

# **Appendix F**

## **Flora Lists**



**Table 1 Vascular plants considered species at risk or species of conservation concern found within 100 km of the proposed Clydesdale Ridge Wind Farm**

Scientific Name	Common Name	Preferred Habitat	Season	Likely Onsite?	ACCDC Rank	Old NSDNR Rank	New NSDNR Rank	COSEWIC Rank	Distance (km)
<i>Erioderma pedicellatum</i> (Atlantic pop.)	Boreal Felt Lichen (Atlantic pop.)	Generally, most habitats are found on northerly exposed slopes where cool and moist habitat conditions prevail, throughout much of the year.		Unlikely	S1S2	RED	1 At Risk	E	60 ±0
<i>Thuja occidentalis</i>	Eastern White Cedar	Lakesides and swamps or old pastures.	Can be identified throughout the year	Unlikely	S1S2	RED	1 At Risk	-	29 ±0.5
<i>Sanicula odorata</i>	Clustered Sanicle	Rich, alluvial woods and along intervale.	July to August	Unlikely	S1	RED	2 May Be At Risk	-	14 ±10
<i>Antennaria parlinii</i>	Parlin's Pussytoes	Dry pine and oak forest, pastures, old fields, and rocky banks.	June and July	Unlikely	S1	RED	2 May Be At Risk	-	11 ±0
<i>Solidago hispida</i>	Hairy Goldenrod	Woods and forest edges.	Summer and fall	Possible	S1?	RED	2 May Be At Risk	-	56 ±10
<i>Caulophyllum thalictroides</i>	Blue Cohosh	Deciduous and intervale forest.	April to early June, can be identified when not in flower	Possible	S2	RED	2 May Be At Risk	-	11 ±0.1
<i>Arabis hirsuta</i> var. <i>pycnocarpa</i>	Western Hairy Rockcress	Dry cliffs, crevices, ledges, talus slopes, and gravels.	May and June	Unlikely	S1S2	RED	2 May Be At Risk	-	84 ±0.1
<i>Cochlearia tridactylites</i>	Limestone Scurvy-grass	Calcareous or brackish soils, Halophytic, known only from a few Atlantic coast islands.	Flowers in Summer,	Unlikely	S1	RED	2 May Be At Risk	-	99 ±10
<i>Lobelia spicata</i>	Pale-Spiked Lobelia	Dry fields.	Not given for NS.	Unlikely	S1	RED	2 May Be At Risk	-	43 ±10
<i>Chenopodium rubrum</i>	Red Pigweed	Salt marshes, seashores, and saline soils.	August to November	Unlikely	S1?	RED	2 May Be At Risk	-	29 ±10
<i>Suaeda rolandii</i>	Roland's Sea-Blite	Salt marshes and saline shores.	September	Unlikely	S1?	RED	2 May Be At Risk	-	96 ±10
<i>Hudsonia tomentosa</i>	Woolly Beach-heath	Sandy dunes and shores.	Flowers May to June. Identifiable year round	Unlikely	S1	RED	2 May Be At Risk	-	39 ±10
<i>Hypericum majus</i>	Large St. John's-wort	Wet or dry open soil.	July to September	Unlikely	S1	RED	2 May Be At Risk	-	69 ±0
<i>Cuscuta cephalanthi</i>	Buttonbush Dodder	Low-lying ground near seashore, often parasitic on Asters.	August and September	Unlikely	S1	RED	2 May Be At Risk	-	24 ±1
<i>Vaccinium boreale</i>	Northern Blueberry	Exposed headlands and barrens, has been found by JW teams in drier open bog near Moose River Gold Mines.	Not given for NS. Likely identifiable in early summer on to October	Unlikely	S2	RED	2 May Be At Risk	-	100 ±1
<i>Desmodium canadense</i>	Canada Tick-trefoil	Typically around river banks and exposed adjacent flood plain area including open woods and thickets.	Late July(August) to early September, can be identified when not in flower.	Unlikely	S1	RED	2 May Be At Risk	-	22 ±0.1
<i>Desmodium glutinosum</i>	Large Tick-Trefoil	Rich deciduous woods or intervale.	June and July	Unlikely	S1	RED	2 May Be At Risk	-	93 ±0
<i>Fraxinus pennsylvanica</i>	Red Ash	Near lakes or ponds, or in other low-lying areas.	Flowers in May	Possible	S1	RED	2 May Be At Risk	-	72 ±10
<i>Clematis occidentalis</i>	Purple Clematis	Rocky, often calcareous slopes, and open woodlands.	May to June	Unlikely	S1	RED	2 May Be At Risk	-	96 ±10
<i>Hepatica nobilis</i> var. <i>obtusata</i>	Round-lobed Hepatica	Dry, usually mixed deciduous forest.	Early May	Possible	S1S2	RED	2 May Be At Risk	-	37 ±10

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<i>Ranunculus pensylvanicus</i>	Pennsylvania Buttercup	Typically in Rich damp alluvial areas or in rich seepage areas in more open conditions, a relatively recent addition to NS flora but widespread in NB.	late June-August	Unlikely	S1	RED	2 May Be At Risk	-	44 ±0
<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry	Pine barrens, pond margins, fields, edges, and thickets. Old fields /roadsides.	May	Unlikely	S1	RED	2 May Be At Risk	-	100 ±1
<i>Galium boreale</i>	Northern Bedstraw	The edges of woods and in grassy places, such as pastures.	Flowers June to August	Possible	S2	RED	2 May Be At Risk	-	50 ±5
<i>Comandra umbellata</i>	Bastard's Toadflax	Damp, sandy areas, dunes, and exposed headlands; open coniferous woods.	Flowering time not given, summer	Unlikely	S2	RED	2 May Be At Risk	-	98 ±10
<i>Parnassia palustris var. parviflora</i>	Marsh Grass-of-Parnassus	Grassy hollows in sand dunes, and on tussocks in swamps.	July.	Unlikely	S2	RED	2 May Be At Risk	-	71 ±1
<i>Dirca palustris</i>	Eastern Leatherwood	Rich deciduous or mixed woods.	On or about May 20, appearing before the leaves	Unlikely	S1	RED	2 May Be At Risk	-	61 ±10
<i>Pilea pumila</i>	Dwarf Clearweed	Moist rich deciduous or mixed woods along streams to often intermittent water courses, seepage slopes rich calcareous basin marsh/swamps with summer draw down.	Flowers July to October. Identifiable from June onward to October	Possible	S1	RED	2 May Be At Risk	-	37 ±0
<i>Carex alopecoidea</i>	Foxtail Sedge	Moist, overgrown clear-cut woods near the coast.	unknown for NS, found once 1992 along St. Georges Bay, east of Antigonish.	Unlikely	S1	RED	2 May Be At Risk	-	98 ±0.5
<i>Carex bebbii</i>	Bebb's Sedge	Northern alkaline regions in poorly drained soils.	June to August	Unlikely	S1S2	RED	2 May Be At Risk	-	42 ±0
<i>Carex castanea</i>	Chestnut Sedge	Swamps and wet meadows, cliff crevices and ledges.	Not given for NS, Summer. Seeds (perigynia ) required for identification	Unlikely	S2	RED	2 May Be At Risk	-	84 ±0
<i>Carex chordorrhiza</i>	Creeping Sedge	Spagnum bogs and shallow water.	Summer	Unlikely	S1	RED	2 May Be At Risk	-	100 ±10
<i>Carex garberi</i>	Garber's Sedge	Moist shores and meadows on calcareous soils.	Seeds (perigynia) required for identification. Can be identified from June through September.	Unlikely	S1	RED	2 May Be At Risk	-	17 ±0
<i>Carex haydenii</i>	Hayden's Sedge	Swamps.	July to September	Unlikely	S1	RED	2 May Be At Risk	-	29 ±1
<i>Carex hystericina</i>	Porcupine Sedge	Swamps, swales, and along brooks.	June to October	Possible	S2	RED	2 May Be At Risk	-	18 ±0
<i>Carex pellita</i>	Woolly Sedge	Swamps and bogs, often in wooded areas.	May to July	Possible	S1	RED	2 May Be At Risk	-	18 ±0

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<i>Carex peckii</i>	Peck's Sedge	Treated as variants of <i>C. nigromargiata</i> in the N.S. Flora. With <i>C. nigromarginata</i> claimed as abundant in Yarmouth and Shelburne Co.'s and scattered northwards despite the paucity of herbarium collections, and habitats characterized as dry to moist acidic soils, even drier knolls amid sphagnum bogs. In NB the species is known as <i>C. peckii</i> and is recorded as common on rocky slopes, clearings and dry woods, often on calcareous soils.	Late March to May	Unlikely	S2?	RED	2 May Be At Risk	-	25 ±0.1
<i>Carex plantaginea</i>	Plantain-Leaved Sedge	Dry, hardwood hillsides.	April to June	Possible	S1	RED	2 May Be At Risk	-	23 ±0.1
<i>Carex tinctoria</i>	Tinged Sedge	Rich soil, at edge of mixed woods in NS. Mist meadows, roadside ditches, borders and clearings in NB.	Not given for Nova Scotia	Possible	S1	RED	2 May Be At Risk	-	98 ±1
<i>Carex tuckermanii</i>	Tuckerman's Sedge	Swale.	June to August	Unlikely	S1	RED	2 May Be At Risk	-	17 ±0.1
<i>Vallisneria spiralis</i>	Wild Celery	Quiet waters.	Flowers July to October	Unlikely	S2	RED	2 May Be At Risk	-	45 ±1
<i>Iris prismatica</i>	Slender Blue Flag	Wet ground near the coast.	Mid-July.	Unlikely	S1	RED	2 May Be At Risk	-	84 ±10
<i>Juncus greenei</i>	Greene's Rush	Coastal sandy soils and dune hollows.	June to September	Unlikely	S1S2	RED	2 May Be At Risk	-	58 ±5
<i>Allium tricoccum</i>	Wild Leek	Rich deciduous forests and intervaleas.	Late July	Unlikely	S1	RED	2 May Be At Risk	-	11 ±0.1
<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper	The rough country of gypsum sinkholes.	Late May	Unlikely	S1	RED	2 May Be At Risk	-	100 ±0.1
<i>Cypripedium reginae</i>	Showy Lady's-Slipper	Alkaline swamps and bogs.	Flowers June through August., Can be identified some weeks prior to bloom and at least to early October.	Unlikely	S2	RED	2 May Be At Risk	-	20 ±10
<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain	Woodland and thickets. Usually found in dry or moist coniferous or mixed woods, often in a sandy substrate with oak or white pine.	July and August	Unlikely	S2	RED	2 May Be At Risk	-	68 ±1
<i>Listera australis</i>	Southern Twayblade	Among the shaded sphagnum moss of bogs or damp woods.	June. Quickly senesces after flowering.	Unlikely	S2	RED	2 May Be At Risk	-	87 ±0.1
<i>Malaxis brachypoda</i>	White Adder's-Mouth	Moss cushions and wet, mossy cliff-edges, where there is little competition from other plant species.	Late May and June.	Possible	S1	RED	2 May Be At Risk	-	80 ±1

