Appendices GHD | Beaver Dam Mine Project Environmental Impact Statement Marinette Nova Scotia | 088664 (4)



DATA REPORT 5262: Marinette, NS

Prepared 8 September 2014 by J. Churchill, Data Manager

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1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACCDC) is part of a network of NatureServe data centres and heritage programs serving 50 states in the U.S.A, 10 provinces and 1 territory in Canada, 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, and Newfoundland and Labrador. Although a non-governmental agency, the ACCDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC queries its database and produces customized reports of the rare and endangered flora and fauna known to occur in or near a specified study area. As a supplement to that data, the ACCDC includes locations of managed areas with some level of protection, and known sites of ecological interest or sensitivity.

1.1 DATA LIST

Included datasets:

Filename	Contents
MarinetteNS_5262ob.xls	All Rare and legally protected <i>Flora and Fauna</i> within 5 km of your study area
MarinetteNS_5262ob100km.xls	A list of Rare and legally protected <i>Flora and Fauna</i> within 100 km of your study area

1.2 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 accepting ACCDC data, recipients assent to the following limits of use:

- a) Data is restricted to use by trained personnel who are sensitive to landowner interests and to potential threats to rare and/or endangered flora and fauna posed by the information provided.
- 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, and to make a new request for updated data if necessary at that time.
- d) ACCDC data responses are restricted to the data in our Data System at the time of the data request.
- e) Each record has an estimate of locational uncertainty, which must be referenced in order to understand the record's relevance to a particular location. Please see attached Data Dictionary for details.
- f) ACCDC data responses are not to be construed as exhaustive inventories of taxa in an area.
- g) The absence of a taxon cannot be inferred by its absence in an ACCDC data response.

1.3 ADDITIONAL INFORMATION

The attached file DataDictionary 2.1.pdf provides metadata for the data provided.

Please direct any additional questions about ACCDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney, Botanist, Executive Director (effective 10 June, 2014)

Tel: (506) 364-2658 sblaney@mta.ca

Animals (Fauna)

John Klymko, Zoologist Tel: (506) 364-2660

jklymko@mta.ca

Data Management, GIS

James Churchill, Data Manager Tel: (902) 679-6146 jlchurchill@mta.ca **Plant Communities**

Sarah Robinson , Community Ecologist

Tel: (506) 364-2664 <u>srobinson@mta.ca</u>

Billing

Cindy Spicer Tel: (506) 364-2665 cspicer@mta.ca

Questions on the biology of Federal Species at Risk can be directed to ACCDC: (506) 364-2657, with questions on Species at Risk regulations to: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060 or Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in New Brunswick, please contact Stewart Lusk, Natural Resources: (506) 453-7110.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in Nova Scotia, please contact Sherman Boates, NSDNR: (902) 679-6146. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NSDNR Regional Biologist:

Western: Duncan Bayne (902) 648-3536 baynedz@gov.ns.ca

Eastern: Mark Pulsifer (902) 863-7523 pulsifmd@gov.ns.ca

Western: Donald Sam (902) 634-7525 samdx@gov.ns.ca

Eastern: Donald Anderson (902) 295-3949 andersdg@gov.ns.ca

Central: Shavonne Meyer (902) 893-6353 meyersi@gov.ns.ca

Eastern: Terry Power

powertd@gov.ns.ca

(902) 563-3370

(902) 893-5630 georgeka@gov.ns.ca

Central: Kimberly George

For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Rosemary Curley, PEI Dept. of Agriculture and Forestry: (902) 368-4807.

3.7 within 5s of kilometers

△ 2.7 within 500s of meters ◇ 2.0 within 100s of meters ◆ 1.7 within 10s of meters

△ 3.0 within kilometers

2.0 RARE AND ENDANGERED SPECIES

2.1 FLORA

A 5 km buffer around the study area contains no records of vascular, 14 records of 1 nonvascular flora (Map 2 and attached: *ob.xls).

2.2 FAUNA

A 5 km buffer around the study area contains 28 records of 9 vertebrate, no records of invertebrate fauna (Map 2 and attached data files - see 1.1 Data List). Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.

Map 2: Known observations of rare and/or protected flora and fauna within 5 km of the study area. ALCEamer **EMPIflav EMPIflay** EMPIflav POEChuds DENDcast EMPIflav DENDcast **EMPIflav** CONTCOOP **GAVIimme ERIOpedi EMPIflav** CHORmino **ERIOpedi EUPHcaro ERIOpedi** 5262 ERIOpedi ERIOpedi ERIOpedi **ERIO**pedi **ERIOpedi** ERIOpedi ERIOpedi ERIOpedi CONTcoop EUPHcaro TRINmela **ERIOpedi EMPIflav EMPIflav EMPIflay EMPIflay** RESOLUTION HIGHER TAXON 4.7 within 50s of kilometers vertebrate fauna ■ 4.0 within 10s of kilometers invertebrate fauna

vascular flora

nonvascular flora

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3.0 SPECIAL AREAS

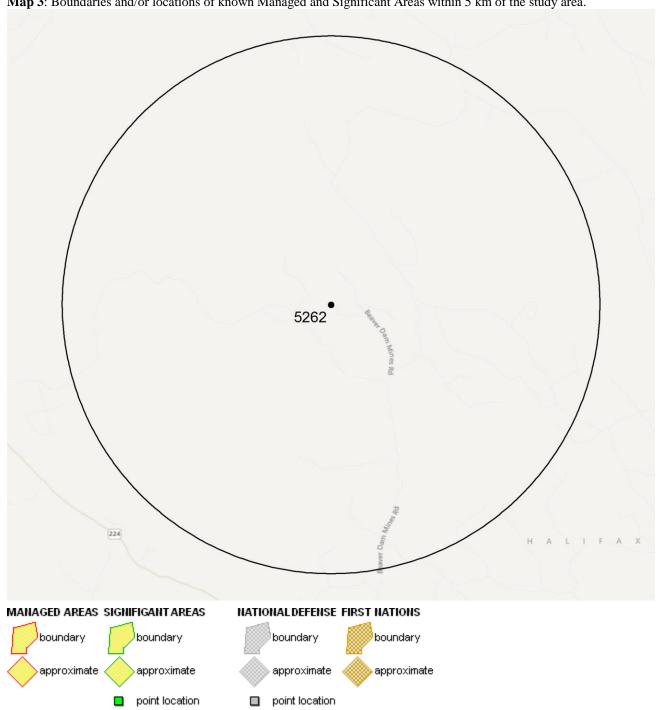
3.1 MANAGED AREAS

The GIS scan identified no managed areas in the vicinity of the study area (Map 3)

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3)

Map 3: Boundaries and/or locations of known Managed and Significant Areas within 5 km of the study area.



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4.0 RARE SPECIES LISTS

Rare and/or endangered taxa within the 5 km-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	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
Ν	Erioderma pedicellatum (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1S2	1 At Risk	14	0.8 ± 0.01
4.2 FAUNA									
7.4	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
Α	Gavia immer	Common Loon	Not At Risk	07.11.01	1 10 V Logar 1 10t	S3B.S4N	2 May Be At Risk	1	1.4 ± 0.15
A	Euphagus carolinus	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	2 May Be At Risk	2	1.6 ± 0.15
Α	Chordeiles minor	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	3	0.6 ± 0.15
Α	Contopus cooperi	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	4	1.8 ± 0.15
Α	Alces americanus	Moose			Endangered	S1	1 At Risk	2	4.7 ± 0.5
Α	Tringa melanoleuca	Greater Yellowlegs				S3B,S5M	3 Sensitive	3	1.8 ± 0.15
Α	Empidonax flaviventris	Yellow-bellied Flycatcher				S3S4B	3 Sensitive	10	2.5 ± 0.15

S3

S3S4B

3 Sensitive

3 Sensitive

 4.8 ± 0.15

 2.3 ± 0.15

4.3 LOCATION SENSITIVE SPECIES

The Department of Natural Resources in each Maritimes province considers a number of species "location sensitive". Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting your study area are indicated below.

Nova Scotia

Poecile hudsonica

Dendroica castanea

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within 5 km of Study Site?
Fraxinus nigra	Black Ash		Threatened	No
Glyptemys insculpta	Wood Turtle	Threatened	Threatened	No
Emydoidea blandingii	Blanding's Turtle - Nova Scotia pop.	Endangered	Vulnerable	No
Falco peregrinus pop. 1	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Vulnerable	No
Bat Hibernaculum			[Endangered] ¹	No

Boreal Chickadee

Bay-breasted Warbler

4.4 SOURCE BIBLIOGRAPHY

The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

# recs	CITATION
26	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
10	Neily, T.M. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
2	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
2	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
1	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
1	Benjamin J. K. (compiler) 2007. Significant Habitat & Species Database, Nova Scotia Dept Natural Resources, 8439 recs

¹ Myotis lucifugus (Little Brown Myotis), Myotis septentrionalis (Long-eared Myotis), and Perimyotis subflavus (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the NS Endangered Species Act.

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5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 15757 records of 114 vertebrate and 924 records of 65 invertebrate fauna; 3145 records of 269 vascular, 467 records of 30 nonvascular flora (attached: *ob100km.xls).

Rare and/or endangered taxa within the 100 km-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.

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	Myotis lucifugus	Little Brown Myotis	Endangered	•	Endangered	S1	1 At Risk	35	31.6 ± 0.5
A	Myotis septentrionalis	Northern Long-eared Myotis	Endangered		Endangered	S1	1 At Risk	4	31.8 ± 0.15
A	Perimyotis subflavus	Eastern Pipistrelle	Endangered		Endangered	S1	1 At Risk	5	57.0 ± 0.2
Α	Morone saxatilis pop. 2	Striped Bass- Bay of Fundy pop.	Endangered			S1	2 May Be At Risk	2	56.2 ± 0.5
Α	Charadrius melodus melodus	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B	1 At Risk	774	28.5 ± 0.5
Α	Sterna dougallii	Roseate Tern	Endangered	Endangered	Endangered	S1B	1 At Risk	56	34.0 ± 0.5
Α	Salmo salar pop. 1	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered		S2	2 May Be At Risk	18	34.9 ± 0.5
Α	Calidris canutus rufa	Red Knot rufa ssp	Endangered		Endangered	S2S3M	1 At Risk	101	51.9 ± 0.5
Α	Colinus virginianus	Northern Bobwhite	Endangered	Endangered	•			1	47.1 ± 0.15
Α	Acipenser oxyrinchus	Atlantic Sturgeon	Threatened	J. 1		S1?	2 May Be At Risk	2	53.3 ± 0.5
A	Caprimulgus vociferus	Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B	1 At Risk	11	37.0 ± 7.07
A	Hylocichla mustelina	Wood Thrush	Threatened	111100101100	111100101100	S1B	5 Undetermined	35	22.6 ± 0.15
A	Glyptemys insculpta	Wood Turtle	Threatened	Threatened	Threatened	S2	3 Sensitive	202	16.6 ± 1.0
A	Chaetura pelagica	Chimney Swift	Threatened	Threatened	Endangered	S2S3B	1 At Risk	137	5.7 ± 7.07
A	Hirundo rustica	Barn Swallow	Threatened	Tillediciled	Endangered	S3B	1 At Risk	731	5.7 ± 7.07 5.7 ± 7.07
A	Wilsonia canadensis	Canada Warbler	Threatened	Threatened	Endangered	S3B	1 At Risk	633	5.7 ± 7.07 5.7 ± 7.07
A	Chordeiles minor	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	339	0.6 ± 0.15
A	Contopus cooperi	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	723	1.4 ± 0.15
A	Riparia riparia	Bank Swallow	Threatened	Tilleaterieu	Tilleaterieu	S3B	2 May Be At Risk	282	1.4 ± 0.15 16.0 ± 7.07
					V/ de e selel e	S3S4B			
A	Dolichonyx oryzivorus	Bobolink	Threatened		Vulnerable		3 Sensitive	390	18.7 ± 0.15
Α	Anguilla rostrata	American Eel	Threatened			S5	4 Secure	5	45.8 ± 0.5
Α	Morone saxatilis pop. 1	Striped Bass- Southern Gulf of St Lawrence pop.	Special Concern			S1	2 May Be At Risk	1	89.2 ± 1.0
Α	Falco peregrinus pop. 1	Peregrine Falcon - anatum/tundrius	Special Concern	Special Concern	Vulnerable	S1B	3 Sensitive	2	66.2 ± 0.15
Α	Passerculus sandwichensis princeps	Savannah Sparrow princeps ssp	Special Concern	Special Concern		S1B	3 Sensitive	3	32.0 ± 0.15
Α	Bucephala islandica (Eastern pop.)	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern		S1N	1 At Risk	1	71.4 ± 0.1
Α	Asio flammeus	Short-eared Owl	Special Concern	Special Concern		S1S2	2 May Be At Risk	8	54.7 ± 7.07
Α	Histrionicus histrionicus pop. 1	Harleguin Duck - Eastern pop.	Special Concern	Special Concern	Endangered	S2N	1 At Risk	21	30.9 ± 2.45
Α	Euphagus carolinus	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	2 May Be At Risk	226	1.6 ± 0.15
A	Chelydra serpentina	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	3 Sensitive	66	15.4 ± 0.1
A	Contopus virens	Eastern Wood-Pewee	Special Concern		Vulnerable	S3S4B	3 Sensitive	490	8.5 ± 7.07
A	Tryngites subruficollis	Buff-breasted Sandpiper	Special Concern		· u	SNA	8 Accidental	2	63.9 ± 0.5
A	Sorex dispar	Long-tailed Shrew	Not At Risk	Special Concern		S1	3 Sensitive	2	90.7 ± 0.2
A	Accipiter cooperii	Cooper's Hawk	Not At Risk	opecial Concern		S1?B.SNAN	5 Undetermined	4	54.5 ± 0.15
A	Fulica americana	American Coot	Not At Risk			S1B	5 Undetermined	7	68.2 ± 7.07
A	Aegolius funereus	Boreal Owl	Not At Risk			S1B S1B	5 Undetermined	13	39.7 ± 7.07
A	Globicephala melas	Long-finned Pilot Whale	Not At Risk			S2S3	5 Ondetermined	13	39.7 ± 7.07 22.9 ± 100.0
	Hemidactylium scutatum	Four-toed Salamander					4 Coouro	-	22.9 ± 100.0 51.4 ± 5.0
A			Not At Risk			S3	4 Secure	25	
A	Sterna hirundo	Common Tern	Not At Risk			S3B	3 Sensitive	244	25.6 ± 7.07
A	Sialia sialis	Eastern Bluebird	Not At Risk			S3B	3 Sensitive	41	27.1 ± 7.07
Α	Gavia immer	Common Loon	Not At Risk			S3B,S4N	2 May Be At Risk	599	1.4 ± 0.15

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Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A	Accipiter gentilis	Northern Goshawk	Not At Risk			S3S4	4 Secure	92	5.7 ± 7.07
Α	Puma concolor pop. 1	Cougar - Eastern pop.	Data Deficient			SH	5 Undetermined	69	6.0 ± 1.0
A	Alces americanus	Moose			Endangered	S1	1 At Risk	26	4.7 ± 0.5
A	Lasiurus cinereus	Hoary Bat				S1	2 May Be At Risk	2	58.7 ± 0.5
A	Toxostoma rufum	Brown Thrasher				S1?B	5 Undetermined	12	54.7 ± 7.07
A	Vireo gilvus	Warbling Vireo				S1?B	5 Undetermined	17	30.4 ± 7.07
A	Tringa solitaria	Solitary Sandpiper				S1?B.S4S5M	4 Secure	11	58.8 ± 0.5
A	Larus delawarensis	Ring-billed Gull				S1?B.S5N	4 Secure	5	28.7 ± 7.07
A	Nycticorax nycticorax	Black-crowned Night-heron				S1B	2 May Be At Risk	1	97.9 ± 7.07
A	Gallinula chloropus	Common Moorhen				S1B	5 Undetermined	6	69.9 ± 7.07
A	Progne subis	Purple Martin				S1B	2 May Be At Risk	3	53.7 ± 7.07
A	Fratercula arctica	Atlantic Puffin				S1B.S4S5N	3 Sensitive	2	36.8 ± 7.07
A	Calidris minutilla	Least Sandpiper				S1B,S5M	4 Secure	296	51.9 ± 0.5
		American Three-toed							
Α	Picoides dorsalis	Woodpecker				S1S2	5 Undetermined	4	53.7 ± 7.07
Α	Passerina cyanea	Indigo Bunting				S1S2B	5 Undetermined	9	53.7 ± 7.07
A	Eremophila alpestris	Horned Lark				S1S2B,S4N	4 Secure	4	28.7 ± 7.07
A	Charadrius semipalmatus	Semipalmated Plover				S1S2B,S5M	4 Secure	464	51.9 ± 0.5
A	Asio otus	Long-eared Owl				S132B,33W	2 May Be At Risk	32	29.4 ± 0.15
A	Salmo salar	Atlantic Salmon				S2 S2	2 May Be At Risk	73	6.2 ± 0.5
A	Vireo philadelphicus	Philadelphia Vireo				S2?B	5 Undetermined	27	6.4 ± 7.07
A	Anas acuta	Northern Pintail				S2B	2 May Be At Risk	11	53.7 ± 7.07
A		Northern Shoveler				S2B	,	6	49.1 ± 7.07
A	Anas clypeata Anas strepera	Gadwall				S2B	2 May Be At Risk	21	49.1 ± 7.07 37.9 ± 0.15
A	Rallus limicola	Virginia Rail				S2B S2B	2 May Be At Risk5 Undetermined	26	56.8 ± 7.07
A	Empidonax traillii					S2B	3 Sensitive	20	37.0 ± 7.07
	•	Willow Flycatcher							
A	Myiarchus crinitus	Great Crested Flycatcher				S2B	2 May Be At Risk	14	55.0 ± 7.07
A	Piranga olivacea	Scarlet Tanager				S2B	5 Undetermined	13	30.3 ± 7.07
A	Rissa tridactyla	Black-legged Kittiwake				S2B,S4S5N	3 Sensitive	1	71.4 ± 0.15
A	Bucephala clangula	Common Goldeneye				S2B,S5N	4 Secure	108	5.7 ± 7.07
A	Cathartes aura	Turkey Vulture				S2S3B	3 Sensitive	8	47.1 ± 0.15
A	Tringa semipalmata	Willet				S2S3B	2 May Be At Risk	516	25.6 ± 7.07
A	Pooecetes gramineus	Vesper Sparrow				S2S3B	2 May Be At Risk	23	46.6 ± 7.07
A	Molothrus ater	Brown-headed Cowbird				S2S3B	4 Secure	80	17.2 ± 7.07
A	Icterus galbula	Baltimore Oriole				S2S3B	2 May Be At Risk	43	24.0 ± 7.07
Α	Phalaropus lobatus	Red-necked Phalarope				S2S3M	3 Sensitive	3	71.5 ± 0.5
A	Phalaropus fulicarius	Red Phalarope				S2S3M	3 Sensitive	1	78.0 ± 0.5
Α	Phalacrocorax carbo	Great Cormorant				S3	3 Sensitive	78	28.7 ± 7.07
Α	Poecile hudsonica	Boreal Chickadee				S3	3 Sensitive	585	4.8 ± 0.15
Α	Coccyzus erythropthalmus	Black-billed Cuckoo				S3?B	2 May Be At Risk	78	17.2 ± 7.07
Α	Dendroica tigrina	Cape May Warbler				S3?B	3 Sensitive	112	6.4 ± 7.07
Α	Pinicola enucleator	Pine Grosbeak				S3?B,S5N	2 May Be At Risk	114	5.7 ± 7.07
Α	Podilymbus podiceps	Pied-billed Grebe				S3B	3 Sensitive	90	30.3 ± 7.07
Α	Anas discors	Blue-winged Teal				S3B	2 May Be At Risk	93	14.5 ± 7.07
Α	Sterna paradisaea	Arctic Tern				S3B	2 May Be At Risk	57	27.2 ± 0.5
Α	Petrochelidon pyrrhonota	Cliff Swallow				S3B	2 May Be At Risk	208	22.1 ± 7.07
Α	Dumetella carolinensis	Gray Catbird				S3B	2 May Be At Risk	314	5.7 ± 7.07
Α	Mimus polyglottos	Northern Mockingbird				S3B	4 Secure	23	54.7 ± 7.07
Α	Tringa melanoleuca	Greater Yellowlegs				S3B,S5M	3 Sensitive	466	1.8 ± 0.15
Α	Mergus serrator	Red-breasted Merganser				S3B,S5N	4 Secure	70	28.7 ± 7.07
Α	Larus argentatus	Herring Gull				S3B,S5N	4 Secure	4	94.8 ± 7.07
Α	Pluvialis dominica	American Golden-Plover				S3M	3 Sensitive	52	58.1 ± 0.5
Α	Numenius phaeopus hudsonicus	Hudsonian Whimbrel				S3M	3 Sensitive	52	51.9 ± 0.5
A	Limosa haemastica	Hudsonian Godwit				S3M	3 Sensitive	28	63.9 ± 0.5
Α	Calidris pusilla	Semipalmated Sandpiper				S3M	3 Sensitive	425	51.9 ± 0.5
A	Calidris maritima	Purple Sandpiper				S3N	3 Sensitive	24	35.4 ± 12.9
A	Cepphus grylle	Black Guillemot				S3S4	4 Secure	57	28.7 ± 7.07

