



APPENDIX D

Species

A low-angle photograph of a white wind turbine against a clear blue sky. The blades are positioned in a Y-shape, with the central hub visible. A dark blue curved graphic element is on the left side of the page.

APPENDIX D1

Species Lists



Table D1: Plant Species Identified as Occurring or 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	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
PLANTS								
<i>Abies balsamea</i>	Balsam Fir	---	---	S5	5	-3	●	
<i>Acer negundo</i>	Manitoba Maple	---	---	S5	0	-2	●	
<i>Acer rubrum</i>	Red Maple	---	---	S5	4	0	●	
<i>Acer saccharinum</i>	Silver Maple	---	---	S5	5	-3	●	
<i>Acer saccharum ssp. saccharum</i>	Sugar Maple	---	---	S5	4	3	●	
<i>Acer spicatum</i>	Mountain Maple	---	---	S5	6	3	●	
<i>Acer X freemanii</i>	Freeman's Maple	---	---	S5	---	---	●	
<i>Achillea millefolium ssp. millefolium</i>	Common Yarrow	---	---	SE	0	3	●	
<i>Actaea pachypoda</i>	White Baneberry	---	---	S5	6	5	●	
<i>Actaea rubra</i>	Red Baneberry	---	---	S5	5	5	●	
<i>Adiantum pedatum</i>	Northern Maidenhair Fern	---	---	S5	7	1	●	
<i>Agrimonia gryposepala</i>	Tall Agrimony	---	---	S5	2	2	●	
<i>Agrostis gigantea</i>	Redtop Grass	---	---	SE5	0	0	●	
<i>Ajuga reptans</i>	Common Bugle	---	---	SE2	0	5	●	
<i>Alisma plantago-aquatica</i>	Common Water-plantain	---	---	S5	3	-5	●	
<i>Alliaria petiolata</i>	Garlic Mustard	---	---	SE5	0	0	●	
<i>Allium tricoccum</i>	Wild Leek	---	---	S5	7	2	●	



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		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Amelanchier sp</i>	Serviceberry Species	---	---	---	---	---	●	
<i>Amelanchier stolonifera</i>	Low Serviceberry	---	---	S5?	7	3	●	
<i>Anemone acutiloba</i>	Sharp-lobed Hepatica	---	---	S5	6	5	●	
<i>Anemone canadensis</i>	Canada Anemone	---	---	S5	3	-3	●	
<i>Anemone quinquefolia</i>	Wood Anemone	---	---	S5	7	0	●	
<i>Apocynum androsaemifolium ssp. androsaemifolium</i>	Spreading Dogbane	---	---	S5	3	5	●	
<i>Apocynum sp</i>	Dogbane Species	---	---	---	---	---	●	
<i>Aquilegia canadensis</i>	Wild Columbine	---	---	S5	5	1	●	
<i>Aquilegia vulgaris</i>	Garden Columbine	---	---	SE3	0	3	●	
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	---	---	S5	4	3	●	
<i>Arctium minus ssp. minus</i>	Common Burdock	---	---	SE5	0	5	●	
<i>Arisaema triphyllum ssp. triphyllum</i>	Jack-in-the-pulpit	---	---	S5	5	-2	●	
<i>Aronia melanocarpa</i>	Black Chokeberry	---	---	S5	7	-3	●	
<i>Asarum canadense</i>	Wild Ginger	---	---	S5	6	5	●	
<i>Asclepias incarnata ssp. incarnata</i>	Swamp Milkweed	---	---	S5	6	-5	●	
<i>Asclepias syriaca</i>	Common Milkweed	---	---	S5	0	5	●	
<i>Asplenium scolopendrium var. americanum</i>	Hart's-tongue Fern*	SC	SC	S3	10	5		●



Scientific Name	Common Name	Conservation Status					Information Source	
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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Aster lanceolatus ssp. lanceolatus</i>	Panicled Aster	---	---	S5	3	-3	•	
<i>Aster puniceus var. puniceus</i>	Purple-stem Aster	---	---	S5	6	-5	•	
<i>Athyrium filix-femina var. angustum</i>	Northern Lady Fern	---	---	S5	4	0	•	
<i>Barbarea vulgaris</i>	Common Wintercress	---	---	SE5	0	0	•	
<i>Bellis perennis</i>	English Daisy	---	---	SE5	0	5	•	
<i>Berberis thunbergii</i>	Japanese Barberry	---	---	SNA	0	4		•
<i>Berberis vulgaris</i>	Common Barberry	---	---	SNA	0	3		•
<i>Betula alleghaniensis</i>	Yellow Birch	---	---	S5	6	0	•	
<i>Betula papyrifera</i>	White Birch	---	---	S5	2	2	•	
<i>Betula populifolia</i>	Gray Birch	---	---	S5	5	0	•	
<i>Bidens sp</i>	Beggar-ticks Species	---	---	---	---	---	•	
<i>Boehmeria cylindrica</i>	False Nettle	---	---	S5	4	-5	•	
<i>Botrychium rugulosum</i>	St. Lawrence Grape Fern*	---	---	S2	6	5		•
<i>Bromus inermis ssp. inermis</i>	Smooth Brome	---	---	SE5	0	5	•	
<i>Butomus umbellatus</i>	Flowering-rush	---	---	SNA	0	-5		•
<i>Cabomba caroliniana</i>	Carolina Fanwort	---	---	SNA				•
<i>Calamagrostis canadensis</i>	Canada Blue-joint	---	---	S5	4	-5	•	
<i>Calamagrostis sp</i>	Reed Grass Species	---	---	---	---	---	•	



