



APPENDIX C

Species Lists

A low-angle photograph of a white wind turbine against a clear blue sky. The image is partially covered by a dark blue horizontal band and a large, semi-transparent blue arc on the left side. The text is positioned within the blue band.

APPENDIX C1

Species Lists



Table C1: Plant Species Identified as Potentially Occurring in the General Area of the Project Location

Scientific Name	Common Name	Conservation Status					Information Source
		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³			
PLANTS							
<i>Asplenium scolopendrium</i> var. <i>americanum</i>	Hart's-tongue Fern*	SC	SC	S3	10	5	●
<i>Berberis thunbergii</i>	Japanese Barberry	---	---	SNA	0	4	●
<i>Berberis vulgaris</i>	Common Barberry	---	---	SNA	0	3	●
<i>Botrychium rugulosum</i>	St. Lawrence Grape Fern*	---	---	S2	6	5	●
<i>Butomus umbellatus</i>	Flowering-rush	---	---	SNA	0	-5	●
<i>Cabomba caroliniana</i>	Carolina Fanwort	---	---	SNA			●
<i>Carex schweinitzii</i>	Schweinitz's Sedge*	---	---	S3	9	-5	●
<i>Cirsium arvense</i>	Canada Thistle	---	---	SNA	0	3	●
<i>Euphorbia esula</i>	Hungarian Spurge	---	---	SNA	0	5	●
<i>Heracleum mantegazzianum</i>	Giant Hogweed	---	---	SNA			●
<i>Hydrocharis morsus-ranae</i>	Frog's-bit	---	---	SNA	0	-5	●
<i>Impatiens glandulifera</i>	Pink Touch-me-not	---	---	SNA	0	-3	●
<i>Iris pseudacorus</i>	Yellow Iris	---	---	SNA	0	-5	●
<i>Ligustrum vulgare</i>	Common Privet	---	---	SNA	0	1	●
<i>Lonicera japonica</i>	Japanese Honeysuckle	---	---	SNA	0	3	●
<i>Lysimachia nummularia</i>	Moneywort	---	---	SNA	0	-4	●
<i>Lythrum salicaria</i>	Purple Loosestrife	---	---	SNA	0	-5	●
<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	---	---	SNA	0	-5	●



Scientific Name	Common Name	Conservation Status					Information Source
		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³			
<i>Pistia stratiotes</i>	Water Lettuce			SNA			●
<i>Potamogeton crispus</i>	Curly Pondweed	---	---	SNA	0	-5	●
<i>Rosa multiflora</i>	Multiflora Rose	---	---	SNA	0	3	●
<i>Sedum acre</i>	Mossy Stonecrop	---	---	SNA	0	5	●
<i>Stratiotes aloides</i>	Water Soldiers	---	---	SNA			●
<i>Trapa natans</i>	Water Chestnut	---	---	SNA			●
<i>Vinca minor</i>	Periwinkle	---	---	SNA	0	5	●
MOSS							
<i>Grimmia olneyi</i>	Moss	---	---	S2			●

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see below); ⁴MNR NHIC Database. For all codes, please see Appendix C2.

● denotes occurrence record; --- denotes no information, no status or not applicable

*denotes Species of Conservation Concern



Table C2: Bird Species Identified as Potentially Occurring in the General Area of the Project Location