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A Processe activated Black-backed Woodpecker \$354 3 Sensitive 405 57.4 707 A Processes activated \$35.4 1 \$3.4 \$3	Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
A Cardinalis cardinalis Northeric Cardinal of Bostonium (annum in implication) SSS44 A Secure 38 4.7 ± 7.07 A Dennium in implication (annum in implication) Kiloser SSS46 3 Sensitive 203 15.9 ± 7.07 A Cardinalis scolerus Kiloser SSS46 3 Sensitive 301 15.9 ± 7.07 A Cardinalis scolerus Wilcon's Siloser SSS46 3 Sensitive 401 15.9 ± 7.07 A Empiricans flavierinis Yellov-beilledi Prysatcher SSS48 3 Sensitive 401 15.2 ± 7.07 A Symmity flowber Eastern Photobe SSS48 3 Sensitive 401 15.2 ± 1.07 A Cardinalis and particular score in the control of the	Α	Picoides arcticus	Black-backed Woodpecker						143	5.7 ± 7.07
A Cardinalis cardinalis	Α	Perisoreus canadensis	Gray Jay				S3S4	3 Sensitive	405	5.7 ± 7.07
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A chelle moutuhises Spotted Sandpiper S354B 3 Sensitive 525 57 + 707 A Gallingo delicate Wilson's Signature S354B 3 Sensitive 57 + 707 A Empiricant Relevant Rele	Α	Botaurus lentiginosus	American Bittern				S3S4B	3 Sensitive	223	15.0 ± 7.07
A Gallinago delicate	Α	Charadrius vociferus	Killdeer				S3S4B	3 Sensitive	395	15.8 ± 7.07
A Gallinago delicate	Α	Actitis macularius	Spotted Sandpiper				S3S4B	3 Sensitive	525	5.7 ± 7.07
A	Α	Gallinago delicata						3 Sensitive	401	
A Silyonis phoebe	Α								550	
A Tyramus pramus Eastern Kingbird S184B 3 Sensitive 171 16.0 ± 7.07	Α							3 Sensitive	159	
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Somatochlora fanklini	i i							2 May Bo At Dick		
Williamsonia fletcheri	i i									
Coenagrion resolutum	<u> </u>									
Enallagma signatum	i									
Callophrys lanoraieensis	i	3								
Nymphalis Jalbum	i i									
1	<u> </u>									
Somalochlora kennedyi										
Stylurus scudderi	!									
Thorybes pylades	!									
Amblyscirtes hegon	!									
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Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
1	Erynnis juvenalis	Juvenal's Duskywing				S2S3	4 Secure	32	71.0 ± 1.0
1	Alasmidonta undulata	Triangle Floater				S2S3	4 Secure	24	17.4 ± 0.1
i	Hesperia comma	Common Branded Skipper				S3	4 Secure	34	25.9 ± 1.0
i	Satyrium liparops	Striped Hairstreak				S3	5 Undetermined	5	28.5 ± 0.2
i	Satyrium liparops strigosum	Striped Hairstreak				S3	3 Sensitive	2	85.7 ± 0.5
i	Euphydryas phaeton	Baltimore Checkerspot				S3	4 Secure	20	23.2 ± 0.5
i	Polygonia faunus	Green Comma				S3	4 Secure	15	27.4 ± 0.01
1	Lethe anthedon	Northern Pearly-Eye				S3	4 Secure	51	15.2 ± 7.07
1	Lanthus parvulus	Northern Pygmy Clubtail				S3	4 Secure	32	36.0 ± 0.05
		Riffle Snaketail				S3	4 Secure	32 25	39.8 ± 1.0
!	Ophiogomphus carolus					S3			
!	Aeshna clepsydra	Mottled Darner				S3 S3	4 Secure	12 17	45.9 ± 1.0
!	Aeshna constricta	Lance-Tipped Darner					4 Secure		44.1 ± 1.0
!	Boyeria grafiana	Ocellated Darner				S3	3 Sensitive	7	40.5 ± 1.0
!	Gomphaeschna furcillata	Harlequin Darner				S3	3 Sensitive	3	80.0 ± 1.0
I	Somatochlora tenebrosa	Clamp-Tipped Emerald				S3	4 Secure	12	59.7 ± 1.0
I	Nannothemis bella	Elfin Skimmer				S3	4 Secure	13	62.0 ± 0.5
I	Sympetrum danae	Black Meadowhawk				S3	3 Sensitive	5	62.3 ± 1.0
I	Amphiagrion saucium	Eastern Red Damsel				S3	4 Secure	2	43.3 ± 0.01
1	Polygonia interrogationis	Question Mark				S3B	4 Secure	105	28.5 ± 0.2
1	Vanessa virginiensis	American Lady				S3B	8 Accidental	1	99.0 ± 0.01
1	Feniseca tarquinius	Harvester				S3S4	4 Secure	45	53.1 ± 1.0
1	Callophrys polios	Hoary Elfin				S3S4	4 Secure	17	71.4 ± 1.0
1	Speyeria cybele	Great Spangled Fritillary				S3S4	4 Secure	1	66.8 ± 5.0
1	Speyeria cybele cybele	Great Spangled Fritillary				S3S4	4 Secure	1	67.8 ± 0.01
i	Speyeria aphrodite	Aphrodite Fritillary				S3S4	4 Secure	13	53.4 ± 100.0
i	Polygonia progne	Grey Comma				S3S4	4 Secure	22	23.4 ± 10.0
N	Erioderma mollissimum	Graceful Felt Lichen	Endangered		Endangered	S1S2	2 May Be At Risk	5	16.4 ± 0.1
		Boreal Felt Lichen - Atlantic	•		J		•		
N	Erioderma pedicellatum (Atlantic pop.)	pop.	Endangered	Endangered	Endangered	S1S2	1 At Risk	360	0.8 ± 0.01
N	Fissidens exilis	Pygmy Pocket Moss Frosted Glass-whiskers Lichen	Special Concern			S1?	1 At Risk	1	97.3 ± 1.5
N	Sclerophora peronella (Nova Scotia pop.)	- Nova Scotia pop.	Special Concern	Special Concern		S1?		3	20.1 ± 0.01
N	Degelia plumbea	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S2	4 Secure	33	13.4 ± 0.01
N	Pseudevernia cladonia	Ghost Antler Lichen	Not At Risk	•		S2S3	3 Sensitive	6	34.5 ± 0.01
N	Aloina rigida	Aloe-Like Rigid Screw Moss				S1	2 May Be At Risk	1	90.2 ± 0.1
N	Bryohaplocladium microphyllum	Tiny-leaved Haplocladium				S1	,	1	66.8 ± 5.0
N	Fuscopannaria leucosticta	Moss Rimmed Shingles Lichen				S1S2	2 May Be At Risk	3	5.9 ± 0.01
N	Leptogium subtile	Appressed Jellyskin Lichen				S1S2 S1S3	3 Sensitive	3 1	22.2 ± 0.01
N	Eurhynchium hians	Light Beaked Moss				S2?	3 Sensitive	2	38.1 ± 25.0
N N	Paludella squarrosa	Tufted Fen Moss				S2? S2?	3 Sensitive	1	98.1 ± 25.0
N N	Sematophyllum marylandicum	a Moss				S2? S2?	3 Sensitive 3 Sensitive	1	98.1 ± 0.1 75.1 ± 3.0
								1	
N	Sphagnum subnitens	Lustrous Peat Moss				S2?	3 Sensitive		37.7 ± 2.0
N	Timmia megapolitana	Metropolitan Timmia Moss				S2?	3 Sensitive	1	85.2 ± 0.01
N	Zygodon conoideus	a Moss				S2?	3 Sensitive	1	21.3 ± 5.0
N	Cyrtomnium hymenophylloides	Short-pointed Lantern Moss				S2?	3 Sensitive	1_	80.3 ± 5.0
N	Sphagnum wulfianum	Wulf's Peat Moss				S2S3	3 Sensitive	7	52.9 ± 0.01
N	Tetraplodon angustatus	Toothed-leaved Nitrogen Moss				S2S3	3 Sensitive	1	37.7 ± 2.0
N	Hylocomiastrum pyrenaicum	a Feather Moss				S2S3	3 Sensitive	1	84.2 ± 0.5
N	Collema nigrescens	Blistered Tarpaper Lichen				S2S3	3 Sensitive	3	23.6 ± 0.1
N	Leptogium teretiusculum	Beaded Jellyskin Lichen				S2S3	3 Sensitive	2	39.7 ± 0.01
N	Leptogium corticola	Blistered Jellyskin Lichen				S2S3	3 Sensitive	13	7.8 ± 0.01
N	Physconia detersa	Bottlebrush Frost Lichen				S2S3	3 Sensitive	1	17.8 ± 0.01
N	Peltigera collina	Tree Pelt Lichen				S2S3	3 Sensitive	1	28.3 ± 0.1
N	Usnea flammea	Coastal Bushy Beard Lichen				S2S3	3 Sensitive	1	93.4 ± 1.0
N	Anzia colpodes	Black-foam Lichen				S3?	3 Sensitive	2	17.8 ± 0.01
N	Sticta fuliginosa	Peppered Moon Lichen				S3?	3 Sensitive	10	13.4 ± 0.01
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Note Note Note Content for foreigned Security Security	Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P Burdens Bullemat						·				
P Burdens Bullemat	N	Collema furfuraceum	Blistered Tarpaper Lichen				S3?	3 Sensitive	2	13.4 ± 0.01
P		Juglans cinerea		Endangered	Endangered			7 Exotic		95.1 ± 0.01
P	Р	Bartonia paniculata ssp. paniculata	Branched Bartonia	Threatened	Threatened		SNA		1	16.0 ± 10.0
P	Р			Threatened					1	82.2 ± 0.03
P	Р	Clethra alnifolia	Coast Pepper-Bush	Special Concern	Special Concern	Vulnerable	S1	3 Sensitive	2	81.1 ± 0.1
P	Р			Special Concern		Vulnerable	S2	3 Sensitive		89.6 ± 0.05
P	Р							3 Sensitive	3	50.4 ± 7.07
P	Р					Endangered	S1	1 At Risk	2	96.4 ± 1.6
P	Р	Cypripedium arietinum				Endangered	S1	1 At Risk	8	97.3 ± 0.01
P Sanculo odorela Clustered Sancide S1 2 May Be A Risk 4 7 52.6 s t 0.01	Р					· ·		2 May Be At Risk		98.4 ± 0.5
P	Р	Sanicula odorata	Clustered Sanicle				S1		7	52.6 ± 0.01
P	Р	Zizia aurea	Golden Alexanders				S1	2 May Be At Risk	41	19.3 ± 1.0
P Ageratina altisesima Larger Contwort S1 2 May Be AR Risk 2 0.0 5 ± 7.07	Р	Antennaria parlinii	a Pussytoes				S1	2 May Be At Risk	4	69.9 ± 0.01
P Cardamine maxima	Р	Bidens hyperborea	Estuary Beggarticks				S1	2 May Be At Risk	1	90.7 ± 1.0
P	Р	Ageratina altissima	White Snakeroot				S1	2 May Be At Risk	2	90.5 ± 7.07
Description Pale-Spiked Lobelia Pale-Spiked Lobelia Pale-Spiked Lobelia S1 2 May Pic At Risk 1 75.0 a 7.07	Р	Cardamine maxima	Large Toothwort				S1	2 May Be At Risk	1	64.6 ± 0.01
P	Р	Cochlearia tridactylites	Limestone Scurvy-grass				S1	2 May Be At Risk	8	45.4 ± 0.01
P	Р	Lobelia spicata	Pale-Spiked Lobelia				S1	2 May Be At Risk	1	75.0 ± 7.07
P	Р	Suaeda maritima ssp. richii	White Sea-blite				S1	5 Undetermined	2	95.3 ± 1.0
P	Р	Hudsonia tomentosa	Woolly Beach-heath				S1	2 May Be At Risk	6	66.0 ± 7.07
P	Р	Hypericum majus	Large St John's-wort				S1	2 May Be At Risk	2	79.9 ± 0.01
P	Р	Cuscuta cephalanthi	Buttonbush Dodder				S1	2 May Be At Risk	5	63.2 ± 1.2
P	Р	Desmodium canadense	Canada Tick-trefoil				S1	2 May Be At Risk	20	48.7 ± 0.01
P	Р	Desmodium glutinosum	Large Tick-Trefoil				S1	2 May Be At Risk	3	96.3 ± 0.01
P	Р	Ribes americanum	Wild Black Currant				S1	5 Undetermined	2	55.3 ± 5.0
P	Р	Proserpinaca intermedia	Intermediate Mermaidweed				S1	2 May Be At Risk	1	45.7 ± 0.9
P	Р	Fraxinus pennsylvanica	Red Ash				S1	2 May Be At Risk	3	89.2 ± 5.0
P Montia fontaina		Polygala polygama	Racemed Milkwort					5 Undetermined	1	82.8 ± 1.0
P Ranunculus pensylvanicus Pennsylvania Buttercup S1		Polygonum careyi	Carey's Smartweed				S1	5 Undetermined	1	40.8 ± 3.0
P Galium aparine Common Bedstraw S1 7 Exotic 4 41.6 ± 0.3 P Dirca palustris Eastern Leatherwood S1 2 May Be At Risk 8 56.8 ± 7.07 P Pilea pumila Dwarf Clearweed S1 2 May Be At Risk 4 45.6 ± 0.01 P Viola canadensis Canada Violet S1 0.1 Extirpated 1 50.4 ± 7.07 P Carex diopeccidea Foxtail Sedge S1 2 May Be At Risk 2 97.1 ± 0.5 P Carex garberi Garber's Sedge S1 2 May Be At Risk 4 47.1 ± 0.01 P Carex haydenii Hayden's Sedge S1 2 May Be At Risk 4 47.1 ± 0.01 P Carex haydenii Hayden's Sedge S1 2 May Be At Risk 4 47.1 ± 0.01 P Carex pellita Woolly Sedge S1 2 May Be At Risk 10 17.2 ± 10.0 P Carex pellita Woolly Sedge S1 2 May Be At Risk 10 17.2 ± 10.0 P Carex huckermanii Tuckerman's Sedge S1 2 May Be At Risk 2 59.8 ± 0.01 P Carex tuckermanii Tuckerman's Sedge S1 2 May Be At Risk 2 59.8 ± 0.05 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 2 59.8 ± 0.05 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 3 38.3 ± 0.01 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 3 38.2 ± 0.01 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 3 38.2 ± 0.01 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 4 40.8 ± 2.0 P Scirpus pedicellatus Stalked Bulrush S1 2 May Be At Risk 5 58.8 ± 0.07 P Scirpus pedicellatus Stalked Bulrush S1 2 May Be At Risk 1 47.7 ± 0.02 P Allium triococum Wild Leek S1 2 May Be At Risk 1 47.7 ± 0.02 P Allium triococum Wild Leek S1 2 May Be At Risk 1 47.7 ± 0.02 P Elymus viegandii Wiegand's Wild Rye S1 2 May Be At Risk 1 47.2 ± 0.0 P Elymus viegandii Wiegand's Wild Rye S1 2 May Be At Risk 1 47.2 ± 0.0 P Elymus viegandii Wiegand's Wild Rye S1 2 May Be At Risk 1 47.2 ±		Montia fontana	Water Blinks					2 May Be At Risk	1	84.4 ± 1.0
P Dira palustris Eastern Leatherwood S1 2 May Be At Risk 8 56.8 ± 7.07	•	Ranunculus pensylvanicus	Pennsylvania Buttercup					2 May Be At Risk	1	94.6 ± 0.01
P Pilea pumila									-	
P Viola canadensis Canada Violet S1 0.1 Extirpated 1 50.4 ± 7.07	•	Dirca palustris						2 May Be At Risk	8	56.8 ± 7.07
P Carex alopecoidea Foxtail Sedge S1 2 May Be At Risk 2 97.1 ± 0.5 P Carex garberi Garber's Sedge S1 2 May Be At Risk 4 47.1 ± 0.01 P Carex haydenii Hayden's Sedge S1 2 May Be At Risk 4 47.1 ± 0.01 P Carex pellita Woolly Sedge S1 2 May Be At Risk 10 17.2 ± 10.0 P Carex plantaginea Plantain-Leaved Sedge S1 2 May Be At Risk 3 28.3 ± 0.01 P Carex tincta Tinged Sedge S1 2 May Be At Risk 3 28.3 ± 0.01 P Carex tincta Tinged Sedge S1 2 May Be At Risk 3 28.3 ± 0.01 P Carex tincta Tinged Sedge S1 2 May Be At Risk 12 59.8 ± 0.05 P Carex tincta Tinged Sedge S1 2 May Be At Risk 12 59.8 ± 0.05 P Carex tincta Carex tincta Tinged Sedge S1 2 May Be At Risk 12 59.8 ± 0.05 P Carex viridula ssp. brachyrrhyncha Greenish Sedge S1 2 May Be At Risk 3 32.0 ± 0.3 P Carex wiegandii Wiegand's Sedge S1 2 May Be At Risk 3 32.0 ± 0.3 P Carex grisea Inflated Narrow-leaved Sedge S1 2 May Be At Risk 5 86.9 ± 0.01 P Cyperus lupulinus ssp. macilentus Hop Flatsedge S1 2 May Be At Risk 5 86.9 ± 0.01 P Scirpus pedicellatus Stalked Bulrush S1 5 Undetermined 5 31.0 ± 0.01 P Iris prismatica Slender Blue Flag S1 2 May Be At Risk 2 58.8 ± 7.07 P Juncus vaseyi Vasey Rush S1 2 May Be At Risk 2 58.8 ± 7.07 P Allium tricoccum Wild Leek S1 2 May Be At Risk 8 51.9 ± 0.5 P Bromus latiglumis Broad-Glumed Brome S1 2 May Be At Risk 2 86.6 ± 0.01 P Elymus wiegandii Wiegand's Wild Rye S1 2 May Be At Risk 17 28.6 ± 0.01 P Elymus wiegandii Wiegand's Wild Rye S1 2 May Be At Risk 17 28.6 ± 0.01 P Elymus hystrix var. bigeloviana Spreading Wild Rye S1 2 May Be At Risk 3 2 May Be At Risk 3										
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P Potamogeton nodosus Long-leaved Pondweed S1 2 May Be At Risk 1 57.7 ± 5.0										
	Р	Potamogeton nodosus	Long-leaved Pondweed				S1	2 May Be At Risk	1	57.7 ± 5.0

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Croup	Scientific Name	Common Name	COSEWIC	SARA	Broy Logal Brot	Drov Bority Book	Dray CS Bank	# ***	Distance (km)
Group	Scientific Name		COSEWIC	SAKA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
P	Adiantum pedatum	Northern Maidenhair Fern				S1	2 May Be At Risk	6	57.1 ± 1.0
P	Botrychium lunaria	Common Moonwort				S1	2 May Be At Risk	3	68.3 ± 2.0
P	Hieracium kalmii var. fasciculatum	Kalm's Hawkweed				S1?	5 Undetermined	2	67.5 ± 1.0
P	Solidago hispida	Hairy Goldenrod				S1?	2 May Be At Risk	2	19.8 ± 7.07
P	Atriplex acadiensis	Maritime Saltbush				S1?	5 Undetermined	2	54.1 ± 0.5
P	Chenopodium rubrum	Red Pigweed				S1?	2 May Be At Risk	5	34.4 ± 2.0
P	Suaeda rolandii	Roland's Sea-Blite				S1?	2 May Be At Risk	1	99.6 ± 2.0
P	Crataegus robinsonii	Robinson's Hawthorn				S1?	5 Undetermined	3	55.3 ± 5.0
P	Crataegus submollis	Quebec Hawthorn				S1?	5 Undetermined	6	66.8 ± 7.07
Р	Dichanthelium acuminatum var. lindheimeri	Woolly Panic Grass				S1?	5 Undetermined	1	57.0 ± 0.05
Р	Thuja occidentalis	Eastern White Cedar			Vulnerable	S1S2	1 At Risk	6	53.7 ± 0.2
Р	Anemone virginiana var. alba	Virginia Anemone			7 4	S1S2	3 Sensitive	5	50.6 ± 5.0
P	Hepatica nobilis var. obtusa	Round-lobed Hepatica				S1S2	2 May Be At Risk	24	30.7 ± 1.5
D	Ranunculus sceleratus	Cursed Buttercup				S1S2	2 May Be At Risk	20	78.2 ± 0.5
D D	Gratiola neglecta	Clammy Hedge-Hyssop				S1S2	3 Sensitive	3	36.5 ± 0.1
r D	Carex bebbii	Bebb's Sedge				S1S2	2 May Be At Risk	9	49.5 ± 0.01
r D								1	
P	Carex pensylvanica	Pennsylvania Sedge				S1S2	5 Undetermined		66.9 ± 0.05
P	Carex tenera	Tender Sedge				S1S2	3 Sensitive	6	53.9 ± 1.5
P _	Juncus greenei	Greene's Rush				S1S2	2 May Be At Risk	4	65.9 ± 1.0
P	Najas gracillima	Thread-Like Naiad				S1S2	2 May Be At Risk	2	95.5 ± 0.45
P	Platanthera flava var. herbiola	Pale Green Orchid				S1S2	4 Secure	7	52.4 ± 0.1
P	Sparganium hyperboreum	Northern Burreed				S1S2	3 Sensitive	2	87.7 ± 0.1
P	Carex vacillans	Estuarine Sedge				S1S3	5 Undetermined	1	97.1 ± 0.5
P	Huperzia selago	Northern Firmoss				S1S3	5 Undetermined	5	61.0 ± 5.0
P	Huperzia appalachiana	Appalachian Fir-Clubmoss				S1S3	5 Undetermined	1	83.8 ± 1.0
P	Conioselinum chinense	Chinese Hemlock-parsley				S2	3 Sensitive	2	53.6 ± 5.0
P	Osmorhiza longistylis	Smooth Sweet Cicely				S2	2 May Be At Risk	12	40.8 ± 0.01
Р	Erigeron philadelphicus	Philadelphia Fleabane				S2	3 Sensitive	3	17.6 ± 5.0
P	Hieracium robinsonii	Robinson's Hawkweed				S2	3 Sensitive	3	53.0 ± 0.5
P	Lactuca hirsuta var. sanguinea	Hairy Lettuce				S2	3 Sensitive	1	58.5 ± 7.07
Р	Rudbeckia laciniata	Cut-Leaved Coneflower				S2	5 Undetermined	8	43.6 ± 7.07
D D	Senecio pseudoarnica	Seabeach Ragwort				S2	3 Sensitive	14	28.0 ± 7.07
D D	Symphyotrichum undulatum	Wavy-leaved Aster				S2	3 Sensitive	2	84.4 ± 7.07
D D	Impatiens pallida	Pale Jewelweed				S2 S2	3 Sensitive	2	72.2 ± 7.07
r D		Blue Cohosh				S2		44	
P	Caulophyllum thalictroides					S2 S2	2 May Be At Risk		25.6 ± 0.01
P	Betula michauxii	Michaux's Dwarf Birch					3 Sensitive	22	13.6 ± 0.5
P	Arabis drummondii	Drummond's Rockcress				S2	3 Sensitive	6	48.5 ± 0.03
P _	Minuartia groenlandica	Greenland Stitchwort				S2	3 Sensitive	21	44.6 ± 7.07
P	Stellaria humifusa	Saltmarsh Starwort				S2	3 Sensitive	5	30.6 ± 0.1
P	Hudsonia ericoides	Pinebarren Golden Heather				S2	3 Sensitive	11	80.6 ± 7.07
P	Triosteum aurantiacum	Orange-fruited Tinker's Weed				S2	3 Sensitive	49	40.8 ± 0.01
P	Shepherdia canadensis	Soapberry				S2	3 Sensitive	1	97.8 ± 7.07
P	Vaccinium boreale	Northern Blueberry				S2	2 May Be At Risk	3	38.4 ± 0.01
P	Vaccinium caespitosum	Dwarf Bilberry				S2	3 Sensitive	55	26.1 ± 0.01
Р	Vaccinium uliginosum	Alpine Bilberry				S2	3 Sensitive	3	88.5 ± 1.0
Р	Myriophyllum farwellii	Farwell's Water Milfoil				S2	3 Sensitive	9	27.2 ± 0.1
P	Myriophyllum verticillatum	Whorled Water Milfoil				S2	3 Sensitive	3	29.0 ± 0.01
•		Narrow-leaved Evening							
P	Oenothera fruticosa ssp. glauca	Primrose				S2	5 Undetermined	4	51.9 ± 7.07
D	Polygonum arifolium	Halberd-leaved Tearthumb				S2	3 Sensitive	3	97.5 ± 0.5
F D	Polygonum amolium Plantago rugelii	Rugel's Plantain				S2 S2	5 Undetermined	3 7	97.5 ± 0.5 30.9 ± 0.03
r D						S2 S2		7 16	
P	Primula mistassinica	Mistassini Primrose					3 Sensitive		27.2 ± 1.0
P	Samolus valerandi ssp. parviflorus	Seaside Brookweed				S2	3 Sensitive	5	81.3 ± 5.0
۲	Pyrola minor	Lesser Pyrola				S2	3 Sensitive	1	66.1 ± 0.01
P	Anemone canadensis	Canada Anemone				S2	2 May Be At Risk	1	97.8 ± 7.07
P P	Ánemone canadensis Anemone quinquefolia Anemone virginiana	Canada Anemone Wood Anemone Virginia Anemone				S2 S2 S2	2 May Be At Risk 3 Sensitive 3 Sensitive	1 16 22	97.8 ± 7.07 27.3 ± 0.1 50.6 ± 0.01

