Appendix B
Plant and Fauna Survey Data

Atlantic Canada Conservation Data Centre
Centre de données sur la conservation du Canada Atlantique

DATA REPORT 4716: Lingan, NS

Prepared 26 January, 2012
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1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACCDC) is part of a network of circa 85 NatureServe data centres and heritage programs in 50 states, 10 provinces and 1 territory, plus several Central and South American countries. The NatureServe network is more than 30 years old and shares a common conservation data methodology. The ACCDC was founded in 1997, and maintains data for the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland and Labrador. Although a non-governmental agency, the ACCDC is supported by 6 federal agencies, plus 4 provincial governments, outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC reports known observations of rare and endangered flora and fauna, in and near a specified study area. As a supplement to that data, the ACCDC includes locations of managed areas with some level of protection, and also known sites of ecological interest. Data summarised in each report is attached as DBF files which may be opened from within data software (Excel, Access) or mapped in GIS (ArcView, MapInfo, AutoCAD).

1.1 RESTRICTIONS

The ACCDC makes a strong effort to verify the accuracy of all the data that it manages, but it shall not be held responsible for any inaccuracies in data that it provides. By receiving ACCDC data, recipients assent to the following limits of use:

a.) Data is restricted to use by trained personnel who are sensitive to its potential threat to rare and endangered taxa.
b.) Data is restricted to use by the specified Data User; any third party requiring data must make its own data request.
c.) The ACCDC requires Data Users to cease using and delete data 12 months after receipt.
d.) ACCDC data responses are restricted to that data in our Data System at the time of the data request.
e.) Data is qualified as to location (Precision) and time (SurveyDate); cf Data Dictionary for details.
f.) ACCDC data reports are not to be construed as exhaustive inventories of taxa in an area.
g.) The non-occurrence of a taxon cannot be inferred by its absence in an ACCDC data report.

1.2 ADDITIONAL INFORMATION

Please direct biological questions about ACCDC data to: Sean Blaney, ACCDC: (506) 364-2658, and technical data queries to: Stefen Gerriets, ACCDC: (506) 364-2657.
For provincial information on rare taxa and protected areas, or information on game animals, deer yards, old growth forest, archeological sites, fish habitat etc, please contact Sherman Boates, NSDNR: (902) 679-6146.

2.0 RARE AND ENDANGERED TAXA

A 100km buffer around the study area contains 2372 records of 337 taxa from 62 sources, a relatively low-to-moderate density of records (quintile 2): 0.08 rec/km2.

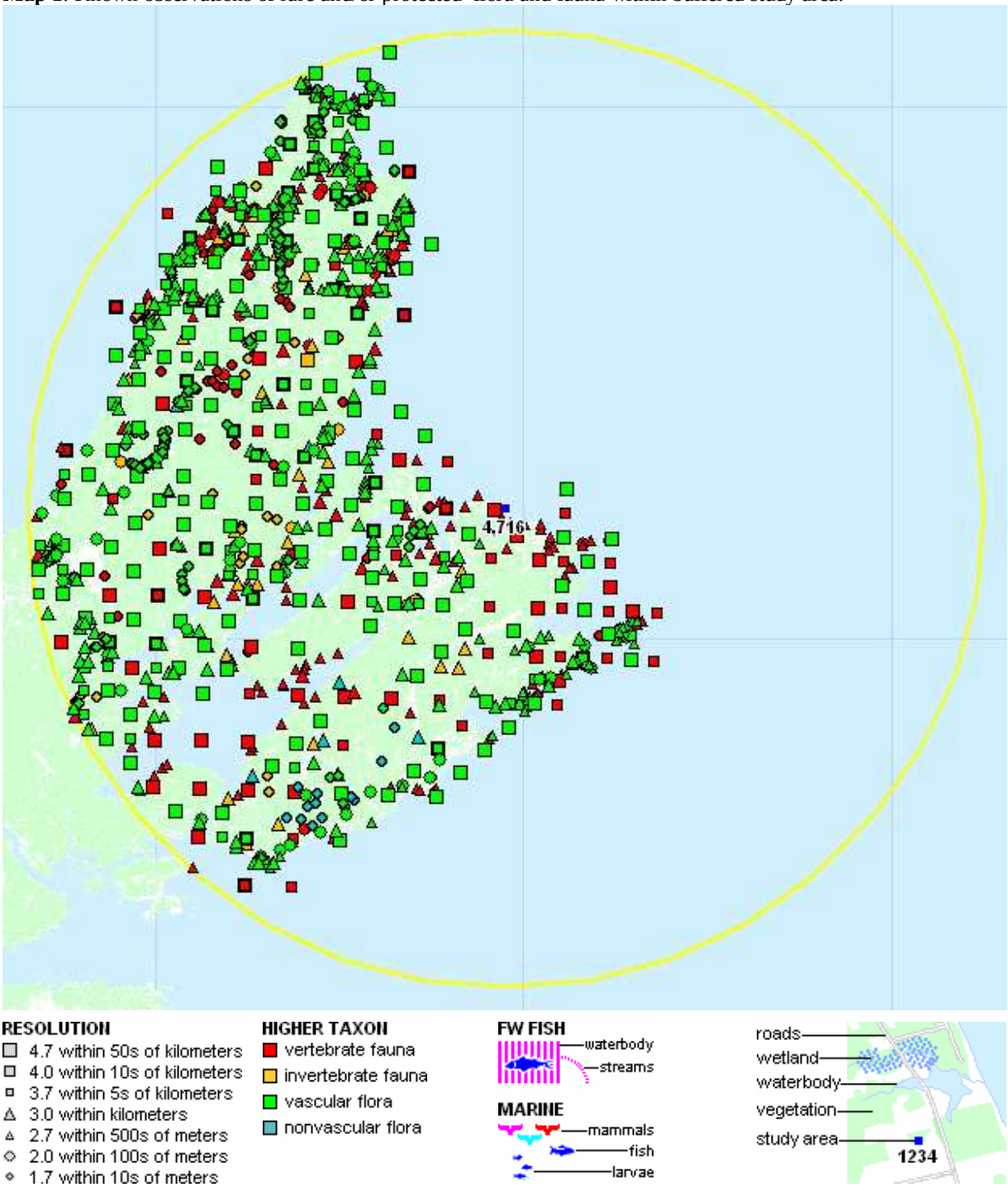
2.1 FLORA

A 100km buffer around the study area contains 1375 records of 237 vascular, 23 records of 5 nonvascular flora (see attached *ob.dbf).