Scientific Name	Common Name	Conservation Status			Information Source						
		National	Provincial		NHIC ⁴	OBBA ⁵ Square # 17NJ58	OBBA ⁵ Square # 17NJ59	OBBA ⁵ Square # 17NJ66	OBBA ⁵ Square # 17NJ67	OBBA ⁵ Square # 17NJ68	OBBA ⁵ Square # 17NJ69
		SARA ¹	ESA, 2007 ²	SRank ³							
BIRDS											
<i>Empidonax alnorum</i>	Alder Flycatcher	---	---	S5B		•	•	•	•	•	
<i>Botaurus lentiginosus</i>	American Bittern	---	---	S4B		•	•	•	•		•
<i>Corvus brachyrhynchos</i>	American Crow	---	---	S5B		•	•	•	•	•	•
<i>Carduelis tristis</i>	American Goldfinch	---	---	S5B		•	•	•	•	•	•
<i>Falco sparverius</i>	American Kestrel	---	---	S4		•	•	•	•	•	•
<i>Setophaga ruticilla</i>	American Redstart	---	---	S5B		•	•	•	•	•	•
<i>Turdus migratorius</i>	American Robin	---	---	S5B		•	•	•	•	•	•
<i>Scolopax minor</i>	American Woodcock	---	---	S4B		•		•	•	•	•
<i>Icterus galbula</i>	Baltimore Oriole	---	---	S4B		•	•	•	•	•	•
<i>Riparia riparia</i>	Bank Swallow	---	---	S4B		•	•	•	•	•	
<i>Strix varia</i>	Barred Owl	---	---	S5							•
<i>Ceryle alcyon</i>	Belted Kingfisher	---	---	S4B		•	•	•	•	•	•
<i>Mniotilta varia</i>	Black-and-white Warbler	---	---	S5B		•	•	•	•	•	•
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	---	---	S5B		•	•	•			•
<i>Dendroica fusca</i>	Blackburnian Warbler	---	---	S5B						•	
<i>Poecile atricapillus</i>	Black-capped Chickadee	---	---	S5		•	•	•	•	•	•
<i>Dendroica caerulescens</i>	Black-throated Blue Warbler	---	---	S5B						•	•
<i>Dendroica virens</i>	Black-throated Green Warbler	---	---	S5B			•		•	•	•



Scientific Name	Common Name	Conservation Status			Information Source						
		National	Provincial		NHIC ⁴	OBBA ⁵ Square # 17NJ58	OBBA ⁵ Square # 17NJ59	OBBA ⁵ Square # 17NJ66	OBBA ⁵ Square # 17NJ67	OBBA ⁵ Square # 17NJ68	OBBA ⁵ Square # 17NJ69
		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Cyanocitta cristata</i>	Blue Jay	---	---	S5		•	•	•	•	•	•
<i>Vireo solitarius</i>	Blue-headed Vireo	---	---	S5B			•				
<i>Anas discors</i>	Blue-winged Teal	---	---	S4		•		•		•	•
<i>Vermivora pinus</i>	Blue-winged Warbler	---	---	S4B				•			•
<i>Buteo platypterus</i>	Broad-winged Hawk	---	---	S5B, SZN		•				•	
<i>Certhia americana</i>	Brown Creeper	---	---	S5B					•		
<i>Toxostoma rufum</i>	Brown Thrasher	---	---	S4B		•	•	•		•	•
<i>Molothrus ater</i>	Brown-headed Cowbird	---	---	S4B		•	•	•	•	•	•
<i>Branta canadensis</i>	Canada Goose	---	---	S5		•	•	•	•	•	•
<i>Wilsonia canadensis</i>	Canada Warbler*	THR	SC	S4B			•			•	
<i>Bombycilla cedrorum</i>	Cedar Waxwing	---	---	S5B		•	•	•	•	•	•
<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler	---	---	S5B		•	•	•	•	•	
<i>Spizella passerina</i>	Chipping Sparrow	---	---	S5B		•	•	•	•	•	•
<i>Spizella pallida</i>	Clay-coloured Sparrow	---	---	S4B		•					
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow	---	---	S4B		•	•	•	•		•
<i>Quiscalus quiscula</i>	Common Grackle	---	---	S5B		•	•	•	•	•	•
<i>Corvus corax</i>	Common Raven	---	---	S5		•	•				
<i>Geothlypis trichas</i>	Common Yellowthroat	---	---	S5B		•	•	•	•	•	•
<i>Accipiter cooperii</i>	Cooper's Hawk	---	---	S4B, SZN			•				
<i>Spiza americana</i>	Dickcissel	---	---	SNA			•				
<i>Picoides pubescens</i>	Downy Woodpecker	---	---	S5		•	•	•	•	•	•
<i>Sialia sialis</i>	Eastern Bluebird	---	---	S5B			•		•	•	•