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Group	Scientific Name	Common Name	COSEWIC	SARA	Broy Logal Brot	Dray Parity Pank	Prov GS Rank	# ***	Diotonoo (km)
Group			COSEWIC	SAKA	Prov Legal Prot	Prov Rarity Rank		# recs	Distance (km)
P	Anemone virginiana var. virginiana	Virginia Anemone				S2	3 Sensitive	2	52.7 ± 7.07
P	Caltha palustris	Yellow Marsh Marigold				S2	3 Sensitive	1	68.4 ± 0.1
P	Galium boreale	Northern Bedstraw				S2	2 May Be At Risk	2	94.3 ± 5.0
Р	Galium labradoricum	Labrador Bedstraw				S2	3 Sensitive	10	29.3 ± 0.01
Р	Salix pedicellaris	Bog Willow				S2	3 Sensitive	35	18.6 ± 1.5
Р	Salix sericea	Silky Willow				S2	2 May Be At Risk	1	68.4 ± 1.0
Р	Comandra umbellata	Bastard's Toadflax				S2	2 May Be At Risk	10	94.6 ± 5.0
Р	Parnassia palustris var. parviflora	Marsh Grass-of-Parnassus				S2	2 May Be At Risk	1	88.7 ± 1.5
Р	Tiarella cordifolia	Heart-leaved Foamflower				S2	3 Sensitive	217	28.9 ± 5.0
Р	Viola nephrophylla	Northern Bog Violet				S2	3 Sensitive	8	19.2 ± 1.0
Р	Carex atlantica ssp. capillacea	Atlantic Sedge				S2	5 Undetermined	10	44.5 ± 0.01
Р	Carex castanea	Chestnut Sedge				S2	2 May Be At Risk	1	95.7 ± 0.01
Р	Carex comosa	Bearded Sedge				S2	3 Sensitive	2	65.9 ± 0.1
D	Carex hystericina	Porcupine Sedge				S2	2 May Be At Risk	3	66.3 ± 0.05
ı D	Eriophorum gracile	Slender Cottongrass				S2	3 Sensitive	4	54.3 ± 10.0
Г D	Vallisneria americana	3				S2 S2		4	44.6 ± 7.07
P		Wild Chives				S2 S2	2 May Be At Risk	1	
P	Allium schoenoprasum var. sibiricum	Wild Chives					2 May Be At Risk		58.0 ± 7.07
P _	Cypripedium parviflorum var. pubescens	Yellow Lady's-slipper				S2	3 Sensitive	4	74.9 ± 7.07
P	Cypripedium reginae	Showy Lady's-Slipper				S2	2 May Be At Risk	13	19.3 ± 1.0
Р	Goodyera pubescens	Downy Rattlesnake-Plantain				S2	2 May Be At Risk	4	51.2 ± 1.0
Р	Listera australis	Southern Twayblade				S2	2 May Be At Risk	84	22.8 ± 0.01
Р	Platanthera blephariglottis	White Fringed Orchid				S2	3 Sensitive	1	98.2 ± 5.0
P	Platanthera flava var. flava	Southern Rein Orchid				S2	3 Sensitive	1	51.9 ± 7.07
Р	Platanthera macrophylla	Large Round-Leaved Orchid				S2	3 Sensitive	11	62.3 ± 1.0
Р	Spiranthes lucida	Shining Ladies'-Tresses				S2	2 May Be At Risk	22	48.5 ± 0.02
Р	Piptatherum canadense	Canada Rice Grass				S2	3 Sensitive	8	40.8 ± 3.0
P	Potamogeton friesii	Fries' Pondweed				S2	2 May Be At Risk	2	52.8 ± 5.0
Р	Asplenium trichomanes-ramosum	Green Spleenwort				S2	3 Sensitive	1	94.1 ± 7.07
Р	Dryopteris fragrans var. remotiuscula	Fragrant Wood Fern				S2	3 Sensitive	4	57.7 ± 7.07
D	Woodsia glabella	Smooth Cliff Fern				S2	3 Sensitive	1	84.4 ± 1.0
ı D	Equisetum pratense	Meadow Horsetail				S2	3 Sensitive	10	46.1 ± 0.01
Г D	Hieracium kalmii	Kalm's Hawkweed				S2?	5 Undetermined	7	65.1 ± 1.0
г В									
P	Hieracium kalmii var. kalmii	Kalm's Hawkweed				S2?	5 Undetermined	2	65.3 ± 5.0
P	Symphyotrichum boreale	Boreal Aster				S2?	3 Sensitive	3	58.0 ± 7.07
P _	Ceratophyllum echinatum	Prickly Hornwort				S2?	2 May Be At Risk	2	30.0 ± 0.01
P	Epilobium coloratum	Purple-veined Willowherb				S2?	3 Sensitive	4	63.6 ± 1.0
Р	Carex houghtoniana	Houghton's Sedge				S2?	3 Sensitive	1	47.4 ± 1.2
Р	Carex peckii	White-Tinged Sedge				S2?	2 May Be At Risk	2	57.7 ± 0.1
Р	Eleocharis ovata	Ovate Spikerush				S2?	3 Sensitive	4	63.2 ± 0.5
Р	Juncus canadensis	Canada Rush				S2?	3 Sensitive	1	98.2 ± 5.0
Р	Juncus dudleyi	Dudley's Rush				S2?	3 Sensitive	37	15.8 ± 1.0
Р	Dichanthelium linearifolium	Narrow-leaved Panic Grass				S2?	3 Sensitive	4	48.4 ± 0.03
Р	Fraxinus nigra	Black Ash			Threatened	S2S3	3 Sensitive	51	26.9 ± 0.01
P	Asclepias incarnata ssp. pulchra	Swamp Milkweed				S2S3	5 Undetermined	5	32.9 ± 1.0
Р	Symphyotrichum ciliolatum	Fringed Blue Aster				S2S3	3 Sensitive	9	33.2 ± 3.5
Р	Honckenya peploides ssp. robusta	Seabeach Sandwort				S2S3	3 Sensitive	1	99.6 ± 5.0
, D	Sagina nodosa	Knotted Pearlwort				S2S3	4 Secure	26	31.7 ± 0.2
r D	•	Horned Sea-blite				S2S3	4 Secure	4	66.7 ± 2.5
г В	Suaeda calceoliformis							-	
r D	Hypericum dissimulatum	Disguised St John's-wort				S2S3	3 Sensitive	3	78.2 ± 0.5
۲	Empetrum eamesii ssp. atropurpureum	Pink Crowberry				S2S3	3 Sensitive	4	80.5 ± 7.07
۲	Empetrum eamesii ssp. eamesii	Pink Crowberry				S2S3	3 Sensitive	5	80.5 ± 7.07
<u>-</u>	Halenia deflexa	Spurred Gentian				S2S3	3 Sensitive	1	57.8 ± 1.0
Р	Hedeoma pulegioides	American False Pennyroyal				S2S3	3 Sensitive	4	22.8 ± 5.0
P	Polygala sanguinea	Blood Milkwort				S2S3	3 Sensitive	13	30.4 ± 5.0
P	Polygonum buxiforme	Small's Knotweed				S2S3	5 Undetermined	3	58.0 ± 7.07
P	Salix pellita	Satiny Willow				S2S3	5 Undetermined	4	36.8 ± 0.3
Р	Veronica serpyllifolia ssp. humifusa	Thyme-Leaved Speedwell				S2S3	3 Sensitive	1	37.9 ± 0.01
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Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
D	Carex adusta	Lesser Brown Sedge	COSEVVIC	JANA	FIOV Legal FIOL	S2S3	3 Sensitive	7	39.4 ± 7.07
r D	Carex hirtifolia	Pubescent Sedge				S2S3	3 Sensitive	37	26.7 ± 0.01
D D	Carex swanii	Swan's Sedge				S2S3	3 Sensitive	2	75.7 ± 0.5
r D	Eleocharis olivacea	Yellow Spikerush				S2S3	3 Sensitive	6	32.4 ± 0.01
r D	Juncus filiformis	Thread Rush				S2S3	3 Sensitive	1	98.2 ± 5.0
P									
P	Lilium canadense	Canada Lily				S2S3	3 Sensitive	92	25.7 ± 0.01
P	Coeloglossum viride var. virescens	Long-bracted Frog Orchid				S2S3	2 May Be At Risk	1	89.7 ± 0.05
P	Cypripedium parviflorum	Yellow Lady's-slipper				S2S3	3 Sensitive	18	50.4 ± 0.25
P	Spiranthes ochroleuca	Yellow Ladies'-tresses				S2S3	3 Sensitive	6	66.8 ± 0.5
P	Alopecurus aequalis	Short-awned Foxtail				S2S3	3 Sensitive	11	51.1 ± 1.0
P	Panicum tuckermanii	Tuckerman's Panic Grass				S2S3	3 Sensitive	3	95.0 ± 0.01
P	Poa glauca	Glaucous Blue Grass				S2S3	3 Sensitive	1	96.3 ± 1.0
P	Potamogeton obtusifolius	Blunt-leaved Pondweed				S2S3	3 Sensitive	8	59.8 ± 0.5
Р	Potamogeton richardsonii	Richardson's Pondweed				S2S3	2 May Be At Risk	5	56.9 ± 1.5
Р	Potamogeton zosteriformis	Flat-stemmed Pondweed				S2S3	3 Sensitive	13	16.8 ± 7.07
P	Botrychium lanceolatum var.	Lance-Leaf Grape-Fern				S2S3	3 Sensitive	5	40.0 ± 5.0
•	angustisegmentum	·							
Р	Botrychium simplex	Least Moonwort				S2S3	3 Sensitive	2	52.2 ± 0.1
Р	Ophioglossum pusillum	Northern Adder's-tongue				S2S3	3 Sensitive	4	65.1 ± 7.07
Р	Asclepias incarnata	Swamp Milkweed				S3	4 Secure	40	17.2 ± 7.07
Р	Erigeron hyssopifolius	Hyssop-leaved Fleabane				S3	3 Sensitive	11	66.0 ± 1.0
Р	Hieracium paniculatum	Panicled Hawkweed				S3	4 Secure	6	56.9 ± 0.01
Р	Megalodonta beckii	Water Beggarticks				S3	3 Sensitive	11	37.0 ± 10.0
Р	Packera paupercula	Balsam Groundsel				S3	4 Secure	25	48.0 ± 0.1
Р	Xanthium strumarium var. canadense	Rough Cocklebur				S3	4 Secure	2	99.2 ± 3.5
Р	Campanula aparinoides	Marsh Bellflower				S3	3 Sensitive	34	30.1 ± 0.01
Р	Stellaria longifolia	Long-leaved Starwort				S3	3 Sensitive	12	27.9 ± 0.01
Р	Viburnum edule	Squashberry				S3	3 Sensitive	2	59.3 ± 0.01
Р	Empetrum eamesii	Pink Crowberry				S3	3 Sensitive	76	80.6 ± 7.07
Р	Vaccinium corymbosum	Highbush Blueberry				S3	4 Secure	2	80.2 ± 0.01
Р	Chamaesyce polygonifolia	Seaside Spurge				S3	4 Secure	5	73.5 ± 2.5
Р	Bartonia virginica	Yellow Bartonia				S3	4 Secure	23	68.4 ± 7.07
Р	Geranium bicknellii	Bicknell's Crane's-bill				S3	4 Secure	1	97.7 ± 2.0
Р	Proserpinaca palustris	Marsh Mermaidweed				S3	4 Secure	11	19.8 ± 1.0
Р	Proserpinaca palustris var. crebra	Marsh Mermaidweed				S3	4 Secure	19	29.2 ± 0.01
Р	Proserpinaca pectinata	Comb-leaved Mermaidweed				S3	3 Sensitive	3	19.7 ± 1.0
Р	Teucrium canadense	Canada Germander				S3	3 Sensitive	12	59.1 ± 5.0
Р	Epilobium strictum	Downy Willowherb				S3	3 Sensitive	3	54.5 ± 5.0
Р	Polygonum pensylvanicum	Pennsylvania Smartweed				S3	4 Secure	12	18.5 ± 1.0
Р	Polygonum scandens	Climbing False Buckwheat				S3	3 Sensitive	29	27.9 ± 0.1
Р	Moneses uniflora	One-flowered Wintergreen				S3	4 Secure	1	98.9 ± 3.5
Р	Pyrola asarifolia	Pink Pyrola				S3	4 Secure	8	41.2 ± 0.01
Р	Ranunculus gmelinii	Gmelin's Water Buttercup				S3	4 Secure	28	19.5 ± 5.0
P	Rhamnus alnifolia	Alder-leaved Buckthorn				S3	3 Sensitive	17	18.6 ± 1.0
P	Agrimonia gryposepala	Hooked Agrimony				S3	4 Secure	75	25.7 ± 0.01
P	Rosa palustris	Swamp Rose				S3	4 Secure	25	29.0 ± 0.01
P	Salix petiolaris	Meadow Willow				S3	4 Secure	18	27.6 ± 0.01
Р	Geocaulon lividum	Northern Comandra				S3	3 Sensitive	2	22.1 ± 5.0
P	Agalinis neoscotica	Nova Scotia Agalinis				S3	4 Secure	2	77.6 ± 0.01
P	Limosella australis	Southern Mudwort				S3	3 Sensitive	4	39.0 ± 5.0
Р	Laportea canadensis	Canada Wood Nettle				S3	3 Sensitive	28	26.6 ± 0.01
P	Verbena hastata	Blue Vervain				S3	4 Secure	85	45.4 ± 0.01
Р	Carex eburnea	Bristle-leaved Sedge				S3	3 Sensitive	19	62.1 ± 0.1
Р	Carex lupulina	Hop Sedge				S3	4 Secure	20	27.9 ± 0.01
P	Carex rosea	Rosy Sedge				S3	4 Secure	18	36.7 ± 0.01
Р	Eleocharis nitida	Quill Spikerush				S3	4 Secure	1	84.6 ± 5.0
Р	Schoenoplectus americanus	Olney's Bulrush				S3	3 Sensitive	2	76.1 ± 5.0
-								-	= 0.0

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Taxonomic	Salantifia Nama	Common Name	COSEWIC	SARA	Draw Lawel Draf	Draw Darity Dank	Prov GS Rank	#	Diatanaa (km)
Group	Scientific Name Juncus subcaudatus var. planisepalus	Woods-Rush	COSEVIC	SARA	Prov Legal Prot	Prov Rarity Rank S3	3 Sensitive	# recs 11	Distance (km) 19.7 ± 1.0
P	Corallorhiza trifida	Early Coralroot				S3	4 Secure	20	19.7 ± 1.0 53.2 ± 0.5
P	Platanthera grandiflora					S3	4 Secure 4 Secure	93	53.2 ± 0.5 29.0 ± 0.01
P	Platanthera grandinora Platanthera hookeri	Large Purple Fringed Orchid Hooker's Orchid				S3	4 Secure 4 Secure	93 2	29.0 ± 0.01 89.0 ± 0.01
P						S3			
P	Platanthera orbiculata	Small Round-leaved Orchid					4 Secure	18	54.3 ± 0.01
1	Dichanthelium clandestinum	Deer-tongue Panic Grass				S3	4 Secure	156	40.6 ± 0.01
P	Sparganium natans	Small Burreed				S3	4 Secure	9	30.4 ± 0.01
P	Equisetum variegatum	Variegated Horsetail				S3	4 Secure	23	42.9 ± 0.01
Р	Isoetes acadiensis	Acadian Quillwort				S3	3 Sensitive	4	56.1 ± 14.0
Р	Botrychium dissectum	Cut-leaved Moonwort				S3	4 Secure	4	40.1 ± 1.0
Р	Schizaea pusilla	Little Curlygrass Fern				S3	4 Secure	5	55.1 ± 1.0
Р	Amelanchier stolonifera	Running Serviceberry				S3?	4 Secure	2	67.9 ± 2.0
Р	Carex cryptolepis	Hidden-scaled Sedge				S3?	4 Secure	8	29.3 ± 0.01
P	Carex tribuloides	Blunt Broom Sedge				S3?	4 Secure	4	58.1 ± 5.0
P	Carex foenea	Fernald's Hay Sedge				S3?	4 Secure	10	44.6 ± 0.01
Р	Elodea canadensis	Canada Waterweed				S3?	4 Secure	3	63.2 ± 0.3
Р	Potamogeton praelongus	White-stemmed Pondweed				S3?	3 Sensitive	9	42.3 ± 1.0
Р	Lycopodium sabinifolium	Ground-Fir				S3?	4 Secure	3	58.3 ± 1.0
Р	Lycopodium sitchense	Sitka Clubmoss				S3?	4 Secure	2	55.3 ± 1.0
Р	Polypodium appalachianum	Appalachian Polypody				S3?	5 Undetermined	10	23.8 ± 0.01
Р	Angelica atropurpurea	Purple-stemmed Angelica				S3S4	4 Secure	1	32.5 ± 0.01
Р	Pseudognaphalium obtusifolium	Eastern Cudweed				S3S4	4 Secure	3	62.9 ± 3.5
P	Atriplex franktonii	Frankton's Saltbush				S3S4	4 Secure	1	86.0 ± 2.5
P	Myriophyllum sibiricum	Siberian Water Milfoil				S3S4	4 Secure	5	29.3 ± 0.01
Р	Utricularia gibba	Humped Bladderwort				S3S4	4 Secure	4	34.0 ± 0.1
P	Sanguinaria canadensis	Bloodroot				S3S4	4 Secure	85	25.7 ± 5.0
P	Polygonum robustius	Stout Smartweed				S3S4	4 Secure	6	29.9 ± 0.01
P	Rumex fueginus	Tierra del Fuego Dock				S3S4	4 Secure	5	32.0 ± 2.0
P	Lindernia dubia	Yellow-seeded False Pimperel				S3S4	4 Secure	13	49.0 ± 0.01
P	Viola sagittata var. ovata	Arrow-Leaved Violet				S3S4	4 Secure	3	79.1 ± 0.01
P	Eleocharis obtusa	Blunt Spikerush				S3S4	4 Secure	1	98.2 ± 3.5
P	Eriophorum chamissonis	Russet Cotton-Grass				S3S4 S3S4	4 Secure	2	48.0 ± 5.0
Г	Enopriorum chamissonis	Narrow-leaved Blue-eyed-				3334	4 Secure	2	40.0 I 3.0
P	Sisyrinchium angustifolium					S3S4	4 Secure	57	26.1 ± 0.01
Р	lunava aaveninatua	grass				S3S4	3 Sensitive	1	79.9 ± 0.01
P	Juncus acuminatus	Sharp-Fruit Rush							
•	Juncus nodosus	Knotted Rush				S3S4	4 Secure	1	98.9 ± 3.5
P P	Luzula parviflora	Small-flowered Woodrush				S3S4	4 Secure	3	38.2 ± 0.01
•	Liparis loeselii	Loesel's Twayblade				S3S4	4 Secure	2	70.1 ± 5.0
P	Dichanthelium spretum	Eaton's Witchgrass				S3S4	4 Secure	1	63.6 ± 0.5
P	Trisetum spicatum	Narrow False Oats				S3S4	4 Secure	10	48.1 ± 0.03
P	Cystopteris bulbifera	Bulblet Bladder Fern				S3S4	4 Secure	86	23.7 ± 0.01
Р	Equisetum hyemale var. affine	Common Scouring-rush				S3S4	4 Secure	31	46.4 ± 0.1
Р	Equisetum scirpoides	Dwarf Scouring-Rush				S3S4	4 Secure	43	49.1 ± 0.01
Р	Lycopodium complanatum	Northern Clubmoss				S3S4	4 Secure	4	33.1 ± 0.16
Р	Lycopodiella appressa	Southern Bog Clubmoss				S3S4	4 Secure	4	31.3 ± 1.0
P	Solidago simplex var. randii	Sticky Goldenrod				SH	0.1 Extirpated	1	57.5 ± 1.0

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The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

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Prepared 3 June 2016 by J. Churchill, Data Manager

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5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (ACCDC) is part of a network of NatureServe data centres and heritage programs serving 50 states in the U.S.A, 10 provinces and 1 territory in Canada, 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, and Newfoundland and Labrador. Although a non-governmental agency, the ACCDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees. URL: www.ACCDC.com.

Upon request and for a fee, the ACCDC queries its database and produces customized reports of the rare and endangered flora and fauna known to occur in or near a specified study area. As a supplement to that data, the ACCDC includes locations of managed areas with some level of protection, and known sites of ecological interest or sensitivity.

1.1 DATA LIST

Included datasets:

Filename	Contents
MooselandNs_5559ob.xls	All Rare and legally protected Flora and Fauna within 5 km of your study area
MooselandNs_5559ob100km.xls	A list of Rare and legally protected <i>Flora and Fauna</i> within 100 km of your study area

1.2 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 accepting ACCDC data, recipients assent to the following limits of use:

- a) Data is restricted to use by trained personnel who are sensitive to landowner interests and to potential threats to rare and/or endangered flora and fauna posed by the information provided.
- 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, and to make a new request for updated data if necessary at that time.
- d) ACCDC data responses are restricted to the data in our Data System at the time of the data request.
- e) Each record has an estimate of locational uncertainty, which must be referenced in order to understand the record's relevance to a particular location. Please see attached Data Dictionary for details.
- f) ACCDC data responses are not to be construed as exhaustive inventories of taxa in an area.
- g) The absence of a taxon cannot be inferred by its absence in an ACCDC data response.

1.3 ADDITIONAL INFORMATION

The attached file DataDictionary 2.1.pdf provides metadata for the data provided.

Please direct any additional questions about ACCDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney, Senior Scientist, Executive Director Tel: (506) 364-2658

sblaney@mta.ca

Animals (Fauna)

John Klymko, Zoologist Tel: (506) 364-2660

jklymko@mta.ca

Data Management, GIS

James Churchill, Data Manager

Tel: (902) 679-6146 jlchurchill@mta.ca

Plant Communities

 $Sarah\ Robinson\ ,\ Community\ Ecologist$

Tel: (506) 364-2664 srobinson@mta.ca

Billing

Jean Breau

Tel: (506) 364-2657 jrbreau@mta.ca

Questions on the biology of Federal Species at Risk can be directed to ACCDC: (506) 364-2658, with questions on Species at Risk regulations to: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060 or Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in New Brunswick, please contact Stewart Lusk, Natural Resources: (506) 453-7110.

For provincial information about rare taxa and protected areas, or information about game animals, deer yards, old growth forests, archeological sites, fish habitat etc., in Nova Scotia, please contact Sherman Boates, NSDNR: (902) 679-6146. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NSDNR Regional Biologist:

Western: Duncan Bayne

Eastern: Mark Pulsifer

(902) 863-7523

(902) 648-3536

Duncan.Bayne@novascotia.ca

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Eastern: Terry Power (902) 563-3370

Terrance.Power@novascotia.ca

Central: Kimberly George

(902) 893-5630

Kimberly.George@novascotia.ca

For provincial information about rare taxa and protected areas, or information about game animals, fish habitat etc., in Prince Edward Island, please contact Garry Gregory, PEI Dept. of Communities, Land and Environment: (902) 569-7595.

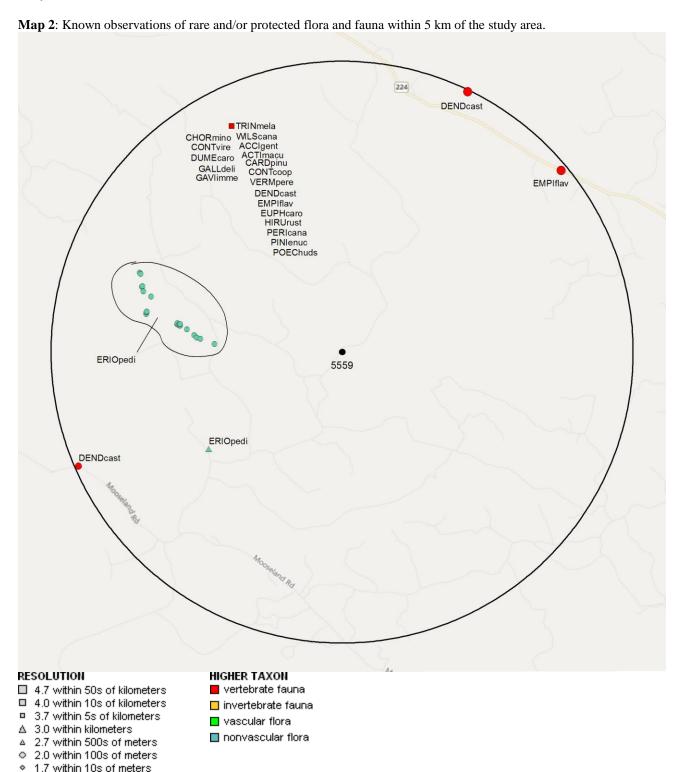
2.0 RARE AND ENDANGERED SPECIES

2.1 FLORA

A 5 km buffer around the study area contains no records of vascular, 25 records of 1 nonvascular flora (Map 2 and attached: *ob.xls).

2.2 FAUNA

A 5 km buffer around the study area contains 45 records of 19 vertebrate, no records of invertebrate fauna (Map 2 and attached data files - see 1.1 Data List). Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.



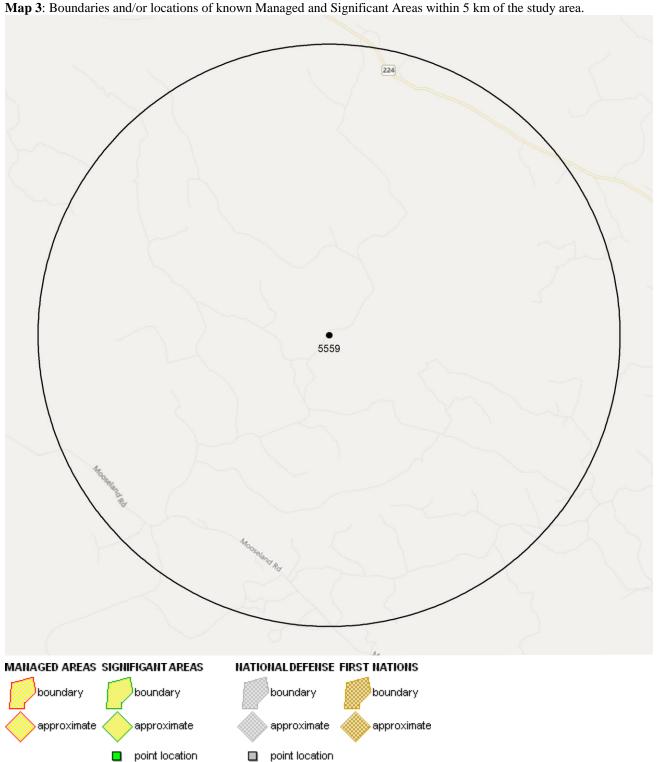
3.0 SPECIAL AREAS

3.1 MANAGED AREAS

The GIS scan identified no managed areas in the vicinity of the study area (Map 3)

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map)



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4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding "location-sensitive" species, section 4.3) within the 5 km-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 (\pm the precision, in km, of the record). [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community. Note: records are from attached files *ob.xls/*ob.shp only.

4.1 FLORA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
Ν	Erioderma pedicellatum (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1S2	1 At Risk	25	2.2 ± 0.0

4.2 FAUNA

	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)
Α	Euphagus carolinus	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	2 May Be At Risk	3	4.3 ± 7.0
Α	Poecile hudsonica	Boreal Chickadee				S3	3 Sensitive	4	4.3 ± 7.0
Α	Pinicola enucleator	Pine Grosbeak				S3?B,S5N	2 May Be At Risk	2	4.3 ± 7.0
Α	Hirundo rustica	Barn Swallow	Threatened		Endangered	S3B	1 At Risk	3	4.3 ± 7.0
Α	Wilsonia canadensis	Canada Warbler	Threatened	Threatened	Endangered	S3B	1 At Risk	2	4.3 ± 7.0
Α	Chordeiles minor	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	2	4.3 ± 7.0
Α	Contopus cooperi	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	2	4.3 ± 7.0
Α	Dumetella carolinensis	Gray Catbird				S3B	2 May Be At Risk	1	4.3 ± 7.0
Α	Gavia immer	Common Loon	Not At Risk			S3B,S4N	2 May Be At Risk	2	4.3 ± 7.0
Α	Tringa melanoleuca	Greater Yellowlegs				S3B,S5M	3 Sensitive	4	4.3 ± 7.0
Α	Accipiter gentilis	Northern Goshawk	Not At Risk			S3S4	4 Secure	1	4.3 ± 7.0
Α	Perisoreus canadensis	Gray Jay				S3S4	3 Sensitive	2	4.3 ± 7.0
Α	Contopus virens	Eastern Wood-Pewee	Special Concern		Vulnerable	S3S4B	3 Sensitive	1	4.3 ± 7.0
Α	Actitis macularius	Spotted Sandpiper				S3S4B	3 Sensitive	2	4.3 ± 7.0
Α	Gallinago delicata	Wilson's Snipe				S3S4B	3 Sensitive	1	4.3 ± 7.0
Α	Empidonax flaviventris	Yellow-bellied Flycatcher				S3S4B	3 Sensitive	4	4.3 ± 7.0
Α	Vermivora peregrina	Tennessee Warbler				S3S4B	3 Sensitive	2	4.3 ± 7.0
Α	Dendroica castanea	Bay-breasted Warbler				S3S4B	3 Sensitive	6	4.3 ± 7.0
Α	Carduelis pinus	Pine Siskin				S3S4B,S5N	3 Sensitive	1	4.3 ± 7.0

4.3 LOCATION SENSITIVE SPECIES

The Department of Natural Resources in each Maritimes province considers a number of species "location sensitive". Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting a 5 km buffer of your study area are indicated below with "YES".

Nova Scotia

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within 5 km of Study Site?
Fraxinus nigra	Black Ash		Threatened	No
Emydoidea blandingii	Blanding's Turtle - Nova Scotia pop.	Endangered	Vulnerable	No
Glyptemys insculpta	Wood Turtle	Threatened	Threatened	No
Falco peregrinus pop. 1	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Vulnerable	No
Bat Hibernaculum		[Endangered] ¹	[Endangered] ¹	No

¹ Myotis lucifugus (Little Brown Myotis), Myotis septentrionalis (Long-eared Myotis), and Perimyotis subflavus (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the Federal Species at Risk Act and the NS Endangered Species Act.

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4.4 SOURCE BIBLIOGRAPHY

The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

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- 16 Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
- 1 Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
- 1 Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia., 181 records.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 14766 records of 110 vertebrate and 727 records of 54 invertebrate fauna; 3569 records of 253 vascular, 518 records of 52 nonvascular flora (attached: *ob100km.xls).

Taxa within 100 km of the study site that are rare and/or endangered in the province in which the study site occurs. All ranks correspond to the province in which the study site falls, even for out-of-province records. Taxa are 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 (± the precision, in km, of the record).