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		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Calla palustris</i>	Water Arum	---	---	S5	8	-5	●	
<i>Callitriche hermaphroditica</i>	Autumn Water Starwort	---	---	S5	10	-5	●	
<i>Caltha palustris</i>	Marsh Marigold	---	---	S5	5	-5	●	
<i>Cardamine concatenata</i>	Cut-leaved Toothwort	---	---	S5	6	3	●	
<i>Cardamine diphylla</i>	Broad-leaved Toothwort	---	---	S5	7	5	●	
<i>Cardamine pensylvanica</i>	Pennsylvania Bitter Cress	---	---	S5	6	-4	●	
<i>Carex aquatilis</i>	Water Sedge	---	---	S5	7	-5	●	
<i>Carex arctata</i>	Drooping Wood Sedge	---	---	S5	5	5	●	
<i>Carex aurea</i>	Golden-fruited Sedge	---	---	S5	4	-4	●	
<i>Carex bebbii</i>	Bebb's Sedge	---	---	S5	3	-5	●	
<i>Carex blanda</i>	Common Wood Sedge	---	---	S5	3	0	●	
<i>Carex bromoides</i>	Bromelike Sedge	---	---	S5	7	-4	●	
<i>Carex canescens</i>	Silvery Sedge	---	---	S5	7	-5	●	
<i>Carex castanea</i>	Chestnut-scaled Sedge	---	---	S5	7	-4	●	
<i>Carex cephaloidea</i>	Rough-clustered Sedge	---	---	S5	6	2	●	
<i>Carex comosa</i>	Bristly Sedge	---	---	S5	5	-5	●	
<i>Carex crinita</i>	Fringed Sedge	---	---	S5	6	-4	●	
<i>Carex deweyana</i>	Dewey's Sedge	---	---	S5	6	4	●	
<i>Carex disperma</i>	Two-seeded Sedge	---	---	S5	8	-5	●	
<i>Carex echinata</i>	Large-fruited Star Sedge	---	---	S5	7	-5	●	
<i>Carex flava</i>	Yellow Sedge	---	---	S5	5	-5	●	
<i>Carex gracillima</i>	Graceful Sedge	---	---	S5	4	3	●	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Carex granularis</i>	Meadow Sedge	---	---	S5	3	-4	●	
<i>Carex hirtifolia</i>	Hairy Wood Sedge	---	---	S5	5	5	●	
<i>Carex intumescens</i>	Bladder Sedge	---	---	S5	6	-4	●	
<i>Carex lacustris</i>	Lakebank Sedge	---	---	S5	5	-5	●	
<i>Carex lasiocarpa</i>	Narrow-leaved Woolly Sedge	---	---	S5	8	-5	●	
<i>Carex leptalea</i>	Bristle-stalked Sedge	---	---	S5	8	-5	●	
<i>Carex lupulina</i>	Common Hop Sedge	---	---	S5	6	-5	●	
<i>Carex magellanica</i> ssp. <i>irrigua</i>	Stunted Sedge	---	---	S5	10	-5	●	
<i>Carex pedunculata</i>	Long-stalked Sedge	---	---	S5	5	5	●	
<i>Carex pellita</i>	Broad-leaved Woolly Sedge	---	---	S5	4	-5	●	
<i>Carex pensylvanica</i>	Pennsylvania Sedge	---	---	S5	5	5	●	
<i>Carex plantaginea</i>	Plantain-leaved Sedge	---	---	S5	7	5	●	
<i>Carex platyphylla</i>	Broad-leaved Wood Sedge	---	---	S5	7	5	●	
<i>Carex radiata</i>	Radiate Sedge	---	---	S5	4	5	●	
<i>Carex retrorsa</i>	Retorse Sedge	---	---	S5	5	-5	●	
<i>Carex rosea</i>	Stellate Sedge	---	---	S5	5	5	●	
<i>Carex schweinitzii</i>	Schweinitz's Sedge*	---	---	S3	9	-5		●
<i>Carex scoparia</i>	Pointed Broom Sedge	---	---	S5	5	-3	●	
<i>Carex</i> sp	Sedge Species	---	---	---	---	---	●	
<i>Carex sprengelii</i>	Long-beaked Sedge	---	---	S5	6	0	●	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Carex stipata</i>	Awl-fruited Sedge	---	---	S5	3	-5	●	
<i>Carex stricta</i>	Tussock Sedge	---	---	S5	4	-5	●	
<i>Carex tenera</i>	Slender Straw Sedge	---	---	S5	4	-1	●	
<i>Carex trisperma</i>	Three-seeded Sedge	---	---	S5	9	-5	●	
<i>Carex tuckermanii</i>	Tuckerman's Sedge	---	---	S4	7	-5	●	
<i>Carex utriculata</i>	Beaked Sedge	---	---	S5	7	-5	●	
<i>Carex vulpinoidea</i>	Fox Sedge	---	---	S5	3	-5	●	
<i>Carpinus caroliniana</i>	Blue Beech	---	---	S5	6	0	●	
<i>Caulophyllum giganteum</i>	Purple-flowered Blue Cohosh	---	---	S5	6	5	●	
<i>Caulophyllum Sp.</i>	Cohosh Species	---	---	---	---	---	●	
<i>Caulophyllum thalictroides</i>	Blue Cohosh	---	---	S5	6	5	●	
<i>Cerastium arvense ssp. strictum</i>	Field Chickweed	---	---	S4	8	4	●	
<i>Cerastium fontanum</i>	Common Mouse-ear Chickweed	---	---	SE5	0	3	●	
<i>Ceratophyllum demersum</i>	Common Coontail	---	---	S5	4	-5	●	
<i>Chenopodium glaucum ssp. glaucum</i>	Oak-leaved Goosefoot	---	---	SE5	0	-3	●	
<i>Chrysanthemum leucanthemum</i>	Ox-eye Daisy	---	---	SE5	0	5	●	
<i>Cicuta bulbifera</i>	Bulb-bearing Water-	---	---	S5	5	-5	●	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
	hemlock							
<i>Circaea alpina</i>	Dwarf Enchanter's Nightshade	---	---	S5	6	-3	•	
<i>Circaea lutetiana ssp. canadensis</i>	Canada Enchanter's Nightshade	---	---	S5	3	3	•	
<i>Cirsium arvense</i>	Canada Thistle	---	---	SE5	0	3	•	•
<i>Cirsium discolor</i>	Field Thistle	---	---	S4	9	5	•	
<i>Cirsium sp</i>	Thistle Species	---	---	---	---	---	•	
<i>Claytonia virginica</i>	Virginia Spring Beauty	---	---	S5	5	3	•	
<i>Clematis virginiana</i>	Virgin's Bower	---	---	S5	3	0	•	
<i>Clinopodium vulgare</i>	Wild Basil	---	---	S5	4	5	•	
<i>Clintonia borealis</i>	Bluebead Lily	---	---	S5	7	-1	•	
<i>Coeloglossum viride var. virescens</i>	Long-bracted Green Orchid	---	---	S4	8	0	•	
<i>Coptis trifolia ssp. groenlandica</i>	Goldthread	---	---	S5	7	-3	•	
<i>Cornus alternifolia</i>	Alternate-leaved Dogwood	---	---	S5	6	5	•	
<i>Cornus canadensis</i>	Bunchberry	---	---	S5	7	0	•	
<i>Cornus foemina ssp. racemosa</i>	Grey Dogwood	---	---	S5	2	-2	•	
<i>Cornus stolonifera</i>	Red-osier Dogwood	---	---	S5	2	-3	•	
<i>Corydalis sempervirens</i>	Pink Corydalis	---	---	S5	7	5	•	
<i>Corylus cornuta</i>	Beaked Hazelnut	---	---	S5	5	5	•	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Crataegus chrysocarpa</i>	Fireberry Hawthorn	---	---	S5	4	5	●	
<i>Crataegus sp</i>	Hawthorn Species	---	---	---	---	---	●	
<i>Cryptotaenia canadensis</i>	Honewort	---	---	S5	5	0	●	
<i>Cynoglossum officinale</i>	Common Hound's-tongue	---	---	SE5	0	5	●	
<i>Cypripedium calceolus var. parviflorum</i>	Small Yellow Lady's Slipper	---	---	S5	7	-1	●	
<i>Cystopteris bulbifera</i>	Bulblet Bladder Fern	---	---	S5	5	-2	●	
<i>Dactylis glomerata</i>	Orchard Grass	---	---	SE5	0	3	●	
<i>Daucus carota</i>	Wild Carrot	---	---	SE5	0	5	●	
<i>Descurainia sophia</i>	Flixweed	---	---	SE5	0	5	●	
<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	---	---	S5	5	-2	●	
<i>Dryopteris cristata</i>	Crested Wood Fern	---	---	S5	7	-5	●	
<i>Dryopteris intermedia</i>	Evergreen Wood Fern	---	---	S5	5	0	●	
<i>Dryopteris marginalis</i>	Marginal Wood Fern	---	---	S5	5	3	●	
<i>Dulichium arundinaceum</i>	Three-way Sedge	---	---	S5	7	-5	●	
<i>Eleocharis erythropoda</i>	Red-stemmed Spike-rush	---	---	S5	4	-5	●	
<i>Eleocharis obtusa</i>	Blunt Spike-rush	---	---	S5	5	-5	●	
<i>Eleocharis pauciflora</i>	Few-flowered Spike-rush	---	---	S5	10	-5	●	
<i>Eleocharis smallii</i>	Small's Spike-rush	---	---	S5	6	-5	●	
<i>Eleocharis sp</i>	Spike-rush Species	---	---	---	---	---	●	