Scientific Name	Common Name	Conservation Status			Information Source						
		National	Provincial		NHIC ⁴	OBBA ⁵ Square # 17NJ58	OBBA ⁵ Square # 17NJ59	OBBA ⁵ Square # 17NJ66	OBBA ⁵ Square # 17NJ67	OBBA ⁵ Square # 17NJ68	OBBA ⁵ Square # 17NJ69
		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Tyrannus tyrannus</i>	Eastern Kingbird	---	---	S4B		•	•	•	•	•	•
<i>Sayornis phoebe</i>	Eastern Phoebe	---	---	S5B		•	•	•	•	•	•
<i>Otus asio</i>	Eastern Screech-owl	---	---	S4		•	•	•	•	•	•
<i>Pipilo erythrophthalmus</i>	Eastern Towhee	---	---	S4B				•	•		•
<i>Contopus virens</i>	Eastern Wood-pewee	---	---	S4B		•	•	•	•	•	•
<i>Sturnus vulgaris</i>	European Starling	---	---	SNA		•	•	•	•	•	•
<i>Spizella pusilla</i>	Field Sparrow	---	---	S4B				•			•
<i>Regulus satrapa</i>	Golden-crowned Kinglet	---	---	S5B		•	•		•	•	
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	---	---	S4B, SZN		•		•		•	•
<i>Dumetella carolinensis</i>	Gray Catbird	---	---	S4B		•	•	•	•	•	•
<i>Ardea herodias</i>	Great Blue Heron	---	---	S4	•	•	•	•		•	•
<i>Myiarchus crinitus</i>	Great Crested Flycatcher	---	---	S4B		•	•	•	•	•	•
<i>Bubo virginianus</i>	Great Horned Owl	---	---	S4							•
<i>Butorides virescens</i>	Green Heron	---	---	S4B		•		•		•	•
<i>Picoides villosus</i>	Hairy Woodpecker	---	---	S5		•	•	•	•	•	•
<i>Catharus guttatus</i>	Hermit Thrush	---	---	S5B						•	
<i>Lophodytes cucullatus</i>	Hooded Merganser	---	---	S5B, S5N							•
<i>Eremophila alpestris</i>	Horned Lark	---	---	S5B, SZN		•	•	•	•	•	•
<i>Carpodacus mexicanus</i>	House Finch	---	---	SNA		•		•	•	•	
<i>Passer domesticus</i>	House Sparrow	---	---	SNA		•	•	•	•	•	•
<i>Troglodytes aedon</i>	House Wren	---	---	S5B		•	•	•	•	•	•
<i>Passerina cyanea</i>	Indigo Bunting	---	---	S4B		•	•	•	•	•	•



Scientific Name	Common Name	Conservation Status			Information Source						
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		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Charadrius vociferus</i>	Killdeer	---	---	S5B, S5N		•	•	•	•	•	•
<i>Empidonax minimus</i>	Least Flycatcher	---	---	S4B		•	•	•	•	•	•
<i>Seiurus motacilla</i>	Louisiana Waterthrush*	SC	SC	S3B							•
<i>Dendroica magnolia</i>	Magnolia Warbler	---	---	S5B			•		•		
<i>Anas platyrhynchos</i>	Mallard	---	---	S5		•	•	•	•	•	
<i>Cistothorus palustris</i>	Marsh Wren	---	---	S4B		•		•			
<i>Zenaida macroura</i>	Mourning Dove	---	---	S5		•	•	•	•	•	•
<i>Oporornis philadelphia</i>	Mourning Warbler	---	---	S4B		•	•	•	•	•	•
<i>Vermivora ruficapilla</i>	Nashville Warbler	---	---	S5B		•	•	•	•	•	•
<i>Cardinalis cardinalis</i>	Northern Cardinal	---	---	S5		•		•	•	•	•
<i>Colaptes auratus</i>	Northern Flicker	---	---	S4B		•	•	•	•	•	•
<i>Circus cyaneus</i>	Northern Harrier	---	---	S4B		•	•	•	•	•	•
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow	---	---	S4B		•		•	•		
<i>Seiurus noveboracensis</i>	Northern Waterthrush	---	---	S5B			•			•	•
<i>Seiurus aurocapillus</i>	Ovenbird	---	---	S4B		•	•	•	•	•	•
<i>Podilymbus podiceps</i>	Pied-billed Grebe	---	---	S4B, S4N		•					
<i>Dryocopus pileatus</i>	Pileated Woodpecker	---	---	S5		•	•	•		•	•
<i>Dendroica pinus</i>	Pine Warbler	---	---	S5B			•			•	•
<i>Carpodacus purpureus</i>	Purple Finch	---	---	S4B			•		•		•
<i>Melanerpes carolinus</i>	Red-bellied Woodpecker	---	---	S4			•				
<i>Sitta canadensis</i>	Red-breasted Nuthatch	---	---	S5			•		•		•