Taxonomic										
Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Α	Myotis lucifugus	Little Brown Myotis	Endangered	Endangered	Endangered	S1	1 At Risk	38	21.7 ± 0.0	NS
Α	Myotis septentrionalis	Northern Long-eared Myotis	Endangered	Endangered	Endangered	S1	1 At Risk	5	21.9 ± 0.0	NS
Α	Perimyotis subflavus	Eastern Pipistrelle	Endangered	Endangered	Endangered	S1	1 At Risk	7	51.8 ± 0.0	NS
Α	Alces americanus	Moose			Endangered	S1	1 At Risk	26	14.1 ± 0.0	NS
Α	Acipenser oxyrinchus	Atlantic Sturgeon	Threatened			S1?	2 May Be At Risk	2	50.8 ± 0.0	NS
Α	Caprimulgus vociferus	Whip-Poor-Will	Threatened	Threatened	Threatened	S1?B	1 At Risk	10	32.1 ± 7.0	NS
Α	Toxostoma rufum	Brown Thrasher				S1?B	5 Undetermined	9	60.7 ± 7.0	NS
Α	Vireo gilvus	Warbling Vireo				S1?B	5 Undetermined	16	20.0 ± 7.0	NS
Α	Tringa solitaria	Solitary Sandpiper				S1?B,S4S5M	4 Secure	10	25.3 ± 0.0	NS
Α	Larus delawarensis	Ring-billed Gull				S1?B,S5N	4 Secure	4	21.6 ± 0.0	NS
Α	Accipiter cooperii	Cooper's Hawk	Not At Risk			S1?B,SNAN	5 Undetermined	4	63.5 ± 0.0	NS
Α	Charadrius melodus	Piping Plover melodus ssp	Endangered	Endangered	Endangered	S1B	1 At Risk	570	22.3 ± 0.0	NS
	melodus	, •	ū	· ·	ū	_				
A	Sterna dougallii	Roseate Tern	Endangered	Endangered	Endangered	S1B	1 At Risk	58	26.8 ± 0.0	NS
A	Morone saxatilis pop. 2	Striped Bass- Bay of Fundy pop.	Endangered			S1B	2 May Be At Risk	2	51.0 ± 0.0	NS
Α	Hylocichla mustelina	Wood Thrush	Threatened			S1B	5 Undetermined	32	13.4 ± 7.0	NS
	Passerculus .		0 110	0 110		040	0.0 '''	•	000 00	NS
Α	sandwichensis	Savannah Sparrow princeps ssp	Special Concern	Special Concern		S1B	3 Sensitive	3	26.6 ± 0.0	
	princeps Fulica americana	A	Not At Risk			S1B	E I la data maio a d	7	00.0 . 7.0	NO
A		American Coot				S1B S1B	5 Undetermined	/	66.3 ± 7.0	NS NS
A	Aegolius funereus Gallinula chloropus	Boreal Owl Common Moorhen	Not At Risk			S1B S1B	5 Undetermined	13	32.5 ± 7.0 77.1 ± 7.0	
A	•					S1B S1B	5 Undetermined	5		NS NS
A	Progne subis Fratercula arctica	Purple Martin Atlantic Puffin				S1B S1B.S4S5N	2 May Be At Risk 3 Sensitive	3 2	58.2 ± 7.0 38.6 ± 7.0	NS NS
A A	Calidris minutilla					- /			36.6 ± 7.0 42.0 ± 0.0	NS NS
А		Least Sandpiper				S1B,S5M	4 Secure	287	42.0 ± 0.0	
Α	Bucephala islandica (Eastern pop.)	Barrow's Goldeneye - Eastern pop.	Special Concern	Special Concern		S1N	1 At Risk	1	81.3 ± 0.0	NS
Α	Morone saxatilis pop. 1	Striped Bass- Southern Gulf of St Lawrence pop.	Special Concern			S1N	2 May Be At Risk	1	99.2 ± 1.0	NS
Α	Asio flammeus	Short-eared Owl	Special Concern	Special Concern		S1S2	2 May Be At Risk	8	64.4 ± 7.0	NS
Α	Picoides dorsalis	American Three-toed Woodpecker	1	1		S1S2	5 Undetermined	4	58.2 ± 7.0	NS
Α	Passerina cyanea	Indigo Bunting				S1S2B	5 Undetermined	7	53.7 ± 7.0	NS
	•	5 5								

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Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Α	Eremophila alpestris	Horned Lark				S1S2B,S4N	4 Secure	4	24.2 ± 7.0	NS
Α	Charadrius semipalmatus	Semipalmated Plover				S1S2B,S5M	4 Secure	431	23.5 ± 0.0	NS
Α	Salmo salar pop. 1	Atlantic Salmon - Inner Bay of Fundy pop.	Endangered	Endangered		S2	2 May Be At Risk	19	40.2 ± 0.0	NS
Α	Glyptemys insculpta	Wood Turtle	Threatened	Threatened	Threatened	S2	3 Sensitive	201	23.4 ± 1.0	NS
Α	Sorex dispar	Long-tailed Shrew	Not At Risk	Special Concern		S2	3 Sensitive	2	92.0 ± 5.0	NS
Α	Asio otus	Long-eared Owl				S2	2 May Be At Risk	28	20.0 ± 7.0	NS
Α	Salmo salar	Atlantic Salmon				S2	2 May Be At Risk	71	8.1 ± 0.0	NS
Α	Vireo philadelphicus	Philadelphia Vireo				S2?B	5 Undetermined	26	5.6 ± 0.0	NS
Α	Anas acuta	Northern Pintail				S2B	2 May Be At Risk	9	53.7 ± 7.0	NS
Α	Anas clypeata	Northern Shoveler				S2B	2 May Be At Risk	5	42.3 ± 7.0	NS
Α	Anas strepera	Gadwall				S2B	2 May Be At Risk	19	27.5 ± 0.0	NS
A	Rallus limicola	Virginia Rail				S2B	5 Undetermined	24	53.7 ± 7.0	NS
Α	Empidonax traillii	Willow Flycatcher				S2B	3 Sensitive	19	32.1 ± 7.0	NS
Α	Myiarchus crinitus	Great Crested Flycatcher				S2B	2 May Be At Risk	13	57.1 ± 7.0	NS
Α	Piranga olivacea	Scarlet Tanager				S2B	5 Undetermined	15	32.4 ± 7.0	NS
A	Rissa tridactyla	Black-legged Kittiwake				S2B,S4S5N	3 Sensitive	.1	76.3 ± 0.0	NS
Α	Bucephala clangula	Common Goldeneye				S2B,S5N	4 Secure	111	16.1 ± 7.0	NS
Α	Histrionicus histrionicus pop. 1	Harlequin Duck - Eastern pop.	Special Concern	Special Concern	Endangered	S2N	1 At Risk	31	27.0 ± 0.0	NS
Α	Globicephala melas	Long-finned Pilot Whale	Not At Risk			S2S3		1	17.0 ± 100.0	NS
Α	Chaetura pelagica	Chimney Swift	Threatened	Threatened	Endangered	S2S3B	1 At Risk	137	16.1 ± 7.0	NS
Α	Euphagus carolinus	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2S3B	2 May Be At Risk	220	4.3 ± 7.0	NS
Α	Cathartes aura	Turkey Vulture				S2S3B	3 Sensitive	10	42.5 ± 0.0	NS
Α	Tringa semipalmata	Willet				S2S3B	2 May Be At Risk	445	18.0 ± 7.0	NS
Α	Pooecetes gramineus	Vesper Sparrow				S2S3B	2 May Be At Risk	22	54.3 ± 7.0	NS
A	Molothrus ater	Brown-headed Cowbird				S2S3B	4 Secure	74	18.3 ± 7.0	NS
Α	Icterus galbula	Baltimore Oriole				S2S3B	2 May Be At Risk	41	28.4 ± 7.0	NS
Α	Calidris canutus rufa	Red Knot rufa ssp	Endangered		Endangered	S2S3M	1 At Risk	97	42.0 ± 0.0	NS
Α	Phalaropus lobatus	Red-necked Phalarope	Special Concern			S2S3M	3 Sensitive	3	62.1 ± 0.0	NS
A	Phalaropus fulicarius	Red Phalarope				S2S3M	3 Sensitive	1	68.3 ± 0.0	NS
Α	Chelydra serpentina	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	3 Sensitive	67	14.8 ± 0.0	NS
Α	Hemidactylium scutatum	Four-toed Salamander	Not At Risk			S3	4 Secure	26	55.2 ± 5.0	NS
Α	Phalacrocorax carbo	Great Cormorant				S3	3 Sensitive	53	24.2 ± 7.0	NS
Α	Poecile hudsonica	Boreal Chickadee				S3	3 Sensitive	547	4.3 ± 7.0	NS
Α	Coccyzus erythropthalmus	Black-billed Cuckoo				S3?B	2 May Be At Risk	71	13.4 ± 7.0	NS
Α	Dendroica tigrina	Cape May Warbler				S3?B	3 Sensitive	112	9.0 ± 7.0	NS
Α	Pinicola enucleator	Pine Grosbeak				S3?B,S5N	2 May Be At Risk	115	4.3 ± 7.0	NS
Α	Hirundo rustica	Barn Swallow	Threatened		Endangered	S3B	1 At Risk	700	4.3 ± 7.0	NS
Α	Wilsonia canadensis	Canada Warbler	Threatened	Threatened	Endangered	S3B	1 At Risk	600	4.3 ± 7.0	NS
A	Chordeiles minor	Common Nighthawk	Threatened	Threatened	Threatened	S3B	1 At Risk	344	4.3 ± 7.0	NS
A	Contopus cooperi	Olive-sided Flycatcher	Threatened	Threatened	Threatened	S3B	1 At Risk	682	4.3 ± 7.0	NS
A	Riparia riparia	Bank Swallow	Threatened			S3B	2 May Be At Risk	251	18.0 ± 7.0	NS
A	Sterna hirundo	Common Tern	Not At Risk			S3B	3 Sensitive	225	18.0 ± 7.0	NS
A	Sialia sialis	Eastern Bluebird	Not At Risk			S3B	3 Sensitive	40	22.2 ± 7.0	NS
A	Podilymbus podiceps	Pied-billed Grebe				S3B	3 Sensitive	84	32.1 ± 7.0	NS
A	Anas discors	Blue-winged Teal				S3B	2 May Be At Risk	77	18.5 ± 7.0	NS
Α	Sterna paradisaea Petrochelidon	Arctic Tern				S3B	2 May Be At Risk	53	21.4 ± 0.0	NS NS
Α	pyrrhonota	Cliff Swallow				S3B	2 May Be At Risk	197	18.0 ± 7.0	NS
Α	Dumetella carolinensis	Gray Catbird				S3B	2 May Be At Risk	303	4.3 ± 7.0	NS
Α	Mimus polyglottos	Northern Mockingbird				S3B	4 Secure	21	55.3 ± 7.0	NS
Α	Gavia immer	Common Loon	Not At Risk			S3B,S4N	2 May Be At Risk	623	4.3 ± 7.0	NS
Α	Tringa melanoleuca	Greater Yellowlegs				S3B,S5M	3 Sensitive	441	4.3 ± 7.0	NS
Α	Mergus serrator	Red-breasted Merganser				S3B,S5N	4 Secure	63	20.0 ± 7.0	NS

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Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Α	Pluvialis dominica	American Golden-Plover				S3M	3 Sensitive	48	48.3 ± 0.0	NS
Α	Numenius phaeopus hudsonicus	Hudsonian Whimbrel				S3M	3 Sensitive	49	27.7 ± 0.0	NS
Α	Limosa haemastica	Hudsonian Godwit				S3M	3 Sensitive	25	54.0 ± 0.0	NS
Α	Calidris pusilla	Semipalmated Sandpiper				S3M	3 Sensitive	390	42.0 ± 0.0	NS
Α	Calidris maritima	Purple Sandpiper				S3N	3 Sensitive	28	25.9 ± 12.0	NS
Α	Accipiter gentilis	Northern Goshawk	Not At Risk			S3S4	4 Secure	86	4.3 ± 7.0	NS
A	Cepphus grylle	Black Guillemot				S3S4	4 Secure	51	23.7 ± 2.0	NS
Α	Picoides arcticus	Black-backed Woodpecker				S3S4	3 Sensitive	149	12.5 ± 7.0	NS
Α	Perisoreus canadensis	Gray Jay				S3S4	3 Sensitive	416	4.3 ± 7.0	NS
Α	Cardinalis cardinalis	Northern Cardinal				S3S4	4 Secure	37	54.3 ± 7.0	NS
Α	Dolichonyx oryzivorus	Bobolink	Threatened		Vulnerable	S3S4B	3 Sensitive	350	22.2 ± 0.0	NS
Α	Contopus virens	Eastern Wood-Pewee	Special Concern		Vulnerable	S3S4B	3 Sensitive	473	4.3 ± 7.0	NS
Α	Botaurus lentiginosus	American Bittern				S3S4B	3 Sensitive	210	19.1 ± 7.0	NS
Α	Charadrius vociferus	Killdeer				S3S4B	3 Sensitive	350	10.2 ± 7.0	NS
Α	Actitis macularius	Spotted Sandpiper				S3S4B	3 Sensitive	462	4.3 ± 7.0	NS
Α	Gallinago delicata	Wilson's Snipe				S3S4B	3 Sensitive	370	4.3 ± 7.0	NS
Α	Empidonax flaviventris	Yellow-bellied Flycatcher				S3S4B	3 Sensitive	535	4.3 ± 7.0	NS
Α	Sayornis phoebe	Eastern Phoebe				S3S4B	3 Sensitive	153	32.4 ± 7.0	NS
Α	Tyrannus tyrannus	Eastern Kingbird				S3S4B	3 Sensitive	165	18.3 ± 7.0	NS
Α	Vermivora peregrina	Tennessee Warbler				S3S4B	3 Sensitive	280	4.3 ± 7.0	NS
Α	Dendroica castanea	Bay-breasted Warbler				S3S4B	3 Sensitive	382	4.3 ± 7.0	NS
Α	Dendroica striata	Blackpoll Warbler				S3S4B	3 Sensitive	102	16.1 ± 7.0	NS
Α	Wilsonia pusilla	Wilson's Warbler				S3S4B	3 Sensitive	74	13.4 ± 7.0	NS
	Pheucticus									NS
Α	ludovicianus	Rose-breasted Grosbeak				S3S4B	3 Sensitive	270	16.2 ± 7.0	
Α	Passerella iliaca	Fox Sparrow				S3S4B	4 Secure	81	18.0 ± 7.0	NS
Α	Carduelis pinus	Pine Siskin				S3S4B,S5N	3 Sensitive	308	4.3 ± 7.0	NS
Α	Anguilla rostrata	American Eel	Threatened			S5	4 Secure	7	38.1 ± 0.0	NS
Α	Leucophaeus atricilla	Laughing Gull				SHB	4 Secure	1	30.1 ± 0.0	NS
Α	Morus bassanus	Northern Gannet				SHB,S5M	4 Secure	2	27.8 ± 0.0	NS
Α	Tryngites subruficollis	Buff-breasted Sandpiper	Special Concern			SNA	8 Accidental	2	54.0 ± 0.0	NS
Α	Colinus virginianus	Northern Bobwhite	Endangered	Endangered				1	42.5 ± 0.0	NS
I	Gomphus ventricosus	Skillet Clubtail	Endangered			S1	2 May Be At Risk	2	59.3 ± 0.0	NS
1	Barnea truncata	Atlantic Mud-piddock	Threatened			S1	1 At Risk	1	91.0 ± 1.0	NS
1	Satyrium acadica	Acadian Hairstreak				S1	5 Undetermined	6	78.0 ± 1.0	NS
1	Neurocordulia michaeli	Broadtailed Shadowdragon				S1		26	37.3 ± 0.0	NS
1	Somatochlora	Ouches Emerald				S1	2 May Po At Biok	1	E0 6 . 0 0	NS
1	brevicincta	Quebec Emerald					2 May Be At Risk	1	50.6 ± 0.0	
I	Polygonia comma	Eastern Comma				S1?	1 At Risk	8	74.3 ± 1.0	NS
1	Polygonia satyrus	Satyr Comma				S1?	3 Sensitive	2	77.5 ± 1.0	NS
1	Alasmidonta varicosa	Brook Floater	Special Concern		Threatened	S1S2	3 Sensitive	15	47.8 ± 1.0	NS
I	Nymphalis I-album	Compton Tortoiseshell				S1S2	4 Secure	9	56.9 ± 1.0	NS
I	Somatochlora kennedyi	Kennedy's Emerald				S1S2	2 May Be At Risk	3	68.8 ± 1.0	NS
T.	Coenagrion resolutum	Taiga Bluet				S1S2	2 May Be At Risk	2	67.4 ± 1.0	NS
I	Stylurus scudderi	Zebra Clubtail				S1S2	2 May Be At Risk	4	39.0 ± 0.0	NS
i	Lycaena hyllus	Bronze Copper				S2	4 Secure	4	63.6 ± 1.0	NS
1	Lycaena dospassosi	Salt Marsh Copper				S2	1 At Risk	9	83.6 ± 0.0	NS
i	Satyrium calanus	Banded Hairstreak				S2	5 Undetermined	9	71.7 ± 5.0	NS
	Satyrium calanus									NS
ı	falacer	Banded Hairstreak				S2	1 At Risk	2	76.7 ± 0.0	
1	Boloria chariclea	Arctic Fritillary				S2	3 Sensitive	3	73.2 ± 1.0	NS
I	Aglais milberti	Milbert's Tortoiseshell				S2	4 Secure	7	59.1 ± 1.0	NS
1	Epitheca princeps	Prince Baskettail				S2	3 Sensitive	7	61.9 ± 0.0	NS
1	Enallagma signatum	Orange Bluet				S2	2 May Be At Risk	3	66.9 ± 0.0	NS
1	Lampsilis radiata	Eastern Lampmussel				S2	3 Sensitive	34	36.4 ± 0.0	NS

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Taxononic										
Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
1	Pantala hymenaea	Spot-Winged Glider				S2?B	3 Sensitive	7	59.1 ± 1.0	NS
1	Danaus plexippus	Monarch	Special Concern	Special Concern		S2B	3 Sensitive	59	23.7 ± 0.0	NS
1	Thorybes pylades	Northern Cloudywing	·	-		S2S3	3 Sensitive	14	50.9 ± 0.0	NS
1	Amblyscirtes hegon	Pepper and Salt Skipper				S2S3	4 Secure	22	19.4 ± 0.0	NS
i	Satyrium liparops	Striped Hairstreak				S2S3	5 Undetermined	5	24.2 ± 0.0	NS
'	, , ,	Ottiped Hairstreak					3 Ondetermined			NS
1	Satyrium liparops	Striped Hairstreak				S2S3	3 Sensitive	2	76.7 ± 0.0	INS
	strigosum					0000				
I	Euphydryas phaeton	Baltimore Checkerspot				S2S3	4 Secure	19	22.3 ± 0.0	NS
1	Ophiogomphus	Brook Snaketail				S2S3	2 May Be At Risk	2	98.4 ± 0.0	NS
1	aspersus	DIOOK SHAKEIAH				0200	2 May be At Nisk	2	30.4 ± 0.0	
	Ophiogomphus	M: 0 1 1 1				0000	0.14 D A. D. I		05.4.00	NS
I	mainensis .	Maine Snaketail				S2S3	2 May Be At Risk	14	35.4 ± 0.0	
	Ophiogomphus									NS
I	rupinsulensis	Rusty Snaketail				S2S3	2 May Be At Risk	56	39.0 ± 0.0	
1	Somatochlora forcipata	Forcipate Emerald				S2S3	2 May Be At Risk	3	68.8 ± 1.0	NS
:								1		
!	Somatochlora franklini	Delicate Emerald				S2S3	3 Sensitive	-	85.8 ± 1.0	NS
I	Alasmidonta undulata	Triangle Floater				S2S3	4 Secure	24	21.5 ± 0.0	NS
I	Callophrys henrici	Henry's Elfin				S3	4 Secure	17	25.8 ± 0.0	NS
	Callophrys	Bog Elfin				S3	2 May Be At Risk	6	33.1 ± 0.0	NS
1	lanoraieensis	Bog Ellin				33	2 May be At Risk	О	33.1 ± 0.0	
1	Speyeria aphrodite	Aphrodite Fritillary				S3	4 Secure	12	56.9 ± 1.0	NS
i	Polygonia faunus	Green Comma				S3	4 Secure	15	37.7 ± 0.0	NS
;	Oeneis jutta	Jutta Arctic				S3	2 May Be At Risk	6	70.2 ± 0.0	NS
:						S3		12		NS NS
!	Aeshna clepsydra	Mottled Darner					4 Secure		42.6 ± 1.0	
I	Aeshna constricta	Lance-Tipped Darner				S3	4 Secure	18	34.8 ± 1.0	NS
I	Boyeria grafiana	Ocellated Darner				S3	3 Sensitive	10	44.6 ± 1.0	NS
	Gomphaeschna	Harlaguia Darnar				Co	2 Canaitius	2	74.0 . 4.0	NS
I	furcillata	Harlequin Darner				S3	3 Sensitive	3	71.3 ± 1.0	
	Somatochlora									NS
I	tenebrosa	Clamp-Tipped Emerald				S3	4 Secure	12	49.8 ± 1.0	110
	Nannothemis bella	Elfin Skimmer				S3	4 Secure	13	52.3 ± 0.0	NS
!										
!	Sympetrum danae	Black Meadowhawk				S3	3 Sensitive	4	71.4 ± 1.0	NS
I	Enallagma vernale	Vernal Bluet				S3	5 Undetermined	5	47.1 ± 0.0	NS
I	Amphiagrion saucium	Eastern Red Damsel				S3	4 Secure	2	49.4 ± 0.0	NS
	Polygonia	Question Mark				S3B	4 Secure	105	24.2 ± 0.0	NS
1	interrogationis	Question wark				336	4 Secure	105	24.2 ± 0.0	
1	Erynnis juvenalis	Juvenal's Duskywing				S3S4	4 Secure	34	65.5 ± 0.0	NS
i	Amblyscirtes vialis	Common Roadside-Skipper				S3S4	4 Secure	12	13.3 ± 0.0	NS
i	Polygonia progne	Grey Comma				S3S4	4 Secure	22	23.0 ± 0.0	NS
:										
!	Lanthus parvulus	Northern Pygmy Clubtail				S3S4	4 Secure	33	45.8 ± 0.0	NS
I	Bombus terricola	Yellow-banded Bumblebee	Special Concern			SNR	3 Sensitive	1	88.8 ± 0.0	NS
N	Aloina brevirostris	Short-Beaked Rigid Screw Moss				S1		1	98.5 ± 2.0	NS
N	Aloina rigida	Aloe-Like Rigid Screw Moss				S1	2 May Be At Risk	3	93.8 ± 0.0	NS
	Bryohaplocladium	T 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				0.4			07.0 5.0	NS
N	microphyllum	Tiny-leaved Haplocladium Moss				S1		1	67.3 ± 5.0	
N	Fissidens exilis	Pygmy Pocket Moss	Special Concern			S1?	1 At Risk	1	92.7 ± 1.0	NS
11			•			_	1 / tt Ttioit	-		NS
N	Sclerophora peronella	Frosted Glass-whiskers Lichen - Nova Scotia	Special Concern	Special Concern		S1?		9	8.5 ± 0.0	INO
	(Nova Scotia pop.)	pop.		•				_		
N	Erioderma mollissimum	Graceful Felt Lichen	Endangered		Endangered	S1S2	2 May Be At Risk	5	6.0 ± 0.0	NS
	Erioderma									NS
N	pedicellatum (Atlantic	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1S2	1 At Risk	360	2.2 ± 0.0	
	pop.)	• •	· ·	9	· ·					
N	Peltigera hydrothyria	Eastern Waterfan	Threatened			S1S2	2 May Be At Risk	2	43.5 ± 1.0	NS
	Fuscopannaria		modernou				•			NS
N		Rimmed Shingles Lichen				S1S2	2 May Be At Risk	4	7.7 ± 0.0	INO
	leucosticta	-				0400	0.0		00.0	NO
N	Leptogium subtile	Appressed Jellyskin Lichen				S1S3	3 Sensitive	1	28.2 ± 0.0	NS
N	Degelia plumbea	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S2	4 Secure	33	6.0 ± 0.0	NS

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Taxonomic Scientific Name COSEWIC SARA **Prov Legal Prot** Prov GS Rank Group Common Name Prov Rarity Rank # recs Distance (km) Prov Anacamptodon NS Ν S2? 3 Sensitive 74.6 ± 30.0 a Moss splachnoides Ν S2? Anomodon viticulosus a Moss 3 Sensitive 96.6 ± 5.0 NS S2? Ν Atrichum angustatum Lesser Smoothcap Moss 3 Sensitive 3 58.3 ± 2.0 NS Aulacomnium NS Ν One-sided Groove Moss S2? 3 Sensitive 1 98.5 ± 2.0 heterostichum Ν S2? NS Bryum algovicum a Moss 3 Sensitive 98.5 ± 2.0 Ditrichum NS Ν a Moss S2? 78.7 ± 1.0 3 Sensitive 1 rhynchostegium Ν Eurhynchium hians S2? 2 33.0 ± 25.0 NS Light Beaked Moss 3 Sensitive Yew-leaved Pocket Moss Ν Fissidens taxifolius S2? 3 Sensitive 98.5 ± 2.0 NS Anomodon tristis a Moss S2? 3 Sensitive 2 26.3 ± 15.0 NS Ν Ν Kiaeria starkei Starke's Fork Moss S2? 3 Sensitive 32.1 ± 10.0 NS 1 Paludella squarrosa Tufted Fen Moss S2? 3 Sensitive 2 93.3 ± 0.0 NS Ν Blue Dew Moss S2? NS Ν Saelania glaucescens 3 Sensitive 81.2 ± 0.0 1 Sematophyllum NS S2? Ν a Moss 3 Sensitive 67.6 ± 2.0 demissum Sematophyllum NS Ν a Moss S2? 3 Sensitive 2 64.1 ± 6.0 marylandicum Ν Lustrous Peat Moss S2? NS Sphagnum subnitens 3 Sensitive 27.3 ± 2.0 NS Ν Timmia megapolitana Metropolitan Timmia Moss S2? 3 Sensitive 88.4 ± 0.0 Ν Zygodon conoideus a Moss S2? 3 Sensitive 20.4 ± 5.0 NS Cyrto-hypnum NS Ν Tiny Cedar Moss S2? 3 Sensitive 23.9 ± 0.0 minutulum Cyrtomnium NS Ν Short-pointed Lantern Moss S2? 3 Sensitive 71.5 ± 5.0 hymenophylloides Ν Pseudevernia cladonia Ghost Antler Lichen Not At Risk S2S3 3 Sensitive 6 24.5 ± 0.0 NS Ν Calliergon giganteum Giant Spear Moss S2S3 3 Sensitive 93.9 ± 3.0 NS Ν Ephemerum serratum a Moss S2S3 3 Sensitive 87.8 ± 3.0 NS Leucodon NS Ν a Moss S2S3 3 Sensitive 23.9 ± 0.0 andrewsianus S2S3 Ν Myurella julacea Small Mouse-tail Moss 3 Sensitive 81.2 ± 0.0 NS S2S3 72.3 ± 10.0 Ν Pleuridium subulatum a Moss 3 Sensitive NS Ν Tortula truncata a Moss S2S3 3 Sensitive 38.3 ± 300.0 NS Ν Sphagnum wulfianum Wulf's Peat Moss S2S3 3 Sensitive 10 13.4 ± 0.0 NS Tetraplodon NS Ν Toothed-leaved Nitrogen Moss S2S3 3 Sensitive 27.3 ± 2.0 angustatus Ν Limprichtia revolvens S2S3 a Moss 3 Sensitive 93.3 ± 0.0 NS Hvlocomiastrum NS S2S3 Ν a Feather Moss 3 Sensitive 75.2 ± 0.0 pyrenaicum Ν S2S3 NS Collema nigrescens Blistered Tarpaper Lichen 3 Sensitive 3 15.7 ± 0.0 Leptogium NS Ν Beaded Jellyskin Lichen S2S3 3 Sensitive 2 49.7 ± 0.0 teretiusculum Ν S2S3 3 Sensitive NS Leptogium corticola Blistered Jellyskin Lichen 13 6.3 ± 0.0 S2S3 Ν Physconia detersa Bottlebrush Frost Lichen 3 Sensitive 8.5 ± 0.0 NS S2S3 20.9 ± 0.0 Ν Peltigera collina Tree Pelt Lichen 3 Sensitive NS 4 Ν Cladina stygia Black-footed Reindeer Lichen S2S3 9.7 ± 0.0 NS 3 Sensitive 2 Ν Usnea flammea Coastal Bushy Beard Lichen S2S3 3 Sensitive 83.6 ± 1.0 NS 1 Anzia colpodes S3? NS Ν Black-foam Lichen Threatened 3 Sensitive 2 8.5 ± 0.0 Sticta fuliginosa S3? Ν Peppered Moon Lichen 3 Sensitive 11 6.0 ± 0.0 NS S3? Nephroma bellum Naked Kidney Lichen 3 Sensitive 38.4 ± 0.0 NS Ν S3? Ν Collema furfuraceum Blistered Tarpaper Lichen 3 Sensitive 2 23.8 ± 0.0 NS Р Clethra alnifolia Coast Pepper-Bush Special Concern Special Concern Vulnerable S1 1 At Risk 2 71.8 ± 0.0 NS Helianthemum NS P Long-branched Frostweed Endangered S1 1 At Risk 2 88.2 ± 1.0 canadense