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		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Epilobium ciliatum ssp. ciliatum</i>	American Willow-herb	---	---	S5	3	3	•	
<i>Epilobium sp</i>	Willow-herb Species	---	---	---	---	---	•	
<i>Epipactis helleborine</i>	Helleborine	---	---	SE5	0	5	•	
<i>Equisetum arvense</i>	Field Horsetail	---	---	S5	0	0	•	
<i>Equisetum fluviatile</i>	Water Horsetail	---	---	S5	7	-5	•	
<i>Equisetum hyemale ssp. affine</i>	Scouring Rush	---	---	S5	2	-2	•	
<i>Equisetum palustre</i>	Marsh Horsetail	---	---	S5	10	-3	•	
<i>Equisetum pratense</i>	Meadow Horsetail	---	---	S5	8	-3	•	
<i>Equisetum sylvaticum</i>	Woodland Horsetail	---	---	S5	7	-3	•	
<i>Erigeron annuus</i>	Daisy Fleabane	---	---	S5	0	1	•	
<i>Erigeron philadelphicus ssp. philadelphicus</i>	Philadelphia Fleabane	---	---	S5	1	-3	•	
<i>Erigeron sp</i>	Fleabane Species	---	---	---	---	---	•	
<i>Erigeron strigosus</i>	Lesser Daisy Fleabane	---	---	S5	0	1	•	
<i>Erysimum cheiranthoides ssp. cheiranthoides</i>	Wormseed Mustard	---	---	SE5	0	3	•	
<i>Erythronium americanum ssp. americanum</i>	Yellow Trout Lily	---	---	S5	5	5	•	
<i>Eupatorium maculatum ssp. maculatum</i>	Spotted Joe-pye-weed	---	---	S5	3	-5	•	



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<i>Eupatorium perfoliatum</i>	Common Boneset	---	---	S5	2	-4	●	
<i>Euphorbia esula</i>	Hungarian Spurge	---	---	SE5	0	5	●	●
<i>Fagus grandifolia</i>	American Beech	---	---	S5	6	3	●	
<i>Festuca pratensis</i>	Meadow Fescue	---	---	SE5	0	4	●	
<i>Fragaria vesca ssp. americana</i>	Woodland Strawberry	---	---	S5	4	4	●	
<i>Fragaria virginiana ssp. virginiana</i>	Common Strawberry	---	---	S5	2	1	●	
<i>Fraxinus americana</i>	White Ash	---	---	S5	4	3	●	
<i>Fraxinus nigra</i>	Black Ash	---	---	S5	7	-4	●	
<i>Fraxinus pennsylvanica</i>	Green Ash	---	---	S5	3	-3	●	
<i>Galeopsis tetrahit</i>	Ironwort	---	---	SE5	0	5	●	
<i>Galium asprellum</i>	Rough Bedstraw	---	---	S5	6	-5	●	
<i>Galium mollugo</i>	Smooth Bedstraw	---	---	SE5	0	5	●	
<i>Galium palustre</i>	Marsh Bedstraw	---	---	S5	5	-5	●	
<i>Galium sp</i>	Bedstraw Species	---	---	---	---	---	●	
<i>Galium tinctorium</i>	Stiff Marsh Bedstraw	---	---	S5	5	-5	●	
<i>Galium triflorum</i>	Fragrant Bedstraw	---	---	S5	4	2	●	
<i>Geranium robertianum</i>	Herb Robert	---	---	SE5	0	5	●	
<i>Geum aleppicum</i>	Yellow Avens	---	---	S5	2	-1	●	
<i>Geum canadense</i>	White Avens	---	---	S5	3	0	●	
<i>Geum laciniatum</i>	Rough Avens	---	---	S4	4	-3	●	
<i>Geum rivale</i>	Water Avens	---	---	S5	7	-5	●	
<i>Geum sp</i>	Avens Species	---	---	---	---	---	●	



