee (TAC) – meets at least 3 times during EA**
  - **Community Liaison Committee (CLC) – meets at least 3 times during EA**
  - **Public Information Centres (PICs) – 3 during EA**
    - **One of the PICs could be a design charette for development of “alternative methods”**
  - **Project Newsletters, Flyers and Website Updates**
  - **First Nations and Métis Consultation**
  - **Landowner and Local Business Notifications**
  - **Newspaper Advertisements and Articles**



**THANK YOU!**