2.2 FAUNA

A 100km buffer around the study area contains 832 records of 57 vertebrate, 142 records of 38 invertebrate fauna (cf attached *ob.dbf). Sensitive data: Wood Turtles are POTENTIALLY present in the study area (cf attached WOTU.rtf). Peregrine Falcons are POTENTIALLY present in the study area (cf attached PEFA.rtf).

Map 1: Known observations of rare and/or protected flora and fauna within buffered study area.



3.0 SPECIAL AREAS

3.1 MANAGED AREAS
The GIS scan identified 4 Managed Areas with some degree of protected status, in the vicinity of the study area (see attached *ma.dbf).

3.2 SIGNIFICANT AREAS
No biologically significant sites were identified.

Map 2: Boundaries and/or locations of known Managed and Significant Areas within 5km of study area.

4.0 TAXON LISTS

Rare and/or endangered taxa within the buffered area listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation. [p] = vascular plant, [n] = nonvascular plant, [a] = vertebrate animal, [i] = invertebrate animal, [c] = community.

4.1 FLORA

	scientific name	common name	prov. rarity	prov. status	COSEWIC	obs	dist.km
n	Erioderma pedicellatum (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	S1S2	Endangered	E	17	50 ±1
p	Isoetes prototypus	Prototype Quillwort	S2	Vulnerable	SC	4	18 ±0.1
p	Juncus caesariensis	New Jersey Rush	S2	Vulnerable	SC	18	49 ±0
n	Sclerophora peronella (Nova Scotia pop.)	Frosted Glass-whiskers Lichen - Nova Scotia pop.	S1?		SC	3	65 ±10
p	Floerkea proserpinacoides	False Mermaidweed	S2		NAR	4	72 ±0.1
p	Botrychium lunaria	Common Moonwort	S1			2	40 ±1
p	Cystopteris laurentiana	Laurentian Bladder Fern	S1			9	51 ±5
p	Cryptogramma stelleri	Steller's Rockbrake	S1			3	89 ±0
p	Adiantum pedatum	Northern Maidenhair Fern	S1			1	90 ±5
p	Trisetum melicoides	Purple False Oats	S1			3	41 ±1
p	Torreyochloa pallida var. pallida	Pale False Manna Grass	S1			1	62 ±10
p	Phleum alpinum	Alpine Timothy	S1			5	69 ±1
p	Elymus wiegandii	Wiegand's Wild Rye	S1			6	14 ±1
p	Calamagrostis stricta ssp. inexpansa	Slim-stemmed Reed Grass	S1			1	90 ±5
p	Triantha glutinosa	Sticky False Asphodel	S1			5	83 ±10
p	Luzula spicata	Spiked Woodrush	S1			3	86 ±10
p	Juncus bulbosus	Bulbous Rush	S1			5	9 ±0.5
p	Iris prismatica	Slender Blue Flag	S1			2	51 ±10
p	Blysmus rufus	Red Bulrush	S1			3	79 ±0.1
p	Rhynchospora capillacea	Slender Beakrush	S1			4	59 ±0.1
p	Carex wiegandii	Wiegand's Sedge	S1			6	66 ±0
p	Carex viridula var. elatior	Greenish Sedge	S1			2	95 ±0
p	Carex tenuiflora	Sparse-Flowered Sedge	S1			1	90 ±0.5
p	Carex saxatilis	Russet Sedge	S1			3	54 ±10
p	Carex rariflora	Loose-flowered Alpine Sedge	S1			4	37 ±0.5
p	Carex livida var. radicaulis	Livid Sedge	S1			8	36 ±5
p	Carex gynocrates	Northern Bog Sedge	S1			1	95 ±0.1
p	Scrophularia lanceolata	Lance-leaved Figwort	S1			1	54 ±10
p	Pedicularis palustris	Marsh Lousewort	S1			4	37 ±0.5
p	Saxifraga oppositifolia	Purple Mountain Saxifrage	S1			1	84 ±1
p	Saxifraga aizoides	Yellow Mountain Saxifrage	S1			3	75 ±0
p	Salix vestita	Hairy Willow	S1			1	84 ±1
p	Salix uva-ursi	Bearberry Willow	S1			1	80 ±10
p	Salix reticulata	Net-Veined Willow	S1			1	84 ±1
p	Salix candida	Sage Willow	S1			2	95 ±0
p	Potentilla pensylvanica var. litoralis	Pennsylvania Cinquefoil	S1			2	86 ±1
p	Anemone parviflora	Small-flowered Anemone	S1			2	80 ±10
p	Anemone multifida	Cut-leaved Anemone	S1			3	83 ±1
p	Polygonum viviparum	Alpine Bistort	S1			1	92 ±1
p	Oxyria digyna	Mountain Sorrel	S1			1	75 ±0
p	Utricularia ochroleuca	Yellowish-white Bladderwort	S1			1	54 ±1
p	Pinguicula vulgaris	Common Butterwort	S1			7	66 ±10
p	Gentianella amarella ssp. acuta	Northern Gentian	S1			1	95 ±1
p	Oxytropis campestris var. johannensis	Field Locoweed	S1			4	79 ±10
p	Vaccinium ovalifolium	Oval-leaved Bilberry	S1			3	76 ±0.1
p	Rhododendron lapponicum	Lapland Rosebay	S1			1	84 ±1
p	Phyllodoce caerulea	Blue Mountain Heather	S1			1	88 ±0
p	Diapensia lapponica	Diapensia	S1			4	66 ±10
p	Hypericum majus	Large St John's-wort	S1			2	59 ±0.1
p	Suaeda maritima ssp. richii	White Sea-blite	S1			1	79 ±0.1
p	Lobelia kalmii	Brook Lobelia	S1			7	18 ±10
p	Draba pycnosperma	Dense Whitlow-grass	S1			1	88 ±1
p	Draba norvegica var. clivicola	Norwegian Whitlow-Grass	S1			2	65 ±10
p	Draba norvegica	Norwegian Whitlow-Grass	S1			4	72 ±10
p	Draba glabella	Rock Whitlow-Grass	S1			4	80 ±10
p	Cardamine pratensis var. angustifolia	Cuckoo Flower	S1			4	69 ±10
p	Betula glandulosa	Glandular Birch	S1			3	58 ±10
p	Bidens hyperborea	Estuary Beggarticks	S1			2	79 ±10
p	Artemisia campestris ssp. borealis	Field Wormwood	S1			1	88 ±0
p	Artemisia campestris var. borealis	Field Wormwood	S1			1	88 ±0.1
p	Artemisia campestris	Field Wormwood	S1			1	87 ±0
p	Arnica lonchophylla	Northern Arnica	S1			5	75 ±10
p	Sanicula odorata	Clustered Sanicle	S1			4	59 ±1
p	Osmorhiza depauperata	Blunt Sweet Cicely	S1			2	88 ±0.5
p	Dichanthelium acuminatum var. lindheimeri	Woolly Panic Grass	S1?			1	64 ±1
p	Triglochin gaspensis	Gaspé Arrowgrass	S1?			1	97 ±1
p	Schoenoplectus robustus	Sturdy Bulrush	S1?			2	55 ±5
p	Spiraea septentrionalis	Northern Meadowsweet	S1?			2	62 ±0.5
p	Rubus flagellaris	Northern Dewberry	S1?			1	41 ±1
p	Crataegus submollis	Quebec Hawthorn	S1?			2	79 ±10
p	Epilobium lactiflorum	White-flowered Willowherb	S1?			1	76 ±5
p	Halenia deflexa ssp. brentoniana	Spurred Gentian	S1?			2	84 ±1
p	Chenopodium rubrum	Red Pigweed	S1?			1	23 ±10
p	Atriplex acadiensis	Maritime Saltbush	S1?			1	9 ±10
p	Woodsia alpina	Alpine Cliff Fern	S1S2			10	38 ±10
p	Sparganium hyperboreum	Northern Burreed	S1S2			9	35 ±0.5