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<i>Glyceria borealis</i>	Northern Manna Grass	---	---	S5	8	-5	●	
<i>Glyceria canadensis</i>	Rattlesnake Manna Grass	---	---	S4S5	7	-5	●	
<i>Glyceria striata</i>	Fowl Manna Grass	---	---	S5	3	-5	●	
<i>Gnaphalium obtusifolium</i>	Fragrant Cudweed	---	---	S5	4	5	●	
<i>Gymnocarpium dryopteris</i>	Common Oak Fern	---	---	S5	7	0	●	
<i>Heracleum mantegazzianum</i>	Giant Hogweed	---	---	SNA				●
<i>Hesperis matronalis</i>	Dame's Rocket	---	---	SE5	0	5	●	
<i>Hieracium aurantiacum</i>	Orange Hawkweed	---	---	SE5	0	5	●	
<i>Hieracium pilosella</i>	Mouse-ear Hawkweed	---	---	SE5	0	5	●	
<i>Hieracium piloselloides</i>	Glaucous King Devil	---	---	SE5	0	5	●	
<i>Hieracium sp</i>	Hawkweed Species	---	---	---	---	---	●	
<i>Hydrocharis morsus-ranae</i>	Frog's-bit	---	---	SNA	0	-5		●
<i>Hydrophyllum virginianum</i>	Virginia Water-leaf	---	---	S5	6	-2	●	
<i>Hypericum majus</i>	Larger Canadian St. John's-wort	---	---	S5	5	-3	●	
<i>Hypericum perforatum</i>	Common St. John's-wort	---	---	SE5	0	5	●	
<i>Ilex verticillata</i>	Winterberry	---	---	S5	5	-4	●	
<i>Impatiens capensis</i>	Spotted Touch-me-not	---	---	S5	4	-3	●	



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		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Impatiens glandulifera</i>	Pink Touch-me-not	---	---	SNA	0	-3		•
<i>Inula helenium</i>	Elecampane	---	---	SE5	0	5	•	
<i>Iris pseudacorus</i>	Yellow Iris	---	---	SNA	0	-5		•
<i>Iris sp</i>	Iris Species	---	---	---	---	---	•	
<i>Iris versicolor</i>	Northern Blue-flag	---	---	S5	5	-5	•	
<i>Juncus compressus</i>	Flat-stem Rush	---	---	SE5	0	-4	•	
<i>Juncus dudleyi</i>	Dudley's Rush	---	---	S5	1	0	•	
<i>Juncus effusus ssp. solutus</i>	Soft Rush	---	---	S5	4	-5	•	
<i>Juncus sp</i>	Rush Species	---	---	---	---	---	•	
<i>Juniperus sp</i>	Juniper Species	---	---	---	---	---	•	
<i>Kalmia angustifolia</i>	Sheep Laurel	---	---	S5	9	0	•	
<i>Lactuca biennis</i>	Tall Blue Lettuce	---	---	S5	6	0	•	
<i>Lamium sp.</i>							•	
<i>Laportea canadensis</i>	Wood Nettle	---	---	S5	6	-3	•	
<i>Larix decidua</i>	European Larch	---	---	SE2	0	5	•	
<i>Larix laricina</i>	Tamarack	---	---	S5	7	-3	•	
<i>Ledum groenlandicum</i>	Labrador Tea	---	---	S5	9	-5	•	
<i>Lemna minor</i>	Lesser Duckweed	---	---	S5	2	-5	•	
<i>Leonurus cardiaca ssp. cardiaca</i>	Motherwort	---	---	SE5	0	5	•	
<i>Lepidium campestre</i>	Field Cress	---	---	SE5	0	5	•	
<i>Ligustrum vulgare</i>	Common Privet	---	---	SNA	0	1		•
<i>Linnaea borealis ssp.</i>	Twinflower	---	---	S5	7	0	•	



Scientific Name	Common Name	Conservation Status					Information Source	
		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>longiflora</i>								
<i>Lonicera canadensis</i>	Fly Honeysuckle	---	---	S5	6	3	•	
<i>Lonicera caprifolium</i>	European Honeysuckle	---	---	SE1	0	5		
<i>Lonicera dioica</i>	Glaucous Honeysuckle	---	---	S5	5	3	•	
<i>Lonicera hirsuta</i>	Hairy Honeysuckle	---	---	S5	7	0	•	
<i>Lonicera japonica</i>	Japanese Honeysuckle	---	---	SNA	0	3		•
<i>Lonicera oblongifolia</i>	Swamp Fly Honeysuckle	---	---	S5	8	-5	•	
<i>Lonicera villosa</i>	Mountain Fly Honeysuckle	---	---	S5	10	-3	•	
<i>Lotus corniculatis</i>	Birds-foot Trefoil	---	---	SE5	0	1	•	
<i>Lycopus americanus</i>	Cut-leaved Water-horehound	---	---	S5	4	-5	•	
<i>Lycopus uniflorus</i>	Northern Water-horehound	---	---	S5	5	-5	•	
<i>Lysimachia ciliata</i>	Fringed Loosestrife	---	---	S5	4	-3	•	
<i>Lysimachia nummularia</i>	Moneywort	---	---	SNA	0	-4		•
<i>Lysimachia thyrsoiflora</i>	Tufted Loosestrife	---	---	S5	7	-5	•	
<i>Lythrum salicaria</i>	Purple Loosestrife	---	---	SE5	0	-5	•	•
<i>Maianthemum canadense</i>	Canada Mayflower	---	---	S5	5	0	•	
<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	False Solomon's Seal	---	---	S5	4	3	•	
<i>Maianthemum trifolium</i>	Three-leaved Solomon's	---	---	S5	10	-5	•	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
	Seal							
<i>Malus pumila</i>	Common Apple	---	---	SE5	0	5	●	
<i>Malus sp</i>	Crabapple Species	---	---	---	---	---	●	
<i>Malva neglecta</i>	Cheeses	---	---	SE5	0	5	●	
<i>Matricaria matricariodes</i>	Pineapple Weed	---	---	SE5	---	---	●	
<i>Matteuccia struthiopteris var. pennsylvanica</i>	Ostrich Fern	---	---	S5	5	-3	●	
<i>Medeola virginiana</i>	Indian Cucumber-root	---	---	S5	7	5		
<i>Medicago lupulina</i>	Black Medick	---	---	SE5	0	1	●	
<i>Medicago sativa ssp. sativa</i>	Alfalfa	---	---	SE5	0	5	●	
<i>Mentha arvensis ssp. borealis</i>	Wild Mint	---	---	S5	3	-3	●	
<i>Mentha sp</i>	Mint Species	---	---	---	---	---	●	
<i>Mimulus ringens</i>	Square-stemmed Monkey-flower	---	---	S5	6	-5	●	
<i>Mitchella repens</i>	Partridge Berry	---	---	S5	6	2	●	
<i>Mitella diphylla</i>	Bishop's Cap	---	---	S5	5	2	●	
<i>Mitella nuda</i>	Naked Mitrewort	---	---	S5	6	-3	●	
<i>Muhlenbergia glomerata</i>	Marsh Muhly	---	---	S5	7	-4	●	
<i>Myosotis laxa</i>	Small Forget-me-not	---	---	S5	6	-5	●	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Myosotis scorpioides</i>	Common Forget-me-not	---	---	SE5	0	-5	●	
<i>Myosotis sp</i>	Forget-me-not Species	---	---	---	---	---	●	
<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	---	---	SNA	0	-5		●
<i>Nasturtium officinale</i>	Water-cress	---	---	SE	0	-5	●	
<i>Nasturtium sp</i>	Water-cress Species	---	---	---	---	---	●	
<i>Nemopanthus mucronatus</i>	Mountain-holly	---	---	S5	8	-5	●	
<i>Nepeta cataria</i>	Catnip	---	---	SE5	0	1	●	
<i>Nuphar variegata</i>	Bulhead Pond-lily	---	---	S5	4	-5	●	
<i>Oenothera perennis</i>	Small Sundrops	---	---	S4S5	6	0	●	
<i>Onoclea sensibilis</i>	Sensitive Fern	---	---	S5	4	-3	●	
<i>Osmunda regalis var. spectabilis</i>	Royal Fern	---	---	S5	7	-5	●	
<i>Osmunda sp</i>	Osmunda Species	---	---	---	---	---	●	
<i>Ostrya virginiana</i>	Hop Hornbeam	---	---	S5	4	4	●	
<i>Oxalis acetosella ssp. montana</i>	True Wood-sorrel	---	---	S5	8	3	●	
<i>Oxalis sp</i>	Wood-sorrel Species	---	---	---	---	---	●	
<i>Oxalis stricta</i>	Upright Yellow Wood-sorrel	---	---	S5	0	3	●	
<i>Parthenocissus inserta</i>	Thicket Creeper	---	---	S5	3	3	●	
<i>Parthenocissus sp</i>	Virginia Creeper Species	---	---	---	---	---	●	
<i>Phalaris arundinacea</i>	Reed Canary Grass	---	---	S5	0	-4	●	
<i>Phegopteris connectilis</i>	Northern Beech Fern	---	---	S5	8	5	●	