S1

S1

1 At Risk

1 At Risk

56

 95.6 ± 2.0

 56.6 ± 0.0

NS

NS

Endangered

Vulnerable

Р

Р

Cypripedium arietinum

Thuja occidentalis

Ram's-Head Lady's-Slipper

Eastern White Cedar

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Taxonomic										
Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Р	Sanicula odorata	Clustered Sanicle				S1	2 May Be At Risk	7	61.9 ± 0.0	NS
Р	Zizia aurea	Golden Alexanders				S1	2 May Be At Risk	41	21.4 ± 1.0	NS
Р	Antennaria parlinii	a Pussytoes				S1	2 May Be At Risk	6	73.2 ± 7.0	NS
	Cynoglossum									NS
Р	virginianum var.	Wild Comfrey				S1	2 May Be At Risk	3	99.5 ± 1.0	
	boreale									
Р	Cochlearia tridactylites	Limestone Scurvy-grass				S1	2 May Be At Risk	8	47.1 ± 0.0	NS
Р	Lobelia spicata	Pale-Spiked Lobelia				S1	2 May Be At Risk	1	75.9 ± 7.0	NS
Р	Hudsonia tomentosa	Woolly Beach-heath				S1	2 May Be At Risk	5	76.1 ± 7.0	NS
P	Desmodium	Canada Tick-trefoil				S1	2 May Be At Risk	20	54.2 ± 0.0	NS
'	canadense	Carlada Fick-trefoli				01	2 May De At Nisk	20	J4.2 ± 0.0	
Р	Desmodium	Large Tick-Trefoil				S1	2 May Be At Risk	4	91.8 ± 0.0	NS
•	glutinosum	· ·					•			
Р	Ribes americanum	Wild Black Currant				S1	5 Undetermined	3	58.1 ± 5.0	NS
Р	Proserpinaca	Intermediate Mermaidweed				S1	2 May Be At Risk	1	40.4 ± 0.0	NS
•	intermedia	momodato womatawood				01	2 May Bo 7 K Mok	•	10.1 ± 0.0	
Р	Fraxinus	Red Ash				S1	2 May Be At Risk	3	83.0 ± 5.0	NS
•	pennsylvanica						-			
P	Polygala polygama	Racemed Milkwort				S1	5 Undetermined	1	73.9 ± 1.0	NS
P	Polygonum careyi	Carey's Smartweed				S1	5 Undetermined	1	40.5 ± 3.0	NS
Р	Montia fontana	Water Blinks				S1	2 May Be At Risk	1	75.3 ± 1.0	NS
Р	Lysimachia quadrifolia	Whorled Yellow Loosestrife				S1	5 Undetermined	1	93.5 ± 0.0	NS
Р	Ranunculus	Pennsylvania Buttercup				S1	2 May Be At Risk	1	98.2 ± 0.0	NS
	pensylvanicus	,					•			
P	Salix myrtillifolia	Blueberry Willow				S1	2 May Be At Risk	1	31.3 ± 0.0	NS
P	Salix serissima	Autumn Willow				S1	2 May Be At Risk	1	31.3 ± 0.0	NS
P	Dirca palustris	Eastern Leatherwood				S1	2 May Be At Risk	14	53.4 ± 1.0	NS
P	Boehmeria cylindrica	Small-spike False-nettle				S1	2 May Be At Risk	2	52.7 ± 0.0	NS
P	Pilea pumila	Dwarf Clearweed				S1	2 May Be At Risk	4	47.3 ± 0.0	NS
P	Carex garberi	Garber's Sedge				S1	2 May Be At Risk	4	53.1 ± 0.0	NS
Р	Carex gynocrates	Northern Bog Sedge				S1	2 May Be At Risk	2	31.3 ± 0.0	NS
P	Carex haydenii	Hayden's Sedge				S1	2 May Be At Risk	2	59.5 ± 1.0	NS
P	Carex pellita	Woolly Sedge				S1	2 May Be At Risk	10	18.3 ± 10.0	NS
Р	Carex plantaginea	Plantain-Leaved Sedge				S1	2 May Be At Risk	3	35.9 ± 0.0	NS
Р	Carex viridula var.	Greenish Sedge				S1	2 May Be At Risk	4	25.0 ± 0.0	NS
-	saxilittoralis	•					•			
Р	Carex grisea	Inflated Narrow-leaved Sedge				S1	2 May Be At Risk	6	96.8 ± 0.0	NS
Р	Cyperus lupulinus ssp.	Hop Flatsedge				S1	2 May Be At Risk	3	78.4 ± 0.0	NS
_	macilentus						•			
P	Iris prismatica	Slender Blue Flag				S1	2 May Be At Risk	2	67.3 ± 7.0	NS
P	Juncus vaseyi	Vasey Rush				S1	2 May Be At Risk	1	52.7 ± 0.0	NS
P	Allium tricoccum	Wild Leek				S1	2 May Be At Risk	8	58.0 ± 0.0	NS
P	Bromus latiglumis	Broad-Glumed Brome				S1	2 May Be At Risk	28	32.4 ± 0.0	NS
P	Cinna arundinacea	Sweet Wood Reed Grass				S1	2 May Be At Risk	19	31.8 ± 0.0	NS
Р	Elymus wiegandii	Wiegand's Wild Rye				S1	2 May Be At Risk	17	31.8 ± 0.0	NS
Р	Elymus hystrix var.	Spreading Wild Rye				S1	2 May Be At Risk	10	46.5 ± 1.0	NS
	bigeloviana						•			
P	Festuca subverticillata	Nodding Fescue				S1	2 May Be At Risk	2	69.9 ± 1.0	NS
P	Potamogeton nodosus	Long-leaved Pondweed				S1	2 May Be At Risk	1_	62.0 ± 5.0	NS
P	Adiantum pedatum	Northern Maidenhair Fern				S1	2 May Be At Risk	7	59.8 ± 1.0	NS
P	Botrychium lunaria	Common Moonwort				S1	2 May Be At Risk	3	58.6 ± 2.0	NS
P	Selaginella rupestris	Rock Spikemoss				S1	2 May Be At Risk	1	98.8 ± 0.0	NS
Р	Solidago hispida	Hairy Goldenrod				S1?	2 May Be At Risk	2	30.0 ± 7.0	NS
Р	Suaeda rolandii	Roland's Sea-Blite				S1?	2 May Be At Risk	2	99.1 ± 2.0	NS
Р	Crataegus robinsonii	Robinson's Hawthorn				S1?	5 Undetermined	3	58.1 ± 5.0	NS
Р	Crataegus submollis	Quebec Hawthorn				S1?	5 Undetermined	7	62.0 ± 7.0	NS
Р	Carex pensylvanica	Pennsylvania Sedge				S1?	2 May Be At Risk	1	59.9 ± 0.0	NS

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raxonomic										
Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
	Dichanthelium									NS
Р	acuminatum var.	Woolly Panic Grass				S1?	5 Undetermined	1	67.0 ± 0.0	
_	lindheimeri	B1 1 4 1				0.400				
P	Fraxinus nigra	Black Ash			Threatened	S1S2	1 At Risk	64	30.8 ± 0.0	NS
P	Rudbeckia laciniata	Cut-Leaved Coneflower				S1S2	2 May Be At Risk	8	49.0 ± 7.0	NS
Р	Chenopodium rubrum	Red Pigweed				S1S2	2 May Be At Risk	4	25.6 ± 2.0	NS
Р	Anemone virginiana var. alba	Virginia Anemone				S1S2	3 Sensitive	5	54.9 ± 5.0	NS
Р	Hepatica nobilis var. obtusa	Round-lobed Hepatica				S1S2	2 May Be At Risk	23	31.2 ± 1.0	NS
Р	Ranunculus sceleratus	Cursed Buttercup				S1S2	2 May Be At Risk	20	68.6 ± 0.0	NS
Р	Parnassia palustris var. parviflora	Marsh Grass-of-Parnassus				S1S2	2 May Be At Risk	1	99.1 ± 1.0	NS
P	Gratiola neglecta	Clammy Hedge-Hyssop				S1S2	3 Sensitive	5	38.2 ± 0.0	NS
Р	Juncus greenei	Greene's Rush				S1S2	2 May Be At Risk	4	65.0 ± 1.0	NS
P	Sparganium									NS
Р	hyperboreum	Northern Burreed				S1S2	3 Sensitive	1	94.0 ± 0.0	
Р	Carex vacillans	Estuarine Sedge				S1S3	5 Undetermined	2	32.3 ± 0.0	NS
Р	Isoetes prototypus	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S2	3 Sensitive	6	91.5 ± 0.0	NS
Р	Floerkea proserpinacoides	False Mermaidweed	Not At Risk			S2	3 Sensitive	2	54.3 ± 7.0	NS
P	Conioselinum chinense	Chinese Hemlock-parsley				S2	3 Sensitive	2	61.7 ± 5.0	NS
Р	Osmorhiza longistylis	Smooth Sweet Cicely				S2	2 May Be At Risk	17	51.1 ± 0.0	NS
Р	Erigeron	Philadelphia Fleabane				S2	3 Sensitive	3	21.1 ± 1.0	NS
Р	philadelphicus Hieracium robinsonii	Robinson's Hawkweed				S2	3 Sensitive	3	55.8 ± 0.0	NS
Р	Lactuca hirsuta var.	Hairy Lettuce				S2	3 Sensitive	1	49.4 ± 7.0	NS
	sanguinea 	•								NO
Р	Senecio pseudoarnica	Seabeach Ragwort				S2	3 Sensitive	23	23.9 ± 0.0	NS
Р	Symphyotrichum undulatum	Wavy-leaved Aster				S2	3 Sensitive	5	76.5 ± 7.0	NS
Р	Symphyotrichum ciliolatum	Fringed Blue Aster				S2	3 Sensitive	15	29.1 ± 3.0	NS
Р	Impatiens pallida	Pale Jewelweed				S2	3 Sensitive	1	81.0 ± 7.0	NS
Р	Caulophyllum thalictroides	Blue Cohosh				S2	2 May Be At Risk	52	32.4 ± 0.0	NS
Р	Betula michauxii	Michaux's Dwarf Birch				S2	3 Sensitive	22	13.2 ± 0.0	NS
P	Arabis drummondii	Drummond's Rockcress				S2	3 Sensitive	6	53.3 ± 0.0	NS
D	Cardamine parviflora									NS
'	var. arenicola	Small-flowered Bittercress				S2	3 Sensitive	4	25.5 ± 0.0	
P	Stellaria humifusa	Saltmarsh Starwort				S2	3 Sensitive	5	20.2 ± 0.0	NS
P	Stellaria longifolia	Long-leaved Starwort				S2	3 Sensitive	11	29.3 ± 0.0	NS
P	Hudsonia ericoides	Pinebarren Golden Heather				S2	3 Sensitive	11	71.3 ± 2.0	NS
P	Hypericum majus	Large St John's-wort				S2	3 Sensitive	2	71.7 ± 7.0	NS
Р	Myriophyllum farwellii	Farwell's Water Milfoil				S2	3 Sensitive	9	31.2 ± 0.0	NS
Р	Myriophyllum verticillatum	Whorled Water Milfoil				S2	3 Sensitive	3	32.4 ± 0.0	NS
Р	Oenothera fruticosa	Narrow-leaved Evening Primrose				S2	5 Undetermined	4	58.2 ± 7.0	NS
	ssp. glauca	3								NS
Р	Rumex salicifolius var. mexicanus	Triangular-valve Dock				S2	3 Sensitive	2	41.0 ± 0.0	NO
Р	Primula mistassinica	Mistassini Primrose				S2	3 Sensitive	16	31.1 ± 1.0	NS
Р	Anemone canadensis	Canada Anemone				S2	2 May Be At Risk	1	92.1 ± 7.0	NS
Р	Anemone quinquefolia	Wood Anemone				S2	3 Sensitive	17	31.3 ± 0.0	NS
Р	Anemone virginiana	Virginia Anemone				S2	3 Sensitive	19	54.9 ± 0.0	NS
Р	Anemone virginiana	Virginia Anemone				S2	3 Sensitive	2	53.9 ± 7.0	NS
	var. virginiana	3						_	· · · ·	

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Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
P	Caltha palustris	Yellow Marsh Marigold				S2	3 Sensitive	1	78.7 ± 0.0	NS
P	Galium boreale	Northern Bedstraw				S2	2 May Be At Risk	2	96.8 ± 5.0	NS
P	Galium labradoricum	Labrador Bedstraw				S2	3 Sensitive	34	30.8 ± 0.0	NS
P	Salix pedicellaris	Bog Willow				S2	3 Sensitive	35	20.5 ± 1.0	NS
P	Salix sericea	Silky Willow				S2	2 May Be At Risk	1	62.2 ± 1.0	NS
P	Tiarella cordifolia	Heart-leaved Foamflower				S2	3 Sensitive	217	29.6 ± 5.0	NS
P	Agalinis maritima	Saltmarsh Agalinis				S2	3 Sensitive	1	68.8 ± 0.0	NS
Р	Viola nephrophylla	Northern Bog Violet				S2	3 Sensitive	8	21.4 ± 1.0	NS
P	Carex bebbii	Bebb's Sedge				S2	3 Sensitive	9	54.3 ± 0.0	NS
P	Carex castanea	Chestnut Sedge				S2	2 May Be At Risk	3	31.3 ± 0.0	NS
P	Carex comosa	Bearded Sedge				S2	3 Sensitive	2	67.9 ± 0.0	NS
Р	Carex hystericina	Porcupine Sedge				S2	2 May Be At Risk	1	86.2 ± 0.0	NS
P	Carex tenera	Tender Sedge				S2	3 Sensitive	6	62.2 ± 1.0	NS
Р	Carex tuckermanii	Tuckerman's Sedge				S2	3 Sensitive	22	68.7 ± 0.0	NS
P	Eriophorum gracile	Slender Cottongrass				S2	3 Sensitive	4	55.3 ± 7.0	NS
P	Vallisneria americana	Wild Celery				S2	2 May Be At Risk	4	35.7 ± 7.0	NS
•	Allium schoenoprasum	•					•			NS
Р	var. sibiricum	Wild Chives				S2	2 May Be At Risk	1	60.7 ± 7.0	NO
Р	Lilium canadense	Canada Lily				S2	2 May Be At Risk	97	32.7 ± 0.0	NS
P	Najas gracillima	Thread-Like Naiad				S2	3 Sensitive	2	89.9 ± 0.0	NS
•	Cypripedium	Tilleau-Like Nalau				02	3 Serisitive	2	09.9 ± 0.0	NS
Р	parviflorum var.	Yellow Lady's-slipper				S2	3 Sensitive	7	73.7 ± 7.0	INO
•	pubescens	reliow Lady 5-slipper				02	3 Serisitive	,	73.7 ± 7.0	
Р	Cypripedium reginae	Showy Lady's-Slipper				S2	2 May Be At Risk	27	21.4 ± 1.0	NS
P	Goodyera pubescens	Downy Rattlesnake-Plantain				S2	3 Sensitive	7	46.2 ± 1.0	NS
•	Platanthera flava var.	•								NS
Р	herbiola	Pale Green Orchid				S2	5 Undetermined	8	58.2 ± 7.0	INO
	Platanthera									NS
Р	macrophylla	Large Round-Leaved Orchid				S2	3 Sensitive	11	66.6 ± 1.0	INO
Р	Spiranthes lucida	Shining Ladies'-Tresses				S2	2 May Be At Risk	23	50.8 ± 1.0	NS
•	Dichanthelium	ŭ					•			NS
Р	linearifolium	Narrow-leaved Panic Grass				S2	3 Sensitive	4	53.3 ± 0.0	
	Piptatherum									NS
Р	canadense	Canada Rice Grass				S2	3 Sensitive	8	40.5 ± 3.0	
Р	Potamogeton friesii	Fries' Pondweed				S2	2 May Be At Risk	2	56.0 ± 5.0	NS
	Potamogeton						•			NS
Р	richardsonii	Richardson's Pondweed				S2	2 May Be At Risk	5	65.3 ± 1.0	
_	Asplenium									NS
Р	trichomanes-ramosum	Green Spleenwort				S2	3 Sensitive	1	96.2 ± 7.0	
_	Dryopteris fragrans									NS
Р	var. remotiuscula	Fragrant Wood Fern				S2	3 Sensitive	4	62.6 ± 7.0	
Р	Woodsia glabella	Smooth Cliff Fern				S2	3 Sensitive	1	86.4 ± 1.0	NS
_	Symphyotrichum									NS
Р	boreale	Boreal Aster				S2?	3 Sensitive	3	60.7 ± 7.0	
Р	Cuscuta cephalanthi	Buttonbush Dodder				S2?	5 Undetermined	2	72.8 ± 1.0	NS
P	Epilobium coloratum	Purple-veined Willowherb				S2?	3 Sensitive	2	73.5 ± 1.0	NS
P	Carex peckii	White-Tinged Sedge				S2?	2 May Be At Risk	4	46.3 ± 0.0	NS
P	Eleocharis ovata	Ovate Spikerush				S2?	3 Sensitive	5	69.4 ± 0.0	NS
Р	Scirpus pedicellatus	Stalked Bulrush				S2?	3 Sensitive	7	33.9 ± 0.0	NS
P	Potamogeton pulcher	Spotted Pondweed			Vulnerable	S2S3	3 Sensitive	3	20.6 ± 2.0	NS
P	Sagina nodosa	Knotted Pearlwort			vuillelable	S2S3	4 Secure	38	20.0 ± 2.0 24.7 ± 0.0	NS
•	Sagina nodosa ssp.						4 Secure		24.7 ± 0.0	NS
Р	borealis	Knotted Pearlwort				S2S3	4 Secure	7	23.8 ± 0.0	140
	Ceratophyllum									NS
Р	echinatum	Prickly Hornwort				S2S3	3 Sensitive	2	32.8 ± 0.0	140
	Hypericum									NS
Р	dissimulatum	Disguised St John's-wort				S2S3	3 Sensitive	3	70.6 ± 0.0	110
	aissirialatatti									

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Taxonomic										
Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Р	Triosteum aurantiacum	Orange-fruited Tinker's Weed				S2S3	3 Sensitive	82	51.1 ± 0.0	NS
Р	Shepherdia canadensis	Soapberry				S2S3	3 Sensitive	19	92.1 ± 7.0	NS
Р	Empetrum eamesii ssp. atropurpureum	Pink Crowberry				S2S3	3 Sensitive	4	71.5 ± 7.0	NS
Р	Empetrum eamesii ssp. eamesii	Pink Crowberry				S2S3	3 Sensitive	5	71.5 ± 7.0	NS
Р	Chamaesyce polygonifolia	Seaside Spurge				S2S3	3 Sensitive	1	83.9 ± 2.0	NS
Р	Halenia deflexa	Spurred Gentian				S2S3	3 Sensitive	4	64.5 ± 1.0	NS
Р	Hedeoma pulegioides	American False Pennyroyal				S2S3	3 Sensitive	4	16.9 ± 5.0	NS
Р	Polygala sanguinea	Blood Milkwort				S2S3	3 Sensitive	16	33.4 ± 5.0	NS
Р	Polygonum buxiforme	Small's Knotweed				S2S3	5 Undetermined	3	60.7 ± 7.0	NS
Р	Plantago rugelii	Rugel's Plantain				S2S3	4 Secure	7	34.3 ± 0.0	NS
Р	Potentilla canadensis	Canada Cinquefoil				S2S3	3 Sensitive	1	61.5 ± 5.0	NS
Р	Galium aparine	Common Bedstraw				S2S3	3 Sensitive	17	22.1 ± 0.0	NS
Р	Salix pellita	Satiny Willow				S2S3	3 Sensitive	3	38.5 ± 0.0	NS
Р	Veronica serpyllifolia	Thursday I are and Constanting II				0000	0.0		47.5 . 0.0	NS
•	ssp. humifusa	Thyme-Leaved Speedwell				S2S3	3 Sensitive	1	47.5 ± 0.0	NO
P	Carex adusta	Lesser Brown Sedge				S2S3	3 Sensitive	7	39.8 ± 7.0	NS
P	Carex hirtifolia	Pubescent Sedge				S2S3	3 Sensitive	47	31.0 ± 4.0	NS
P	Carex houghtoniana	Houghton's Sedge				S2S3	3 Sensitive	1	46.8 ± 1.0	NS
P	Carex swanii	Swan's Sedge				S2S3	3 Sensitive	2	66.7 ± 0.0	NS
P P	Eleocharis olivacea	Yellow Spikerush				S2S3	3 Sensitive	6	35.4 ± 0.0	NS
Р	Elodea canadensis	Canada Waterweed				S2S3	4 Secure	5	52.9 ± 0.0	NS
Р	Coeloglossum viride var. virescens	Long-bracted Frog Orchid				S2S3	2 May Be At Risk	1	90.9 ± 0.0	NS
Р	Cypripedium parviflorum	Yellow Lady's-slipper				S2S3	3 Sensitive	124	60.8 ± 0.0	NS
Р	Poa glauca	Glaucous Blue Grass				S2S3	3 Sensitive	1	91.8 ± 1.0	NS
Р	Potamogeton zosteriformis Botrychium	Flat-stemmed Pondweed				S2S3	3 Sensitive	13	6.4 ± 7.0	NS NS
Р	lanceolatum var. angustisegmentum	Lance-Leaf Grape-Fern				S2S3	3 Sensitive	4	38.5 ± 5.0	INO
Р	Botrychium simplex	Least Moonwort				S2S3	3 Sensitive	2	42.0 ± 0.0	NS
P	Ophioglossum pusillum	Northern Adder's-tongue				S2S3	3 Sensitive	4	55.3 ± 7.0	NS
P	Angelica atropurpurea	Purple-stemmed Angelica				S3	4 Secure	1	35.0 ± 0.0	NS
Р	Erigeron hyssopifolius	Hyssop-leaved Fleabane				S3	3 Sensitive	19	65.1 ± 0.0	NS
Р	Hieracium paniculatum	Panicled Hawkweed				S3	4 Secure	6	64.1 ± 0.0	NS
Р	Megalodonta beckii	Water Beggarticks				S3	4 Secure	12	35.5 ± 5.0	NS
P	Packera paupercula	Balsam Groundsel				S3	4 Secure	36	53.1 ± 0.0	NS
Р	Campanula aparinoides	Marsh Bellflower				S3	3 Sensitive	34	32.9 ± 0.0	NS
Р	Minuartia groenlandica	Greenland Stitchwort				S3	3 Sensitive	21	35.7 ± 7.0	NS
P	Viburnum edule	Squashberry				S3	3 Sensitive	2	67.0 ± 0.0	NS
P	Empetrum eamesii	Pink Crowberry				S3	3 Sensitive	- 78	71.7 ± 7.0	NS
P	Vaccinium boreale	Northern Blueberry				S3	3 Sensitive	3	28.1 ± 0.0	NS
P	Vaccinium	Dwarf Bilberry				S3	4 Secure	55	36.4 ± 0.0	NS
P	caespitosum	,								NO
•	Vaccinium uliginosum	Alpine Bilberry				S3	3 Sensitive	3	78.8 ± 1.0	NS
P	Bartonia virginica	Yellow Bartonia				S3	4 Secure	24	62.2 ± 7.0	NS
Р	Proserpinaca palustris Proserpinaca palustris	Marsh Mermaidweed				S3	4 Secure	10	21.0 ± 1.0	NS NS
P	var. crebra	Marsh Mermaidweed				S3	4 Secure	25	29.4 ± 2.0	
P P	Proserpinaca pectinata Teucrium canadense	Comb-leaved Mermaidweed Canada Germander				S3 S3	4 Secure 3 Sensitive	3 8	28.9 ± 1.0 49.9 ± 5.0	NS NS

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Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Р	Epilobium strictum	Downy Willowherb				S3	3 Sensitive	2	55.6 ± 0.0	NS
Р	Polygonum pensylvanicum	Pennsylvania Smartweed				S3	4 Secure	13	26.4 ± 1.0	NS
Р	Polygonum scandens	Climbing False Buckwheat				S3	3 Sensitive	29	30.9 ± 0.0	NS
Р	Samolus valerandi ssp. parviflorus	Seaside Brookweed				S3	3 Sensitive	7	72.5 ± 5.0	NS
Р	Pyrola asarifolia	Pink Pyrola				S3	4 Secure	8	35.7 ± 50.0	NS
Р	Pyrola minor	Lesser Pyrola				S3	3 Sensitive	1	73.1 ± 0.0	NS
Р	Ranunculus gmelinii	Gmelin's Water Buttercup				S3	4 Secure	24	21.4 ± 5.0	NS
Р	Rhamnus alnifolia	Alder-leaved Buckthorn				S3	4 Secure	51	19.5 ± 1.0	NS
P	Agrimonia gryposepala	Hooked Agrimony				S3	4 Secure	102	31.4 ± 5.0	NS
P	Salix petiolaris	Meadow Willow				S3	4 Secure	18	30.4 ± 0.0	NS
P	Geocaulon lividum	Northern Comandra				S3	4 Secure	2	21.0 ± 5.0	NS
P	Agalinis neoscotica	Nova Scotia Agalinis				S3	4 Secure	4	69.2 ± 0.0	NS
P	Limosella australis	Southern Mudwort				S3	4 Secure	6	28.7 ± 5.0	NS
P	Lindernia dubia	Yellow-seeded False Pimperel				S3	4 Secure	14	58.7 ± 0.0	NS
P	Laportea canadensis	Canada Wood Nettle				S3	3 Sensitive	33	33.7 ± 0.0	NS
P	Verbena hastata	Blue Vervain				S3	4 Secure	107	47.1 ± 0.0	NS
P	Carex eburnea	Bristle-leaved Sedge				S3	3 Sensitive	6	61.7 ± 0.0	NS
P	Carex lupulina	Hop Sedge				S3	4 Secure	34	30.8 ± 0.0	NS
P	Carex rosea	Rosy Sedge				S3	4 Secure	22	38.5 ± 0.0	NS
P	Carex wiegandii	Wiegand's Sedge				S3	3 Sensitive	2	39.2 ± 2.0	NS
Р	Eleocharis nitida	Quill Spikerush				S3	4 Secure	1	80.3 ± 5.0	NS
Р	Juncus subcaudatus var. planisepalus	Woods-Rush				S3	3 Sensitive	12	19.1 ± 1.0	NS
Р	Juncus dudleyi	Dudley's Rush				S3	4 Secure	40	22.2 ± 1.0	NS
Р	Goodyera repens	Lesser Rattlesnake-plantain				S3	3 Sensitive	2	23.9 ± 0.0	NS
Р	Listera australis	Southern Twayblade				S3	4 Secure	83	29.1 ± 0.0	NS
P	Platanthera grandiflora	Large Purple Fringed Orchid				S3	4 Secure	96	31.5 ± 0.0	NS
P	Platanthera hookeri	Hooker's Orchid				S3	4 Secure	4	90.6 ± 0.0	NS
P	Platanthera orbiculata	Small Round-leaved Orchid				S3	4 Secure	17	60.7 ± 7.0	NS
P	Spiranthes ochroleuca	Yellow Ladies'-tresses				S3	4 Secure	7	72.2 ± 0.0	NS
Р	Alopecurus aequalis	Short-awned Foxtail				S3	4 Secure	10	54.9 ± 1.0	NS
Р	Dichanthelium clandestinum	Deer-tongue Panic Grass				S3	4 Secure	158	44.6 ± 4.0	NS
Р	Potamogeton obtusifolius	Blunt-leaved Pondweed				S3	4 Secure	8	69.7 ± 0.0	NS
Р	Sparganium natans	Small Burreed				S3	4 Secure	10	29.1 ± 1.0	NS
Р	Equisetum pratense	Meadow Horsetail				S3	3 Sensitive	10	47.7 ± 0.0	NS
Р	Equisetum variegatum	Variegated Horsetail				S3	4 Secure	23	37.4 ± 0.0	NS
Р	Isoetes acadiensis	Acadian Quillwort				S3	3 Sensitive	4	51.5 ± 14.0	NS
Р	Huperzia appalachiana	Appalachian Fir-Clubmoss				S3	3 Sensitive	6	65.4 ± 5.0	NS
Р	Botrychium dissectum	Cut-leaved Moonwort				S3	4 Secure	4	49.8 ± 1.0	NS
Р	Schizaea pusilla	Little Curlygrass Fern				S3	4 Secure	5	45.7 ± 1.0	NS
Р	Asclepias incarnata ssp. pulchra	Swamp Milkweed				S3?	5 Undetermined	33	29.1 ± 1.0	NS
Р	Polygonum amphibium var. emersum	Water Smartweed				S3?	5 Undetermined	1	51.1 ± 0.0	NS
Р	Amelanchier stolonifera	Running Serviceberry				S3?	4 Secure	3	23.8 ± 0.0	NS
Р	Carex cryptolepis	Hidden-scaled Sedge				S3?	4 Secure	8	31.3 ± 0.0	NS
Р	Carex tribuloides	Blunt Broom Sedge				S3?	4 Secure	5	65.6 ± 0.0	NS
P	Carex foenea	Fernald's Hay Sedge				S3?	4 Secure	11	35.5 ± 0.0	NS
P	Triglochin gaspensis	Gasp I- Arrowgrass				S3?	5 Undetermined	21	23.3 ± 0.0	NS
P	Potamogeton	White-stemmed Pondweed				S3?	3 Sensitive	9	52.3 ± 1.0	NS
P	praelongus Lycopodium	Ground-Fir				S3?	4 Secure	4	62.8 ± 0.0	NS
г	Lycopodium	Giodila-Fii				J3!	4 Secure	4	02.0 ± 0.0	INO