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<i>Spiranthes lucida</i>	Shining Ladies'-Tresses	Alluvial soils and rocky shores. Thickets and meadows.	Flowers early July	Possible	S2	RED	2 May Be At Risk	-	17 ±0
<i>Bromus latiglumis</i>	Broad-Glumed Brome	Rich soils along Rivers.	recently described from NS	Unlikely	S1	RED	2 May Be At Risk	-	66 ±0
<i>Elymus wiegandii</i>	Wiegand's Wild Rye	Rich streambanks and meadows.	Flowers July and August, not readily noticeable until bloom	Possible	S1	RED	2 May Be At Risk	-	14 ±0
<i>Elymus hystrix</i>	Spreading Wild Rye	Wooded bottomlands.	June to August	Unlikely	S1	RED	2 May Be At Risk	-	98 ±0.1
<i>Elymus hystrix var. bigeloviana</i>	Spreading Wild Rye	Wooded bottomlands.	June to August	Unlikely	S1	RED	2 May Be At Risk	-	39 ±1
<i>Festuca subverticillata</i>	Nodding Fescue	Rich deciduous forested slopes and alluvial woods.	June and July (early)	Unlikely	S1	RED	2 May Be At Risk	-	59 ±5
<i>Adiantum pedatum</i>	Northern Maidenhair Fern	In fertile or quite alkaline soils. Under oak-birch-sugar maple-elm trees on intervaleas.	Summer	Unlikely	S1	RED	2 May Be At Risk	-	30 ±1
<i>Cryptogramma stelleri</i>	Steller's Rockbrake	Shaded limestone cliffs, and shaded crevices in conglomerate cliff-face.	Late May to September. Can be identified when sporangia are not present.	Unlikely	S1	RED	2 May Be At Risk	-	70 ±0
<i>Juncus vaseyi</i>	Vasey's Rush	Damp shores, thickets, etc. (Open wetland, not coastal nor rivershore, non-forested, wetland).	July to August	Unlikely	S1	UNDETERMINED	2 May Be At Risk	-	57 ±10
<i>Allium schoenoprasum var. sibiricum</i>	Wild Chives	Wet lowlands near the sea.	Flowers late June and July	Unlikely	S2	UNDETERMINED	2 May Be At Risk	-	31 ±10
<i>Najas gracillima</i>	Thread-Like Naiad	Muddy, peaty, or sandy ponds, pools, and shores.	Flowers July to October	Unlikely	S1S2	UNDETERMINED	2 May Be At Risk	-	99 ±0.1
<i>Potamogeton friesii</i>	Fries' Pondweed	Quiet waters of ponds and streams.	Flowers July and September	Unlikely	S2	UNDETERMINED	2 May Be At Risk	-	27 ±10
<i>Potamogeton richardsonii</i>	Richardson's Pondweed	Lakes and rivers, in brackish or alkaline waters.	Flowers July to September	Unlikely	S3?	UNDETERMINED	2 May Be At Risk	-	85 ±1
<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely	Rich deciduous forests, intervaleas.	Flowers late June to July.	Possible	S2	YELLOW	2 May Be At Risk	-	12 ±0.1
<i>Zizia aurea</i>	Golden Alexanders	Meadows, shores, damp thickets, and wet woods. Sometimes on roadsides.	May and June	Unlikely	S1	YELLOW	2 May Be At Risk	-	16 ±1
<i>Bidens hyperborea</i>	Estuary Beggarticks	Estuarine, on tidal mudflats.	August	Unlikely	S1	YELLOW	2 May Be At Risk	-	63 ±0
<i>Ageratina altissima</i>	White Snakeroot	Woods, thickets.	July to October.	Unlikely	S1	YELLOW	2 May Be At Risk	-	88 ±10
<i>Salix sericea</i>	Silky Willow	Low thickets and stream banks.	Late March to early May	Possible	S2	YELLOW	2 May Be At Risk	-	83 ±1
<i>Coeloglossum viride var. virescens</i>	Long-bracted Frog Orchid	Boggy spots, damp mature woods, and fir or floodplain forests.	May to August	Possible	S2S3	YELLOW	2 May Be At Risk	-	54 ±0.1

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<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Occurs on twigs of conifers in cool montane and coastal spruce-fir forests in eastern North America. It is very patchily distributed in New Brunswick and Nova Scotia, probably owing to dispersal limitations.		Unlikely	S2S3	-	3 Sensitive	SC	82 ±0
<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed	Wet savannas, sphagnum swales, and the sandy, gravelly, or muddy borders of lakes or ponds.	June to October. Can be identified when not in flower.	Unlikely	S3	GREEN	3 Sensitive	-	43 ±1
<i>Ranunculus flammula</i> var. <i>flammula</i>	Lesser Spearwort	Semi-aquatic, in bogs and cold streams.	July to September.	Unlikely	S2	GREEN	3 Sensitive	-	25 ±10
<i>Isoetes prototypus</i>	Prototype Quillwort	Deep water in nutrient poor, acidic lakes.	Summer. Megaspores required for identification.	Unlikely	S2	RED	3 Sensitive	SC	50 ±0.1
<i>Lactuca hirsuta</i> var. <i>sanguinea</i>	Hairy Lettuce	Dry open woods and cut-over areas.	July to September	Possible	S2	UNDETERMINED	3 Sensitive	-	94 ±10
<i>Juncus subcaudatus</i>	Woodland Rush	Wet boggy woods and openings in spruce swamps.	Flowers July to October	Unlikely	S3	UNDETERMINED	3 Sensitive	-	29 ±10
<i>Potamogeton praelongus</i>	White-stemmed Pondweed	Usually in deep water.	Flowers June and July, rarely found fruiting	Unlikely	S3?	UNDETERMINED	3 Sensitive	-	7 ±1
<i>Conioselinum chinense</i>	Chinese Hemlock-parsley	Swamps, mossy coniferous woods or swales, and seepy slopes near the coast.	August to October	Unlikely	S2	YELLOW	3 Sensitive	-	12 ±5
<i>Lilaeopsis chinensis</i>	Eastern Lilaeopsis	Muddy and rocky tidal banks, in estuaries.	July and August	Unlikely	S2	YELLOW	3 Sensitive	SC	63 ±0
<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane	Exposed gypsum outcrops, damp stream banks between flood levels, banks ledges and cliffs. Calcareous and low competition.	Flowers July and August but identifiable though less noticeable from May to October	Unlikely	S3	YELLOW	3 Sensitive	-	46 ±0
<i>Erigeron philadelphicus</i>	Philadelphia Fleabane	Old fields, meadows, and springy slopes.	Flowers June to August	Possible	S2	YELLOW	3 Sensitive	-	47 ±5
<i>Hieracium robinsonii</i>	Robinson's Hawkweed	Rock crevices and cliffs, cobble shores, and along streams.	Flowers July and August	Unlikely	S2	YELLOW	3 Sensitive	-	2 ±10
<i>Megalodonta beckii</i>	Water Beggarticks	Shallow, quiet waters, slow-moving streams, and ponds.	August and September	Unlikely	S3	YELLOW	3 Sensitive	-	33 ±0.5
<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower	Swales, the edges of swamps, or in gullies - in small colonies.	August, can be identified when not in flower.	Unlikely	S2S3	YELLOW	3 Sensitive	-	16 ±0
<i>Senecio pseudoarnica</i>	Seabeach Ragwort	Gravelly to somewhat sandy sea beaches.	Late July to August	Unlikely	S2	YELLOW	3 Sensitive	-	31 ±10
<i>Symphotrichum boreale</i>	Boreal Aster	Gravelly soil of lake beaches, along streams and the edges of bogs.	August and September	Unlikely	S2?	YELLOW	3 Sensitive	-	31 ±10
<i>Symphotrichum ciliolatum</i>	Fringed Blue Aster	Open fields, lawns and the edges of woods.	August and September	Possible	S2S3	YELLOW	3 Sensitive	-	18 ±0.1



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<i>Impatiens pallida</i>	Pale Jewelweed	Rich alluvial soils, damp thickets, and along intervalees.	July and August.	Unlikely	S2	YELLOW	3 Sensitive	-	90 ±10
<i>Betula michauxii</i>	Newfoundland Dwarf Birch	Peat and sphagnum bogs.	June and July, can be identified when not in flower.	Unlikely	S2	YELLOW	3 Sensitive	-	56 ±0.5
<i>Arabis drummondii</i>	Drummond's Rockcress	Usually on dry slopes and talus, but occasionally in more fertile locations at lower elevations.	May to July	Unlikely	S2	YELLOW	3 Sensitive	-	26 ±1
<i>Draba arabisans</i>	Rock Whitlow-Grass	Muddy soils or on calcareous rocks, in cliff crevices and ledges.	May to July	Unlikely	S2	YELLOW	3 Sensitive	-	98 ±1
<i>Campanula aparinoides</i>	Marsh Bellflower	Meadows, ditches and river banks.	August	Unlikely	S3	YELLOW	3 Sensitive	-	9 ±0
<i>Minuartia groenlandica</i>	Greenland Stitchwort	Granitic ledges and gravel, on coasts at higher elevations.	June to August	Unlikely	S2	YELLOW	3 Sensitive	-	77 ±0.1
<i>Stellaria humifusa</i>	Saltmarsh Starwort	Around salt marshes.	Flowers June to August	Unlikely	S1	YELLOW	3 Sensitive	-	100 ±0.1
<i>Stellaria longifolia</i>	Long-leaved Starwort	Damp or wet grassy places, in sandy or mucky soils.	May to June	Possible	S3	YELLOW	3 Sensitive	-	11 ±1
<i>Hypericum dissimulatum</i>	Disguised St John's-wort	On shores and damp open areas.	Not provided	Possible	S2S3	YELLOW	3 Sensitive	-	52 ±10
<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed	Rich soils of river intervalees, or rich forest on limestone.	Flowers in July but identifiable from at least June to October	Unlikely	S2	YELLOW	3 Sensitive	-	11 ±0.1
<i>Viburnum edule</i>	Squashberry	In cold woods and along streams. Characteristic of climax coniferous forest.	May to early August.	Possible	S3	YELLOW	3 Sensitive	-	5 ±0
<i>Shepherdia canadensis</i>	Soapberry	Gypsum or talus slopes and along the coast within reach of salt spray.	April to June. Can be identified when not in flower.	Unlikely	S2	YELLOW	3 Sensitive	-	100 ±1
<i>Vaccinium caespitosum</i>	Dwarf Bilberry	Rocky cliffs and rock crevices. Dry or wet acidic sites.	Not given for NS. Likely identifiable in early summer on to October	Unlikely	S2	YELLOW	3 Sensitive	-	25 ±1
<i>Halenia deflexa</i>	Spurred Gentian	Bleak, exposed headlands.	July to September	Unlikely	S2S3	YELLOW	3 Sensitive	-	94 ±1
<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil	Ponds and slow-moving streams.	Flowers June to September	Unlikely	S2	YELLOW	3 Sensitive	-	39 ±0.1
<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil	Shallow waters, mainly in fine, muddy, sediment, or calcareous regions.	Flowers late June to September	Unlikely	S2	YELLOW	3 Sensitive	-	100 ±10
<i>Hedeoma pulegioides</i>	American False Pennyroyal	Stony till and upland pastures, throughout northern part of NS. Near seashores occasionally.	August	Possible	S2S3	YELLOW	3 Sensitive	-	31 ±5
<i>Teucrium canadense</i>	Canada Germander	Gravelly seashores, generally at crest of beach, above direct tidal influence.	Flowers July to September when easiest to identify but identifiable from June to October	Unlikely	S3	YELLOW	3 Sensitive	-	29 ±5