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		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Phleum pratense</i>	Timothy	---	---	SE5	0	3	●	
<i>Physocarpus opulifolius</i>	Ninebark	---	---	S5	5	-2	●	
<i>Picea abies</i>	Norway Spruce	---	---	SE3	0	5	●	
<i>Picea glauca</i>	White Spruce	---	---	S5	6	3	●	
<i>Picea mariana</i>	Black Spruce	---	---	S5	8	-3	●	
<i>Pilea pumila</i>	Common Clearweed	---	---	S5	5	-3	●	
<i>Pinus strobus</i>	Eastern White Pine	---	---	S5	4	3	●	
<i>Pistia stratiotes</i>	Water Lettuce			SNA				●
<i>Plantago lanceolata</i>	Ribgrass	---	---	SE5	0	0	●	
<i>Plantago major</i>	Common Plantain	---	---	SE5	0	-1	●	
<i>Poa palustris</i>	Fowl Blue Grass	---	---	S5	5	-4	●	
<i>Poa pratensis ssp. pratensis</i>	Kentucky Blue Grass	---	---	S5	0	1	●	
<i>Podophyllum peltatum</i>	Mayapple	---	---	S5	5	3	●	
<i>Polygala paucifolia</i>	Fringed Polygala	---	---	S5	6	3	●	
<i>Polygonatum biflorum</i>	Smooth Solomon's Seal	---	---	S4	8	3	●	
<i>Polygonatum pubescens</i>	Hairy Solomon's Seal	---	---	S5	5	5	●	
<i>Polygonum achoreum</i>	Striate Knotweed	---	---	S5	0	5	●	
<i>Polygonum amphibium</i>	Water Smartweed	---	---	S5	5	-5	●	
<i>Polygonum persicaria</i>	Lady's Thumb	---	---	SE5	0	-3	●	
<i>Polygonum sp</i>	Smartweed Species	---	---	---	---	---	●	
<i>Polystichum acrostichoides</i>	Christmas Fern	---	---	S5	5	5	●	
<i>Populus balsamifera ssp.</i>	Balsam Poplar	---	---	S5	4	-3	●	



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<i>balsamifera</i>								
<i>Populus grandidentata</i>	Large-tooth Aspen	---	---	S5	5	3	●	
<i>Populus tremuloides</i>	Trembling Aspen	---	---	S5	2	0	●	
<i>Potamogeton amplifolius</i>	Large-leaved Pondweed	---	---	S5	5	-5	●	
<i>Potamogeton crispus</i>	Curly Pondweed	---	---	SNA	0	-5		●
<i>Potamogeton natans</i>	Floating-leaf Pondweed	---	---	S5	5	-5	●	
<i>Potamogeton sp</i>	Pondweed Species	---	---	---	---	---	●	
<i>Potentilla anserina ssp. anserina</i>	Silverweed	---	---	S5	5	-4	●	
<i>Potentilla argentea</i>	Silvery Cinquefoil	---	---	SE5	0	3	●	
<i>Potentilla norvegica ssp. monspeliensis</i>	Rough Cinquefoil	---	---	S5	0	0	●	
<i>Potentilla recta</i>	Rough-fruited Cinquefoil	---	---	SE5	0	5	●	
<i>Potentilla sp</i>	Cinquefoil Species	---	---	---	---	---	●	
<i>Prenanthes alba</i>	White Lettuce	---	---	S5	6	3	●	
<i>Prenanthes sp</i>	White Lettuce Species	---	---	---	---	---	●	
<i>Prunella vulgaris ssp. lanceolata</i>	Heal-all	---	---	S5	5	5	●	
<i>Prunus avium</i>	Sweet Cherry	---	---	SE4	0	5	●	
<i>Prunus serotina</i>	Black Cherry	---	---	S5	3	3	●	
<i>Prunus sp</i>	Cherry Species	---	---	---	---	---	●	
<i>Prunus virginiana ssp.</i>	Choke Cherry	---	---	S5	2	1	●	