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Taxonomic									5 1. # \$	_
Group	Scientific Name sabinifolium	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	Prov GS Rank	# recs	Distance (km)	Prov
Р	Lycopodium sitchense	Sitka Clubmoss				S3?	4 Secure	2	61.5 ± 5.0	NS
Р	Polypodium appalachianum	Appalachian Polypody				S3?	5 Undetermined	10	29.1 ± 0.0	NS
P P	Atriplex franktonii Suaeda calceoliformis	Frankton's Saltbush Horned Sea-blite				S3S4 S3S4	4 Secure 4 Secure	1 7	93.5 ± 2.0 23.7 ± 0.0	NS NS
Р	Vaccinium corymbosum	Highbush Blueberry				S3S4	4 Secure	2	72.2 ± 0.0	NS
Р	Myriophyllum sibiricum	Siberian Water Milfoil				S3S4	4 Secure	5	32.8 ± 0.0	NS
Р	Sanguinaria canadensis	Bloodroot				S3S4	4 Secure	113	29.6 ± 5.0	NS
P P	Polygonum fowleri Rumex maritimus	Fowler's Knotweed Sea-Side Dock				S3S4 S3S4	4 Secure	3 5	23.8 ± 0.0 25.5 ± 0.0	NS NS
Р	Rumex maritimus var. fueginus	Tierra del Fuego Dock				S3S4	4 Secure	12	25.0 ± 2.0	NS
Р	Fragaria vesca ssp. americana	Woodland Strawberry				S3S4	4 Secure	47	29.0 ± 0.0	NS
Р	Viola sagittata var. ovata	Arrow-Leaved Violet				S3S4	4 Secure	5	70.8 ± 0.0	NS
Р	Eriophorum russeolum	Russet Cottongrass				S3S4	4 Secure	5	24.5 ± 0.0	NS
Р	Juncus acuminatus	Sharp-Fruit Rush				S3S4	4 Secure	2	53.0 ± 0.0	NS
Р	Luzula parviflora	Small-flowered Woodrush				S3S4	4 Secure	3	47.7 ± 0.0	NS
P	Liparis loeselii	Loesel's Twayblade				S3S4	4 Secure	3	62.8 ± 5.0	NS
Р	Panicum tuckermanii	Tuckerman's Panic Grass				S3S4	4 Secure	3	91.3 ± 0.0	NS
Р	Trisetum spicatum	Narrow False Oats				S3S4	4 Secure	10	53.1 ± 0.0	NS
Р	Cystopteris bulbifera	Bulblet Bladder Fern				S3S4	4 Secure	68	28.9 ± 0.0	NS
Р	Equisetum hyemale var. affine	Common Scouring-rush				S3S4	4 Secure	26	42.1 ± 0.0	NS
Р	Equisetum scirpoides	Dwarf Scouring-Rush				S3S4	4 Secure	43	45.7 ± 0.0	NS
Р	Lycopodium complanatum	Northern Clubmoss				S3S4	4 Secure	5	24.5 ± 0.0	NS
Р	Solidago simplex var. randii	Sticky Goldenrod				SH	0.1 Extirpated	1	62.3 ± 1.0	NS
Р	Viola canadensis	Canada Violet				SH	0.1 Extirpated	1	54.3 ± 7.0	NS
Р	Juglans cinerea	Butternut	Endangered	Endangered		SNA	7 Exotic	1	90.2 ± 0.0	NS
Р	Liatris spicata	Dense Blazing Star	Threatened	Threatened		SNA		1	73.1 ± 0.0	NS
Р	Bartonia paniculata ssp. paniculata	Branched Bartonia	Threatened	Threatened		SNA		1	24.0 ± 10.0	NS

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The recipient of these data shall acknowledge the ACCDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

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Data Report 5559: Mooseland, NS
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Communities, Culture & Heritage

1741 Brunswick Street 3rd Floor P.O. Box 456 Halifax, NS B3J 2R5 *Tel:* (902) 424-6475 *Fax:* (902) 424-0560

April 21, 2015

Melanie MacDonald McCallum Environmental Ltd. 135, 2 Bluewater Road Bedford Nova Scotia B4B 1G7

Dear Ms. MacDonald:

RE: Environmental Screening 15-03-30a

Beaver Dam Gold Mine

Further to your request of March 30, 2015 staff at Communities, Culture and Heritage has reviewed their files for reference to the presence of natural resources in the study area. Please be aware that the information is not comprehensive, and may include varying degrees of accuracy with respect to the precise location and condition of natural resources.

It should be noted that the amount and degree of disturbance from previous developments could have a significant role in establishing the presence, absence or condition of natural resources in this area.

Botany

Staff has reviewed the records for plant species-at-risk. The following plants are known from the vicinity of Tent and Kent Lakes in the Beaver Dam area listed and should be considered prior to any development of the site or access roads. Presence or absence of these or any species at risk encountered should be stated in the reports generated.

Betula michauxii (provincially Yellow listed)
Bidens beckii (provincially Yellow listed)
Cypridpedium reginae (provincially Orange listed)
Potamogeton zosteriiformis (provincially Yellow listed)
Rhamnus alnifolia (provincially Orange listed)
Viola nephrophylla (provincially Yellow listed)
Zizia aurea (provincially Orange listed)

The presence/absence of the above species should be determined when identification is certain and the results should be stated in the final report.

M. MacDonald April 21, 2014 page 2

Zoology

Staff has reviewed the zoological records for species of concern for the site indicated. There are no records for the foot-printed site. However, there are records and reports of the following species with conservation concern in the area.

There are nesting records or probable nesting records for the following bird species of concern in the immediate area:

Blue-winged Teal Common Nighthawk Spotted Sandpiper **Greater Yellowlegs** Common Loon **Gray Jay** Pine Siskin **Barn Swallow** Tree Swallow Rusty Blackbird **Boreal Chickadee Bay-breasted Warbler** Cape May Warbler Canada Warbler Ruby-crowned Kinglet Golden-crowned Kinglet Olive-sided Flycatcher Yellow-bellied Flycatcher Black-backed Woodpecker

If you have any questions, please contact me at 424-6475.

Sincerely,

Sean Weseloh-McKeane Coordinator, Special Places

Enclosure

Nova Scotia Government Web Site http://www.gov.ns.ca

Appendix K Master Plant List



Latin Name	Common Name	Indicator Status	S-Rank
Abies balsamea	Balsam Fir	FAC	S 5
Acer rubrum	Red Maple	FAC	S5
Agrostis capillaris	Brown Top	FAC	SE
Agrostis gigantea	Black Bentgrass	FAC	SNA
Agrostis perennans	Perennial Bentgrass	FAC	S5
Agrostis scabra	Rough Bentgrass	FAC	S 5
Agrostis stolonifera	Spreading Bentgrass	FACW	S5
Alnus incana	Speckled Alder	FACW	S5
Alnus viridis	Green Alder	FACU	S5
Amelanchier laevis	er laevis Serviceberry FAC		S5
Anaphalis margaritacea	Pearly Everlasting	UPL	S5
Andromeda polifolia	Bog Rosemary	OBL	S5
Aralia hispida	Bristly Sasparilla	UPL	S5
Aralia nudicaulis	Wild Sarsaparilla	FAC	S5
Arethusa bulbosa	Dragon's Mouth	OBL	S4
Athyrium filix-femina	Common Lady Fern	FAC	S5
Bartonia paniculata	Branched Bartonia	OBL	S4S5
Betula alleghaniensis	Yellow Birch	FAC	S5
Betula papyrifera	Paper Birch	FACU	S5
Betula papyrifera cordifolia	Heart-Leaved Paper Birch	FACU	S5
Betula populifolia	Gray Birch	FAC	S5
Calamagrostis canadensis	Bluejoint Reed Grass	FACW	S4S5
Calamagrostis pickeringii	Pickering's Bluejoint	OBL	S5
Calla palustris	Wild Calla	OBL	S4
Calopogon tuberosus	Tuberous Grass Pink	FACW+	S4
Carex arctata	Drooping Woodland Sedge	FAC	S5
Carex atlantica ssp. atlantica	Atlantic Sedge	FACW+	S4
Carex billingsii	Billing's sedge	OBL	S4
Carex brunnescens	Brownish Sedge	FAC	S5
Carex buxbaumii	Buxsbaum's Sedge	OBL	S4
Carex canescens	Silvery Sedge	OBL	S5
Carex crawfordii	Cawford Sedge	FAC	S5
Carex crinita	Fringed Sedge	OBL	S5
Carex debilis	White Edge Sedge	FAC	S5
Carex disperma	Two-seeded Sedge	FACW	S5
Carex echinata	Star Sedge	OBL	S5
Carex exilis	Coastal Sedge	OBL	S4
Carex folliculata	Northern Long Sedge	OBL	S5
Carex gracillima	Graceful Sedge	FAC	S4S5
Carex gynandra	Nodding Sedge	FACW	S5



Latin Name	Common Name	Indicator Status	S-Rank
Carex intumescens	Bladder Sedge	FAC	S5
Carex lasiocarpa	Slender Sedge	OBL	S5
Carex leptalea	Bristly Stalk Sedge	FACW+	S5
Carex lurida	Sallow Sedge	OBL	S5
Carex magellanica	Boreal Bog Sedge	OBL	S5
Carex novae-angliae	New-England Sedge	FACU	S5
Carex oligosperma	Few-Seeded Sedge	OBL	S5
Carex pauciflora	Few-Flowered Sedge	OBL	S4
Carex projecta	Necklace Sedge	FACW	S5
Carex scoparia	Broom Sedge	FAC	S5
Carex stipata	Awl-fruited Sedge	OBL	S5
Carex stricta	Tussock's Sedge	OBL	S5
Carex trisperma	Three-seeded Sedge	OBL	S4?
Carex umbellata	Hidden Sedge	UPL	S5
Carex utriculata	Bear Sedge	OBL	S5
Carex viridula	Little Green Sedge	OBL	S5
Carex wiegandii	Wiegand's Sedge	OBL	S 3
Carex echinata	Little Prickly Sedge	OBL	S5
Centaurea nigra	Black Knapweed	SNA	SE
Chamaedaphne calyculata	Leatherleaf	OBL	S5
Chelone glabra	Turtlehead	FACW+	S5
Circaea alpina	Small Enchanter's Nightshade	FAC	S5
Cladium mariscoides	Twigrush	OBL	S5
Clintonia borealis	Yellow Bluebead Lily	FAC	S5
Comarum palustre	Marsh Cinquefoil	OBL	S5
Coptis trifolia	Goldthread	FAC	S5
Cornus canadensis	Bunchberry	FAC	S5
Corylus cornuta	Beaked Hazel	FAC	S5
Cypripedium acaule	Pink Lady's-Slippers	FAC	S5
Danthonia compressa	Flattened Oat Grass	FACU	S5
Danthonia spicata	Poverty Oat Grass	FACU	S5
Dennstaedtia punctilobula	Hay-scented Fern	FAC	S5
Dicanthelium acuminatum	Panic Grass	FAC	S5
Dichanthelium boreale	Northern Panic Grass	FACW	S5
Diervilla lonicera	Northern Bush Honeysuckle	FACU	S5
Doellingeria umbellata	Hairy Flat-top White Aster	FAC	S5
Drosera intermedia	Spoon-Leaved Sundew	OBL	S5
Drosera rotundifolia	Round-leaved Sundew	OBL	SNR
Dryopteris campyloptera	Mountain Wood Fern	FAC	S5
Dryopteris carthusiana	Spinulose Wood Fern	FAC	S5



Latin Name	Common Name	Indicator Status	S-Rank
Dryopteris cristata	Crested Wood Fern	FACW	S 5
Dryopteris intermedia	Evergreen Wood Fern	FAC	S5
Dulichium arundinaceum	Three-Way Sedge	OBL	S 5
Eleocharis acicularis	Needle Spikerush	OBL	S 5
Eleocharis palustris	Common Spikerush	OBL	S 5
Eleocharis robbinsii	Robbin's Spikerush	OBL	S4
Eleocharis tenuis	Slender Spikerush	FACW	S 5
Empetrum nigrum	Black Crowberry	FAC	S 5
Epigaea repens	Trailing Arbutus	FACU	S5
Epilobium leptophyllum	Bog Willowherb	FACW+	S5
Epilobium palustre	Marsh Willowherb	OBL	S5
Equisetum arvense	Field Horsetail	FAC	S 5
Equisetum fluviatile	Water Horsetail	OBL	S5
Equisetum sylvaticum	Woodland Horsetail	FAC	S5
Erechtites hieracifolia	Fireweed	FAC	S5
Eriocaulon aquaticum	White Buttons	OBL	S5
Eriophorum angustifolium	Narrow-leaved Cottongrass	OBL	S5
Eriophorum tenellum	Rough Cottongrass	OBL	S4S5
Eriophorum vaginatum	Tussock Cottongrass	OBL	S5
Eriophorum virginicum	Tawny Cottongrass	OBL	S5
Eupatorium perfoliatum	Common Boneset	FACW	S5
Euphrasia officinalis	European Eyebright	FAC	S5
Eurybia radula	Low Rough Aster	OBL	S5
Euthamia graminifolia	Grass-leaved Goldenrod	FAC	S5
Fallopia japonica	Japanese Knotweed	FACU	SNA
Fragaria virginiana	Wild Strawberry	FAC	S5
Fraxinus americana	White Ash	FAC	S5
Galium asprellum	Rough Bedstraw	OBL	S5
Galium palustre	Common Marsh Bedstraw	FACW+	S5
Galium tinctorium	Stiff-Marsh Bedstraw	OBL	S5
Gaultheria hispidula	Creeping Snowberry	FAC	S5
Gaultheria procumbens	Eastern Teaberry	FAC	S5
Gaylussacia baccata	Black Huckleberry	FAC	S5
Gaylussacia bigeloviana	Dwarf Huckleberry	OBL	S5
Gaylussacia dumosa	Bog Huckleberry	OBL	S5
Glyceria borealis	Small Floating Mannagrass	OBL	S5
Glyceria canadensis	Canada Manna Grass	FACW	S5
Glyceria grandis	Common Tall Manna Grass	OBL	S4S5
Glyceria laxa	Northern Manna Grass	OBL	S4?
Glyceria melicaria	Slender Manna-grass	OBL	S4



Latin Name	Common Name	Indicator Status	S-Rank
Glyceria striata	Fowl Manna Grass	FACW	S5
Goodyera repens	Dwarf Rattlesnake Plantain	FAC	S3
Gratiola aurea	Golden Pert	OBL	S5
Hieracium lachenalii	Common hawkweed	UPL	SE
Hieracium pilosella	Mouse-eared hawkweed	UPL	SE
Hieracium piloselloides	Tall hawkweed	FACU	SE
Huperzia lucidulum	Shining Clubmoss	UPL	S5
Hydrocotyle americana	American Marsh Pennywort	OBL	S5
Hypericum boreale	Northern St. John's-Wort	OBL	S 5
Hypericum canadense	Canada St. John's-Wort	FACW	S5
Hypericum ellipticum	Pale St. John's-wort	OBL	S5
Hypericum perforatum	St. John's-Wort	FAC	SE
Ilex verticillata	Common Winterberry	FACW+	S 5
Iris versicolor	Harlequin Blue Flag	FACW+	S5
Juncus balticus	Baltic Rush	FACW	S5
Juncus brevicaudatus	Narrow Panicled Rush	OBL	S5
Juncus canadensis	Canada Rush	OBL	S 5
Juncus effusus	Soft Rush	FACW	S5
Juncus filiformis	Thread Rush	OBL	S5
Juncus militaris	Military Rush	OBL	S 5
Juncus pelocarpus	Bog Rush	OBL	S5
Juncus tenuis	Slender Rush	FAC	S5
Juniperus communis	Common Juniper	FAC	S 5
Kalmia angustifolia	Sheep Laurel	FAC	S 5
Kalmia polifolia	Pale Bog Laurel	OBL	S 5
Lactuca canadensis	Canada lettuce	UPL	S5
Larix laricina	Larch	FAC	S 5
Ledum groenlandicum	Common Labrador Tea	FACW+	S 5
Leersia oryzoides	Rice Cutgrass	OBL	S5
Linnaea borealis	Northern Twinflower	FAC	S5
Listera australis	Southern Twayblade	OBL	S 3
Listera cordata	Heart-Leaved Twayblade	FACW	S4
Lonicera canadensis	Canada Fly Honeysuckle	FAC	S5
Lonicera villosa	Mountain Fly Honeysuckle	FACW	S4S5
Luzula multiflora	Common Woodrush	FACU	S5
Lycopodiella inundata	Bog Clubmoss	FACW+	S5
Lycopodium annotinum	Stiff Clubmoss	FAC	S5
Lycopodium clavatum	Running Pine	FAC	S5
Lycopodium obscurum	Tree Clubmoss	FACU	S4S5
Lycopus americanus	American Bugleweed	OBL	S5



Latin Name	Common Name	Indicator Status	S-Rank
Lycopus uniflorus	Northern Bugleweed	OBL	S5
Lysimachia terrestris	Swamp Yellow Loosestrife	FACW+	S5
Maianthemum canadense	False Lily-of-the-valley	FAC	S5
Maianthemum trifolium	Three-leaved False Solomon's Seal	OBL	S5
Mitchella repens	Partridgeberry	FACU	S5
Moneses uniflora	One-flowered Wintergreen	FAC	S5
Monotropa hypopithys	Pinesap	FACU	S4
Monotropa uniflora	Indian Pipe	FACU	S4
Muhlenbergia uniflora	Bog Muhly	FACW	S5
Myrica gale	Sweet Gale	OBL	S5
Myrica pensylvanica	Northern Bayberry	FAC	S5
Nemopanthus mucronatus	Mountain Holly	FAC	S5
Nymphaea odorata	American Waterlily	OBL	S5
Oclemena acuminata	Whorled Wood Aster	FACU	S5
Oclemena nemoralis	Bog Aster	OBL	S5
Oclemena x blakei	a hybrid White Panicled American-Aster	FACW	S4S5
Onoclea sensibilis	Sensitive Fern	FACW	S5
Orthilia secunda	One-sided Wintergreen	FAC	S5
Osmunda cinnamomea	Cinnamon Fern	FAC	S5
Osmunda claytoniana	Interrupted Fern	FAC	S5
Osmunda regalis	Royal Fern	OBL	S 5
Oxalis montana	Common Wood Sorrel	FAC	S 5
Persicaria sagittata	Arrow-leaved Smartweed	OBL	S5
Phegopteris connectilis	Northern Beech Fern	FAC	S 5
Phleum pratense	Common Timothy	FAC	SNA
Photinia melanocarpa	Black Chokeberry	FACW	S5
Photinia pyrifolia	Red Chokeberry	FACW	S4
Picea glauca	White Spruce	FAC	S5
Picea mariana	Black Spruce	FACW	S5
Picea rubens	Red Spruce	FAC	S5
Pinus strobus	Eastern White Pine	FAC	S5
Platanthera clavellata	Small Green Woodland Orchid	FACW	S5
Poa compressa	Canada Bluegrass	FACW	SE
Pogonia ophioglossoides	Rose Pogonia	OBL	S4
Polypodium apalachianum	Appalachian Polypody	UPL	S3?
Pontedaria cordata	Pickerel Weed	OBL	S5
Populus grandidentata	Large-toothed Aspen	FACU-	S5
Populus tremuloides	Trembling Aspen	FAC	S5
Potamogeton pusillus	Small Pondweed	OBL	S5
Potentilla simplex	Old Field Cinquefoil	UPL	S5



Latin Name	Common Name	Indicator Status	S-Rank
Prenanthes trifoliolata	Three-leaved Rattlesnakeroot	FACU	S5
Prunus pensylvanica	Pin Cherry	FACU	S5
Prunus viriginana	Chokecherry	FAC	S 5
Pteridium aquilinum	Bracken Fern	FACU	S 5
Radiola linoides	Allseed	FACU	SNA
Ranunculus acris	Common Buttercup	FAC	SNA
Rhododendron canadense	Rhodora	FAC	S5
Rhynchospora alba	White Beakrush	OBL	S 5
Rhynchospora capitellata	Small-headed Beakrush	FACW+	S4
Rhynchospora fusca	·		S 5
Ribes glandulosum	Skunk Currant	FAC	S5
Ribes lacustre	Bristly Black Currant	FACW	S5
Ribes triste	Swamp Red Currant	FACW+	S4
Rosa nitida	Shining Rose	OBL	S4
Rosa palustris	Swamp Rose	OBL	S4
Rosa virginiana	Virginia Rose	FAC	S5
Rubus alleghaniensis	Blackberry	FACU	S5
Rubus canadensis	Smooth Blackberry	FACU	S5
Rubus chamaemorus	Cloudberry	OBL	S4
Rubus hispidus	Bristly Dewberry	FACW	S5
Rubus ideaus	Red Raspberry	FAC	S 5
Rubus pensylvanicus	Pennsylvania Blackberry	FACU	S4
Rubus pubescens	Dwarf Red Raspberry	FAC	S5
Rubus setosus	Small Bristleberry	FACW	S4?
Rumex acetosella	Sheep Sorrel	FACU	SNA
Salix bebbiana	Bebb's Willow	FAC	S5
Salix discolor	Pussy Willow	FAC	S5
Salix pyrifolia	Balsam Willow	FACW	S5
Sarracenia purpurea	Northern Pitcher Plant	OBL	S5
Scheuchzeria palustris	Podgrass	OBL	S4S5
Schoenoplectus subterminalis	Water Bulrush	OBL	S5
Scirpus atrocinctus	Black-girdled Bulrush	FACW	S5
Scirpus cyperinus	Common Woolly Bulrush	FACW	S5
Scirpus microcarpus	Small-fruited Bulrush	OBL	S5
Scirpus cyperinus	Cottongrass Bulrush	OBL	S5
Sium suave	Common Water Parsnip	OBL	S5
Solidago canadensis	Canada Goldenrod	FAC	S5
Solidago gigantea	Giant Goldenrod	FAC	S5
Solidago nemoralis	Field Goldenrod	UPL	S4S5
Solidago puberula	Downy Goldenrod	UPL	S5



Latin Name	Common Name	Indicator Status	S-Rank
Solidago rugosa	Rough-stemmed Goldenrod	FAC	S5
Solidago uliginosa	Northern Bog Goldenrod	OBL	S 5
Solidago rugosa	Rough-Leaf Goldenrod	FAC	S5
Sorbus americana	American Mountain Ash	FAC	S5
Sparganium americanum	American Burreed	OBL	S5
Sparganium angustifolium	American Burred	OBL	S5
Sparganium fluctuans	Floating Burreed	OBL	S4
Sphagnum capilifolium	sphagnum moss	OBL	S5
Sphagnum fuscum	sphagnum moss	OBL	S5
Sphagnum girgensohnii	sphagnum moss	OBL	S5
Sphagnum macrophyllum	Largeleaf Sphagnum	OBL	S4
Sphagnum magellanicum	sphagnum moss	OBL	S5
Spiraea alba	White Meadowsweet	FAC	S 5
Spiraea tomentosa	Steeplebush	FAC	S 5
Spiranthes cernua	Nodding Ladies' Tresses	FACW	S5
Spiranthes romanzoffiana	Hooded Ladies'-tresses	OBL	S4
Symphyotrichum lateriflorum	Calico Aster	FAC	S5
Symphyotrichum novi-belgii	New Belgium American-Aster	FAC	S5
Symphyotrichum puniceum	Swamp Aster	OBL	S5
Taxus canadensis	Canada Yew	FAC	S5
Thalictrum pubescens	Tall Meadow Rue	FACW	S5
Thelypteris noveboracensis	New York Fern	FAC	S5
Thelypteris palustris	Eastern Marsh Fern	OBL	S5
Thelypteris simulata	Bog Fern	OBL	S4S5
Triadenum virginicum	Virginia St John's-wort	OBL	S5
Trichophorum cespitosum	Tufted Clubrush	OBL	S 5
Tridenum fraseri	Marsh-St. John's wort	OBL	S5
Trientalis borealis	Northern Starflower	FAC	S5
Trifolium dubium	Suckling Clover	UPL	SE
Trillium undulatum	Painted Trillium	FAC	S5
Tussilago farfara	Coltsfoot	FAC	SE
Typha latifolia	Broad-leaved Cat-tail	OBL	S5
Utricularia geminiscapa	Twin-stemmed Bladderwort	OBL	S4
Utricularia cornuta	Horned Bladder-wort	OBL	S5
Utricularia intermedia	Flatleaf Bladderwort	OBL	S 5
Utricularia macrorhiza	Flatleaf Bladderwort	OBL	S 5
Utricularia purpurea	Eastern Purple Bladderwort	OBL	S5
Utricularia vulgaris	Common Bladderwort	OBL	S5
Vaccinium angustifolium	Late Low-bush Blueberry	FAC	S5
Vaccinium corymbosum	High-bush Blueberry	FACW+	S3S4



Latin Name	Common Name	Indicator Status	S-Rank
Vaccinium macrocarpon	Large Cranberry	FACW+	S5
Vaccinium myrtilloides	Velvet-leaved Blueberry	FAC	S5
Vaccinium oxycoccos	Small Cranberry	OBL	S5
Vaccinium vitis-idaea ssp. minus	Mountain Cranberry	FAC	S5
Vaccinium angustifolium	Late Lowbush Blueberry	FAC	S5
Vaccinium macrocarpon	Large Cranberry	FACW+	S5
Vaccinium myrtilloides	Velvetleaf Blueberry	FAC	S5
Veronica officinalis	Common Speedwell	FACU	S5
Viburnum lantanoides	Hobblebush	FAC	S5
Viburnum nudum	Northern Wild Raisin	FAC	S5
Viola cucullata	Marsh Blue Violet	FAC	S5
Viola lanceolata	Lance-leaf Violet	OBL	S5
Viola macloskeyi	Small White Violet	FACW	S5
Viola renifolia	Kidney-leaved White Violet	FAC	S4

Note: Species names in red are Priority Species.

