

DRAFT - Preliminary List of Comparative Evaluation Criteria and Indicators for Evaluation of Alternative Methods - DRAFT

Objective	Criteria	Indicator(s)
1. Naturalization	Naturalized area	Total naturalized area
	Area of wetland habitat types created or disrupted (designed to respond to ecosystem constraints)	Total area of wetland created or disrupted
		Largest single patch size of wetland created
	Area of terrestrial habitat	Total area of potential terrestrial habitat
		Qualitative assessment of improvement to terrestrial habitat
	Potential for negative and/or beneficial effect on wildlife species or communities (i.e., minimizing disturbance and connecting habitat)	Ratio of perimeter to area of the largest contiguous wetland habitat patch (measure of largest circle within patch)
		Ratio of perimeter to area of the largest contiguous terrestrial / open space patch (measure of largest circle within patch)
		Potential for enhancement of migratory bird habitat (internal linkages as well as links external to the project to both existing and planned habitat)
		Potential to create new, higher quality bank swallow nesting habitat
	Potential for negative and/or beneficial effects on native fish habitat or aquatic communities	Total area of aquatic habitat removed
		Total area of aquatic habitat created
		Ability of alternative to self-compensate with respect to fish habitat
	Potential for lake levels and coastal processes to affect sustainability of vegetation communities and associated fauna	Flexibility in design to allow management of range of coastal processes and lake levels, including those associated with climate change, without adverse impact on naturalized area
	Potential to maintain and improve connections for aquatic species	Qualitative assessment of creek connections to the lake
		Qualitative assessment of the relative ability to attract desirable aquatic species while deterring aquatic invasive species
Ability to accommodate potential changes in extreme precipitation and water flows resulting from climate change	Capacity for future modification to the naturalization component to respond to trends toward substantial increases storm events due to climate change	
Ability to integrate Alternative with other projects to east and west of the Project Study Area	Qualitative assessment of capacity for future modifications to alternative to respond to shoreline changes to the east and west of Project Study Area	
	Integration with potentially naturalized Serson Creek to the west	
Resilience of naturalized area to storm flows from creeks	Relative ability for the naturalized area to withstand changes to water quality and quantity associated with storms	
Resilience of naturalized area to sediment transport and debris loads from contributing creeks	Relative ability for the naturalized area to retain/regain habitat function when faced with sediment and debris loads	
Effects on localized water quality in vicinity of Marie Curtis beach	Changes to water quality (<i>E.coli</i> , parameters of concern) with respect to beach closures	

Objective	Criteria	Indicator(s)	
2. Access	Area of park land created	Total area to be made available for recreational activities and amenities including trails	
	Potential to create safe access to water's edge	Length of water's edge accessible by users	
	Potential for changes to use of waterfront for recreational boating		Compatibility of naturalization with recreational boating activities
		Dimensions (depth, length, and width) of navigable waterway along Project Study Area	Dimensions (depth, length, and width) of navigable waterway along Project Study Area
			Qualitative assessment of effects on recreational boating
	Potential to enhance/degrade pedestrian/cycling trails within and between waterfront areas and the rest of the city		Length of pedestrian / cycling trails
		Extent of new linkages to parks and areas adjacent to waterfront where none currently exist	Extent of new linkages to parks and areas adjacent to waterfront where none currently exist
		Potential to create trail connection on west side of WWTP	Potential to create trail connection on west side of WWTP
			Potential to disrupt users of Waterfront Trail during construction
	Potential to enhance existing views		Potential to enhance views to the water's edge
		Potential to enhance views from the water's edge back to the community	
Potential for displacement of built heritage resources due to construction		Cultural heritage value of built heritage resources and cultural heritage landscapes within lakefill area	
Potential effects from construction on marine- and land-based archaeological resources		Significance of archaeological resources (marine and terrestrial) within footprint of lakefill and associated park area	
Potential for effect from construction on traditional uses of lands by Aboriginal peoples		Extent of traditional uses of lands within Project Study Area	
3. Resource Optimization	Potential to phase implementation of lakefill, naturalization and associated park development to efficiently make use of fill as available	Ease of construction	
		Potential to make use of fill in a continuous way	
	Capital cost	Estimated capital cost	
	Annual operations and maintenance costs	Annual cost of maintenance of naturalized and park areas	
	Sustainability of active and informal park spaces	Qualitative assessment of maintenance requirements of 'park' space	
	Potential for disturbance of contaminated soils	Area of contaminated soils to be managed / remediated for the project	
	Ability to manage contaminated soils and groundwater		Ease of remediation / risk management from on-site contamination
			Ease of remediation / risk management from contamination on adjacent lands
Cost of management of groundwater and soil contamination		Total cost associated with remediation / risk management	
4. Coordination with Other Planning Efforts	Consistency with City of Mississauga Waterfront Parks Strategy (2008)	Consistency of Alternative with Waterfront Parks Strategy	
	Consistency with Inspiration Lakeview	Consistency of Alternative with planning for Inspiration Lakeview	
		Ability to integrate Alternative with potential plans for Lakeview site	

Objective	Criteria	Indicator(s)
	Consistency with LOISS	Consistency of Alternative with priorities identified by LOISS
	Potential for nuisance effects of construction activities on the surrounding community	Effects of construction (noise, dust and traffic) within communities along access routes for trucks carrying fill material
	Implications of construction activities on business operations	Effects of construction (noise, dust and traffic) to businesses along access routes for trucks carrying fill material
	Amenity value created by park and naturalized areas	Qualitative assessment of change to attractiveness of surrounding community and properties
	Employment created from construction activities	Total direct and indirect employment opportunities
	Consistency with Marie Curtis Park and Arsenal Lands Master Plans	Ability to integrate recreational opportunities and trails between the LWC, Arsenal lands and Marie Curtis Park
5. Compatibility with Existing Infrastructure	Potential for changes to existing above ground and underground utilities	Length of above ground and underground utilities to be modified: <ul style="list-style-type: none"> • Water • Wastewater • Power • Pipelines
	Potential for effects to existing WWTP outfalls	Changes in access to outfall infrastructure
		Cost to maintain access to outfall
	Potential for changes to roads as a result of access requirements for park	Extent of road modifications required to access park
	Potential for effects to existing Water Treatment Plant intakes	Change in water quality at intake to Water Treatment Plant
	Cost of infrastructure modification/relocation	Total cost of infrastructure modification/relocation
Changes to site security for G.E. Booth WWTP	Ability to maintain/enhance site security for the G.E. Booth WWTP	