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<i>virginiana</i>								
<i>Pteridium aquilinum var. latiusculum</i>	Eastern Bracken Fern	---	---	S5	2	3	•	
<i>Pyrola elliptica</i>	Shinleaf	---	---	S5	5	5	•	
<i>Quercus rubra</i>	Red Oak	---	---	S5	6	3	•	
<i>Ranunculus abortivus</i>	Kidney-leaf Buttercup	---	---	S5	2	-2	•	
<i>Ranunculus acris</i>	Tall Buttercup	---	---	SE5	0	-2	•	
<i>Ranunculus aquatilis var. diffusus</i>	White Water Crowfoot	---	---	S4S5	5	-5	•	
<i>Ranunculus hispidus var. caricetorum</i>	Swamp Buttercup	---	---	S5	5	-5	•	
<i>Ranunculus recurvatus</i>	Hooked Buttercup	---	---	S5	4	-3	•	
<i>Ranunculus repens</i>	Creeping Buttercup	---	---	SE5	0	-1	•	
<i>Ranunculus sceleratus var. sceleratus</i>	Cursed Crowfoot	---	---	S5	2	-5	•	
<i>Ranunculus sp</i>	Buttercup Species	---	---	---	---	---	•	
<i>Rhamnus alnifolia</i>	Alder-leaved Buckthorn	---	---	S5	7	-5	•	
<i>Rhamnus cathartica</i>	Common Buckthorn	---	---	SE5	0	3	•	
<i>Rhamnus frangula</i>	Glossy Buckthorn	---	---	SE5	0	-1	•	
<i>Rhus radicans ssp. rydbergii</i>	Western Poison-ivy	---	---	S5	0	0	•	
<i>Ribes americanum</i>	Wild Black Currant	---	---	S5	4	-3	•	
<i>Ribes cynosbati</i>	Prickly Gooseberry	---	---	S5	4	5	•	
<i>Ribes glandulosum</i>	Skunk Currant	---	---	S5	6	-3	•	



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<i>Ribes hirtellum</i>	Smooth Gooseberry	---	---	S5	6	-3	●	
<i>Ribes lacustre</i>	Swamp Black Currant	---	---	S5	7	-3	●	
<i>Ribes rubrum</i>	Garden Red Currant	---	---	SE5	0	5	●	
<i>Ribes sp</i>	Currant Species	---	---	---	---	---	●	
<i>Ribes triste</i>	Swamp Red Currant	---	---	S5	6	-5	●	
<i>Rorippa palustris ssp. fernaldiana</i>	Marsh Yellow-cress	---	---	S5	3	-5	●	
<i>Rosa multiflora</i>	Multiflora Rose	---	---	SNA	0	3		●
<i>Rosa sp</i>	Rose Species	---	---	---	---	---	●	
<i>Rubus allegheniensis</i>	Common Blackberry	---	---	S5	2	2	●	
<i>Rubus flagellaris</i>	Northern Dewberry	---	---	S4	4	4	●	
<i>Rubus idaeus ssp. melanolasius</i>	Wild Red Raspberry	---	---	S5	0	-2	●	
<i>Rubus occidentalis</i>	Black Raspberry	---	---	S5	2	5	●	
<i>Rubus pubescens</i>	Dwarf Raspberry	---	---	S5	4	-4	●	
<i>Rumex crispus</i>	Curly Dock	---	---	SE5	0	-1	●	
<i>Rumex obtusifolius ssp. obtusifolius</i>	Bitter Dock	---	---	SE5	0	-3	●	
<i>Rumex orbiculatus</i>	Great Water Dock	---	---	S4S5	6	-5	●	
<i>Rumex sp</i>	Dock Species	---	---	---	---	---	●	
<i>Sagittaria latifolia</i>	Common Arrowhead	---	---	S5	4	-5	●	
<i>Salix amygdaloides</i>	Peach-leaved Willow	---	---	S5	6	-3	●	
<i>Salix bebbiana</i>	Bebb's Willow	---	---	S5	4	-4	●	
<i>Salix candida</i>	Sage-leaved Willow	---	---	S5	10	-5	●	



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<i>Salix discolor</i>	Pussy Willow	---	---	S5	3	-3	●	
<i>Salix nigra</i>	Black Willow	---	---	S4?	6	-5	●	
<i>Salix petiolaris</i>	Slender Willow	---	---	S5	3	-4	●	
<i>Salix sp</i>	Willow Species	---	---	---	---	---	●	
<i>Salix X rubens</i>	Hybrid White Willow	---	---	SE4	0	-4	●	
<i>Sambucus canadensis</i>	Common Elderberry	---	---	S5	5	-2	●	
<i>Sambucus racemosa ssp. pubens</i>	Red-berried Elderberry	---	---	S5	5	2	●	
<i>Sanguinaria canadensis</i>	Bloodroot	---	---	S5	5	4	●	
<i>Sanicula canadensis var. canadensis</i>	Short-styled Snakeroot	---	---	S4	7	2	●	
<i>Sanicula trifoliata</i>	Large-fruited Snakeroot	---	---	S4	7	5	●	
<i>Schizachne purpurascens ssp. purpurascens</i>	False Melic	---	---	S5	6	2	●	
<i>Scirpus atrovirens</i>	Black Bulrush	---	---	S5	3	-5	●	
<i>Scirpus cyperinus</i>	Wool Grass	---	---	S5	4	-5	●	
<i>Scirpus microcarpus</i>	Small-fruited Bulrush	---	---	S5	4	-5	●	
<i>Scirpus sp</i>	Bulrush Species	---	---	---	---	---	●	
<i>Scutellaria lateriflora</i>	Blue Skullcap	---	---	S5	5	-5	●	
<i>Sedum acre</i>	Mossy Stonecrop	---	---	SNA	0	5		●
<i>Sedum sp</i>	Stonecrop Species	---	---	---	---	---	●	
<i>Senecio aureus</i>	Golden Ragwort	---	---	S5	7	-3	●	
<i>Senecio vulgaris</i>	Common Ragwort	---	---	SE5	0	5	●	
<i>Silene latifolia</i>	Bladder Champion	---	---	SE5	0	5	●	