p	Festuca prolifera	Proliferous Fescue	S1S2	5	74 ±1
p	Calamagrostis stricta ssp. stricta	Slim-stemmed Reed Grass	S1S2	1	59 ±1
p	Calamagrostis stricta	Slim-stemmed Reed Grass	S1S2	1	88 ±0
p	Juncus alpinoarticulatus ssp. nodulosus	Alpine Rush	S1S2	6	85 ±5
p	Juncus stygius ssp. americanus	Moor Rush	S1S2	14	36 ±0.1
p	Carex bebbii	Bebb's Sedge	S1S2	4	23 ±5
p	Ranunculus sceleratus	Cursed Buttercup	S1S2	3	31 ±1
p	Anemone virginiana var. alba	Virginia Anemone	S1S2	5	40 ±0.1
p	Utricularia resupinata	Inverted Bladderwort	S1S2	1	73 ±0.1
p	Cornus suecica	Swedish Bunchberry	S1S2	15	35 ±1
p	Arabis hirsuta var. pycnocarpa	Western Hairy Rockcress	S1S2	5	24 ±0.1
p	Solidago multiradiata	Multi-rayed Goldenrod	S1S2	8	37 ±0.1
p	Huperzia appalachiana	Mountain Firmoss	S1S3	2	73 ±0
p	Huperzia selago	Northern Firmoss	S1S3	15	34 ±10
p	Selaginella selaginoides	Low Spikemoss	S2	4	80 ±10
p	Equisetum pratense	Meadow Horsetail	S2	7	70 ±0
p	Woodsia glabella	Smooth Cliff Fern	S2	13	41 ±1
p	Polystichum lonchitis	Northern Holly Fern	S2	21	44 ±1
p	Dryopteris fragrans var. remotiuscula	Fragrant Wood Fern	S2	7	37 ±10
p	Asplenium trichomanes-ramosum	Green Spleenwort	S2	12	28 ±5
p	Asplenium trichomanes	Maidenhair Spleenwort	S2	23	29 ±1
p	Potamogeton friesii	Fries' Pondweed	S2	1	99 ±10
p	Piptatherum canadense	Canada Rice Grass	S2	1	63 ±0.1
p	Spiranthes lucida	Shining Ladies'-Tresses	S2	1	67 ±1
p	Platanthera macrophylla	Large Round-Leaved Orchid	S2	1	77 ±0.1
p	Listera australis	Southern Twayblade	S2	3	82 ±10
p	Cypripedium reginae	Showy Lady's-Slipper	S2	19	22 ±10
p	Cypripedium parviflorum var. makasin	Yellow Lady's-slipper	S2	1	85 ±0.1
p	Allium schoenoprasum var. sibiricum	Wild Chives	S2	7	14 ±1
p	Allium schoenoprasum	Wild Chives	S2	1	33 ±10
p	Juncus trifidus	Highland Rush	S2	17	59 ±10
p	Vallisneria americana	Wild Celery	S2	2	17 ±10
p	Eriophorum gracile	Slender Cottongrass	S2	1	90 ±5
p	Eleocharis quinqueflora	Few-flowered Spikerush	S2	8	23 ±10
p	Carex scirpoidea	Scirpuslike Sedge	S2	9	14 ±10
p	Carex hystericina	Porcupine Sedge	S2	2	34 ±10
p	Carex comosa	Bearded Sedge	S2	1	92 ±10
p	Carex castanea	Chestnut Sedge	S2	9	40 ±10
p	Carex capillaris	Hairlike Sedge	S2	10	73 ±0
p	Carex atratiformis	Scabrous Black Sedge	S2	15	41 ±1
p	Carex atlantica ssp. capillacea	Atlantic Sedge	S2	11	36 ±0.1
p	Viola nephrophylla	Northern Bog Violet	S2	2	72 ±0.1
p	Saxifraga paniculata ssp. neogaea	White Mountain Saxifrage	S2	12	40 ±0.1
p	Parnassia palustris var. parviflora	Marsh Grass-of-Parnassus	S2	4	28 ±10
p	Comandra umbellata	Bastard's Toadflax	S2	10	28 ±10
p	Salix pedicellaris	Bog Willow	S2	2	96 ±0
p	Galium labradoricum	Labrador Bedstraw	S2	9	30 ±1
p	Caltha palustris	Yellow Marsh Marigold	S2	19	44 ±10
p	Anemone virginiana	Virginia Anemone	S2	1	88 ±0
p	Anemone quinquefolia	Wood Anemone	S2	3	62 ±10
p	Anemone canadensis	Canada Anemone	S2	7	83 ±10
p	Pyrola minor	Lesser Pyrola	S2	17	37 ±0.1
p	Primula mistassinica	Mistassini Primrose	S2	10	68 ±1
p	Rumex salicifolius var. mexicanus	Triangular-valve Dock	S2	4	9 ±10
p	Myriophyllum verticillatum	Whorled Water Milfoil	S2	2	37 ±10
p	Vaccinium uliginosum	Alpine Bilberry	S2	30	35 ±0.1
p	Vaccinium caespitosum	Dwarf Bilberry	S2	10	38 ±10
p	Vaccinium boreale	Northern Blueberry	S2	36	36 ±0.5
p	Shepherdia canadensis	Soapberry	S2	21	40 ±10
p	Crassula aquatica	Water Pygmyweed	S2	5	29 ±0.1
p	Triosteum aurantiacum	Orange-fruited Tinker's Weed	S2	11	63 ±10
p	Hudsonia ericoides	Pinebarren Golden Heather	S2	2	86 ±0.1
p	Stellaria humifusa	Saltmarsh Starwort	S2	4	35 ±0.5
p	Minuartia groenlandica	Greenland Stitchwort	S2	1	80 ±10
p	Draba arabisans	Rock Whitlow-Grass	S2	12	40 ±10
p	Cardamine parviflora var. arenicola	Small-flowered Bittercress	S2	6	30 ±0.5
p	Arabis drummondii	Drummond's Rockcress	S2	9	29 ±1
p	Betula michauxii	Newfoundland Dwarf Birch	S2	5	35 ±0.5
p	Betula borealis	Northern Birch	S2	7	47 ±0.1
p	Caulophyllum thalictroides	Blue Cohosh	S2	1	72 ±0
p	Impatiens pallida	Pale Jewelweed	S2	3	50 ±10
p	Senecio pseudoarnica	Seabeach Ragwort	S2	7	20 ±10
p	Iva frutescens ssp. oraria	Big-leaved Marsh-elder	S2	1	13 ±10
p	Hieracium robinsonii	Robinson's Hawkweed	S2	15	40 ±5
p	Erigeron philadelphicus	Philadelphia Fleabane	S2	3	18 ±10
p	Osmorhiza longistylis	Smooth Sweet Cicely	S2	6	73 ±0
n	Syntrichia ruralis	a Moss	S2?	1	43 ±1
n	Scorpidium scorpioides	a Moss	S2?	1	88 ±10
n	Paludella squarrosa	a Moss	S2?	1	60 ±5
p	Juncus dudleyi	Dudley's Rush	S2?	3	84 ±1
p	Amelanchier fernaldii	Fernald's Serviceberry	S2?	3	26 ±10
p	Symphyotrichum boreale	Boreal Aster	S2?	2	32 ±10
p	Ophioglossum pusillum	Northern Adder's-tongue	S2S3	1	28 ±5
p	Botrychium simplex	Least Moonwort	S2S3	7	39 ±1
p	Botrychium lanceolatum var. angustisegmentum	Triangle Moonwort	S2S3	9	41 ±1
p	Potamogeton zosteriformis	Flat-stemmed Pondweed	S2S3	8	30 ±0.5