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<i>Floerkea proserpinacoides</i>	False Mermaidweed	Deciduous ravine slopes, river margins, and intervale forests.	Late May to late June. Can be identified when not in flower.	Unlikely	S2	YELLOW	3 Sensitive	NAR	25 ±10
<i>Fraxinus nigra</i>	Black Ash	Low ground, damp woods and swamps.	May and June. Can be identified without flowers.	Possible	S2S3	YELLOW	3 Sensitive	-	10 ±0
<i>Epilobium coloratum</i>	Purple-veined Willowherb	Low-lying ground, springy slopes and similar locations.	July and October. Seeds required for identification.	Possible	S2?	YELLOW	3 Sensitive	-	34 ±1
<i>Epilobium strictum</i>	Downy Willowherb	Wet meadows, boggy swales and marshes.	July to September	Possible	S3	YELLOW	3 Sensitive	-	90 ±1
<i>Polygala sanguinea</i>	Blood Milkwort	Poor or acidic fields, damp slopes, and open woods or bush.	Late June to October.	Possible	S2S3	YELLOW	3 Sensitive	-	16 ±1
<i>Polygonum arifolium</i>	Halberd-leaved Tearthumb	Rich alluvial thickets and swamps.	Likely mid July to October but this annual is detectable with or without flowers	Possible	S2	YELLOW	3 Sensitive	-	42 ±0.1
<i>Polygonum scandens</i>	Climbing False Buckwheat	Low alluvial thickets along river intervales.	Flowers late August to October. Lacks ocrea without ring of bristles like <i>P. convolvulus</i> , fruit best for ID	Unlikely	S2	YELLOW	3 Sensitive	-	22 ±0
<i>Rumex salicifolius var. mexicanus</i>	Triangular-valve Dock	Beaches or along rivers.	Not Given, Summer	Unlikely	S2	YELLOW	3 Sensitive	-	57 ±10
<i>Primula mistassinica</i>	Mistassini Primrose	Springy stream banks and dripping ledges.	Flowers May to August	Unlikely	S2	YELLOW	3 Sensitive	-	22 ±0
<i>Samolus valerandi ssp. parviflorus</i>	Seaside Brookweed	Brackish meadows, tidal banks and the edge of salt marshes.	July to September.	Unlikely	S2	YELLOW	3 Sensitive	-	48 ±0
<i>Anemone quinquefolia</i>	Wood Anemone	Wooded riverbanks and shaded intervales.	Late May to early June.	Possible	S2	YELLOW	3 Sensitive	-	39 ±0.1
<i>Anemone virginiana</i>	Virginia Anemone	Intervales and stream sides. Calcareous and slaty ledges, shores and thickets.	Early July.	Unlikely	S2	YELLOW	3 Sensitive	-	100 ±1
<i>Anemone virginiana var. alba</i>	Virginia Anemone	Intervales and streamsides. Calcareous and slaty ledges, shores and thickets.	Early July.	Unlikely	S1S2	YELLOW	3 Sensitive	-	22 ±10
<i>Anemone virginiana var. virginiana</i>	Virginia Anemone	Intervales and streamsides. Calcareous and slaty ledges, shores and thickets.	Early July.	Unlikely	S2	YELLOW	3 Sensitive	-	38 ±10
<i>Caltha palustris</i>	Yellow Marsh Marigold	Relatively rich swamps wet meadows and wet woods. In damp seepage areas and along creeks.	Flowers in early June but can be identified fro early May to late October	Unlikely	S2	YELLOW	3 Sensitive	-	46 ±0.1
<i>Rhamnus alnifolia</i>	Alder-leaved Buckthorn	Calcareous bogs , swamps, swampy woods and meadows, marl bogs in rich aluvial soils.	Flowers mid -May to June. Identifiable from May to October and potentially year round.	Possible	S3	YELLOW	3 Sensitive	-	44 ±0

**Table 1 Vascular plants considered species at risk or species of conservation concern found within 100 km of the proposed Clydesdale Ridge Wind Farm**

Scientific Name	Common Name	Preferred Habitat	Season	Likely Onsite?	ACCDC Rank	Old NSDNR Rank	New NSDNR Rank	COSEWIC Rank	Distance (km)
<i>Salix pedicellaris</i>	Bog Willow	Acid bogs and sphagnum lake shores.	May to July.	Unlikely	S2	YELLOW	3 Sensitive	-	34 ±10
<i>Geocaulon lividum</i>	Northern Comandra	Sterile soils and damp sands, in acid or peaty locations, drier bog areas and mesic lichen barrens.	Late May to early August. Identifiable from May into October	Unlikely	S3	YELLOW	3 Sensitive	-	70 ±0
<i>Tiarella cordifolia</i>	Heart-leaved Foamflower	Rich deciduous and mixed woods.	Flowers mid-May to mid-June. Identifiable year round	Possible	S2	YELLOW	3 Sensitive	-	2 ±10
<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop	Usually in wet or muddy places.	May to October (fruit in August)	Possible	S1S2	YELLOW	3 Sensitive	-	38 ±10
<i>Limosella australis</i>	Southern Mudwort	Low areas by ponds, gravel lakeshores, the muddy edges of ponds behind barrier beaches and muddy river margins.	Late June to October.	Unlikely	S3	YELLOW	3 Sensitive	-	48 ±0
<i>Laportea canadensis</i>	Canada Wood Nettle	Alluvial woods of mixed or deciduous trees. Floodplains on the Cape Breton plateau. Only in the most fertile locations.	July to September. Can be identified without flowers.	Unlikely	S3	YELLOW	3 Sensitive	-	17 ±0
<i>Viola nephrophylla</i>	Northern Bog Violet	Cool mossy bogs, the borders of streams, and damp woods.	May to July.	Possible	S2	YELLOW	3 Sensitive	-	5 ±1
<i>Carex adusta</i>	Lesser Brown Sedge	Dry, open places. Rocky coastal, nonforested, upland.	June to September	Unlikely	S2S3	YELLOW	3 Sensitive	-	30 ±0.5
<i>Carex atratiformis</i>	Scabrous Black Sedge	Along riverbanks, moist cliffs, and associated rock crevices.	Summer	Unlikely	S2	YELLOW	3 Sensitive	-	96 ±1
<i>Carex capillaris</i>	Hairlike Sedge	Seepy, exposed slopes of cliffs.	Summer	Unlikely	S2	YELLOW	3 Sensitive	-	95 ±0.1
<i>Carex comosa</i>	Bearded Sedge	Swamps and shallow water.	June to August	Unlikely	S2	YELLOW	3 Sensitive	-	34 ±10
<i>Carex eburnea</i>	Bristle-leaved Sedge	Cliffs and talus slopes, under conifers, particularly on calcareous substrates.	Flowering time not given, summer	Unlikely	S3	YELLOW	3 Sensitive	-	49 ±0.1
<i>Carex hirtifolia</i>	Pubescent Sedge	Calcareous regions, in meadows and thickets, forest slopes.	Seeds (perigynia) required for identification. Can be identified from May through September.	Unlikely	S2S3	YELLOW	3 Sensitive	-	9 ±0
<i>Carex houghtoniana</i>	Houghton's Sedge	Sandy soils and roadside banks.	Seeds (perigynia) required for identification. Can be identified from May through September.	Possible	S2?	YELLOW	3 Sensitive	-	47 ±5
<i>Carex tenera</i>	Tender Sedge	Meadows, woodlands, and moist, dry openings.	Late May to August	Possible	S1S2	YELLOW	3 Sensitive	-	12 ±5
<i>Eleocharis olivacea</i>	Yellow Spikerush	Peaty muck of bogs, wet sandy shores, and swales.	June to October. Mature achenes required for identification.	Unlikely	S2	YELLOW	3 Sensitive	-	82 ±5

**Table 1 Vascular plants considered species at risk or species of conservation concern found within 100 km of the proposed Clydesdale Ridge Wind Farm**

Scientific Name	Common Name	Preferred Habitat	Season	Likely Onsite?	ACCDC Rank	Old NSDNR Rank	New NSDNR Rank	COSEWIC Rank	Distance (km)
<i>Eleocharis ovata</i>	Ovate Spikerush	Muddy shores and ditches.	Flowers/Fruit May to October	Possible	S2?	YELLOW	3 Sensitive	-	7 ±0.5
<i>Eriophorum gracile</i>	Slender Cottongrass	Wet peat and inundated shores.	Flowers and fruits early summer	Unlikely	S2	YELLOW	3 Sensitive	-	29 ±10
<i>Juncus marginatus</i>	Grass-leaved Rush	Coastal sandy soils and dune hollows.	June to September.	Unlikely	S3	YELLOW	3 Sensitive	-	95 ±10
<i>Juncus stygius ssp. americanus</i>	Moor Rush	Open areas in wet moss, bogs and bog pools.	July and August	Unlikely	S1S2	YELLOW	3 Sensitive	-	95 ±0.1
<i>Juncus dudleyi</i>	Dudley's Rush	Marshy ground.	June to September	Possible	S2?	YELLOW	3 Sensitive	-	29 ±0
<i>Lilium canadense</i>	Canada Lily	Rich river or stream intervalle meadows and forest.	Flowers in July but identifiable from May to October	Unlikely	S2S3	YELLOW	3 Sensitive	-	10 ±0
<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper	Most often associated with gypsum or open calcareous soils.	Flowers in June. Plant identifiable from late May to October	Possible	S2S3	YELLOW	3 Sensitive	-	20 ±10
<i>Cypripedium parviflorum var. pubescens</i>	Yellow Lady's-slipper	Rich calcareous woodlands, also in drier sections of seepage fed wetlands or old beaver pond woodland.	Flowers in June. Plant identifiable from late May to October	Possible	S2	YELLOW	3 Sensitive	-	26 ±10
<i>Goodyera repens</i>	Lesser Rattlesnake-plantain	Under conifers, growing with very few other plants.	Flowers July and August	Unlikely	S3	YELLOW	3 Sensitive	-	84 ±0.1
<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid	Rich old deciduous or mixed woods.	August	Possible	S2	YELLOW	3 Sensitive	-	21 ±1
<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses	Characteristic of the driest sand barrens in southwestern counties. Also near rivers and in dry habitats such as roadsides and fields.	September to October	Possible	S2	YELLOW	3 Sensitive	-	78 ±1
<i>Alopecurus aequalis</i>	Short-awned Foxtail	Muddy margins of rivers and shallow ponds, and gravel margins where competitor species are few.	Summer	Possible	S2S3	YELLOW	3 Sensitive	-	25 ±1
<i>Calamagrostis stricta</i>	Slim-stemmed Reed Grass	Around lakes and bogs, wet cliff-faces.	Not given for NS	Unlikely	S1S2	YELLOW	3 Sensitive	-	95 ±0.1
<i>Calamagrostis stricta ssp. stricta</i>	Slim-stemmed Reed Grass	Around lakes and bogs, wet cliff faces, and landward edges of saltmarshes.	Flowering time not given, summer	Unlikely	S1S2	YELLOW	3 Sensitive	-	96 ±1
<i>Dichanthelium linearifolium</i>	Narrow-leaved Panic Grass	Dry sandy soils.	July to October.	Unlikely	S2?	YELLOW	3 Sensitive	-	28 ±10
<i>Piptatherum canadense</i>	Canada Rice Grass	Dry sandy soils.	Not provided	Unlikely	S2	YELLOW	3 Sensitive	-	35 ±1
<i>Panicum tuckermanii</i> or <i>Panicum philadelphicum</i>	Tuckerman's Panic Grass	Floodplains, sandy shores (further west), cranberry bogs.	June to October	Unlikely	S2S3	YELLOW	3 Sensitive	-	43 ±0
<i>Poa glauca</i>	Glaucous Blue Grass	Cliff crevices, on shelves, and talus slopes.	July and August. Can be identified post flowering until early October.	Unlikely	S2S3	YELLOW	3 Sensitive	-	92 ±1
<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	Ponds, lakes, and slow-moving streams, often on a substrate of deep muck.	Flowers July to September	Unlikely	S2S3	YELLOW	3 Sensitive	-	56 ±0
<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed	Lakes and deep rivers in less acid regions.	July to September. Can be identified when not in flower.	Unlikely	S2S3	YELLOW	3 Sensitive	-	45 ±5