Scientific Name	Common Name	Conservation Status			Information Source						
		National	Provincial		NHIC ⁴	OBBA ⁵ Square # 17NJ58	OBBA ⁵ Square # 17NJ59	OBBA ⁵ Square # 17NJ66	OBBA ⁵ Square # 17NJ67	OBBA ⁵ Square # 17NJ68	OBBA ⁵ Square # 17NJ69
		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Vireo olivaceus</i>	Red-eyed Vireo	---	---	S5B		•	•	•	•	•	•
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker*	THR	SC	S4B		•					
<i>Buteo jamaicensis</i>	Red-tailed Hawk	---	---	S5		•	•	•	•	•	•
<i>Agelaius phoeniceus</i>	Red-winged Blackbird	---	---	S4		•	•	•	•	•	•
<i>Phasianus colchicus</i>	Ring-necked Pheasant	---	---	SNA					•		
<i>Columba livia</i>	Rock Dove	---	---	SNA		•	•	•	•	•	•
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak	---	---	S4B		•	•	•	•	•	•
<i>Archilochus colubris</i>	Ruby-throated Hummingbird	---	---	S5B		•	•	•		•	•
<i>Oxyura jamaicensis</i>	Ruddy Duck	---	---	S4B, S4N						•	
<i>Bonasa umbellus</i>	Ruffed Grouse	---	---	S4				•	•	•	•
	Sandhill Crane							•			
<i>Passerculus sandwichensis</i>	Savannah Sparrow	---	---	S4B		•	•	•	•	•	•
<i>Piranga olivacea</i>	Scarlet Tanager	---	---	S4B			•			•	•
<i>Cistothorus platensis</i>	Sedge Wren	---	---	S4B		•					
<i>Accipiter striatus</i>	Sharp-shinned Hawk	---	---	S5B, SZN		•	•				
<i>Asio flammeus</i>	Short-eared Owl*	SC	SC	S2N, S4B					•		
<i>Melospiza melodia</i>	Song Sparrow	---	---	S5B		•	•	•	•	•	•
<i>Porzana carolina</i>	Sora	---	---	S4B, SZN			•	•	•	•	
<i>Actitis macularia</i>	Spotted Sandpiper	---	---	S5		•	•	•		•	•
<i>Melospiza georgiana</i>	Swamp Sparrow	---	---	S5B		•	•	•	•	•	•