p	Potamogeton richardsonii	Richardson's Pondweed	S2S3	2	84 ±1
p	Potamogeton obtusifolius	Blunt-leaved Pondweed	S2S3	8	78 ±10
p	Stuckenia filiformis ssp. alpina	Thread-leaved Pondweed	S2S3	14	38 ±10
p	Poa glauca	Glaucous Blue Grass	S2S3	10	39 ±1
p	Alopecurus aequalis	Short-awned Foxtail	S2S3	6	42 ±1
p	Cypripedium parviflorum	Yellow Lady's-slipper	S2S3	11	18 ±10
p	Coeloglossum viride var. virescens	Long-bracted Frog Orchid	S2S3	10	76 ±1
p	Lilium canadense	Canada Lily	S2S3	5	72 ±10
p	Carex hirtifolia	Pubescent Sedge	S2S3	2	69 ±0
p	Carex adusta	Lesser Brown Sedge	S2S3	6	57 ±5
p	Veronica serpyllifolia ssp. humifusa	Thyme-Leaved Speedwell	S2S3	10	19 ±1
p	Salix pellita	Satiny Willow	S2S3	1	79 ±5
p	Polygonum raii	Sharp-fruited Knotweed	S2S3	7	18 ±1
p	Polygonum buxiforme	Small's Knotweed	S2S3	1	81 ±10
p	Polygala sanguinea	Blood Milkwort	S2S3	1	45 ±10
p	Fraxinus nigra	Black Ash	S2S3	13	24 ±10
p	Hedeoma pulegioides	American False Pennyroyal	S2S3	1	18 ±1
p	Halenia deflexa	Spurred Gentian	S2S3	16	20 ±10
p	Empetrum eamesii ssp. eamesii	Pink Crowberry	S2S3	1	67 ±1
p	Empetrum eamesii ssp. atropurpureum	Pink Crowberry	S2S3	7	66 ±1
p	Suaeda calceoliformis	Horned Sea-blite	S2S3	3	23 ±10
p	Betula pumila var. pumila	Bog Birch	S2S3	5	72 ±10
p	Betula pumila	Bog Birch	S2S3	12	53 ±10
p	Symphyotrichum ciliolatum	Fringed Blue Aster	S2S3	1	72 ±10
p	Asclepias incarnata ssp. pulchra	Swamp Milkweed	S2S3	5	78 ±1
p	Schizaea pusilla	Little Curlygrass Fern	S3	16	35 ±1
p	Botrychium dissectum	Cut-leaved Moonwort	S3	2	28 ±5
p	Isoetes acadiensis	Acadian Quillwort	S3	3	18 ±5
p	Equisetum variegatum	Variegated Horsetail	S3	3	61 ±10
p	Sparganium natans	Small Burreed	S3	4	28 ±0.5
p	Platanthera orbiculata	Small Round-leaved Orchid	S3	11	58 ±5
p	Platanthera hookeri	Hooker's Orchid	S3	3	77 ±1
p	Platanthera grandiflora	Large Purple Fringed Orchid	S3	3	29 ±1
p	Goodyera repens	Lesser Rattlesnake-plantain	S3	6	28 ±10
p	Goodyera oblongifolia	Menzies' Rattlesnake-plantain	S3	21	40 ±10
p	Corallorhiza trifida	Early Coralroot	S3	8	28 ±5
p	Eleocharis nitida	Quill Spikerush	S3	1	36 ±0.5
p	Carex rosea	Rosy Sedge	S3	1	90 ±5
p	Carex eburnea	Bristle-leaved Sedge	S3	7	47 ±0.1
p	Verbena hastata	Blue Vervain	S3	1	89 ±0.1
p	Laportea canadensis	Canada Wood Nettle	S3	4	73 ±0
p	Limosella australis	Southern Mudwort	S3	8	16 ±5
p	Geocaulon lividum	Northern Comandra	S3	18	35 ±0.5
p	Salix petiolaris	Meadow Willow	S3	1	99 ±0
p	Galium kamtschaticum	Northern Wild Licorice	S3	14	58 ±5
p	Agrimonia gryposepala	Hooked Agrimony	S3	4	73 ±0
p	Rhamnus alnifolia	Alder-leaved Buckthorn	S3	8	86 ±1
p	Pyrola asarifolia	Pink Pyrola	S3	10	76 ±0.1
p	Primula laurentiana	Laurentian Primrose	S3	1	59 ±10
p	Polygonum pensylvanicum	Pennsylvania Smartweed	S3	1	89 ±0.1
p	Epilobium strictum	Downy Willowherb	S3	6	57 ±1
p	Epilobium hornemannii	Hornemann's Willowherb	S3	16	50 ±10
p	Decodon verticillatus	Swamp Loosestrife	S3	1	93 ±5
p	Proserpinaca palustris var. crebra	Marsh Mermaidweed	S3	1	99 ±0
p	Bartonia virginica	Yellow Bartonia	S3	1	91 ±0.1
p	Empetrum eamesii	Pink Crowberry	S3	11	51 ±10
p	Viburnum edule	Squashberry	S3	27	70 ±0
p	Campanula aparinoides	Marsh Bellflower	S3	1	88 ±5
p	Packera paupercula	Balsam Groundsel	S3	2	47 ±0
p	Megalodonta beckii	Water Beggarticks	S3	5	28 ±1
p	Erigeron hyssopifolius	Hyssop-leaved Fleabane	S3	22	37 ±10
p	Asclepias incarnata	Swamp Milkweed	S3	8	34 ±10
p	Lycopodium sitchense	Sitka Clubmoss	S3?	6	30 ±1
p	Lycopodium sabinifolium	Ground-Fir	S3?	4	53 ±5
p	Potamogeton praelongus	White-stemmed Pondweed	S3?	7	27 ±5
p	Carex cryptolepis	Hidden-scaled Sedge	S3?	1	73 ±0
p	Lycopodium complanatum	Northern Clubmoss	S3S4	3	29 ±5
p	Equisetum scirpoides	Dwarf Scouring-Rush	S3S4	4	70 ±0
p	Cystopteris bulbifera	Bulblet Bladder Fern	S3S4	10	25 ±1
p	Trisetum spicatum	Narrow False Oats	S3S4	12	40 ±0.5
p	Liparis loeselii	Loesel's Twayblade	S3S4	9	28 ±0.5
p	Luzula parviflora	Small-flowered Woodrush	S3S4	26	51 ±1
p	Juncus acuminatus	Sharp-fruited Rush	S3S4	1	91 ±0
p	Polygonum robustius	Stout Smartweed	S3S4	1	96 ±0
p	Sanguinaria canadensis	Bloodroot	S3S4	7	68 ±0
p	Myriophyllum sibiricum	Siberian Water Milfoil	S3S4	1	96 ±0.1
p	Atriplex franktonii	Frankton's Saltbush	S3S4	1	39 ±0.1
p	Isoetes lacustris	Lake Quillwort	S4	14	16 ±1
p	Botrychium minganense	Mingan Moonwort	SH	1	34 ±10
p	Poa alpina	Alpine Blue Grass	SH	1	31 ±0.5