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Scientific Name	Common Name	Preferred Habitat	Season	Likely Onsite?	ACCDC Rank	Old NSDNR Rank	New NSDNR Rank	COSEWIC Rank	Distance (km)
<i>Asplenium trichomanes-ramosum</i>	Green Spleenwort	Shaded cliffs along streams, on limestone or other basic rocks.	Can be identified without sprangia.	Unlikely	S2	YELLOW	3 Sensitive	-	52 ±10
<i>Dryopteris fragrans var. remotiuscula</i>	Fragrant Wood Fern	Dry, overhanging cliffs, and in cliff crevices along streams or near waterfalls.	June to September. Can be identified without sporangia.	Unlikely	S2	YELLOW	3 Sensitive	-	17 ±10
<i>Woodsia glabella</i>	Smooth Cliff Fern	Shaded vertical cliffs, and along streams in northern Cape Breton.	Spores form June to August. Can be identified without sporangia.	Unlikely	S2	YELLOW	3 Sensitive	-	43 ±10
<i>Equisetum pratense</i>	Meadow Horsetail	Open woods and wet meadows, usually in circumneutral soils.	Identifiable throughout the growing season	Possible	S2	YELLOW	3 Sensitive	-	21 ±0.1
<i>Isoetes acadiensis</i>	Acadian Quillwort	Water up to 1 m deep, bordering lakes or ponds, and occasionally along rivers.	Megaspores required for identification.	Unlikely	S3	YELLOW	3 Sensitive	-	40 ±1
<i>Botrychium lanceolatum var. angustisegmentum</i>	Triangle Moonwort	Rich, wooded hillsides.	July and August. Can be identified until early October if sporophore is present.	Possible	S2S3	YELLOW	3 Sensitive	-	4 ±1
<i>Botrychium simplex</i>	Least Moonwort	Usually on lakeshores or the mossy edges of streams or waterfalls although it has been reported in a wide variety of habitats.	Late May and June	Possible	S2S3	YELLOW	3 Sensitive	-	39 ±0
<i>Ophioglossum pusillum</i>	Northern Adder's-tongue	Sterile meadows, grassy swamps, and damp, sandy, or cobbly beaches of lakes.	Late May to August. Can be identified until early October if stipe and sporangia are present.	Possible	S2S3	YELLOW	3 Sensitive	-	96 ±10
<i>Platanthera flava</i>	Tuberclad Orchid	Sandy or gravelly beaches, wet peat, and lake or river margins. Bogs, swamps, and Meadows.	May to August	Possible	S2	YELLOW	3 Sensitive	-	12 ±10
<i>Platanthera flava var. herbiola</i>	Tuberclad Orchid	Sandy or gravelly beaches, wet peat, and lake or river margins. Bogs, swamps, and meadows.	May to August	Possible	S1S2	UNDETERMINED	4 Secure	-	15 ±0
<i>Utricularia gibba</i>	Humped Bladderwort	Shallow lake margins, small pools and small ponds in quagmires or peaty situations.	Late June to September. Can be identified without flowers, but is very cryptic.	Unlikely	S3S4	YELLOW	4 Secure	-	63 ±10
<i>Carex vacillans</i>	Estuarine Sedge	Saline, brackish shores, swales, salt and intertidal marshes. Tidal wetland (non-forested wetland).	June through August	Unlikely	S1S3	-	5 Undetermined	-	98 ±0.5
<i>Asclepias incarnata ssp. pulchra</i>	Swamp Milkweed	Swamps, thickets and on shores.	Flowers in early August	Possible	S2S3	GREEN	5 Undetermined	-	59 ±1

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Scientific Name	Common Name	Preferred Habitat	Likely Onsite?	ACCDC Rank	Old NSDNR Rank	New NSDNR Rank	COSEWIC Rank	Distance (km)
<i>Histrionicus histrionicus pop. 1</i>	Harlequin Duck - Eastern pop.	Mountain streams and rivers, usually in forested regions; in winter, primarily turbulent coastal waters, especially in rocky regions.	Unlikely	S2N	YELLOW	1 At Risk	SC	97 ±10
<i>Bucephala islandica (Eastern pop.)</i>	Barrow's Goldeneye (Eastern pop.)	Breeds along lakes in parkland, especially alkaline lakes. Winters along rocky coasts.	Unlikely	S1N	YELLOW	1 At Risk	SC	36 ±0.1
<i>Calidris canutus rufa</i>	Red Knot rufa ssp	Breeds in drier tundra areas, such as sparsely vegetated hillsides. Outside of breeding season, it is found primarily in intertidal, marine habitats, especially near coastal inlets, estuaries, and bays.	Unlikely	S2S3M	YELLOW	1 At Risk	E	100 ±0.5
<i>Sterna dougallii</i>	Roseate Tern	Few islands off the Atlantic coast of Nova Scotia. Found in colonies.	Unlikely	S1B	RED	1 At Risk	E	91 ±1
<i>Caprimulgus vociferus</i>	Whip-Poor-Will	Breeds in deciduous or mixed forests with little or no underbrush.	Possible	S1?B	GREEN	1 At Risk	T	63 ±5
<i>Catharus bicknelli</i>	Bicknell's Thrush	Breeds in montane fir and spruce forests, usually associated with recently disturbed areas.	Unlikely	S1S2B	YELLOW	1 At Risk	T	73 ±5
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	Various wetland habitats, including salt, brackish, and freshwater marshes, swamps, streams, lakes, and agricultural fields.	Unlikely	S1B	YELLOW	2 May Be At Risk	-	90 ±5
<i>Anas acuta</i>	Northern Pintail	Salt and freshwater marshes, occasionally on Sable Island and most frequently in the Amherst region.	Unlikely	S2B	GREEN	2 May Be At Risk	-	100 ±10
<i>Anas clypeata</i>	Northern Shoveler	Breeds in open, shallow wetlands. In winter, inhabits both freshwater and saline marshes.	Unlikely	S2B	GREEN	2 May Be At Risk	-	46 ±5
<i>Anas strepera</i>	Gadwall	Marsh	Unlikely	S2B	GREEN	2 May Be At Risk	-	73 ±5
<i>Sterna paradisaea</i>	Arctic Tern	Coastal islands, beaches and salt marshes. May occasionally nest on islands in lakes.	Unlikely	S3B	YELLOW	2 May Be At Risk	-	83 ±5
<i>Chlidonias niger</i>	Black Tern	Freshwater marshes.	Unlikely	S1B	GREEN	2 May Be At Risk	NAR	95 ±0.1
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	Moist thickets in low overgrown pastures and orchards; also occurs in thicker undergrowth and sparse woodlands.	Unlikely	S3?B	GREEN	2 May Be At Risk	-	18 ±5
<i>Asio otus</i>	Long-eared Owl	Various woodland habitats as well as open habitats.	Possible	S2	GREEN	2 May Be At Risk	-	29 ±0.1
<i>Asio flammeus</i>	Short-eared Owl	Nests on the ground in open country. An open hayfield is often chosen as a nest site.	Unlikely	S1S2	YELLOW	2 May Be At Risk	SC	43 ±10
<i>Myiarchus crinitus</i>	Great Crested Flycatcher	Found in open deciduous forest.	Possible	S2B	GREEN	2 May Be At Risk	-	15 ±5
<i>Progne subis</i>	Purple Martin	Breeds near human settlements where nest houses are provided, especially near water and large open areas.	Unlikely	S1B	RED	2 May Be At Risk	-	65 ±5
<i>Pooecetes gramineus</i>	Vesper Sparrow	Grasslands.	Possible	S2S3B	YELLOW	2 May Be At Risk	-	2 ±5
<i>Euphagus carolinus</i>	Rusty Blackbird	Boreal forest; forest wetlands, such as slowmoving streams, peat bogs, sedge meadows, marshes, swamps, beaver ponds and pasture edges.	Possible	S2S3B	YELLOW	2 May Be At Risk	SC	12 ±5
<i>Icterus galbula</i>	Baltimore Oriole	Edges of deciduous and mixed wood forests.	Unlikely	S2S3B	GREEN	2 May Be At Risk	-	20 ±5
<i>Pluvialis dominica</i>	American Golden-Plover	Breeds on Arctic tundra, especially in low vegetation on rocky slopes. Winters in grazed grasslands. On migration found in prairie, pastures, tilled farmland, golf courses, airports, mudflats, shorelines, and beaches.	Unlikely	S3M	GREEN	3 Sensitive	-	30 ±0.5
<i>Tringa melanoleuca</i>	Greater Yellowlegs	Freshwater ponds and tidal marshes.	Unlikely	S3B,S5M	GREEN	3 Sensitive	-	35 ±5
<i>Numenius phaeopus</i>	Whimbrel	Breeds in various tundra habitat, from wet lowlands to dry heath. In migration, frequents various coastal and inland habitats, including fields and beaches. Winters in tidal flats and shorelines, occasionally visiting inland habitats.	Unlikely	S3M	GREEN	3 Sensitive	-	25 ±0.5
<i>Limosa haemastica</i>	Hudsonian Godwit	Breeds near treeline, where tundra, open woods, and ponds come together. Typically found on marshy lakes, wet pastures, and mudflats around ponds.	Unlikely	S3M	UNDETERMINED	3 Sensitive	-	100 ±0.5