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<i>Sisyrinchium montanum</i>	Common Blue-eyed Grass	---	---	S5	4	-1	●	
<i>Sium suave</i>	Water-parsnip	---	---	S5	4	-5	●	
<i>Smilax hispida</i>	Bristly Greenbrier	---	---	S4	6	0	●	
<i>Smilax sp</i>	Greenbrier Species	---	---	---	---	---	●	
<i>Solanum dulcamara</i>	Bittersweet Nightshade	---	---	SE5	0	0	●	
<i>Solidago caesia</i>	Blue-stem Goldenrod	---	---	S5	5	3	●	
<i>Solidago canadensis</i>	Canada Goldenrod	---	---	S5	1	3	●	
<i>Solidago rugosa ssp. rugosa</i>	Rough Goldenrod	---	---	S5	4	-1	●	
<i>Solidago sp</i>	Goldenrod Species	---	---	---	---	---	●	
<i>Sonchus arvensis ssp. arvensis</i>	Field Sow-thistle	---	---	SE5	0	1	●	
<i>Sorbus aucuparia</i>	European Mountain-ash	---	---	SE4	0	5	●	
<i>Sorbus sp</i>	Mountain-ash Species	---	---	---	---	---	●	
<i>Spiraea alba</i>	Narrow-leaved Meadowsweet	---	---	S5	3	-4	●	
<i>Spiraea sp</i>	Meadowsweet Species	---	---	---	---	---	●	
<i>Stellaria graminea</i>	Grass-leaved Stitchwort	---	---	SE5	0	5	●	
<i>Stratiotes aloides</i>	Water Soldiers	---	---	SNA				●
<i>Symplocarpus foetidus</i>	Skunk Cabbage	---	---	S5	7	-5	●	
<i>Syringa vulgaris</i>	Common Lilac	---	---	SE5	0	5	●	
<i>Tanacetum vulgare</i>	Tansy	---	---	SE5	0	5	●	
<i>Taraxacum officinale</i>	Common Dandelion	---	---	SE5	0	3	●	



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<i>Taxus canadensis</i>	Canada Yew	---	---	S5	7	3	●	
<i>Thalictrum dioicum</i>	Early Meadow-rue	---	---	S5	5	2	●	
<i>Thalictrum pubescens</i>	Tall Meadow-rue	---	---	S5	5	-2	●	
<i>Thelypteris noveboracensis</i>	New York Fern	---	---	S4S5	7	-1	●	
<i>Thelypteris palustris var. pubescens</i>	Marsh Fern	---	---	S5	5	-4	●	
<i>Thlaspi arvense</i>	Field Penny-cress	---	---	SE5	0	5	●	
<i>Thuja occidentalis</i>	Eastern White Cedar	---	---	S5	4	-3	●	
<i>Tiarella cordifolia</i>	Foamflower	---	---	S5	6	1	●	
<i>Tilia americana</i>	Basswood	---	---	S5	4	3	●	
<i>Trapa natans</i>	Water Chestnut	---	---	SNA				●
<i>Triadenum fraseri</i>	Fraser's St. John's-wort	---	---	S5	7	-5	●	
<i>Trientalis borealis ssp. borealis</i>	Starflower	---	---	S5	6	-1	●	
<i>Trifolium pratense</i>	Red Clover	---	---	SE5	0	2	●	
<i>Trifolium repens</i>	White Clover	---	---	SE5	0	2	●	
<i>Trillium erectum</i>	Red Trillium	---	---	S5	6	1	●	
<i>Trillium grandiflorum</i>	White Trillium	---	---	S5	5	5	●	
<i>Triosteum aurantiacum</i>	Wild Coffee	---	---	S5	7	5	●	
<i>Tsuga canadensis</i>	Eastern Hemlock	---	---	S5	7	3	●	
<i>Tussilago farfara</i>	Coltsfoot	---	---	SE5	0	3	●	
<i>Typha angustifolia</i>	Narrow-leaved Cattail	---	---	S5	3	-5	●	
<i>Typha latifolia</i>	Broad-leaved Cattail	---	---	S5	3	-5	●	



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		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Ulmus americana</i>	White Elm	---	---	S5	3	-2	●	
<i>Urtica dioica ssp. gracilis</i>	Slender Stinging Nettle	---	---	S5	2	-1	●	
<i>Utricularia minor</i>	Lesser Bladderwort	---	---	S5	8	-5	●	
<i>Uvularia grandiflora</i>	Large-flowered Bellwort	---	---	S5	6	5	●	
<i>Valeriana officinalis</i>	Common Valerian	---	---	SE3	0	2	●	
<i>Vallisneria americana</i>	Tape-grass	---	---	S5	6	-5	●	
<i>Verbascum thapsus</i>	Common Mullein	---	---	SE5	0	5	●	
<i>Veronica anagallis-aquatica</i>	Water Speedwell	---	---	SE5	0	-5	●	
<i>Veronica filiformis</i>	Hair-like Speedwell	---	---	SE2	0	5	●	
<i>Veronica officinalis</i>	Common Speedwell	---	---	SE5	0	5	●	
<i>Veronica scutellata</i>	Marsh Speedwell	---	---	S5	7	-5	●	
<i>Veronica serpyllifolia ssp. serpyllifolia</i>	Thyme-leaved Speedwell	---	---	S5	0	-3	●	
<i>Viburnum acerifolium</i>	Maple-leaved Viburnum	---	---	S5	6	5	●	
<i>Viburnum cassinoides</i>	Wild Raisin	---	---	S5	7	-3	●	
<i>Viburnum lentago</i>	Nannyberry	---	---	S5	4	-1	●	
<i>Viburnum opulus</i>	European Highbush Cranberry	---	---	SE4	0	0	●	
<i>Vicia americana</i>	Purple Vetch	---	---	S5	9	5	●	
<i>Vicia cracca</i>	Cow Vetch	---	---	SE5	0	5	●	
<i>Vinca minor</i>	Periwinkle	---	---	SNA	0	5		●
<i>Viola conspersa</i>	Dog Violet	---	---	S5	4	-2	●	
<i>Viola cucullata</i>	Marsh Blue Violet	---	---	S5	5	-5	●	



Scientific Name	Common Name	Conservation Status					Information Source	
		National	Provincial		Coefficient of Conservation	Coefficient of Wetness	Observed in the Field	NHIC ⁴
		SARA, 2002 ¹	ESA, 2007 ²	SRank ³				
<i>Viola macloskeyi ssp. pallens</i>	Smooth White Violet	---	---	S5	6	-5	●	
<i>Viola pubescens</i>	Yellow Violet	---	---	S5	5	4	●	
<i>Viola sororia</i>	Common Blue Violet	---	---	S5	4	1	●	
<i>Viola sp</i>	Violet Species	---	---	---	---	---	●	
<i>Vitis riparia</i>	Riverbank Grape	---	---	S5	0	-2	●	
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 D2.