4.2 FAUNA

	scientific name	common name	prov. rarity	prov. status	COSEWIC	obs	dist.km
a	Calidris canutus rufa	Red Knot rufa ssp	S2S3M	Endangered	E	5	3 ±0.5
a	Rangifer tarandus pop. 2	Woodland Caribou (Atlantic-Gaspésie pop.)	SX	Extirpated	E	1	53 ±0.5
a	Catharus bicknelli	Bicknell's Thrush	S1S2B	Vulnerable	T	45	24 ±5
a	Glyptemys insculpta	Wood Turtle	S3	Vulnerable	T	19	18 ±1
a	Morone saxatilis	Striped Bass	S1		T	5	46 ±10
a	Acipenser oxyrinchus	Atlantic Sturgeon	S1?		T	1	46 ±10
a	Dolichonyx oryzivorus	Bobolink	S3S4B		T	42	11 ±5
a	Histrionicus histrionicus pop. 1	Harlequin Duck - Eastern pop.	S2N	Endangered	SC	1	20 ±10
i	Lampsilis cariosa	Yellow Lampmussel	S1	Threatened	SC	3	24 ±10
a	Bucephala islandica (Eastern pop.)	Barrow's Goldeneye - Eastern pop.	S1N		SC	1	18 ±10
a	Asio flammeus	Short-eared Owl	S1S2		SC	3	16 ±5
i	Danaus plexippus	Monarch	S2B		SC	1	84 ±1
a	Euphagus carolinus	Rusty Blackbird	S2S3B		SC	36	16 ±5
a	Lynx canadensis	Canada Lynx	S1	Endangered	NAR	84	32 ±1
a	Sorex dispar	Long-tailed Shrew	S1		NAR	13	32 ±10
a	Aegolius funereus	Boreal Owl	S1B		NAR	6	16 ±5
a	Hemidactylium scutatum	Four-toed Salamander	S3		NAR	5	44 ±10
a	Sialia sialis	Eastern Bluebird	S3B		NAR	2	66 ±5
a	Sterna hirundo	Common Tern	S3B		NAR	95	2 ±0.5
a	Accipiter gentilis	Northern Goshawk	S3S4		NAR	19	24 ±5
a	Martes americana	American Marten	S1	Endangered		26	42 ±10
i	Leptodea ochracea	Tidewater Mucket	S1			3	24 ±10
i	Coenagrion interrogatum	Subarctic Bluet	S1			1	53 ±10
i	Leucorrhinia patricia	Canada Whiteface	S1			1	64 ±0.1
i	Somatochlora williamsoni	Williamson's Emerald	S1			2	48 ±0.1
i	Somatochlora brevicincta	Quebec Emerald	S1			1	79 ±10
i	Somatochlora albicincta	Ringed Emerald	S1			3	52 ±10
i	Oeneis jutta ascerta	Jutta Arctic	S1			1	79 ±1
i	Oeneis jutta	Jutta Arctic	S1			6	64 ±1
i	Polygonia gracilis	Hoary Comma	S1			1	56 ±1
i	Polygonia satyrus	Satyr Comma	S1			1	14 ±1
a	Vireo gilvus	Warbling Vireo	S1?B			4	73 ±5
a	Tringa solitaria	Solitary Sandpiper	S1?B,S4S5M			3	19 ±0.5
a	Gallinula chloropus	Common Moorhen	S1B			2	16 ±5
a	Alca torda	Razorbill	S1B,S4N			10	24 ±10
a	Fratercula arctica	Atlantic Puffin	S1B,S4S5N			5	24 ±10
a	Calidris minutilla	Least Sandpiper	S1B,S5M			15	3 ±0.5
a	Picoides dorsalis	American Three-toed Woodpecker	S1S2			4	68 ±5
i	Nymphalis vaualbum j-album	Compton Tortoiseshell	S1S2			1	84 ±1
i	Papilio brevicauda bretonensis	Short-tailed Swallowtail	S1S2			1	87 ±0
i	Papilio brevicauda	Short-tailed Swallowtail	S1S2			11	38 ±1
a	Eremophila alpestris	Horned Lark	S1S2B,S4N			1	11 ±5
a	Charadrius semipalmatus	Semipalmated Plover	S1S2B,S5M			17	3 ±0.5
a	Martes pennanti	Fisher	S2			1	72 ±10
a	Microtus chrotorrhinus	Rock Vole	S2			7	44 ±10
a	Salmo salar	Atlantic Salmon	S2			55	3 ±10
a	Asio otus	Long-eared Owl	S2			2	79 ±5
i	Lampsilis radiata	Eastern Lampmussel	S2			4	27 ±0.1