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<i>Calidris maritima</i>	Purple Sandpiper	Breeds along low tundra near shorelines, as well as gravel beaches along rivers. Winters along rocky coastlines and man-made jetties.	Unlikely	S3N	YELLOW	3 Sensitive	-	31 ±0.5
<i>Phalaropus lobatus</i>	Red-necked Phalarope	Along edges of major ocean currents.	Unlikely	S2S3M	GREEN	3 Sensitive	-	45 ±0.5
<i>Sterna hirundo</i>	Common Tern	Coastal and freshwater islands, coastal beaches and salt marshes.	Unlikely	S3B	YELLOW	3 Sensitive	NAR	19 ±5
<i>Empidonax traillii</i>	Willow Flycatcher	Breeds in moist, shrubby areas, often with standing or running water. Winters in shrubby clearings and early successional growth.	Unlikely	S2B	ACCIDENTAL	3 Sensitive	-	96 ±0.1
<i>Sayornis phoebe</i>	Eastern Phoebe	Found in woodlands and along forest edges, often near water.	Possible	S3S4B	GREEN	3 Sensitive	-	8 ±5
<i>Sialia sialis</i>	Eastern Bluebird	Open woodlands, clearings, farmlands, parks, orchards, gardens, fields, along roadsides on utility wires and fences.	Unlikely	S3B	YELLOW	3 Sensitive	NAR	15 ±0.1
<i>Passerculus sandwichensis princeps</i>	Savannah Sparrow princeps ssp	Grasslands.	Unlikely	S1B	GREEN	3 Sensitive	SC	93 ±0.1
<i>Dolichonyx oryzivorus</i>	Bobolink	Fields with dense grass cover, particularly hay fields.	Unlikely	S3S4B	YELLOW	3 Sensitive	T	9 ±5
<i>Accipiter gentilis</i>	Northern Goshawk	Various forest types, especially mature forest	Possible	S3S4B	YELLOW	4 Secure	NAR	15 ±5
<i>Rallus limicola</i>	Virginia Rail	Freshwater marshes; occasionally inhabits salt marshes. Lives in dense emergent vegetation.	Unlikely	S2B	GREEN	5 Undetermined	-	19 ±5
<i>Gallinula chloropus</i>	Common Moorhen	Freshwater or brackish marshes with tall emergent vegetation, ponds.	Unlikely	S1B	GREEN	5 Undetermined	-	25 ±5
<i>Fulica americana</i>	American Coot	Lakes and ponds.	Unlikely	S1B	GREEN	5 Undetermined	NAR	19 ±5
<i>Aegolius funereus</i>	Boreal Owl	Lives in boreal forests with spruce, aspen, poplar, birch, and balsam fir.	Unlikely	S1B	GREEN	5 Undetermined	NAR	33 ±0.1
<i>Picoides dorsalis</i>	American Three-toed Woodpecker	Boreal and montane coniferous forests, especially mature forests with abundance of insect-infested snags or dying trees, and spruce forests. Uses forests disturbed by disease, fire, or other disasters.	Unlikely	S1S2	GREEN	5 Undetermined	-	99 ±5
<i>Cistothorus palustris</i>	Marsh Wren	Nests in variety of marshes, especially with dense reeds.	Unlikely	S1B	GREEN	5 Undetermined	-	96 ±5
<i>Hylocichla mustelina</i>	Wood Thrush	Interior as well as the edges of deciduous and mixed forests, often near water.	Possible	S1B	GREEN	5 Undetermined	-	2 ±5
<i>Toxostoma rufum</i>	Brown Thrasher	Breeds in brushy open country, thickets, shelter belts, riparian areas, and suburbs.	Unlikely	S1?B	GREEN	5 Undetermined	-	28 ±5
<i>Vireo gilvus</i>	Warbling Vireo	Riparian woodlands.	Possible	S1?B	GREEN	5 Undetermined	-	79 ±5
<i>Vireo philadelphicus</i>	Philadelphia Vireo	Young deciduous woods.	Possible	S2?B	GREEN	5 Undetermined	-	22 ±0.1
<i>Piranga olivacea</i>	Scarlet Tanager	Common in deciduous or mixed forests.	Possible	S2B	GREEN	5 Undetermined	-	20 ±5
<i>Passerina cyanea</i>	Indigo Bunting	Breeds in brushy and weedy areas along edges of cultivated land, woods, roads, power line rights-of-way, and in open deciduous woods and old fields. Winters in weedy fields, citrus orchards, and weedy cropland.	Unlikely	S1S2B	GREEN	5 Undetermined	-	38 ±5
<i>Alces americanus</i>	Moose	Woodlands providing both mature softwood cover and young hardwood browse. Also swamps, bogs and lakeshores, generally remote from human habitation.	Possible	S1	RED	7 Exotic	Endangered	8 ±10
<i>Acipenser oxyrinchus</i>	Atlantic Sturgeon	Anadromous fish that spawn in moderately flowing water in deep parts of large rivers. Subadults and adults live in coastal waters and estuaries when not spawning, generally in	Unlikely	S1?	RED		T	61 ±10
<i>Salmo salar pop. 1</i>	Atlantic Salmon - inner Bay of Fundy pops	Anadromous fish that spawn in fresh water, but spends much of its life at sea (Bay of Fundy).	Possible	S2	RED		E	12 ±10
<i>Morone saxatilis</i>	Striped Bass	Estuaries and coastal waters.	Unlikely	S1	RED		T	69 ±10

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<i>Sorex dispar</i>	Long-tailed Shrew	Prefer talus slopes and rock slides in both deciduous and coniferous forests. They also inhabit the subterranean tunnels that occur in the rocky crevices between boulders and sometimes have been taken beneath moss-covered logs in damp coniferous forests.	Unlikely	S1	YELLOW		-	53 ±10
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	The little brown bat lives along streams and lakes. It forms nursery colonies in buildings. In the winter it hibernates in caves and mines.	Possible	S2	YELLOW		-	53 ±10
<i>Perimyotis subflavus</i>	Eastern Pipistrelle	They are not often found in buildings or in deep woods, seeming to prefer edge habitats near areas of mixed agricultural use.	Unlikely	S1?	YELLOW		-	51 ±5
<i>Lasiurus cinereus</i>	Hoary Bat	Hoary bats are thought to prefer trees at the edge of clearings, but have been found in trees in heavy forests, open wooded glades, and shade trees along urban streets and in city parks.	Unlikely	S2?	UNDETERMINED		-	84 ±10
<i>Glyptemys insculpta</i>	Wood Turtle	Found along streams and wetlands. Gravel bars, tall shrub swamps, deep pools in wetlands.	Possible	S3	YELLOW		T	13 ±1
<i>Hemidactylium scutatum</i>	Four-toed Salamander	Swamps and bogs with pools surrounded by sphagnum moss.	Unlikely	S3	GREEN	-	NAR	100 ±0.1





**Table 3 Vascular Plant Inventory for Clydesdale Ridge Wind Farm Project Study Area**

Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Abies balsamea</i>	Balsam Fir	S5	Secure
<i>Abies x phanerolepis</i>	a Hybrid Fir	S4?	Secure
<i>Acer pensylvanicum</i>	Striped Maple	S5	Secure
<i>Acer rubrum</i>	Red Maple	S5	Secure
<i>Acer saccharum</i>	Sugar Maple	S5	Secure
<i>Acer spicatum</i>	Mountain Maple	S5	Secure
<i>Achillea millefolium</i>	Common Yarrow	S5	Secure
<i>Actaea pachypoda</i>	White Baneberry	S4	Secure
<i>Actaea rubra</i>	Red Baneberry	S5	Secure
<i>Agrimonia striata</i>	Woodland Agrimony	S5	Secure
<i>Agrostis capillaris</i>	Colonial Bent Grass	SNA	Exotic
<i>Agrostis gigantea</i>	Redtop	SNA	Exotic
<i>Agrostis perennans</i>	Upland Bent Grass	S4S5	Secure
<i>Agrostis scabra</i>	Rough Bent Grass	S5	Secure
<i>Agrostis stolonifera</i>	Creeping Bent Grass	S5	Secure
<i>Alnus incana</i>	Speckled Alder	S5	Secure
<i>Alnus viridis</i>	Green Alder	S5	Secure
<i>Amelanchier sp.</i>	a Serviceberry	na	na
<i>Anaphalis margaritacea</i>	Pearly Everlasting	S5	Secure
<i>Antennaria howellii ssp. neodioica</i>	Howell's Pussytoes	S5	Secure
<i>Anthoxanthum odoratum</i>	Large Sweet Vernal Grass	SNA	Exotic
<i>Apocynum androsaemifolium</i>	Spreading Dogbane	S5	Secure
<i>Aquilegia vulgaris</i>	European Columbine	SNA	Exotic
<i>Aralia hispida</i>	Bristly Sarsaparilla	S5	Secure
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S5	Secure
<i>Arctium minus</i>	Lesser Burdock	SNA	Exotic
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	S4S5	Secure
<i>Athyrium filix-femina</i>	Common Lady Fern	S5	Secure
<i>Barbarea vulgaris</i>	Yellow Rocket	SNA	Exotic
<i>Bartonia paniculata</i>	Branched Bartonia	S4S5	Secure
<i>Betula alleghaniensis</i>	Yellow Birch	S5	Secure
<i>Betula papyrifera</i>	Paper Birch	S5	Secure
<i>Betula papyrifera var. cordifolia</i>	Heart-leaved Birch	S5	Secure
<i>Betula populifolia</i>	Gray Birch	S5	Secure
<i>Bidens frondosa</i>	Devil's Beggarticks	S5	Secure
<i>Botrychium virginianum</i>	Rattlesnake Fern	S4	Secure
<i>Brachyelytrum septentrionale</i>	Northern Shorthusk	S5	Secure
<i>Bromus ciliatus</i>	Fringed Brome	S5	Secure
<i>Calamagrostis canadensis</i>	Bluejoint Reed Grass	S5	Secure
<i>Callitriche sp.</i>	Water-Starwort	na	na
<i>Cardamine diphylla</i>	Two-leaved Toothwort	S4	Secure
<i>Cardamine pensylvanica</i>	Pennsylvania Bittercress	S5	Secure
<i>Carex arctata</i>	Drooping Woodland Sedge	S5	Secure
<i>Carex brunnescens</i>	Brownish Sedge	S5	Secure
<i>Carex canescens</i>	Hoary Sedge	S5	Secure
<i>Carex communis</i>	Fibrous-Root Sedge	S5	Secure
<i>Carex crawfordii</i>	Crawford's Sedge	S5	Secure
<i>Carex crinita</i>	Fringed Sedge	S5	Secure
<i>Carex debilis</i>	White-edged Sedge	S5	Secure
<i>Carex deflexa</i>	Northern Sedge	S4	Secure
<i>Carex deweyana</i>	Dewey's Sedge	S5	Secure
<i>Carex disperma</i>	Two-seeded Sedge	S5	Secure
<i>Carex echinata</i>	Star Sedge	S5	Secure
<i>Carex flava</i>	Yellow Sedge	S5	Secure
<i>Carex gracillima</i>	Graceful Sedge	S4S5	Secure
<i>Carex gynandra</i>	Nodding Sedge	S5	Secure
<i>Carex interior</i>	Inland Sedge	S4S5	Secure
<i>Carex intumescens</i>	Bladder Sedge	S5	Secure
<i>Carex lasiocarpa</i>	Slender Sedge	S5	Secure
<i>Carex lenticularis</i>	Shore Sedge	S4	Secure
<i>Carex leptalea</i>	Bristly-stalked Sedge	S5	Secure
<i>Carex leptoneuria</i>	Finely-Nerved Sedge	S5	Secure
<i>Carex lucorum</i>	Forest Sedge	S4	Secure