Scientific Name	Common Name	Conservation Status			Information Source						
		National	Provincial		NHIC ⁴	OBBA ⁵ Square # 17NJ58	OBBA ⁵ Square # 17NJ59	OBBA ⁵ Square # 17NJ66	OBBA ⁵ Square # 17NJ67	OBBA ⁵ Square # 17NJ68	OBBA ⁵ Square # 17NJ69
		SARA ¹	ESA, 2007 ²	SRank ³							
<i>Tachycineta bicolor</i>	Tree Swallow	---	---	S4B		●	●	●	●	●	●
<i>Cathartes aura</i>	Turkey Vulture	---	---	S5B		●	●	●	●	●	●
<i>Bartramia longicauda</i>	Upland Sandpiper	---	---	S4B		●		●			
<i>Catharus fuscenscens</i>	Veery	---	---	S4B		●	●	●	●	●	●
<i>Pooecetes gramineus</i>	Vesper Sparrow	---	---	S4B		●	●	●			
<i>Rallus limicola</i>	Virginia Rail	---	---	S5B		●		●	●		●
<i>Vireo gilvus</i>	Warbling Vireo	---	---	S5B		●	●	●	●	●	●
<i>Sitta carolinensis</i>	White-breasted Nuthatch	---	---	S5		●		●	●	●	●
<i>Zonotrichia albicollis</i>	White-throated Sparrow	---	---	S5B		●	●	●	●	●	●
<i>Meleagris gallopavo</i>	Wild Turkey	---	---	S5		●	●			●	●
<i>Empidonax traillii</i>	Willow Flycatcher	---	---	S5B, SZN		●		●		●	●
<i>Gallinago gallinago</i>	Wilson's Snipe	---	---	S5B, SZN		●	●	●	●	●	●
<i>Troglodytes troglodytes</i>	Winter Wren	---	---	S5B		●	●	●	●	●	
<i>Aix sponsa</i>	Wood Duck	---	---	S5				●	●	●	●
<i>Hylocichla mustelina</i>	Wood Thrush	---	---	S4B		●	●		●	●	●
<i>Dendroica petechia</i>	Yellow Warbler	---	---	S5B		●	●	●		●	●
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	---	---	S5B			●	●		●	●
<i>Dendroica coronata</i>	Yellow-rumped Warbler	---	---	S5B		●	●	●	●	●	●
<i>Vireo flavifrons</i>	Yellow-throated Vireo	---	---	S4B			●				

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see below); ⁴MNR NHIC Database Element Occurrence and Natural Area Reports; ⁵Ontario Breeding Bird Atlas; ● denotes occurrence record and/or project location includes species range; --- denotes no information, no status or not applicable; *denotes Species of Conservation Concern. For all codes, please see **Appendix C2**.



Table C3: Wildlife Species Identified as Potentially Occurring in the General Area of the Project Location

Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
MAMMALS									
<i>Sorex cinereus</i>	Masked Shrew	---	---	S5		●			
<i>Sorex fumeus</i>	Smoky Shrew	---	---	S5		●			
<i>Sorex hoyi</i>	Pygmy Shrew	---	---	S4		●			
<i>Blarina brevicauda</i>	Northern Short-tailed Shrew	---	---	S5		●			
<i>Parascalops breweri</i>	Hairy-tailed Mole	---	---	S4		●			
<i>Condylura cristata</i>	Star-nosed Mole	---	---	S5		●			
<i>Myotis leibii</i>	Eastern Small-footed Bat*	---	---	S2S3		●			
<i>Myotis lucifugus</i>	Little Brown Bat*	END	---	S4		●			
<i>Myotis septentrionalis</i>	Northern Long-eared Bat*	END	---	S3		●			
<i>Lasionycteris noctivagans</i>	Silver Haired Bat	---	---	S4		●			
<i>Pipistrellus subflavus</i>	Eastern Pipistrelle*	END	---	S3?		●			
<i>Eptesicus fuscus</i>	Big Brown Bat	---	---	S5		●			
<i>Lasiurus cinereus</i>	Hoary Bat	---	---	S4		●			
<i>Sylvilagus floridanus</i>	Eastern Cottontail	---	---	S5		●			
<i>Lepus americanus</i>	Snowshoe Hare	---	---	S5		●			
<i>Tamias striatus</i>	Eastern Chipmunk	---	---	S5		●			
<i>Marmota monax</i>	Woodchuck	---	---	S5		●			
<i>Sciurus carolinensis</i>	Gray Squirrel	---	---	S5		●			
<i>Tamiasciurus hudsonicus</i>	Red Squirrel	---	---	S5		●			



Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
<i>Glaucomys volans</i>	Southern Flying Squirrel	---	---	S4		●			
<i>Castor canadensis</i>	Beaver	---	---	S5	●	●			
<i>Peromyscus leucopus</i>	White-footed Mouse	---	---	S5		●			
<i>Peromyscus maniculatus</i>	Deer Mouse	---	---	S5		●			
<i>Clethrionomys gapperi</i>	Southern Red-backed Vole	---	---	S5		●			
<i>Microtus pennsylvanicus</i>	Meadow Vole	---	---	S5		●			
<i>Ondatra zibethicus</i>	Muskrat	---	---	S5	●	●			
<i>Zapus hudsonius</i>	Meadow Jumping Mouse	---	---	S5		●			
<i>Napaeozapus insignis</i>	Woodland Jumping Mouse	---	---	S5		●			
<i>Erethizon dorsatum</i>	Porcupine	---	---	S5		●			
<i>Mephitis mephitis</i>	Striped Skunk	---	---	S5		●			
<i>Mustela vison</i>	Mink	---	---	S5	●	●			
<i>Mustela erminea</i>	Ermine	---	---	S5		●			
<i>Mustela frenata</i>	Long-tailed Weasel	---	---	S4		●			
<i>Mustela nivalis</i>	Least Weasel	---	---	SU		●			
<i>Lontra canadensis</i>	River Otter	---	---	S5		●			
<i>Lynx rufus</i>	Bobcat	---	---	S4		●			
<i>Canis latrans</i>	Coyote	---	---	S5	●	●			
<i>Vulpes vulpes</i>	Red Fox	---	---	S5	●	●			
<i>Ursus americanus</i>	Black Bear	---	---	S5		●			
<i>Procyon lotor</i>	Raccoon	---	---	S5	●	●			



Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
<i>Odocoileus virginianus</i>	White-tailed Deer	---	---	S5		●			
HERPETOZOA									
<i>Necturus maculosus</i>	Common Mudpuppy	---	---	S4				●	
<i>Notophthalmus viridescens viridescens</i>	Red-spotted Newt	---	---	S5			●	●	
<i>Ambystoma laterale</i>	Blue Spotted Salamander	---	---	S4				●	
<i>Plethodon cinereus</i>	Northern (Eastern) Redback Salamander	---	---	S5			●	●	
<i>Ambystoma maculatum</i>	Spotted Salamander	---	---	S4			●	●	
<i>Hemidactylium scutatum</i>	Four-toed salamander	---	---	S4				●	
<i>Bufo americanus</i>	American Toad	---	---	S5			●	●	
<i>Pseudacris crucifer</i>	Spring Peeper	---	---	S5			●	●	
<i>Pseudacris triseriata</i>	Western Chorus Frog* (Great Lakes-St. Lawrence Population)	THR	---	S3			●	●	
<i>Hyla versicolor</i>	Gray Treefrog	---	---	S5			●	●	
<i>Rana sylvatica</i>	Wood Frog	---	---	S5			●	●	
<i>Rana pipiens</i>	Northern Leopard Frog	---	---	S5			●	●	
<i>Rana palustris</i>	Pickerel Frog	---	---	S4			●	●	
<i>Rana clamitans</i>	Green Frog	---	---	S5			●	●	
<i>Rana catesbeiana</i>	Bullfrog	---	---	S4					
<i>Chelydra serpentina</i>	Common Snapping Turtle*	SC	SC	S4			●	●	



Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
<i>Chrysemys picta marginata</i>	Midland Painted Turtle	---	---	S5			●	●	
<i>Rana septentrionalis</i>	Mink Frog	---	---	S5			●		
<i>Eumeces fasciatus</i>	Five-Lined Skink* (Great Lakes St. Lawrence/Southern Shield Population)	SC	SC	S3				●	
<i>Thamnophis sirtalis sirtalis</i>	Eastern Garter Snake	---	---	S5			●	●	
<i>Nerodia sipedon sipedon</i>	Northern Water Snake	---	---	S5				●	
<i>Storeria occipitomaculata occipitomaculata</i>	Northern Redbelly Snake	---	---	S5			●	●	
<i>Storeria dekayi</i>	Brown Snake	---	---	S5			●	●	
<i>Opheodrys vernalis</i>	Smooth Green snake	---	---	S4			●	●	
<i>Diadophis punctatus edwardsi</i>	Northern Ringneck Snake	---	---	S4			●	●	
<i>Lampropeltis triangulum</i>	Eastern Milksnake*	SC	SC	S3			●	●	
ODONATA									
<i>Aeshna canadensis</i>	Canada Darner	---	---	S5					●
<i>Aeshna eremita</i>	Lake Darner	---	---	S5					●
<i>Aeshna umbrosa</i>	Shadow Darner	---	---	S5					●
<i>Anax junius</i>	Common Green Darner	---	---	S5					●
<i>Calopteryx aequalis</i>	River Jewelwing	---	---	S5					●
<i>Calopteryx maculata</i>	Ebony Jewelwing	---	---	S5					●
<i>Amphiagrion saucium</i>	Eastern Red Damselfly	---	---	S4					●



Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
<i>Argia fumipennis violacea</i>	Violet Dancer	---	---	S5					●
<i>Argia moesta</i>	Powdered Dancer	---	---	S5					●
<i>Enallagma annexum</i>	Northern Bluet	---	---	S4					●
<i>Enallagma boreale</i>	Boreal Bluet	---	---	S5					●
<i>Enallagma carunculatum</i>	Tule Bluet	---	---	S5					●
<i>Enallagma civile</i>	Familiar Bluet	---	---	S5					●
<i>Enallagma exsulans</i>	Stream Bluet	---	---	S5					●
<i>Enallagma hageni</i>	Hagen's Bluet	---	---	S5					●
<i>Ischnura posita</i>	Fragile Forktail	---	---	S4					●
<i>Ischnura verticalis</i>	Eastern Forktail	---	---	S5					●
<i>Nehalennia irene</i>	Sedge Sprite	---	---	S5					●
<i>Cordulegaster maculata</i>	Twin-spotted Spiketail	---	---	S4					●
<i>Cordulia shurtleffii</i>	American Emerald	---	---	S5					●
<i>Epiheca canis</i>	Beaverpond Baskettail	---	---	S5					●
<i>Somatochlora williamsoni</i>	Williamson's Emerald	---	---	S4					●
<i>Ophiogomphus carolus</i>	Riffle Snaketail*	---	---	S2S3	●				●
<i>Lestes dryas</i>	Emerald Spreadwing	---	---	S5					●
<i>Leucorrhinia proxima</i>	Red-waisted Whiteface	---	---	S5					●
<i>Libellula pulchella</i>	Twelve-spotted Skimmer	---	---	S5					●
<i>Sympetrum costiferum</i>	Saffron-bordered Meadowhawk	---	---	S4					●
<i>Sympetrum obtrusum</i>	White-faced Meadowhawk	---	---	S5					●



Scientific Name	Common Name	Conservation Status			Information Source				
		National	Provincial		NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³					
<i>Sympetrum vicinum</i>	Yellow-legged Meadowhawk	---	---	S5					●

¹Species at Risk Act; ²Endangered Species Act; ³SRank Code (see Appendix B2); ⁴MNR NHIC Database Element Occurrence and Natural Area Reports; ⁵Patterson *et al* (2007) Digital Distribution Maps of the Mammals of the Western Hemisphere, version 3.0. NatureServe, Arlington, Virginia, USA; ⁶Oldham and Weller(2000) Ontario Herpetofaunal Atlas. MNR NHIC; ⁷NRCan Core Mapping 2010; ⁸Ontario Odonata Atlas, MNR NHIC. For all codes, please see **Appendix C2**;

● denotes occurrence record and/or project location includes species range; --- denotes no information, no status or not applicable

* denotes a species of conservation concern



APPENDIX C2

Conservation Status Codes

Overview of Codes for the Conservation Status of Species

Federal Conservation Status

Federal Status: Status assigned by the Committee on the Status of Endangered Wildlife in Canada. (COSEWIC, 2007) and listed under the *Species at Risk Act*

- EXT Extinct. A wildlife species that no longer exists.
- EXP Extirpated. A wildlife species no longer existing in the wild in Canada, but occurring elsewhere.
- END Endangered. A wildlife species facing imminent extirpation or extinction.
- THR Threatened. A wildlife species likely to become endangered if limiting factors are not reversed.
- SC Special Concern. A wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.
- DD Data Deficient - A wildlife species for which there is inadequate information to make a direct, or indirect, assessment of its risk of extinction.
- NAR Not At Risk. A wildlife species that has been evaluated and found to be not at risk of extinction given the current circumstances.