i	Somatochlora septentrionalis	Muskeg Emerald	S2			8	61 ±0.1
i	Somatochlora forcipata	Forcipate Emerald	S2			4	58 ±1
i	Gomphus descriptus	Harpoon Clubtail	S2			4	95 ±0.1
i	Nymphalis milberti	Milbert's Tortoiseshell	S2			1	56 ±1
i	Boloria chariclea	Arctic Fritillary	S2			7	63 ±1
i	Pieris oleracea	Mustard White	S2			3	54 ±1
a	Vireo philadelphicus	Philadelphia Vireo	S2?B			5	38 ±5
a	Piranga olivacea	Scarlet Tanager	S2B			1	83 ±5
a	Empidonax traillii	Willow Flycatcher	S2B			1	52 ±0.5
a	Rallus limicola	Virginia Rail	S2B			1	83 ±5
a	Anas strepera	Gadwall	S2B			1	16 ±0.1
a	Anas clypeata	Northern Shoveler	S2B			1	16 ±0.1
a	Anas acuta	Northern Pintail	S2B			2	6 ±10
a	Rissa tridactyla	Black-legged Kittiwake	S2B,S4S5N			30	16 ±5
a	Bucephala clangula	Common Goldeneye	S2B,S5N			20	6 ±10
i	Alasmidonta undulata	Triangle Floater	S2S3			1	65 ±10
a	Pooecetes gramineus	Vesper Sparrow	S2S3B			2	73 ±5
a	Phalaropus fulicaria	Red Phalarope	S2S3M			1	12 ±0.5
a	Phalaropus lobatus	Red-necked Phalarope	S2S3M			1	19 ±0.5
i	Amphiagrion saucium	Eastern Red Damsel	S3			16	16 ±1
i	Sympetrum danae	Black Meadowhawk	S3			9	36 ±1
i	Somatochlora tenebrosa	Clamp-Tipped Emerald	S3			2	42 ±10
i	Gomphaeschna furcillata	Harlequin Darner	S3			1	95 ±0.1
i	Boyeria grafiana	Ocellated Darner	S3			1	30 ±1
i	Ophiogomphus carolus	Riffle Snaketail	S3			17	17 ±1
i	Lanthus parvulus	Northern Pygmy Clubtail	S3			9	50 ±0.1
i	Polygonia faunus	Green Comma	S3			2	72 ±1
i	Euphydryas phaeton	Baltimore Checkerspot	S3			4	56 ±1
i	Hesperia comma laurentina	Laurentian Skipper	S3			4	56 ±1
i	Hesperia comma	Common Branded Skipper	S3			1	79 ±1
a	Coccyzus erythropthalmus	Black-billed Cuckoo	S3?B			3	24 ±5
a	Mimus polyglottos	Northern Mockingbird	S3B			5	16 ±5
a	Sterna paradisaea	Arctic Tern	S3B			25	13 ±0.5
i	Polygonia interrogationis	Question Mark	S3B			2	56 ±1
a	Tringa melanoleuca	Greater Yellowlegs	S3B,S5M			49	3 ±0.5
a	Mergus serrator	Red-breasted Merganser	S3B,S5N			41	6 ±10

a	Limosa haemastica	Hudsonian Godwit	S3M	8	3 ±0.5
a	Numenius phaeopus	Whimbrel	S3M	15	3 ±0.5
a	Pluvialis dominica	American Golden-Plover	S3M	7	3 ±0.5
a	Calidris maritima	Purple Sandpiper	S3N	3	12 ±0.5
a	Synaptomys cooperi	Southern Bog Lemming	S3S4	4	44 ±10
a	Cardinalis cardinalis	Northern Cardinal	S3S4	1	88 ±5
a	Cepphus grylle	Black Guillemot	S3S4	62	3 ±10
i	Polygonia progne	Gray Comma	S3S4	3	56 ±1
i	Speyeria aphrodite	Aphrodite Fritillary	S3S4	1	64 ±10
i	Callophrys polios	Hoary Elfin	S3S4	1	34 ±1
a	Sayornis phoebe	Eastern Phoebe	S3S4B	8	44 ±5

4.3 RANGE MAPS

The legally protected taxa listed below are linked to the study area by predictive range maps based upon expert estimates of distribution. Taxa listed here but not in the observation data above, are unknown within the study area but perhaps present. Ranges of rank 1 indicate possible occurrence, those of rank 2 and 3 increasingly less probable.