**Table 3 Vascular Plant Inventory for Clydesdale Ridge Wind Farm Project Study Area**

Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Carex lurida</i>	Sallow Sedge	S5	Secure
<i>Carex megellanica</i> ssp. <i>Irrigua</i>	A Sedge	S5	Secure
<i>Carex novae-angliae</i>	New England Sedge	S5	Secure
<i>Carex pallescens</i>	Pale Sedge	S5	Secure
<i>Carex projecta</i>	Necklace Sedge	S5	Secure
<i>Carex pseudocyperus</i>	Cyperuslike Sedge	S4S5	Secure
<i>Carex radiata</i>	Eastern Star Sedge	S4	Secure
<i>Carex rosea</i>	Rosy Sedge	S3	Secure
<i>Carex scabrata</i>	Rough Sedge	S5	Secure
<i>Carex scoparia</i>	Broom Sedge	S5	Secure
<i>Carex</i> sp.	a Sedge	na	na
<i>Carex stipata</i>	Awl-fruited Sedge	S5	Secure
<i>Carex stricta</i>	Tussock Sedge	S5	Secure
<i>Carex torta</i>	Twisted Sedge	S5	Secure
<i>Carex tribuloides</i>	Blunt Broom Sedge	S3?	Secure
<i>Carex trisperma</i>	Three-seeded Sedge	S5	Secure
<i>Centaurea nigra</i>	Black Knapweed	SNA	Exotic
<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	Common Chickweed	SNA	Exotic
<i>Chamerion angustifolium</i>	Fireweed	S5	Secure
<i>Chelone glabra</i>	White Turtlehead	S5	Secure
<i>Chrysosplenium americanum</i>	American Golden Saxifrage	S5	Secure
<i>Cinna latifolia</i>	Drooping Wood Reed Grass	S5	Secure
<i>Circaea alpina</i>	Small Enchanter's Nightshade	S5	Secure
<i>Cirsium arvense</i>	Canada Thistle	SNA	Exotic
<i>Cladium mariscoides</i>	Smooth Twigrush	S5	Secure
<i>Claytonia caroliniana</i>	Carolina Spring Beauty	S4	Secure
<i>Clematis virginiana</i>	Virginia Clematis	S5	Secure
<i>Clintonia borealis</i>	Yellow Bluebead Lily	S5	Secure
<i>Coptis trifolia</i>	Goldthread	S5	Secure
<i>Corallorhiza trifida</i>	Early Coralroot	S3	Secure
<i>Cornus alternifolia</i>	Alternate-leaved Dogwood	S5	Secure
<i>Cornus canadensis</i>	Bunchberry	S5	Secure
<i>Corylus cornuta</i>	Beaked Hazel	S5	Secure
<i>Crataegus monogyna</i>	English Hawthorn	SNA	Exotic
<i>Cypripedium acaule</i>	Pink Lady's-Slipper	S5	Secure
<i>Cystopteris fragilis</i>	Fragile Fern	S4	Secure
<i>Dactylis glomerata</i>	Orchard Grass	SNA	Exotic
<i>Danthonia compressa</i>	Flattened Oat Grass	S5	Secure
<i>Danthonia spicata</i>	Poverty Oat Grass	S5	Secure
<i>Daucus carota</i>	Queen Anne's Lace	SNA	Exotic
<i>Dennstaedtia punctilobula</i>	Eastern Hay-Scented Fern	S5	Secure
<i>Deparia acrostichoides</i>	Silvery Glade Fern	S4	Secure
<i>Dianthus armeria</i>	Deptford Pink	SNA	Exotic
<i>Dicentra cucullaria</i>	Dutchman's Breeches	S4	Secure
<i>Dichanthelium acuminatum</i>	Woolly Panic Grass	S5	Secure
<i>Dichanthelium boreale</i>	Northern Panic Grass	S5	Secure
<i>Diervilla lonicera</i>	Northern Bush Honeysuckle	S5	Secure
<i>Doellingeria umbellata</i>	Hairy Flat-top White Aster	S5	Secure
<i>Drosera intermedia</i>	Spoon-Leaved Sundew	S5	Secure
<i>Drosera rotundifolia</i>	Round-leaved Sundew	S5	Secure
<i>Dryopteris campyloptera</i>	Mountain Wood Fern	S5	Secure
<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	S5	Secure
<i>Dryopteris cristata</i>	Crested Wood Fern	S5	Secure
<i>Dryopteris intermedia</i>	Evergreen Wood Fern	S5	Secure
<i>Dryopteris x triploidea</i>	a Hybrid Wood-fern	SNA	Not Assessed
<i>Eleocharis acicularis</i>	Needle Spikerush	S5	Secure
<i>Eleocharis obtusa</i>	Blunt Spikerush	S5	Secure
<i>Elymus repens</i>	Quackgrass	SNA	Exotic
<i>Epilobium ciliatum</i>	Northern Willowherb	S5	Secure
<i>Epilobium leptophyllum</i>	Bog Willowherb	S5	Secure
<i>Epilobium palustre</i>	Marsh Willowherb	S5	Secure
<i>Epilobium</i> sp.	Willow-Herb	na	na
<i>Epipactis helleborine</i>	Helleborine	SNA	Exotic

**Table 3 Vascular Plant Inventory for Clydesdale Ridge Wind Farm Project Study Area**

Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Equisetum arvense</i>	Field Horsetail	S5	Secure
<i>Equisetum sylvaticum</i>	Woodland Horsetail	S5	Secure
<i>Erechtites hieraciifolia</i>	Eastern Burnweed	S5	Secure
<i>Erigeron annuus</i>	Annual Fleabane	S4S5	Secure
<i>Erigeron strigosus</i>	Rough Fleabane	S5	Secure
<i>Eriophorum virginicum</i>	Tawny Cottongrass	S5	Secure
<i>Erythronium americanum</i>	Yellow Trout Lily	S4S5	Secure
<i>Eupatorium maculatum</i>	Spotted Joe-pye-weed	S5	Secure
<i>Eupatorium perfoliatum</i>	Common Boneset	S5	Secure
<i>Euphrasia disjuncta</i>	Disjunct Eyebright	SNA	Exotic
<i>Euphrasia nemorosa</i>	Common Eyebright	S5	Secure
<i>Euphrasia stricta</i>	Stiff Eyebright	SNA	Exotic
<i>Eurybia macrophylla</i>	Large-leaved Aster	S5	Secure
<i>Eurybia radula</i>	Low Rough Aster	S5	Secure
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	S5	Secure
<i>Fagus grandifolia</i>	American Beech	S5	Secure
<i>Festuca filiformis</i>	Hair Fescue	SNA	Exotic
<i>Festuca rubra</i>	Red Fescue	S5	Secure
<i>Fragaria vesca</i>	Woodland Strawberry	S4	Secure
<i>Fragaria virginiana</i>	Wild Strawberry	S5	Secure
<i>Fraxinus americana</i>	White Ash	S5	Secure
<i>Fraxinus nigra</i>	Black Ash	S2S3	Sensitive
<i>Galeopsis tetrahit</i>	Common Hemp-nettle	SNA	Exotic
<i>Galium asprellum</i>	Rough Bedstraw	S5	Secure
<i>Galium mollugo</i>	Smooth Bedstraw	SNA	Exotic
<i>Galium palustre</i>	Common Marsh Bedstraw	S5	Secure
<i>Galium tinctorium</i>	Dyer's Bedstraw	S5	Secure
<i>Galium trifidum</i>	Three-petaled Bedstraw	S5	Secure
<i>Galium triflorum</i>	Three-flowered Bedstraw	S5	Secure
<i>Gaultheria hispidula</i>	Creeping Snowberry	S5	Secure
<i>Geranium robertianum</i>	Herb Robert	S4	Secure
<i>Geum macrophyllum</i>	Large-Leaved Avens	S5	Secure
<i>Geum rivale</i>	Water Avens	S5	Secure
<i>Glyceria borealis</i>	Northern Manna Grass	S5	Secure
<i>Glyceria canadensis</i>	Canada Manna Grass	S5	Secure
<i>Glyceria grandis</i>	Common Tall Manna Grass	S4S5	Secure
<i>Glyceria melicaria</i>	Slender Manna Grass	S4	Secure
<i>Glyceria striata</i>	Fowl Manna Grass	S5	Secure
<i>Gnaphalium uliginosum</i>	Marsh Cudweed	SNA	Exotic
<i>Gymnocarpium dryopteris</i>	Common Oak Fern	S5	Secure
<i>Hepatica nobilis</i>	Round-leaved Hepatica	S1	May be at-risk
<i>Hieracium aurantiacum</i>	Orange Hawkweed	SNA	Exotic
<i>Hieracium caespitosum</i>	Field Hawkweed	SNA	Exotic
<i>Hieracium canadense</i>	Canada Hawkweed	S4S5	Secure
<i>Hieracium lachenalii</i>	Common Hawkweed	SNA	Exotic
<i>Hieracium paniculatum</i>	Panicled Hawkweed	S3	Secure
<i>Hieracium pilosella</i>	Mouse-ear Hawkweed	SNA	Exotic
<i>Hieracium piloselloides</i>	Tall Hawkweed	SNA	Exotic
<i>Hieracium sabaudum</i>	New England Hawkweed	SNA	Exotic
<i>Hieracium scabrum</i>	Rough Hawkweed	S5	Secure
<i>Hieracium sp.</i>	a Hawkweed	na	na
<i>Hieracium x floribundum</i>	Smoothish Hawkweed	SNA	Exotic
<i>Huperzia lucidula</i>	Shining Firmoss	S5	Secure
<i>Hydrocotyle americana</i>	American Marsh Pennywort	S5	Secure
<i>Hylotelephium telephium</i>	Witch's-moneybags	SNA	Exotic
<i>Hypericum boreale</i>	Northern St. John's-Wort	S5	Secure
<i>Hypericum canadense</i>	Canada St. John's-wort	S5	Secure
<i>Hypericum ellipticum</i>	Pale St. John's-Wort	S5	Secure
<i>Hypericum mutilum</i>	Dwarf St. John's-wort	S4S5	Secure
<i>Hypericum perforatum</i>	Common St. John's-wort	SNA	Exotic
<i>Ilex verticillata</i>	Common Winterberry	S5	Secure
<i>Impatiens capensis</i>	Spotted Jewelweed	S5	Secure
<i>Iris versicolor</i>	Harlequin Blue Flag	S5	Secure

