

Table 2-1. Evaluation Criteria for the Natural Environment.

Objective	Criteria	Indicator	Measure/Parameter
Protect and enhance terrestrial and aquatic natural features and linkages	Riparian/aquatic systems and habitat	Change in habitat availability	<ul style="list-style-type: none"> Overall area of available habitat (e.g., square meters or hectares) Number of natural features and linkages for aquatic species movement (e.g., along the shore from shallow water to deeper offshore water)
Protect and enhance terrestrial and aquatic natural features and linkages	Riparian/aquatic systems and habitat	Change in the quality of available habitat	<ul style="list-style-type: none"> Potential to increase or decrease in water quality parameters (e.g., TSS, contaminants) or sensory disturbance (e.g., vibrations) that may enhance or reduce the quality (e.g., sand from volleyball courts, salt from parking lots and access) of available habitat)
Protect and enhance terrestrial and aquatic natural features and linkages	Surface water systems	Change in water quality	<ul style="list-style-type: none"> Potential to increase or decrease in water quality parameters (e.g., TSS and contamination) due to existing conditions or spills during construction Weight of contaminants absorbed (by cattail in floating islands vs. no removal)
Protect and enhance terrestrial and aquatic natural features and linkages	Surface water systems	Change in Lake Ontario Shoreline systems (e.g., sensitive bluffs, dynamic beach)	<ul style="list-style-type: none"> Impacts on shoreline Results/recommendations from Coastal Hazard Assessment Report
Protect and enhance terrestrial and aquatic natural features and linkages	Surface water systems	Stormwater management and infrastructure	<ul style="list-style-type: none"> Ability to establishment appropriate, effective, and sustainable stormwater management practices and infrastructure Potential to mitigate or protect against flood risks from Lake Ontario (e.g., wave uprush)
Protect and enhance terrestrial and aquatic natural features and linkages	Groundwater quality and quantity	Change in hydrological function	<ul style="list-style-type: none"> Disturbance to physical hydraulic properties of soil/land above or below the water table (e.g., grading, backfilling) Permit for temporary construction dewatering
Protect and enhance terrestrial and aquatic natural features and linkages	Groundwater quality and quantity	Change in water quantity	<ul style="list-style-type: none"> Area of pervious surface (to allow the infiltration of water into the soil)
Protect and enhance terrestrial and aquatic natural features and linkages	Groundwater quality and quantity	Change in groundwater quality	<ul style="list-style-type: none"> Potential for increased or decreased in water quality parameters compared to existing conditions
Protect and enhance terrestrial and aquatic natural features and linkages	Terrestrial systems and habitat	Change in the area and connectivity of available habitat	<ul style="list-style-type: none"> Area of habitat created or removed including mature trees, other native and non-native vegetation, wetlands, and structures Connectivity of habitat (e.g., linkages to other parks, migration routes) Number of habitat features impacted (e.g., turtle basking areas, shoreline) Number of species impacted
Protect and enhance terrestrial and aquatic natural features and linkages	Terrestrial systems and habitat	Change in the quality of available habitat	<ul style="list-style-type: none"> Sensory disturbance (e.g., noise, dust, light, vibrations) Increase or decrease of forest structure (canopy, sub-canopy, understory)
Protect and enhance terrestrial and aquatic natural features and linkages	Terrestrial systems and habitat	Change in vegetation communities and species, including vegetation communities of concern	<ul style="list-style-type: none"> Overall area of vegetation (e.g., square meters or hectares) Occurrences of invasive plant species

Evaluation Criteria

Objective	Criteria	Indicator	Measure/Parameter
Protect terrestrial and aquatic species including birds, mammals, fish and insects	Wildlife, including species at risk (SAR)	Change in movement (e.g., migration, access to water)	<ul style="list-style-type: none"> Barriers (e.g., open excavation during construction, buildings) or filters (e.g., fencing) to wildlife movement reducing connectivity of habitat can be existing (e.g., structures already in place) or part of the alternative design (e.g., new infrastructure) Retention or creation of nesting opportunities for species at risk (e.g., barn swallow)
Protect terrestrial and aquatic species including birds, mammals, fish and insects	Wildlife, including SAR	Change in mortality risk	<ul style="list-style-type: none"> Wildlife fatality occurrence(s) Protected species listing
Protect terrestrial and aquatic species including birds, mammals, fish and insects	Aquatic species, including SAR	Change in movement	<ul style="list-style-type: none"> Barriers to aquatic species movement due to temporary or permanent structures or infilling creating habitat fragmentation
Protect terrestrial and aquatic species including birds, mammals, fish and insects	Aquatic species, including SAR	Change in mortality risk	<ul style="list-style-type: none"> Fatality occurrence(s) Spills into water (volume) Construction debris water entering the lake (volume)
Maintain and improve air quality	Air quality	Change in number and diversity of trees and canopy cover	<ul style="list-style-type: none"> Area and type of vegetative cover
Maintain and improve air quality	Air quality	Change in local air or greenhouse gas (GHG) emission levels	<ul style="list-style-type: none"> Ability to use or travel within the site without producing emissions (e.g., walk, run, cycle) Number and type of continuous emissions sources after implementation