	scientific name	common name	prov. rarity	prov. status	COSEWIC	range
a	Glyptemys insculpta	Wood Turtle	S3	Vulnerable	T	1
p	Listera australis	Southern Twayblade	S2			1
p	Isoetes prototypus	Prototype Quillwort	S2	Vulnerable	SC	1
a	Bucephala islandica	Barrow's Goldeneye (Eastern pop.)	S1N		SC	2
n	Erioderma pedicellatum	Boreal Felt Lichen (Atlantic pop.)	S1S2	Endangered	E	2
p	Juncus caesariensis	New Jersey Rush	S2	Vulnerable	SC	2
a	Charadrius melodus melodus	Piping Plover melodus ssp	S1B	Endangered	E	1
p	Eriocaulon parkeri	Parker's Pipewort			NAR	2

5.0 SOURCE BIBLIOGRAPHY

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Lingan October 21, 2011			
Species	Common Name	S-Rank	DNR Rank
Turbine 12,13 Abandoned Mine Land Reclamation			
Alnus incana	Speckled Alder	S5	Green
Rosa virginiana	Virginia Rose	S5	Green
Myrica pensylvanica	Northern Bayberry	S5	Green
Potentilla simplex	Old-Field Cinquefoil	S5	Green
Trifolium pratense	Red Clover	SE	n/a
Doellingeria umbellata	Parasol White-Top	S5	Green
Centaurea nigra	Black Starthistle	SE	n/a
Vicia cracca	Tufted Vetch	SE	n/a
Anaphalis margaritacea	Pearly Everlasting	S5	Green
Scirpus cyperinus	Cottongrass Bulrush	S5	Green
Tussilago farfara	Colt's Foot	SE	n/a
Salix bebbiana	Bebb's Willow	S5	Green
Tanacetum vulgare	Common Tansy	SE	n/a
Euthamia graminifolia	Flat-Top Fragrant-Golden-Rod	S5	Green
Senecio viscosus	Sticky Groundsel	SE	n/a
Juncus effusus	Soft Rush	S5	Green
Lotus corniculatus	Birds-Foot Trefoil	SE	n/a
Melilotus altissimus	Tall Yellow Sweetclover	SE	n/a
Solidago canadensis	Canada Goldenrod	S5	Green
Ranunculus acris	Tall Butter-Cup	SE	n/a
Spiraea alba	Narrow-Leaved Meadow-Sweet	S5	Green
Solidago rugosa	Rough-Leaf Goldenrod	S5	Green
Rubus idaeus	Red Raspberry	S5	Green
Rumex acetosella	Sheep Sorrel	SE	n/a
Rumex crispus	Curly Dock	SE	n/a
Picea glauca	White Spruce	S5	Green
Turbine 11			
Seeded Field	n/a	n/a	
Turbine 10 Abandoned Field			
Picea glauca	White Spruce	S5	Green
Acer rubrum	Red Maple	S5	Green
Betula papyrifera	Paper Birch	S5	Green
Viburnum nudum	Possum-Haw Viburnum	S5	Green
Doellingeria umbellata	Parasol White-Top	S5	Green
Abies balsamea	Balsam Fir	S5	Green
Populus tremuloides	Quaking Aspen	S5	Green
Trientalis borealis	Northern Starflower	S5	Green
Osmunda cinnamomea	Cinnamon Fern	S5	Green
Oclemena acuminata	Whorled Aster	S5	Green
Veronica officinalis	Gypsy-Weed	S5SE	Green
Dryopteris carthusiana	Spinulose Shield Fern	S5	Green
Cornus canadensis	Dwarf Dogwood	S5	Green
Clintonia borealis	Clinton Lily	S5	Green

Rubus allegheniensis	Allegheny Blackberry	S5	Green
Vaccinium angustifolium	Late Lowbush Blueberry	S5	Green
Pteridium aquilinum	Bracken Fern	S5	Green
Myrica pensylvanica	Northern Bayberry	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Aralia nudicaulis	Wild Sarsaparilla	S5	Green
Turbine 9 Upland Abandoned Field			
Picea glauca	White Spruce	S5	Green
Fagus grandifolia	American Beech	S5	Green
Acer rubrum	Red Maple	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Viburnum nudum	Possum-Haw Viburnum	S5	Green
Populus tremuloides	Quaking Aspen	S5	Green
Alnus incana	Speckled Alder	S5	Green
Pteridium aquilinum	Bracken Fern	S5	Green
Dennstaedtia punctilobula	Eastern Hay-Scented Fern	S5	Green
Doellingeria umbellata	Parasol White-Top	S5	Green
Betula populifolia	Gray Birch	S5	Green
Myrica pensylvanica	Northern Bayberry	S5	Green
Cornus canadensis	Dwarf Dogwood	S5	Green
Euthamia graminifolia	Flat-Top Fragrant-Golden-Rod	S5	Green
Oclemena acuminata	Whorled Aster	S5	Green
Prunus serotina	Wild Black Cherry	S5	Green
Nemopanthus mucronatus	Mountain Holly	S5	Green
Vaccinium angustifolium	Late Lowbush Blueberry	S5	Green
Trientalis borealis	Northern Starflower	S5	Green
Abies balsamea	Balsam Fir	S5	Green
Kalmia angustifolia	Sheep-Laurel	S5	Green
Viola cucullata	Marsh Blue Violet	S5	Green
Symphyotrichum lateriflorum	Farewell-Summer	S5	Green