**Table 3 Vascular Plant Inventory for Clydesdale Ridge Wind Farm Project Study Area**

Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Juncus alpinoarticulatus</i>	Alpine Rush	S1S2	May Be At Risk
<i>Juncus articulatus</i>	Jointed Rush	S5	Secure
<i>Juncus balticus</i>	Baltic Rush	S5	Secure
<i>Juncus brevicaudatus</i>	Short-tailed Rush	S5	Secure
<i>Juncus bufonius</i>	Toad Rush	S5	Secure
<i>Juncus canadensis</i>	Canada Rush	S5	Secure
<i>Juncus effusus</i>	Soft Rush	S5	Secure
<i>Juncus filiformis</i>	Thread Rush	S5	Secure
<i>Juncus tenuis</i>	Path Rush	S5	Secure
<i>Juniperus communis</i>	Common Juniper	S5	Secure
<i>Kalmia angustifolia</i>	Sheep Laurel	S5	Secure
<i>Lactuca biennis</i>	Tall Blue Lettuce	S5	Secure
<i>Lactuca canadensis</i>	Canada Lettuce	S5	Secure
<i>Larix decidua</i>	European Larch	SNA	Exotic
<i>Larix laricina</i>	Tamarack	S5	Secure
<i>Ledum groenlandicum</i>	Common Labrador Tea	S5	Secure
<i>Leersia oryzoides</i>	Rice Cut Grass	S5	Secure
<i>Leontodon autumnalis</i>	Fall Dandelion	SNA	Exotic
<i>Leucanthemum vulgare</i>	Oxeye Daisy	SNA	Exotic
<i>Linaria vulgaris</i>	Butter-And-Eggs	SNA	Exotic
<i>Linnaea borealis</i>	Twinflower	S5	Secure
<i>Listera convallarioides</i>	Broad-leaved Twayblade	S3	Secure
<i>Lobelia inflata</i>	Indian Tobacco	S5	Secure
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle	S5	Secure
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	SE	Exotic
<i>Ludwigia palustris</i>	Marsh Seedbox	S5	Secure
<i>Lupinus polyphyllus</i>	Large-Leaved Lupine	SNA	Exotic
<i>Luzula acuminata</i>	Hairy Woodrush	S5	Secure
<i>Luzula multiflora</i>	Common Woodrush	S5	Secure
<i>Luzula multiflora ssp. multiflora</i>	Common Woodrush	S5	Secure
<i>Lycopodium annotinum</i>	Stiff Clubmoss	S5	Secure
<i>Lycopodium clavatum</i>	Running Clubmoss	S5	Secure
<i>Lycopodium dendroideum</i>	Round-branched Tree-clubmoss	S5	Secure
<i>Lycopodium hickeyi</i>	Hickey's Tree-clubmoss	S4?	Secure
<i>Lycopodium lagopus</i>	One-cone clubmoss	S4	Secure
<i>Lycopodium obscurum</i>	Flat-branched Tree-clubmoss	S4S5	Secure
<i>Lycopus americanus</i>	American Water Horehound	S5	Secure
<i>Lycopus uniflorus</i>	Northern Water Horehound	S5	Secure
<i>Lysimachia terrestris</i>	Swamp Yellow Loosestrife	S5	Secure
<i>Maianthemum canadense</i>	Wild Lily-of-The-Valley	S5	Secure
<i>Maianthemum racemosum</i>	Large False Solomon's Seal	S4S5	Secure
<i>Maianthemum racemosum ssp. racemosum</i>	Large False Solomon's Seal	S4S5	Secure
<i>Maianthemum trifolium</i>	Three-leaved False Soloman's Seal	S5	Secure
<i>Malus pumila</i>	Common Apple	SNA	Exotic
<i>Matricaria discoidea</i>	Pineapple Weed	SNA	Exotic
<i>Matteuccia struthiopteris</i>	Ostrich Fern	S5	Secure
<i>Medeola virginiana</i>	Indian Cucumber Root	S5	Secure
<i>Melilotus albus</i>	White Sweet-clover	SNA	Exotic
<i>Melilotus officinalis</i>	Yellow Sweet-clover	SNA	Exotic
<i>Mentha arvensis</i>	Wild Mint	S5	Secure
<i>Milium effusum</i>	Tall Millet-grass	S3	Secure
<i>Mimulus moschatus</i>	Musk Monkeyflower	SNA	Exotic
<i>Mitchella repens</i>	Partridgeberry	S5	Secure
<i>Mitella nuda</i>	Naked Bishop's-Cap	S5	Secure
<i>Moehringia lateriflora</i>	Blunt-leaved Sandwort	S5	Secure
<i>Moneses uniflora</i>	One-flowered Wintergreen	S5	Secure
<i>Monotropa hypopithys</i>	Pinesap	S4	Secure
<i>Monotropa uniflora</i>	Indian Pipe	S5	Secure
<i>Morella pensylvanica</i>	Northern Bayberry	S5	Secure
<i>Muhlenbergia mexicana</i>	Mexican Muhly	S4	Secure
<i>Muhlenbergia uniflora</i>	Bog Muhly	S5	Secure
<i>Myosotis laxa</i>	Small Forget-Me-Not	S5	Secure
<i>Myrica gale</i>	Sweet Gale	S5	Secure

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Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Nemopanthus mucronatus</i>	Mountain Holly	S5	Secure
<i>Oclemena acuminata</i>	Whorled Wood Aster	S5	Secure
<i>Odontites vernus</i>	Red Bartsia	SNA	Exotic
<i>Oenothera biennis</i>	Common Evening Primrose	S5	Secure
<i>Oenothera parviflora</i>	Small-flowered Evening Primrose	S4?	Secure
<i>Oenothera perennis</i>	Perennial Evening Primrose	S5	Secure
<i>Omalotheca sylvatica</i>	Woodland Cudweed	S4S5	Secure
<i>Onoclea sensibilis</i>	Sensitive Fern	S5	Secure
<i>Orthilia secunda</i>	One-sided Wintergreen	S5	Secure
<i>Osmorhiza claytonii</i>	Hairy Sweet Cicely	S4	Secure
<i>Osmunda cinnamomea</i>	Cinnamon Fern	S5	Secure
<i>Osmunda claytoniana</i>	Interrupted Fern	S5	Secure
<i>Osmunda regalis</i>	Royal Fern	S5	Secure
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam	S5	Secure
<i>Oxalis montana</i>	Common Wood Sorrel	S5	Secure
<i>Oxalis stricta</i>	European Wood Sorrel	S5	Secure
<i>Packera schweinitziana</i>	Schweinitz's Groundsel	S4	Secure
<i>Panax trifolius</i>	Dwarf Ginseng	S4	Secure
<i>Panicum dichotomiflorum</i>	Fall Panic Grass	S5	Secure
<i>Parthenocissus quinquefolia</i>	Virginia Creeper	SNA	Exotic
<i>Petasites frigidus</i>	Sweet Coltsfoot	S4S5	Secure
<i>Phalaris arundinacea</i>	Reed Canary Grass	S5	Secure
<i>Phalaris arundinacea</i>	Reed Canary Grass	S5	Secure
<i>Phegopteris connectilis</i>	Northern Beech Fern	S5	Secure
<i>Phleum pratense</i>	Common Timothy	SNA	Exotic
<i>Photina melanocarpa</i>	Black Chokeberry	S5	Secure
<i>Picea abies</i>	Norway Spruce	SNA	Exotic
<i>Picea glauca</i>	White Spruce	S5	Secure
<i>Picea mariana</i>	Black Spruce	S5	Secure
<i>Picea rubens</i>	Red Spruce	S5	Secure
<i>Pinus resinosa</i>	Red Pine	S4S5	Secure
<i>Pinus strobus</i>	Eastern White Pine	S5	Secure
<i>Plantago lanceolata</i>	English Plantain	SNA	Exotic
<i>Plantago major</i>	Common Plantain	SNA	Exotic
<i>Platanthera clavellata</i>	Club Spur Orchid	S5	Secure
<i>Platanthera dilatata</i>	Leafy White Orchid	S4S5	Secure
<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid	S3	Secure
<i>Platanthera lacera</i>	Ragged Fringed Orchid	S4S5	Secure
<i>Platanthera orbiculata</i>	Small Round-leaved Orchid	S3	Secure
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid	S4	Secure
<i>Platanthera sp.</i>	an Orchid	na	na
<i>Poa alsodes</i>	Grove Blue Grass	S4	Secure
<i>Poa annua</i>	Annual Bluegrass	SNA	Exotic
<i>Poa compressa</i>	Canada Blue Grass	SNA	Exotic
<i>Poa palustris</i>	Fowl Bluegrass	S5	Secure
<i>Poa pratensis</i>	Kentucky Blue Grass	S5	Secure
<i>Poa saltuensis</i>	Weak Blue Grass	S4S5	Secure
<i>Polygala sanguinea</i>	Blood Milkwort	S2S3	Sensitive
<i>Polygonatum pubescens</i>	Hairy Solomon's Seal	S4S5	Secure
<i>Polygonum cilinode</i>	Fringed Black Bindweed	S5	Secure
<i>Polygonum hydropiper</i>	Marshpepper Smartweed	SNA	Exotic
<i>Polygonum sagittatum</i>	Arrow-leaved Smartweed	S5	Secure
<i>Polygonum scandens</i>	Climbing False Buckwheat	S3	Sensitive
<i>Polypodium appalachianum</i>	Appalachian Polypody	S3?	Undetermined
<i>Polystichum acrostichoides</i>	Christmas Fern	S5	Secure
<i>Polystichum braunii</i>	Braun's Holly Fern	S4	Secure
<i>Pontederia cordata</i>	Pickerelweed	S5	Secure
<i>Populus grandidentata</i>	Large-toothed Aspen	S5	Secure
<i>Populus tremuloides</i>	Trembling Aspen	S5	Secure
<i>Potentilla recta</i>	Erect Cinquefoil	SNA	Exotic
<i>Potentilla norvegica</i>	Rough Cinquefoil	S5	Secure
<i>Potentilla simplex</i>	Old Field Cinquefoil	S5	Secure
<i>Prenanthes altissima</i>	Tall Rattlesnakeroot	S5	Secure