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

*denotes Species of Conservation Concern



Table D2: Bird Species Identified as Occurring or Potentially Occurring in the General Area of the Project Location

Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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	•						•	•



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>Dendroica virens</i>	Black-throated Green Warbler	---	---	S5B	•			•	•	•	•	•
<i>Cyanocitta cristata</i>	Blue Jay	---	---	S5	•		•	•	•	•	•	•
<i>Poliophtila caerulea</i>	Blue-gray Gnatcatcher	---	---	S4B	•							
<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-colored Sparrow	---	---	S4B	•		•					
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow	---	---	S4B	•		•	•	•	•		•
<i>Quiscalus quiscula</i>	Common Grackle	---	---	S5B	•		•	•	•	•	•	•
<i>Chordeiles minor</i>	Common Nighthawk*	THR	SC	S4B	•							



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>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	●			●	●	●	●	●
<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>Ardea alba</i>	Great Egret	---	---	S2B	●							



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>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	•		•	•	•	•	•	•
<i>Charadrius vociferus</i>	Killdeer	---	---	S5B, S5N	•		•	•	•	•	•	•
<i>Empidonax minimus</i>	Least Flycatcher	---	---	S4B	•		•	•	•	•	•	•
<i>Asio otus</i>	Long-eared Owl	---	---	S4	•							
<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	•		•	•	•	•	•	•



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>Vermivora ruficapilla</i>	Nashville Warbler	---	---	S5B	●		●	●	●	●	●	●
<i>Cardinalis cardinalis</i>	Northern Cardinal	---	---	S5	●		●		●	●	●	●
<i>Colaptes auratus</i>	Northern Flicker	---	---	S4B	●		●	●	●	●	●	●
<i>Accipiter gentilis</i>	Northern Goshawk	---	---	S4	●							
<i>Circus cyaneus</i>	Northern Harrier	---	---	S4B	●		●	●	●	●	●	●
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow	---	---	S4B			●		●	●		
<i>Aegolius acadicus</i>	Northern Saw-whet Owl	---	---	S4	●							
<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>Progne subis</i>	Purple Martin	---	---	S4B	●							
<i>Melanerpes carolinus</i>	Red-bellied Woodpecker	---	---	S4				●				
<i>Sitta canadensis</i>	Red-breasted Nuthatch	---	---	S5	●			●	●	●		●
<i>Vireo olivaceus</i>	Red-eyed Vireo	---	---	S5B	●		●	●	●	●	●	●
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker*	THR	SC	S4B			●					
<i>Buteo lineatus</i>	Red-shouldered Hawk	SC	---	S4B	●							



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>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>Buteo lagopus</i>	Rough-legged Hawk*	---	---	S1B, S4N	•							
<i>Archilochus colubris</i>	Ruby-throated Hummingbird	---	---	S5B			•	•	•		•	•
<i>Oxyura jamaicensis</i>	Ruddy Duck	---	---	S4B, S4N							•	
<i>Bonasa umbellus</i>	Ruffed Grouse	---	---	S4	•				•	•	•	•
<i>Grus canadensis</i>	Sandhill Crane	---	---	S5B					•			
<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	•		•	•	•	•	•	•



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>Porzana carolina</i>	Sora	---	---	S4B, SZN	•			•	•	•	•	
<i>Actitis macularia</i>	Spotted Sandpiper	---	---	S5	•		•	•	•		•	•
<i>Melospiza georgiana</i>	Swamp Sparrow	---	---	S5B	•		•	•	•	•	•	•
<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	•		•	•	•	•	•	•



Scientific Name	Common Name	Conservation Status			Information Source							
		National	Provincial		Observed in the Field	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>Dendroica petechia</i>	Yellow Warbler	---	---	S5B			•	•			•	•
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	---	---	S5B	•			•			•	•
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo	---	---	S4B, SZN	•							
<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 D2.



Table D3: Wildlife Species Identified as Potentially Occurring in the General Area of the Project Location

Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	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>Lasiorycteris 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>Lepus europaeus</i>	European Hare	---	---	S5	●					
<i>Tamias striatus</i>	Eastern Chipmunk	---	---	S5	●		●			
<i>Marmota monax</i>	Woodchuck	---	---	S5	●		●			

Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³						
<i>Sciurus carolinensis</i>	Gray Squirrel	---	---	S5			•			
<i>Tamiasciurus hudsonicus</i>	Red Squirrel	---	---	S5	•		•			
<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	•	•	•			

Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³						
<i>Ursus americanus</i>	Black Bear	---	---	S5			•			
<i>Procyon lotor</i>	Raccoon	---	---	S5	•	•	•			
<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	•		•		•	



Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³						
<i>Rana clamitans</i>	Green Frog	---	---	S5	●			●	●	
<i>Rana catesbeiana</i>	Bullfrog	---	---	S4	●					
<i>Chelydra serpentina</i>	Common Snapping Turtle*	SC	SC	S4	●			●	●	
<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						●

Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³						
<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 aequabilis</i>	River Jewelwing	---	---	S5						•
<i>Calopteryx maculata</i>	Ebony Jewelwing	---	---	S5	•					•
<i>Amphiagrion saucium</i>	Eastern Red Damsel	---	---	S4						•
<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>Enallagma sp.</i>	Bluet Species	---	---	---	•					
<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						•

Scientific Name	Common Name	Conservation Status			Information Source					
		National	Provincial		Observed in the Field	NHIC ⁴	Mammals ⁵	Herpetofaunal Atlas ⁶	Natural Resources Canada ⁷	Odonata Atlas ⁸
		SARA ¹	ESA, 2007 ²	SRank ³						
<i>Epitheca 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>Leuconthia intacta</i>	Dot-tailed Whiteface	---	---	S5	•					
<i>Plathemis lydia</i>	Common Whitetail	---	---	S5	•					
<i>Erythemis simplicicollis</i>	Eastern Pondhawk	---	---	S5	•					
<i>Libellula luctosa</i>	Widow Skimmer	---	---	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						•
<i>Sympetrum rubicundulum</i>	Ruby Meadowhawk	---	---	S5	•					
<i>Sympetrum vicinum</i>	Yellow-legged Meadowhawk	---	---	S5						•
LEPIDOPTERA										
<i>Boloria bellona</i>	Meadow Fritillary	---	---	S5	•					
<i>Carterocephalus palaemon</i>	Arctic Skipper	---	---	S5	•					
<i>Cercyonis pegala</i>	Common Wood Nymph	---	---	S5	•					
<i>Cornonympha tullia</i>	Common Ringlet	---	---	S5	•					
<i>Danaus plexippus</i>	Monarch*	SC	SC	S2N,	•					



Scientific Name	Common Name	Conservation Status			Information Source					
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		SARA ¹	ESA, 2007 ²	SRank ³						
				S4B						
<i>Limenitis arthemis</i>	White Admiral	---	---	S5	●					
<i>Megisto cymela</i>	Little wood satyr	---	---	S5	●					
<i>Phycoides cocyta</i>	Northern Crescent	---	---	S5	●					
<i>Poanes hobomok</i>	Hobomok Skipper	---	---	S5	●					
<i>Thymelicus lineola</i>	European Skipper	---	---	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 D2;

● 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 D2

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).