Provincial Conservation Status

Provincial Status: Status assigned by the Ontario Ministry of Natural Resources (OMNR, 2006) under the *Endangered Species Act, 2007*

- EXT Extinct. A species that no longer exists anywhere.
- EXP Extirpated. A species that no longer exists in the wild in Ontario but still occurs elsewhere.
- END Endangered. A species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's ESA.
- THR Threatened. A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed.
- SC Special Concern. A species with characteristics that make it sensitive to human activities or natural events.
- DD Data Deficient. A species for which there is insufficient information for a provincial status recommendation.
- NAR Not At Risk. A species that is currently not listed as risk.

Provincial (S) Rank

Provincial (or Subnational) ranks are used by the Natural Heritage Information Centre (2007) to set protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation needs can be ascertained. The NHIC

evaluates provincial ranks on a continual basis and produces updated lists at least annually.

- S1 Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation.
- S2 Very rare in Ontario; usually between 5 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation.
- S3 Rare to uncommon in Ontario; usually between 20 & 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances. Most species with an S3 rank are assigned to the watch list, unless they have a relatively high global rank.
- S4 Common and apparently secure in Ontario; usually with more than 100 occurrences in the province.
- S5 Very common and demonstrably secure in Ontario.
- SH Historically known from Ontario, but not verified recently (typically not recorded in the province in the last 20 years); however suitable habitat is thought to be still present in the province and there is reasonable expectation that the species may be rediscovered.
- SR Reported for Ontario, but without persuasive documentation which would provide a basis for either accepting or rejecting the report.
- SRF Reported falsely from Ontario.
- SX Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites.
- SE Exotic; not believed to be a native component of Ontario's flora.
- S? Not Ranked Yet, or if following a ranking, Rank Uncertain (e.g. S3?). S? Species have not had a rank assigned.
- SU Unrankable, often because of low search effort or cryptic nature of the species, there is insufficient information available to assign a more accurate rank; more data is needed.

Coefficient of Conservatism (CC) Definition (Plants)

Each native taxon was assigned a rank of 0 to 10 ("coefficient of conservatism") based on its degree of fidelity to a range of synecological parameters. Plants found in a wide variety of plant communities, including disturbed sites, were assigned ranks of 0 to 3. Taxa that typically are associated with a specific plant community, but tolerate moderate disturbance, were assigned ranks of 4 to 6. Rankings of 7 to 8 were applied to those taxa associated with a plant community in an advanced successional stage that has undergone minor disturbance. Those plants with high degrees of fidelity to a narrow range of synecological parameters were assigned a value of 9 to 10

Wetness Index (CW) (Plants)

The wetness index gives an indication of where plant species are typically found. A wetness value (coefficient of wetness) between -5 and 5. A value of -5 was assigned to

Obligate Wetland (OBL) species and a value of 5 to Obligate Upland species (UPL), with intermediate values assigned to the remaining categories. The wetland categories and their corresponding values are as follows:

These categories are defined as follows:

OBL	-5	OBL Wetland	Obligate Wetland	Occurs almost always in wetlands under natural conditions (estimated > 99% probability).
FACW+	-4	FACW	Facultative Wetland	Usually occurs in wetlands, but occasionally found in non-wetlands (estimated 67-99% probability).
FACW	-3			
FACW-	-2			
FAC +	-1	FAC	Facultative	Equally likely to occur in wetlands or non-wetlands (estimated 34-66% probability).
FAC 0				
FAC-	1			
FACU+	2	FACU	Facultative Upland	Occasionally occurs in wetlands, but usually occurs in non-wetlands (estimated 1-33 % probability).
FACU	3			
FACU-	4			
UPL	5	UPL	Obligate Upland	Occurs almost never in wetlands under natural conditions (estimated <1 % probability).