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Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Prenanthes trifoliolata</i>	Three-leaved Rattlesnakeroot	S5	Secure
<i>Prunella vulgaris</i>	Common Self-heal	S5	Secure
<i>Prunus pensylvanica</i>	Pin Cherry	S5	Secure
<i>Prunus serotina</i>	Wild Black Cherry	S5	Secure
<i>Prunus virginiana</i>	Chokecherry	S5	Secure
<i>Pteridium aquilinum</i>	Bracken Fern	S5	Secure
<i>Pyrola americana</i>	Round-leaved Pyrola	S5	Secure
<i>Pyrola elliptica</i>	Shinleaf	S5	Secure
<i>Quercus rubra</i>	Northern Red Oak	S5	Secure
<i>Ranunculus abortivus</i>	Kidney-Leaved Buttercup	S4S5	Secure
<i>Ranunculus acris</i>	Common Buttercup	SNA	Exotic
<i>Ranunculus acris var. acris</i>	Common Buttercup	SNA	Exotic
<i>Ranunculus recurvatus</i>	Hooked Buttercup	S4	Secure
<i>Ranunculus repens</i>	Creeping Buttercup	SNA	Exotic
<i>Rhinanthus minor</i>	Little Yellow Rattle	S5	Secure
<i>Rhododendron canadense</i>	Rhodora	S5	Secure
<i>Rhynchospora alba</i>	White Beakrush	S5	Secure
<i>Ribes glandulosum</i>	Skunk Currant	S5	Secure
<i>Ribes hirtellum</i>	Smooth Gooseberry	S5	Secure
<i>Ribes lacustre</i>	Bristly Black Currant	S5	Secure
<i>Ribes triste</i>	Swamp Red Currant	S4	Secure
<i>Rosa sp.</i>	a Rose	na	na
<i>Rosa virginiana</i>	Virginia Rose	S5	Secure
<i>Rubus adenocaulis</i>	Glandulose Dewberry	SNR	Undetermined
<i>Rubus allegheniensis</i>	Allegheny Blackberry	S5	Secure
<i>Rubus canadensis</i>	Smooth Blackberry	S5	Secure
<i>Rubus elegantulus</i>	Showy Blackberry	SNR	Undetermined
<i>Rubus hispidus</i>	Bristly Dewberry	S5	Secure
<i>Rubus idaeus</i>	Red Raspberry	S5	Secure
<i>Rubus pensilvanicus</i>	Pennsylvania Blackberry	S4	Secure
<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5	Secure
<i>Rubus sp.</i>	a Blackberry	na	na
<i>Rumex acetosa</i>	Garden Sorrel	SNA	Exotic
<i>Rumex acetosella</i>	Sheep Sorrel	SNA	Exotic
<i>Rumex crispus</i>	Curly Dock	SNA	Exotic
<i>Rumex obtusifolius</i>	Bitter Dock	SNA	Exotic
<i>Rumex orbiculatus</i>	Greater Water Dock	S5	Secure
<i>Salix bebbiana</i>	Bebb's Willow	S5	Secure
<i>Salix discolor</i>	Pussy Willow	S5	Secure
<i>Salix eriocephala</i>	Cottony Willow	S5	Secure
<i>Salix humilis</i>	Upland Willow	S5	Secure
<i>Salix petiolaris</i>	Meadow Willow	S3	Secure
<i>Salix pyrifolia</i>	Balsam Willow	S5	Secure
<i>Sambucus nigra ssp. canadensis</i>	Black Elderberry	S5	Secure
<i>Sambucus racemosa</i>	Red Elderberry	S5	Secure
<i>Sambucus racemosa ssp. pubens</i>	Red Elderberry	S5	Secure
<i>Schoenoplectus subterminalis</i>	Water Bulrush	S5	Secure
<i>Scirpus atrocinctus</i>	Black-girdled Bulrush	S5	Secure
<i>Scirpus cyperinus</i>	Common Woolly Bulrush	S5	Secure
<i>Scirpus hattorianus</i>	Mosquito Bulrush	S5	Secure
<i>Scirpus microcarpus</i>	Small-fruited Bulrush	S5	Secure
<i>Scutellaria galericulata</i>	Marsh Skullcap	S5	Secure
<i>Scutellaria lateriflora</i>	Mad-dog Skullcap	S5	Secure
<i>Senecio jacobaea</i>	Tansy Ragwort	SNA	Exotic
<i>Silene vulgaris</i>	Bladder Champion	SNA	Exotic
<i>Sisyrinchium montanum</i>	Mountain Blue-eyed-grass	S5	Secure
<i>Solanum dulcamara</i>	Climbing Nightshade	SNA	Exotic
<i>Solidago bicolor</i>	White Goldenrod	S5	Secure
<i>Solidago canadensis</i>	Canada Goldenrod	S5	Secure
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	S5	Secure
<i>Solidago gigantea</i>	Giant Goldenrod	S5	Secure
<i>Solidago juncea</i>	Early Goldenrod	S5	Secure
<i>Solidago macrophylla</i>	Large-leaf Goldenrod	S4	Secure



**Table 3 Vascular Plant Inventory for Clydesdale Ridge Wind Farm Project Study Area**

Scientific Name	Common Name	ACCDC Rank	NSDNR Rank
<i>Solidago puberula</i>	Downy Goldenrod	S5	Secure
<i>Solidago rugosa</i>	Rough-stemmed Goldenrod	S5	Secure
<i>Solidago sp.</i>	a Goldenrod	na	na
<i>Solidago uliginosa</i>	Northern Bog Goldenrod	S5	Secure
<i>Sonchus arvensis</i>	Field Sowthistle	SNA	Exotic
<i>Sorbus americana</i>	American Mountain Ash	S5	Secure
<i>Sorbus aucuparia</i>	European Mountain Ash	SNA	Exotic
<i>Sorbus decora</i>	Showy Mountain Ash	S4	Secure
<i>Sparganium sp.</i>	a Bur-reed	na	na
<i>Spiraea alba</i>	White Meadowsweet	S5	Secure
<i>Spiraea tomentosa</i>	Steeplebush	S5	Secure
<i>Spiranthes lacera</i>	Slender Ladies'-tresses	S5	Secure
<i>Stellaria borealis</i>	Northern Stitchwort	S4	Secure
<i>Stellaria graminea</i>	Little Starwort	SNA	Exotic
<i>Stellaria longifolia</i>	Long-leaved Starwort	S3	Sensitive
<i>Streptopus amplexifolius</i>	Clasping-leaved Twisted-stalk	S4S5	Secure
<i>Streptopus lanceolatus</i>	Rose Twisted-stalk	S5	Secure
<i>Streptopus lanceolatus var. lanceolatus</i>	Rose Twisted-stalk	S5	Secure
<i>Symphoricarpos albus</i>	Thin-leaved Snowberry	SNA	Exotic
<i>Symphyotrichum lanceolatum</i>	Lance-leaved Aster	S4S5	Secure
<i>Symphyotrichum lateriflorum</i>	Calico Aster	S5	Secure
<i>Symphyotrichum lateriflorum var. lateriflorum</i>	Calico Aster	S5	Secure
<i>Symphyotrichum novi-belgii</i>	New York Aster	S5	Secure
<i>Symphyotrichum puniceum</i>	Purple-stemmed Aster	S5	Secure
<i>Symphyotrichum undulatum</i>	Wavy-leaved Aster	S2	Sensitive
<i>Taraxacum officinale</i>	Common Dandelion	SNA	Exotic
<i>Taxus canadensis</i>	Canada Yew	S5	Secure
<i>Thalictrum pubescens</i>	Tall Meadow-Rue	S5	Secure
<i>Thelypteris noveboracensis</i>	New York Fern	S5	Secure
<i>Thelypteris palustris</i>	Eastern Marsh Fern	S5	Secure
<i>Tiarella cordifolia</i>	Heart-leaved Foamflower	S2	Sensitive
<i>Torreyochloa pallida var. fernaldii</i>	Pale Manna Grass	S4S5	Secure
<i>Triadenum fraseri</i>	Fraser's Marsh St. John's-wort	S5	Secure
<i>Trientalis borealis</i>	Northern Starflower	S5	Secure
<i>Trifolium arvense</i>	Rabbit's-foot Clover	SNA	Exotic
<i>Trifolium campestre</i>	Low Hop Clover	SNA	Exotic
<i>Trifolium hybridum</i>	Alsike Clover	SNA	Exotic
<i>Trifolium pratense</i>	Red Clover	SNA	Exotic
<i>Trifolium repens</i>	White Clover	SNA	Exotic
<i>Trillium cernuum</i>	Nodding Trillium	S4	Secure
<i>Trillium erectum</i>	Red Trillium	S3	Secure
<i>Trillium undulatum</i>	Painted Trillium	S5	Secure
<i>Tripleurospermum maritima</i>	False Mayweed	SNA	Exotic
<i>Tsuga canadensis</i>	Eastern Hemlock	S4S5	Secure
<i>Tussilago farfara</i>	Coltsfoot	SNA	Exotic
<i>Typha angustifolia</i>	Narrow-Leaved Cattail	S5	Secure
<i>Typha latifolia</i>	Broad-leaved Cattail	S5	Secure
<i>Uvularia sessilifolia</i>	Sessile-leaved Bellwort	S4S5	Secure
<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5	Secure
<i>Vaccinium macrocarpon</i>	Large Cranberry	S5	Secure
<i>Vaccinium myrtilloides</i>	Velvet-leaved Blueberry	S5	Secure
<i>Verbascum thapsus</i>	Great Mullein	SNA	Exotic
<i>Veronica americana</i>	American Speedwell	S5	Secure
<i>Veronica officinalis</i>	Common Speedwell	S5	Exotic
<i>Veronica serpyllifolia</i>	Thyme-Leaved Speedwell	S5	Secure
<i>Veronica serpyllifolia ssp. serpyllifolia</i>	Thyme-Leaved Speedwell	SNA	Exotic
<i>Viburnum edule</i>	Squashberry	S2	Sensitive
<i>Viburnum lantanoides</i>	Hobblebush	S5	Secure
<i>Viburnum nudum</i>	Northern Wild Raisin	S5	Secure
<i>Viburnum opulus var. americanum</i>	Highbush Cranberry	S5	Secure
<i>Vicia cracca</i>	Tufted Vetch	SNA	Exotic
<i>Viola blanda</i>	Sweet White Violet	S5	Secure
<i>Viola cucullata</i>	Marsh Blue Violet	S5	Secure

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<b>Scientific Name</b>	<b>Common Name</b>	<b>ACCDC Rank</b>	<b>NSDNR Rank</b>
<i>Viola macloskeyi</i>	Small White Violet	S5	Secure
<i>Viola pubescens</i>	Downy Yellow Violet	S4	Secure
<i>Viola renifolia</i>	Kidney-leaved White Violet	S4	Secure
<i>Viola selkirkii</i>	Great-Spurred Violet	S4	Secure
<i>Viola septentrionalis</i>	Northern Woodland Violet	S5?	Secure
<i>Viola sororia</i>	Woolly Blue Violet	S5	Secure
<i>Viola sp.</i>	a Violet	na	na