	Jisa I
Append Maritime Breeding Bird Atlas Data Summa	

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Species list for square 20NQ17 (number of entries returned: 73)

				Breeding Evidence			I	Point (Counts	s
Region	Square	Species	Max BE	Categ	#Sq	Atlasser Name	#PC	%PC	Abun	#Sq
20	20NQ17	Canada Goose	Н	POSS	1	2 participants				
20	20NQ17	American Black Duck	FY	CONF	1	Chris M Pepper				
20	20NQ17	Mallard	FY	CONF	1	Chris M Pepper				
20	20NQ17	Ring-necked Duck	P	PROB	1	Chris M Pepper				
20	20NQ17	Hooded Merganser	P	PROB	1	Chris M Pepper				
20	20NQ17	Common Merganser	FY	CONF	1	Chris M Pepper				
20	20NQ17	Ruffed Grouse	S	POSS	1	Chris M Pepper				
20	20NQ17	Spruce Grouse	FY	CONF	1	Harry Brennan				
20	20NQ17	Common Loon	P	PROB	1	Chris M Pepper				
20	20NQ17	Northern Harrier	P	PROB	1	Chris M Pepper				
20	20NQ17	Broad-winged Hawk	Н	POSS	1	Chris M Pepper				
20	20NQ17	Greater Yellowlegs	Н	POSS	1	Chris M Pepper				
20	20NQ17	American Woodcock	S	POSS	1	Patricia L Chalmers				
20	20NQ17	Great Horned Owl	S	POSS	1	4 participants				
20	20NQ17	Barred Owl	P	PROB	1	2 participants				
20	20NQ17	Northern Saw-whet Owl	S	POSS	1	4 participants				
20	20NQ17	Common Nighthawk	DD	CONF	1	Chris M Pepper				
20	20NQ17	Ruby-throated Hummingbird	Н	POSS	1	Chris M Pepper				
20	20NQ17	Belted Kingfisher	Н	POSS	1	2 participants				
20	20NQ17	Yellow-bellied Sapsucker	Н	POSS	1	Chris M Pepper				
20	20NQ17	Downy Woodpecker	CF	CONF	1	Chris M Pepper				
20	20NQ17	Hairy Woodpecker	Н	POSS	1	Chris M Pepper				
20	20NQ17	Northern Flicker	FY	CONF	1	Chris M Pepper				
20	20NQ17	Pileated Woodpecker	Н	POSS	1	Chris M Pepper				
20	20NQ17	Merlin	Н	POSS	1	Chris M Pepper				
20	20NQ17	Olive-sided Flycatcher	S	POSS	1	Chris M Pepper				
20	20NQ17	Eastern Wood-Pewee	S	POSS	1	Chris M Pepper				
20	20NQ17	Yellow-bellied Flycatcher	Т	PROB	1	Chris M Pepper				
20	20NQ17	Alder Flycatcher	S	POSS	1	Chris M Pepper				
20	20NQ17	Least Flycatcher	A	PROB	1	Chris M Pepper				
20	20NQ17	Blue-headed Vireo	CF	CONF	1	Chris M Pepper				
20	20NQ17	Red-eyed Vireo	S	POSS	1	Chris M Pepper				
20	20NQ17	Gray Jay	FY	CONF	1	Chris M Pepper				
20	20NQ17	Blue Jay	S	POSS	1	Chris M Pepper				
20	20NQ17	American Crow	Н	POSS	1	Chris M Pepper				

20	20NQ17	Tree Swallow	FS	CONF	1	Chris M Pepper		
20	20NQ17	Barn Swallow	NY	CONF	1	Chris M Pepper		
20	20NQ17	Black-capped Chickadee	FY	CONF	1	Chris M Pepper		
20	20NQ17	Boreal Chickadee	P	PROB	1	Chris M Pepper		
20	20NQ17	Winter Wren	S	POSS	1	Chris M Pepper		
20	20NQ17	Golden-crowned Kinglet	P	PROB	1	Chris M Pepper		
20	20NQ17	Ruby-crowned Kinglet	CF	CONF	1	Chris M Pepper		
20	20NQ17	Swainson's Thrush	FY	CONF	1	Chris M Pepper		
20	20NQ17	Hermit Thrush	FY	CONF	1	Chris M Pepper		
20	20NQ17	American Robin	Н	POSS	1	Chris M Pepper		
20	20NQ17	European Starling	FY	CONF	1	Chris M Pepper		
20	20NQ17	Cedar Waxwing	P	PROB	1	Chris M Pepper		
20	20NQ17	Ovenbird	FY	CONF	1	Chris M Pepper		
20	20NQ17	Black-and-white Warbler	S	POSS	1	Chris M Pepper		
20	20NQ17	Nashville Warbler	S	POSS	1	Chris M Pepper		
20	20NQ17	Common Yellowthroat	CF	CONF	1	Chris M Pepper		
20	20NQ17	American Redstart	P	PROB	1	Chris M Pepper		
20	20NQ17	Northern Parula	S	POSS	1	Chris M Pepper		
20	20NQ17	Magnolia Warbler	S	POSS	1	Chris M Pepper		
20	20NQ17	Bay-breasted Warbler	P	PROB	1	Chris M Pepper		
20	20NQ17	Blackburnian Warbler	S	POSS	1	Chris M Pepper		
20	20NQ17	Yellow Warbler	S	POSS	1	Chris M Pepper		
20	20NQ17	Palm Warbler	CF	CONF	1	Chris M Pepper		
20	20NQ17	Yellow-rumped Warbler	CF	CONF	1	Chris M Pepper		
20	20NQ17	Black-throated Green Warbler	CF	CONF	1	Chris M Pepper		
20	20NQ17	Canada Warbler	Т	PROB	1	Chris M Pepper		
20	20NQ17	Chipping Sparrow	Н	POSS	1	Chris M Pepper		
20	20NQ17	Savannah Sparrow	CF	CONF	1	Chris M Pepper		
20	20NQ17	Song Sparrow	S	POSS	1	Chris M Pepper		
20	20NQ17	Lincoln's Sparrow	CF	CONF	1	Chris M Pepper		
20	20NQ17	Swamp Sparrow	FY	CONF	1	Chris M Pepper		
20	20NQ17	White-throated Sparrow	FY	CONF	1	Chris M Pepper		
20	20NQ17	Dark-eyed Junco	FY	CONF	1	Chris M Pepper		
20	20NQ17	Red-winged Blackbird	S	POSS	1	Chris M Pepper		
20	20NQ17	Common Grackle	P	PROB	1	Chris M Pepper		
20	20NQ17	Pine Grosbeak	P	PROB	1	Chris M Pepper		
20	20NQ17	Purple Finch	S	POSS	1	Chris M Pepper		
20	20NQ17	American Goldfinch	P	PROB	1	Chris M Pepper		

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Species list for square 20NQ18 (number of entries returned: 82)

				Breed	ing I	Evidence		Point Counts		
Region	Square	Species	Max BE	Categ	#Sq	Atlasser Name	#РС	%PC	Abun	#Sq
20	20NQ18	Canada Goose	FY	CONF	1	Jim A Elliott				
20	20NQ18	Wood Duck	Н	POSS	1	Jim A Elliott				
20	20NQ18	American Black Duck	FY	CONF	1	Jim A Elliott				
20	20NQ18	Green-winged Teal	P	PROB	1	Jim A Elliott				
20	20NQ18	Ring-necked Duck	FY	CONF	1	2 participants				
20	20NQ18	Hooded Merganser	FY	CONF	1	Jim A Elliott				
20	20NQ18	Common Merganser	Н	POSS	1	Jim A Elliott				
20	20NQ18	Ruffed Grouse	FY	CONF	1	Jim A Elliott				
20	20NQ18	Spruce Grouse	Н	POSS	1	Jim A Elliott				
20	20NQ18	Common Loon	NE	CONF	1	Jim A Elliott				
20	20NQ18	Northern Harrier	FY	CONF	1	Jim A Elliott				
20	20NQ18	Northern Goshawk	FY	CONF	1	Jim A Elliott				
20	20NQ18	Red-tailed Hawk	Т	PROB	1	Jim A Elliott				
20	20NQ18	Spotted Sandpiper	FY	CONF	1	Jim A Elliott				
20	20NQ18	Greater Yellowlegs	FY	CONF	1	Jim A Elliott				
20	20NQ18	Wilson's Snipe	Н	POSS	1	Doug Ross Archibald				
20	20NQ18	American Woodcock	DD	CONF	1	Jim A Elliott				
20	20NQ18	Mourning Dove	S	POSS	1	Jim A Elliott				
20	20NQ18	Great Horned Owl	FY	CONF	1	Jim A Elliott				
20	20NQ18	Barred Owl	FY	CONF	1	Jim A Elliott				
20	20NQ18	Northern Saw-whet Owl	S	POSS	1	2 participants				
20	20NQ18	Common Nighthawk	P	PROB	1	Chris M Pepper				
20	20NQ18	Ruby-throated Hummingbird	FY	CONF	1	Jim A Elliott				
20	20NQ18	Belted Kingfisher	FY	CONF	1	Jim A Elliott				
20	20NQ18	Downy Woodpecker	Н	POSS	1	Jim A Elliott				
20	20NQ18	Hairy Woodpecker	NY	CONF	1	Jim A Elliott				
20	20NQ18	Northern Flicker	FY	CONF	1	Jim A Elliott				
20	20NQ18	Pileated Woodpecker	Т	PROB	1	Jim A Elliott				
20	20NQ18	American Kestrel	FY	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Merlin	NY	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Olive-sided Flycatcher	Т	PROB	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Eastern Wood-Pewee	S	POSS	1	Jim A Elliott				
20	20NQ18	Yellow-bellied Flycatcher	CF	CONF	1	Jim A Elliott	3	18.75	0.1875	1
20	20NQ18	Alder Flycatcher	Т	PROB	1	Jim A Elliott	5	31.25	0.3125	1
20	20NQ18	Least Flycatcher	Т	PROB	1	Jim A Elliott	2	12.5	0.125	1

20	20NQ18	Blue-headed Vireo	CF	CONF		Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Red-eyed Vireo	NY	CONF	1	Jim A Elliott	10	62.5	0.625	1
20	20NQ18	Gray Jay	FY	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Blue Jay	Н	POSS	1	Jim A Elliott				
20	20NQ18	American Crow	FY	CONF	1	Jim A Elliott	4	25.0	0.25	1
20	20NQ18	Common Raven	FY	CONF	1	Jim A Elliott				
20	20NQ18	Tree Swallow	AE	CONF	1	Jim A Elliott				
20	20NQ18	Barn Swallow	NY	CONF	1	Jim A Elliott				
20	20NQ18	Black-capped Chickadee	CF	CONF	1	Jim A Elliott	2	12.5	0.125	1
20	20NQ18	Boreal Chickadee	CF	CONF	1	Jim A Elliott				
20	20NQ18	Red-breasted Nuthatch	FY	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Winter Wren	FY	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Golden-crowned Kinglet	CF	CONF	1	Chris M Pepper				
20	20NQ18	Ruby-crowned Kinglet	CF	CONF	1	Jim A Elliott	6	37.5	0.375	1
20	20NQ18	Swainson's Thrush	FY	CONF	1	Jim A Elliott	7	43.75	0.5	1
20	20NQ18	Hermit Thrush	FY	CONF	1	Jim A Elliott	2	12.5	0.125	1
20	20NQ18	American Robin	FY	CONF	1	Jim A Elliott	3	18.75	0.1875	1
20	20NQ18	Gray Catbird	T	PROB	1	Jim A Elliott				
20	20NQ18	European Starling	FY	CONF	1	Jim A Elliott				
20	20NQ18	Cedar Waxwing	Т	PROB	1	Jim A Elliott				
20	20NQ18	Ovenbird	CF	CONF	1	Jim A Elliott	2	12.5	0.125	1
20	20NQ18	Northern Waterthrush	Т	PROB	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Black-and-white Warbler	CF	CONF	1	Jim A Elliott	2	12.5	0.125	1
20	20NQ18	Tennessee Warbler	Т	PROB	1	2 participants				
20	20NQ18	Nashville Warbler	T	PROB	1	Jim A Elliott				
20	20NQ18	Common Yellowthroat	FY	CONF	1	Jim A Elliott	6	37.5	0.4375	1
20	20NQ18	American Redstart	CF	CONF	1	Jim A Elliott	4	25.0	0.25	1
20	20NQ18	Northern Parula	FY	CONF	1	Jim A Elliott	3	18.75	0.1875	1
20	20NQ18	Magnolia Warbler	FY	CONF	1	Jim A Elliott	13	81.25	0.875	1
20	20NQ18	Bay-breasted Warbler	D	PROB	1	Chris M Pepper	1	6.25	0.0625	1
20	20NQ18	Blackburnian Warbler	T	PROB	1	Jim A Elliott				
20	20NQ18	Black-throated Blue Warbler	Т	PROB	1	Jim A Elliott	1	6.25	0.125	1
20	20NQ18	Palm Warbler	CF	CONF	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Yellow-rumped Warbler	FY	CONF	1	Jim A Elliott	5	31.25	0.375	1
20	20NQ18	Black-throated Green Warbler	CF	CONF	1	Jim A Elliott	7	43.75	0.4375	1
20	20NQ18	Song Sparrow	CF	CONF	1	Jim A Elliott				
20	20NQ18	Lincoln's Sparrow	FY	CONF	1	2 participants				
20	20NQ18	Swamp Sparrow	NY	CONF	1	Jim A Elliott				
20	20NQ18	White-throated Sparrow	FY	CONF	1	Jim A Elliott	13	81.25	0.875	1

20	20NQ18	Dark-eyed Junco	FY	CONF	1	Jim A Elliott	7	43.75	0.625	1
20	20NQ18	Red-winged Blackbird	S	POSS	1	Jim A Elliott				
20	20NQ18	Common Grackle	T	PROB	1	Jim A Elliott	1	6.25	0.0625	1
20	20NQ18	Pine Grosbeak	T	PROB	1	Jim A Elliott				
20	20NQ18	Purple Finch	P	PROB	1	Jim A Elliott				
20	20NQ18	White-winged Crossbill	FY	CONF	1	Jim A Elliott				
20	20NQ18	Pine Siskin	Н	POSS	1	Jim A Elliott				
20	20NQ18	American Goldfinch	T	PROB	1	Jim A Elliott	1	6.25	0.125	1

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Species list for square 20NQ28 (number of entries returned: 69)

				Breed	ing I	Evidence	Point Counts			
Region	Square	Species	Max BE	Categ	#Sq	Atlasser Name	#PC	%PC	Abun	#Sq
20	20NQ28	American Black Duck	FY	CONF	1	Jim A Elliott	i			
20	20NQ28	Green-winged Teal	FY	CONF	1	Jim A Elliott	i			
20	20NQ28	Ring-necked Duck	Т	PROB	1	Jim A Elliott	i			
20	20NQ28	Hooded Merganser	FY	CONF	1	Jim A Elliott	i			
20	20NQ28	Ruffed Grouse	Н	POSS	1	Jim A Elliott				
20	20NQ28	Spruce Grouse	Н	POSS	1	Jim A Elliott				
20	20NQ28	Osprey	Н	POSS	1	Jim A Elliott				
20	20NQ28	Sharp-shinned Hawk	AE	CONF	1	Fulton L. Lavender				
20	20NQ28	Northern Goshawk	Н	POSS	1	Jim A Elliott	i			
20	20NQ28	Red-tailed Hawk	Т	PROB	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Spotted Sandpiper	FY	CONF	1	Jim A Elliott	i			
20	20NQ28	Greater Yellowlegs	A	PROB	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Wilson's Snipe	D	PROB	1	Jim A Elliott	i			
20	20NQ28	American Woodcock	D	PROB	1	Jim A Elliott	i			
20	20NQ28	Great Horned Owl	Т	PROB	1	Jim A Elliott	i			
20	20NQ28	Barred Owl	S	POSS	1	2 participants	i			
20	20NQ28	Northern Saw-whet Owl	Н	POSS	1	Doug Ross Archibald				
20	20NQ28	Ruby-throated Hummingbird	Н	POSS	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Belted Kingfisher	P	PROB	1	Jim A Elliott				
20	20NQ28	Yellow-bellied Sapsucker	Н	POSS	1	Jim A Elliott				
20	20NQ28	Northern Flicker	FY	CONF	1	2 participants	1	5.88	0.0588	1
20	20NQ28	Pileated Woodpecker	S	POSS	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Merlin	FY	CONF	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Olive-sided Flycatcher	Т	PROB	1	Jim A Elliott	2	11.76	0.1176	1
20	20NQ28	Yellow-bellied Flycatcher	Т	PROB	1	Jim A Elliott	7	41.18	0.4118	1
20	20NQ28	Alder Flycatcher	S	POSS	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Least Flycatcher	Т	PROB	1	Jim A Elliott	6	35.29	0.5294	1
20	20NQ28	Blue-headed Vireo	Т	PROB	1	Jim A Elliott	2	11.76	0.1176	1
20	20NQ28	Philadelphia Vireo	Т	PROB	1	Jim A Elliott				
20	20NQ28	Red-eyed Vireo	Т	PROB	1	Jim A Elliott	4	23.53	0.2941	1
20	20NQ28	Common Raven	P	PROB	1	Jim A Elliott				
20	20NQ28	Tree Swallow	FY	CONF	1	Jim A Elliott				
20	20NQ28	Black-capped Chickadee	FY	CONF	1	Jim A Elliott	3	17.65	0.2353	1
20	20NQ28	Red-breasted Nuthatch	S	POSS	1	Jim A Elliott	1			i

20	201/020	Winter Wren	Т	PROB	1	Jim A Elliott	5	20.41	0.2941	1
<u></u>			1	LKOB	1	hiii a ciiion	<u> </u>	29.41	0.2941	1
20	20NQ28	Golden-crowned Kinglet	S	POSS	1	Jim A Elliott	1	5.88	0.0588	Ш
20		Ruby-crowned Kinglet	Т	PROB		Jim A Elliott	1		0.0588	
20	20NQ28	Swainson's Thrush	CF	CONF	1	Jim A Elliott	5		0.3529	=
20	20NQ28	Hermit Thrush	Т	PROB	1	Jim A Elliott	3	17.65	0.1765	1
20	20NQ28	American Robin	CF	CONF	1	Jim A Elliott	3	17.65	0.1765	1
20	20NQ28	Gray Catbird	S	POSS	1	Jim A Elliott				
20	20NQ28	Cedar Waxwing	Т	PROB	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Ovenbird	T	PROB	1	Jim A Elliott				
20	20NQ28	Northern Waterthrush	S	POSS	1	Jim A Elliott				
20	20NQ28	Black-and-white Warbler	Т	PROB	1	Jim A Elliott	4	23.53	0.2941	1
20	20NQ28	Tennessee Warbler	S	POSS	1	Jim A Elliott				
20	20NQ28	Mourning Warbler	S	POSS	1	Jim A Elliott				
20	20NQ28	Common Yellowthroat	FY	CONF	1	Jim A Elliott	8	47.06	0.4706	1
20	20NQ28	American Redstart	T	PROB	1	Jim A Elliott	6	35.29	0.3529	1
20	20NQ28	Cape May Warbler	S	POSS	1	Jim A Elliott				
20	20NQ28	Northern Parula	T	PROB	1	Jim A Elliott	2	11.76	0.1765	1
20	20NQ28	Magnolia Warbler	FY	CONF	1	2 participants	8	47.06	0.5882	1
20	20NQ28	Bay-breasted Warbler	T	PROB	1	Jim A Elliott	2	11.76	0.1176	1
20	20NQ28	Blackburnian Warbler	Т	PROB	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Black-throated Blue Warbler	Т	PROB	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Palm Warbler	FY	CONF	1	2 participants	2	11.76	0.1765	1
20	20NQ28	Yellow-rumped Warbler	CF	CONF	1	Jim A Elliott	3	17.65	0.2353	1
20	20NQ28	Black-throated Green Warbler	Т	PROB	1	Jim A Elliott	7	41.18	0.5294	1
20	20NQ28	Canada Warbler	S	POSS	1	Jim A Elliott	1	5.88	0.0588	1
20	20NQ28	Song Sparrow	T	PROB	1	Jim A Elliott				
20	20NQ28	Swamp Sparrow	FY	CONF	1	2 participants				
20	20NQ28	White-throated Sparrow	FY	CONF	1	Jim A Elliott	10	58.82	0.5882	1
20	20NQ28	Dark-eyed Junco	FY	CONF	1	2 participants	8	47.06	0.4706	1
20	20NQ28	Red-winged Blackbird	Н	POSS	1	Jim A Elliott				
20	20NQ28	Rusty Blackbird	FY	CONF	1	Jim A Elliott				
20	20NQ28	Common Grackle	P	PROB	1	Jim A Elliott				
20	20NQ28	Purple Finch	Н	POSS	1	Jim A Elliott				
20	20NQ28	White-winged Crossbill	FY	CONF	1	Jim A Elliott				
20	20NQ28	Pine Siskin	FY	CONF	1	Jim A Elliott				

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Species list for square 20NQ29 (number of entries returned: 77)

				Breedin	g Ev	idence		Point	Counts	
Region	Square	Species	Max BE	Categ	#Sq	Atlasser Name	#РС	%PC	Abun	#Sq
20	20NQ29	Canada Goose	FY	CONF	1	2 participants	1	5.26	0.0526	1
20	20NQ29	Wood Duck	Н	POSS	1	Ken McKenna				
20	20NQ29	American Black Duck	Н	POSS	1	2 participants				
20	20NQ29	Common Goldeneye	FY	CONF	1	Ken McKenna				
20	20NQ29	Common Merganser	Н	POSS	1	Jim A Elliott				
20	20NQ29	Ruffed Grouse	D	PROB	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Spruce Grouse	FY	CONF	1	2 participants				
20	20NQ29	Common Loon	Т	PROB	1	Ken McKenna	1	5.26	0.0526	1
20	20NQ29	Osprey	AE	CONF	1					
20	20NQ29	Northern Goshawk	Н	POSS	1	Ken McKenna				
20	20NQ29	Red-tailed Hawk	Т	PROB	1	Jim A Elliott				
20	20NQ29	Spotted Sandpiper	NE	CONF	1	Jim A Elliott				
20	20NQ29	Wilson's Snipe	D	PROB	1	Jim A Elliott				
20	20NQ29	American Woodcock	D	PROB	1	Jim A Elliott				
20	20NQ29	Great Horned Owl	Н	POSS	1	Jim A Elliott				
20	20NQ29	Common Nighthawk	D	PROB	1	Jim A Elliott				
20	20NQ29	Chimney Swift	P	PROB	1	Jim A Elliott				
20	20NQ29	Belted Kingfisher	FY	CONF	1	Jim A Elliott				
20	20NQ29	Downy Woodpecker	Н	POSS	1	Ken McKenna				
20	20NQ29	Hairy Woodpecker	FY	CONF	1	Ken McKenna	2	10.53	0.1053	1
20	20NQ29	Black-backed Woodpecker	Н	POSS	1	Ken McKenna				
20	20NQ29	Northern Flicker	FY	CONF	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Pileated Woodpecker	S	POSS	1	Jim A Elliott				
20	20NQ29	American Kestrel	FY	CONF	1	Ken McKenna				
20	20NQ29	Olive-sided Flycatcher	S	POSS	1	Jim A Elliott				
20	20NQ29	Yellow-bellied Flycatcher	Т	PROB	1	Jim A Elliott	6	31.58	0.3158	1
20	20NQ29	Alder Flycatcher	FY	CONF	1	Jim A Elliott	4	21.05	0.2632	1
20	20NQ29	Least Flycatcher	Т	PROB	1	Jim A Elliott	1	5.26	0.1053	1
20	20NQ29	Blue-headed Vireo	FY	CONF	1	Ken McKenna	4	21.05	0.2105	1
				1						$\overline{\Box}$

20	20NO29	Red-eyed Vireo	ies Breedir P	ig Bird Atia PROB		a Summaries Jim A Elliott	4	21.05	0.2632	1
20		Gray Jay	FY	CONF		Jim A Elliott				
20		Blue Jay	Н	POSS	1	Ken McKenna				
20	20NQ29	American Crow	P	PROB	1	Jim A Elliott	3	15.79	0.2105	1
20	20NQ29	Common Raven	S	POSS	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Tree Swallow	FY	CONF	1	Jim A Elliott				
20	20NQ29	Barn Swallow	Н	POSS	1	Jim A Elliott				
20	20NQ29	Black-capped Chickadee	FY	CONF	1	3 participants				
20	20NQ29	Boreal Chickadee	FY	CONF	1	Ken McKenna	1	5.26	0.0526	1
20	20NQ29	Red-breasted Nuthatch	FY	CONF	1	Ken McKenna	1	5.26	0.0526	1
20	20NQ29	Winter Wren	FY	CONF	1	Ken McKenna				
20	20NQ29	Golden-crowned Kinglet	S	POSS	1	3 participants				
20	20NQ29	Ruby-crowned Kinglet	FY	CONF	1	Ken McKenna	10	52.63	0.5789	1
20	20NQ29	Swainson's Thrush	D	PROB	1	Ken McKenna	2		0.1053	
20	20NQ29	Hermit Thrush	Т	PROB	1	Jim A Elliott	4	21.05	0.2632	1
20	20NQ29	American Robin	CF	CONF	1	Jim A Elliott	1	5.26	0.1053	1
20	20NQ29	Gray Catbird	Т	PROB	1	Jim A Elliott				
20	20NQ29	Cedar Waxwing	CF	CONF	1	Jim A Elliott				
20	20NQ29	Ovenbird	S	POSS	1	Jim A Elliott				
20	20NQ29	Northern Waterthrush	FY	CONF	1	Ken McKenna				
20	20NQ29	Black-and-white Warbler	FY	CONF	1	2 participants	2	10.53	0.1053	1
20	20NQ29	Tennessee Warbler	Н	POSS	1	Ken McKenna				
20	20NQ29	Mourning Warbler	A	PROB	1	Ken McKenna				
20	20NQ29	Common Yellowthroat	FY	CONF	1	Ken McKenna	7	36.84	0.3684	1
20	20NQ29	American Redstart	Т	PROB	1	Jim A Elliott	7	36.84	0.4211	1
20	20NQ29	Magnolia Warbler	Т	PROB	1	Jim A Elliott	8	42.11	0.5263	1
20	20NQ29	Bay-breasted Warbler	D	PROB	1	Ken McKenna	2	10.53	0.1053	1
20	20NQ29	Blackburnian Warbler	Н	POSS	1	Ken McKenna				
20	20NQ29	Yellow Warbler	Т	PROB	1	Jim A Elliott	1	5.26	0.1053	1
20	20NQ29	Blackpoll Warbler	S	POSS	1	Jim A Elliott				
20	20NQ29	Black-throated Blue Warbler	S	POSS	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Palm Warbler	CF	CONF	1	Ken McKenna	1	5.26	0.0526	1

		Warten	100 Di 00uii	ig bira / tile	10 Dat	a Summanes				
20	20NQ29	Yellow-rumped Warbler	CF	CONF	1	3 participants	1	5.26	0.0526	1
20	20NQ29	Black-throated Green Warbler	CF	CONF	1	Jim A Elliott	7	36.84	0.4211	1
20	20NQ29	Canada Warbler	CF	CONF	1	Ken McKenna				
20	20NQ29	Song Sparrow	Т	PROB	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Lincoln's Sparrow	FY	CONF	1	Ken McKenna				
20	20NQ29	Swamp Sparrow	FY	CONF	1	2 participants				
20	20NQ29	White-throated Sparrow	CF	CONF	1	Ken McKenna	11	57.89	0.7368	1
20	20NQ29	Dark-eyed Junco	CF	CONF	1	2 participants	8	42.11	0.4737	1
20	20NQ29	Red-winged Blackbird	T	PROB	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Rusty Blackbird	FY	CONF	1	Jim A Elliott				
20	20NQ29	Common Grackle	CF	CONF	1	Ken McKenna	1	5.26	0.0526	1
20	20NQ29	Purple Finch	S	POSS	1	Jim A Elliott				
20	20NQ29	White-winged Crossbill	FY	CONF	1	Jim A Elliott				
20	20NQ29	Pine Siskin	S	POSS	1	Ken McKenna				
20	20NQ29	American Goldfinch	FY	CONF	1	Jim A Elliott	1	5.26	0.0526	1
20	20NQ29	Evening Grosbeak	P	PROB	1	Jim A Elliott				

Disclaimer: Data contained in these summaries are provisional data that have not necessarily been reviewed or edited, and may be subject to significant change. These data have been released for public interest only. If you wish to use the data in a publication, research or for any purpose, or would like information concerning the accuracy and appropriate uses of these data, read the data use policy and request form, or contact the Atlas, at telephone: 1-866-528-5275, e-mail: atlasmaritimes@gmail.com. **These data are current as of 29 Nov 2016**.