Lingan Plant List June 17 and 18, 2010

Lingan			
Species	Common Name	S-Rank	DNR Status
Turbine 12			
Sisyrinchium montanum	Strict Blue-Eyed-Grass	S5	Green
Alnus crispus	Green Alder	S5	Green
Salix bebbiana	Bebb's Willow	S5	Green
Myrica pensylvanica	Northern Bayberry	S5	Green
Tanacetum vulgare	Common Tansy	SE	n/a
Moehringia lateriflora	Grove Sandwort	S5	Green
Trifolium campestre	Low Hop Clover	SE	n/a
Euthamnia graminifolia	Grass-leaved Goldenrod	S5	Green
Tussalago farfara	Coltsfoot	SE	n/a
Rosa virginiana	Virginia Rose	S5	Green
Trifolium pratense	Red Clover	SE	n/a
Plantago major	Nipple-Seed Plantain	SE	n/a
Anaphalis margaritacea	Pearly Everlasting	S5	Green
Solidago rugosa	Rough-Leaf Goldenrod	S5	Green
Symphyotrichum novi-belgii	New Belgium American-Aster	S5	Green
Centaurea nigra	Black Starthistle	SE	n/a
Linaria vulgaris	Butter-And-Eggs	SE	n/a
Aster umbellatus	Aster umbellatus	S5	Green
Cirsium vulgare	Bull Thistle	SE	n/a
Achillea millefolium	Common Yarrow	SE	n/a
Rubus idaeus	Red Raspberry	S5	Green
Galeopsis tetrahit	Brittle-Stem Hempnettle	SE	n/a
Photinia melanocarpa	Black Chokeberry	S5	Green
Spiraea alba	Narrow-Leaved Meadow-Sweet	S5	Green
Sibbaldiopsis tridentata	Three-Toothed Cinquefoil	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Turbine 13			
Betula cordifolia	Heart-leaved Birch	S5	Green
Pteridium aquilinum	Bracken Fern	S5	Green
Aster umbellatus	Tall White Aster	S5	Green
Viburnum nudum	Possum-Haw Viburnum	S5	Green
Alnus crispus	Green Alder	S5	Green
Maianthemum canadense	Wild Lily-of-The-Valley	S5	Green

Aralia nudicaulis	Wild Sarsaparilla	S5	Green
Alnus viridis	Green Alder	S5	Green
Populus tremuloides	Quaking Aspen	S5	Green
Spiraea alba	Narrow-Leaved Meadow-Sweet	S5	Green
Equisetum arvense	Field Horsetail	S5	Green
Cirsium arvense	Creeping Thistle	SE	n/a
Sambucus nigra ssp. canadensis	Common Elderberry	S5	Green
Calystegia sepium	Hedge Bindweed	S5	Green
Viburnum nudum	Possum-Haw Viburnum	S5	Green
Pteridium aquilinum	Bracken Fern	S5	Green
Nemopanthus mucronatus	Mountain Holly	S5	Green
Rubus allegheniensis	Allegheny Blackberry	S5	Green
Moehringia lateriflora	Grove Sandwort	S5	Green
Sisyrinchium montanum	Strict Blue-Eyed-Grass	S5	Green
Cornus canadensis	Dwarf Dogwood	S5	Green
Picea mariana	Black Spruce	S5	Green
Aster acuminatus	Whorled Wood Aster	S5	Green
Picea glauca	White Spruce	S5	Green
Trientalis borealis	Northern Starflower	S5	Green
Aster laterifolius	Calico Aster	S5	Green
Veronica officinalis	Gypsy-Weed	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Carex communis	Fibrous-Root Sedge	S5	Green
Prunus pensylvanica	Fire Cherry	S5	Green
Larix laricina	American Larch	S5	Green
Rosa virginiana	Virginia Rose	S5	Green
Centaurea nigra	Black Starthistle	SE	n/a
Amelanchier sp	Serviceberry	not a sp at risk	n/a
Malus pumila	Common Apple	SE	n/a
Nemopanthus mucronata	False Mountain Holly	S5	Green
Acer rubrum	Red Maple	S5	Green

Late Season Plant List Sept 18, 2009

Species	Common Name	S-Rank	DNR Status
Turbine 12			
Alnus crispus	Green Alder	S5	Green
Salix bebbiana	Bebb's Willow	S5	Green
Myrica pensylvanica	Northern Bayberry	S5	Green
Tanacetum vulgare	Common Tansy	SE	n/a
Moehringia lateriflora	Grove Sandwort	S5	Green
Trifolium campestre	Low Hop Clover	SE	n/a
Euthamnia graminifolia	Grass-leaved Goldenrod	S5	Green
Tussalago farfara	Coltsfoot	SE	n/a
Rosa virginiana	Virginia Rose	S5	Green
Trifolium pratense	Red Clover	SE	n/a
Plantago major	Nipple-Seed Plantain	SE	n/a
Anaphalis margaritacea	Pearly Everlasting	S5	Green
Solidago rugosa	Rough-Leaf Goldenrod	S5	Green
Symphyotrichum novi-belgii	New Belgium American-Aster	S5	Green
Centaurea nigra	Black Starthistle	SE	n/a
Linaria vulgaris	Butter-And-Eggs	SE	n/a
Aster umbellatus	Aster umbellatus	S5	Green
Cirsium vulgare	Bull Thistle	SE	n/a
Achillea millefolium	Common Yarrow	SE	n/a
Rubus idaeus	Red Raspberry	S5	Green
Galeopsis tetrahit	Brittle-Stem Hempnettle	SE	n/a
Photinia melanocarpa	Black Chokeberry	S5	Green
Spiraea alba	Narrow-Leaved Meadow-Sweet	S5	Green
Sibbaldiopsis tridentata	Three-Toothed Cinquefoil	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Turbine 13			
Species	**Common Name**	**S-Rank**	**DNR Status**
Betula cordifolia	Heart-leaved Birch	S5	Green
Pteridium aquilinum	Bracken Fern	S5	Green
Aster umbellatus	Tall White Aster	S5	Green
Viburnum nudum	Possum-Haw Viburnum	S5	Green
Alnus crispus	Green Alder	S5	Green
Maianthemum canadense	Wild Lily-of-The-Valley	S5	Green
Aralia nudicaulis	Wild Sarsaparilla	S5	Green
Cornus canadensis	Dwarf Dogwood	S5	Green
Picea mariana	Black Spruce	S5	Green
Aster acuminatus	Whorled Wood Aster	S5	Green
Picea glauca	White Spruce	S5	Green

Trientalis borealis	Northern Starflower	S5	Green
Aster laterifolius	Calico Aster	S5	Green
Veronica officinalis	Gypsy-Weed	S5	Green
Sorbus americana	American Mountain-Ash	S5	Green
Carex communis	Fibrous-Root Sedge	S5	Green
Prunus pensylvanica	Fire Cherry	S5	Green
Larix laricina	American Larch	S5	Green
Rosa virginiana	Virginia Rose	S5	Green
Centaurea nigra	Black Starthistle	SE	n/a
Amelanchier sp	Serviceberry	not a species at risk	n/a
Malus pumila	Common Apple	SE	n/a
Nemopanthus mucronata	False Mountain Holly	S5	Green
Acer rubrum	Red Maple	S5	Green