Appendix M Relative Abundance of Avian Species



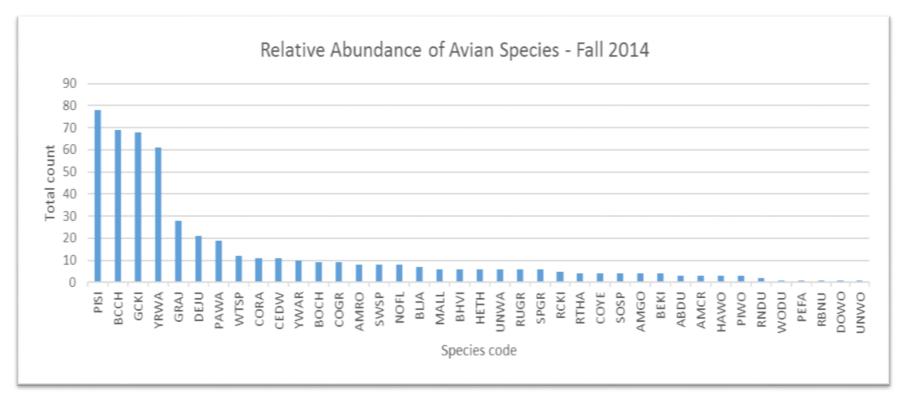


Figure 1: Relative abundance of avian species observed during dedicated fall migration surveys in 2014. This chart presents the four-letter (English Name) alpha codes in accordance with the 56th supplement to the AOU Check-list of North American Birds (Chesser et al., 2015). Unknown species codes are: UNWA (Unknown Warbler) and UNWO (Unknown Woodpecker).



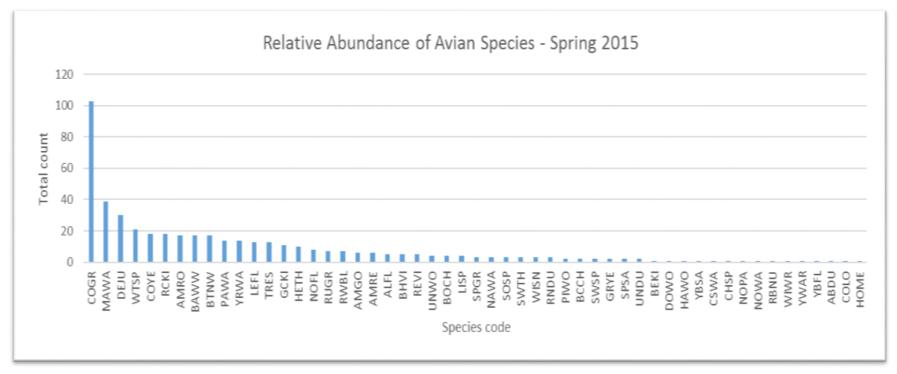


Figure 2: Relative abundance of avian species observed during spring migration surveys in 2015 within the mine footprint PA. This chart presents the four-letter (English Name) alpha codes in accordance with the 56th supplement to the AOU Check-list of North American Birds (Chesser et al., 2015). Unknown species code is: UNWO (Unknown Woodpecker).



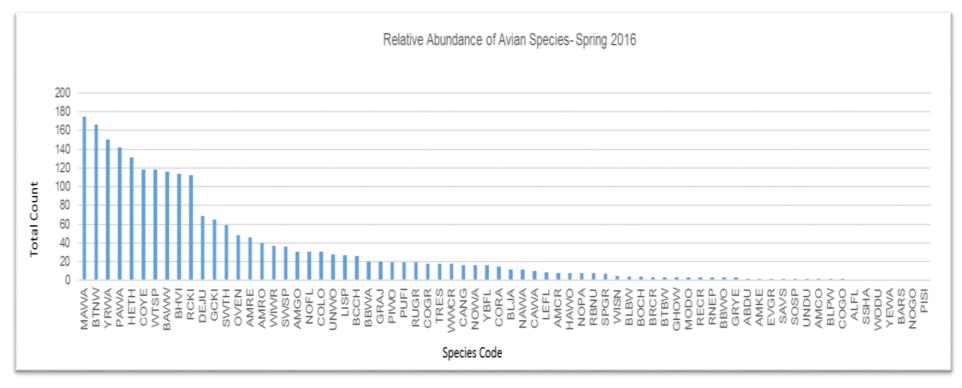


Figure 3: Relative abundance of avian species observed during spring migration surveys in 2016 within the haul road PA. This chart presents the four-letter (English Name) alpha codes in accordance with the 56th supplement to the AOU *Check-list of North American Birds* (Chesser et al., 2015). Unknown species codes are: UNDU (Unknown Duck) and UNWO (Unknown Woodpecker).



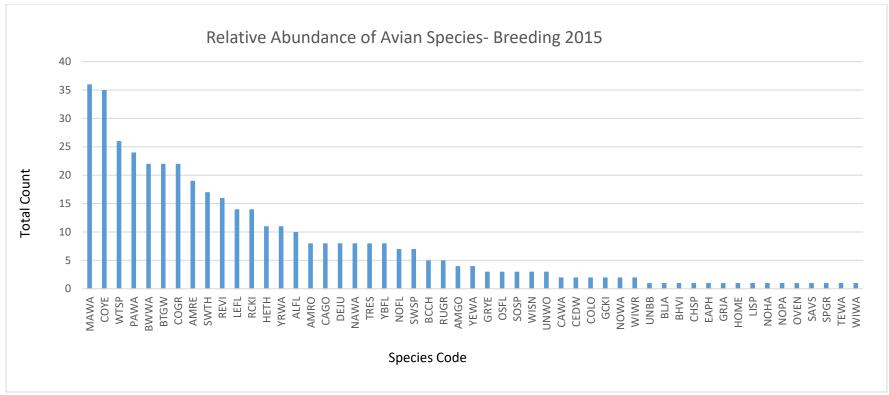


Figure 4: Relative abundance of avian species observed during breeding bird point count surveys in 2015. This chart presents the four-letter (English Name) alpha codes in accordance with the 56th supplement to the AOU *Check-list of North American Birds* (Chesser et al., 2015).



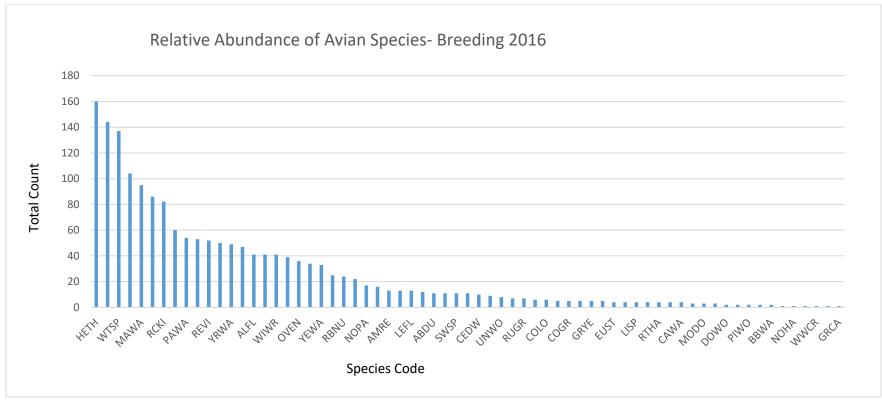


Figure 5: Relative abundance of avian species observed during breeding bird point count surveys in 2016. This chart presents the four-letter (English Name) alpha codes in accordance with the 56th supplement to the AOU Check-list of North American Birds (Chesser et al., 2015).

Appendix N Mi'kmaq Ecological Knowledge Study

Mi'kmaq Ecological **Knowledge Study**

Beaver Dam Gold Mine Expansion Project -Beaver Dam Mines Road Marinette, NS

Prepared for Atlantic Gold Corporation 6479 Moose River Road, RR2 Middle Musquodoboit, NS, B0N 1X0

Prepared by Mainland Mi'kmaq Development Inc.

P.O. Box 1590 57 Martin Crescent, Truro, Nova Scotia, B2N 5V3 Tel: (902) 895-6385

Fax: (902) 893-1520



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1.0 INTRODUCTION

1.1 Mainland Mi'kmaq Development Inc.

The Confederacy of Mainland Mi'kmaq (CMM) Environmental Services is a program operated by the Lands, Environment, and Natural Resources, that provides fee for service in environmental consulting; this division is currently known as Mainland Mi'kmaq Developments Incorporated (MMDI). The CMM provides advisory services to seven Mi'kmaq communities in the province of Nova Scotia: Paqtnkek Mi'kmaw Nation, Annapolis Valley First Nation, Bear River First Nation, Glooscap First Nation, Millbrook First Nation, Pictou Landing and Sipekne'katik First Nation.

The MMDI had been successful in the contract to complete a second Mi'kmaq Ecological Knowledge Study (MEKS) for the Beaver Dam Gold Mine Expansion Project, for The Atlantic Gold Corporation.

The CMM Lands, Environment & Natural Resources, MMDI contact information:

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1.2 Project Description

The Mainland Mi'kmaq Development Inc. has been selected to complete a second MEKS for the Beaver Dam Gold Mine Project Study of 2009. The project site is located in Halifax County, between Sheet Harbour and Upper Musquodoboit, off of Highway 224 near Cameron Flowage, near Beaver Lake IR #17.

The New Proponent, Atlantic Gold Corporation, has since replaced the Acadian Mining Corporation is the current proponent and an updated MEKS for 2016, includes the same study area as the original project area for the Expansion Project, with two additional road expansions near Beaver Lake (IR #17).

2.0 DEFINITION OF TERMS

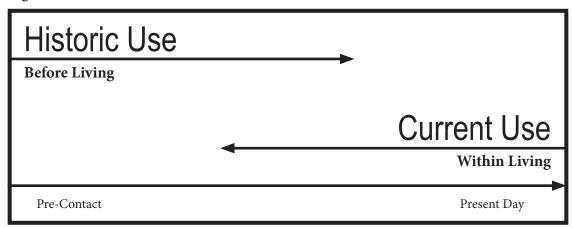
Living Memory is the memory of living Mi'kmaw. The period of time included in living memory varies from knowledge holder to knowledge holder. Living memory often extends to the parent and grandparent of the

knowledge holder and can be estimated at three to four generations.

Current Mi'kmaq Land and Resource Use occurred within living memory or is occurring at the present day (Figure 1)

Historic Mi'kmaq Land and Resource Use occurred before living memory (Figure 1)

Figure 1: Historic and Current Use Timeline



Mi'kmaw Ecological Knowledge (MEKS) is the collective body of knowledge which Mi'kmaq possess based on their intimate relationship with their natural surroundings, which involves exploitation, conservation and spiritual ideologies, and has been passed on from generation to generation, "kisaku kinutemuatel mijuijij", elder to child.

Mi'kmaq Land and Resource Use Sites are locations where Mi'kmaq land and resource use activities have taken place or are taking place at present day. These sites may or may not display physical evidence of Mi'kmaq use.

Mi'kmaq/Mi'kmaw: *Mi'kmaq* means the Family and is an undeclined form. The variant form, *Mi'kmaw*, plays two grammatical roles: 1) it is the singular of Mi'kmaq and 2) it is an adjective in circumstances where it precedes a noun.

Mi'kma'ki is the Mi'kmaw homeland (Atlantic Provinces and Gaspé Peninsula)

Specific Land Claim arises when a First Nation alleges that the federal government has not honoured its treaties, agreements or legal responsibilities. According to federal policy, a valid specific claim exists when a First Nation can prove the government has an "outstanding lawful obligation". The Mi'kmaq are currently pursuing several specific land claims in Nova Scotia.

Comprehensive Claim is based on underlying Aboriginal Title to traditional territory that has not been dealt with by treaty or other means. Aboriginal Title to lands exists as a legal right derived from First Nations

historical occupation and possession of their tribal lands. The process of negotiating the settlement of comprehensive claims, which is known as modern-day treaty making, clarifies access and ownership to land and resources. Currently, the Mi'kmaq has a comprehensive claim to all lands within the province of Nova Scotia including all inland and adjacent waters.

3.0 PURPOSE AND SCOPE OF THE MI'KMAQ ECOLOGICAL KNOWLEDGE STUDY

3.1 Purpose of the Mi'kmaq Ecological Knowledge Study

The purpose of the Mi'kmaq Ecological Knowledge Study is to support the integration of Mi'kmaq knowledge of use and occupation of Mi'kma'ki into development decisions via the environmental assessment process.

3.2 Scope of the Mi'kmaq Ecological Knowledge Study

The MEKS includes:

- 1) a study of historic and current Mi'kmaq land and resource use;
- 2) an evaluation of the potential impacts of the Project on Mi'kmaq use and occupation and constitutionally based rights;
- 3) an evaluation of the significance of the potential impacts of the Project on Mi'kmaq use and occupation; and
- 4) Recommendations to proponents and regulators that may include recommendations for mitigation measures, further study, or consultation with Mi'kmaq.

3.3 Not included in the scope of the Mi'kmaq Ecological Knowledge Study

3.3.1 Section 35 Consultation

This study is not consultation for justification of the infringement of constitutionally protected aboriginal and treaty rights. If the project involves possible infringements of Mi'kmaq constitutional rights, the MEKS recommends further action.

3.3.2 Archaeological Screening and Resource Impact Assessment

The study is not an Archaeological Screening or Archaeological Resource Impact Assessment. Results presented in the study can inform and be informed by archaeological screenings and assessments.

3.3.3 Notification of Mi'kmaw individuals or communities of the Project

The study is not intended to inform or notify Mi'kmaw individuals or communities of the Project, solicit the opinions or concerns of Mi'kmaw individuals or communities on the Project, or promote the Project to Mi'kmaw individuals or communities.

4.0 METHODOLOGY

4.1 Historic Mi'kmaq Land and Resource Use

Historic Mi'kmaq land and resource use occurred before living memory. The study of historic land and resource use paints a broad portrait of Mi'kmaq use and occupation of Mi'kma'ki in centuries past.

4.1.1 Study Area

This study encompasses the area surrounding Cameron Flowage located in Beaver Dam, Halifax County, Nova Scotia. The study area is adjacent to Beaver Lake I.R. #17 and is located about 30 kms north of Sheet Harbour I.R. #36, which are part of the Millbrook First Nation. A broader scope of research has been included to show Mi'kmaq use and occupation within Halifax County. Included within the study area, are the lands adjacent to the road expansion projects, Moose River Cross road and the Beaver Dam Mine road.

4.1.2 Methods

Research was completed from within The Confederacy of Mainland Mi'kmaq research department library as well as external sources from the Nova Scotia Public Archives, Nova Scotia Museum, Cape Breton University's Mi'kmaq Resource Centre and the Colchester library. Secondary sources include Crown Land index sheets, church records, cemetery record, maps and published papers and books on Nova Scotia History.

4.1.3 Limitations

Recorded documents are the primary source of information for the study of historic Mi'kmaq land and resource use. There are no recorded documents in the pre-contact period and recorded documents in the post-contact period are not comprehensive. Furthermore, existing documentation has largely been written by people of a different culture. This means that information may either not be completely accurate or may be incomplete.

4.2 Current Mi'kmaq Land and Resource Use

Current Mi'kmaq land and resource use occurred within living memory or is presently occurring. The MEKS includes a study of:

- 1) Current Mi'kmaq land and resource use sites
- 2) Species of Significance to Mi'kmaq
- 3) Mi'kmaw Communities

4.2.1 Study Areas

The study areas are described in Figure 2.

4.2.1.1 Current Mi'kmaq Land and Resource Use Sites

The study area for current Mi'kmaq land and resource use sites is the proposed area of development – five-kilometer radius surrounding proposed project site.

4.2.1.2 Species of Significance to Mi'kmaq

Study areas are marked on Figure 2.

4.2.1.3 Mi'kmaw Communities

The study area for Mi'kmaw communities is a 5 km radius surrounding the proposed development area.

4.2.2 Methods

4.2.2.1 Current Mi'kmaq Land and Resource Use Sites

Mi'kmaq knowledge on current land and resource sites will be gathered through a review of information collected through oral interviews with Mi'kmaw knowledge holders.

All individuals, whom will be interviewed, will sign consent forms. Knowledge will be gathered in accordance within the spirit of the *Mi'kmaq Ecological Knowledge Protocol*.

Knowledge collected is reported in a general format only. No names or specific locations are published. Collected knowledge will be digitized and compiled to allow for an analysis of potential impacts of the project on current Mi'kmaq land and resource use.

4.2.2.2 Species of Significance to Mi'kmaq

A system of stratified random sampling was employed to identify flora species present in the study areas of significance to Mi'kmaq. Plants were surveyed in the summer of 2016. Information collected is reported in a general format only. The names of the species are not recorded.

4.2.2.3 Mi'kmaw Communities

A review of outstanding specific land claims within the study area was undertaken by CMM. There are three specific land claims identified within the project area, however, the records of outstanding specific land claims are not currently fully researched.

4.2.3 Limitations

While every attempt was made to document all available Mi'kmaw knowledge, the knowledge gathering process may not have captured some available Mi'kmaw knowledge. It is also recognized that over generations of cultural and political suppression, much Mi'kmaq knowledge has been irretrievably lost.

5.0 RESULTS

Results of the study are divided into two categories:

- 1) Historic land and resource use, that is, use that occurred before living memory, and
- 2) Current land and resource use, or use that occurred within living memory or is occurring at the present day.

Land and resource use may be for hunting, burial/birth, ceremonial, gathering, or habitation purposes.

5.1 Historic Mi'kmaq Land and Resource Use

5.1.1 Pre-Contact Introduction

Mi'kmaq traditional use of the land in Nova Scotia involved semi-permanent and permanent settlements. Summer villages of the Mi'kmaq were usually located on the banks of streams or rivers. The most important factor in the choice of a site was the proximity of the site to a navigable body of water. Sites around the mouths of rivers with heavy spawning runs were highly favourable for use, as well as smaller rivers running back into a system of lakes. ¹ It is therefore likely that the Mi'kmaq settled in the study area, which exhibits these types of natural features.

Beaver Dam lies within *Eskikewa'kik* or the "skin dressing territory". This particular district spans from Halifax County across to Guysborough County. Various authors and historians have differed in their description of how far this territory expands, but all have agreed that Beaver Dam lies within this district.

Eskikewa'kik lies within the Meguma Terrane in the Atlantic Uplands of Nova Scotia. The Meguma Zone occupies the southern mainland of Nova Scotia and extends seaward beneath younger sedimentary rocks. ² It is a mix of fine sandstone, shale, quartz rich sand and mud. "The Mi'kmaq and their ancestors acquired an impressive knowledge of the geology of their land by using rocks and minerals to develop one of the first technologies – the working of stone." Certain stones would have been used as grinding tools on other types of stone, bone, antlers and wood. Other hard stones such as quartz would have been used as hammers, choppers, knives and arrowheads. (Natalie Stoddard; pg. 2)

The area contains a variety of spruce, fir, birch, ash, maple pine and shrubs inland, which would have been used in making baskets and building shelter. "Small mammal diversity is moderately high in well drained mixed and hardwood forest habitats, especially along rivers and streams",⁴ drawing lynx, moose, beaver, deer, marten and hare to the area, all harvested food by the Mi'kmaq.

There is no recorded archaeological activity recorded within the study area. A further investigation into areas that border Fifteen Mile Stream has been included later on in this report. Stephen Davis has commented on the lack of archaeological evidence with Maritime Coastal areas. "Unfortunately for the archaeologists, the shorelines of 10,000 to 5,000 years ago no longer exist. The demise was related to ongoing geological events." The harsh winters, strong winds, and erosion have left little evidence of early use and occupation.

Although little historical information has been written about Mi'kmaq inhabiting these areas in large numbers, there is some documentation that suggests that they mainly inhabited Halifax and Port Mulgrave. Bernard Hoffman has noted that there were seven main sites within Eskikewa'kik; including sites at Ship Harbour, Spry Bay Harbour and Liscomb Harbour near the study area.

Mi'kmaq cultures hunted land and marine mammals and fish for sustenance and some trading until the late sixteenth century, when traditional activities began to change in

- Donald M. Julien, Historical Perspective of Micmac Indians Pre & Post Contact Period, p. 3.
- ² Davis, Derek S and Sue Browne. Natural History of Nova Scotia, Volume 1: Topics, page 20
- ³ Davis, Derek S and Sue Browne. Natural History of Nova Scotia, Volume 1: Topics, page 322
- ⁴ Davis, Derek S and Sue Browne. Natural History of Nova Scotia, Volume 1: Topics, page 57
- ⁵ Davis, Stephen. The Micmac, page 12.
- ⁶ Davis, Derek S and Sue Browne. Natural History of Nova Scotia, Volume 1: Topics, page 368

response to contact with the Europeans. ⁶ Settlements, although not permanent, were located near major waterways and harbours, providing accessibility to trade with the Europeans. The Mi'kmaq traveled inland through minor streams and rivers, either by canoe or on foot.

5.1.2 Post Contact

Nicholas Denys gives a brief description of the area "Bay de Toutes Isles" which would cover the area along the Eastern Shore know as the Bay of Islands running from Ship Harbour along the coast to Liscomb Harbour. "This bay has nearly four leagues of depth, and there are several rivers which discharge into it. These are small and are only, as it were, large brooks, [though] by them the Indians come and go." He stated that there seems to be a large number of Indians living in that area in order to hunt the moose.

Mi'kmaq at Beaver Dam

The Mi'kmaq referred to this area as *Kopitewey Kwimuti*⁸ literally meaning Beaver Harbour. In 1852, 100 acres had been set-aside for Simon Francis on the Sheet Harbour Road at the head of Beaver Lake. There is little written prior to the setting aside of this reserve under Samuel Fairbanks' Return of Land report in 1866.

The reference plan from Natural Resources Canada shows a parcel of ten acres adjacent to the Beaver Dam reserve as being allotted to Peter Paul in 1930. The original letters patent and grant was not located, but Peter Paul's name again comes up in lands held by himself and his brother adjacent to the Sheet Harbour Reserve.

In the *Old Man Told Us* by Ruth Holmes Whitehead, reference is made to John Cope killing 18 moose at Beaver Dam and selling them to the men at Fifteen Mile Stream Goldmine in 1918.

In 1973, John Covert conducted another survey at Beaver Lake and found that the reserve contained 122 acres instead of the initial one hundred acres granted to Simon. The reserve was formally set-aside to Millbrook Band in 1960.

<u>Mi'kmaq at Sheet Harbour</u>

Around the seventeen hundreds, the Mi'kmaq lived along the eastern coast, at Spry Bay Harbour, Ship Harbour and Sheet Harbour. In 1762, Jonathan Belcher issued a proclamation protecting the traditional hunting and fishing territories of the Indians. This area included all that portion of Canso and running westerly as far as Musquodoboit.

Following the American Revolution in 1776, an influx of loyalists induced on settling in Nova Scotia, were given gratuitous land grants and most of the land laid out for the Indians was encroached upon. In 1783 a license of occupation was issued to the Indians for 11,520 acres in order to protect their fishing and hunting rights. James E. Rutledge

- ⁷ Ganong, William F. The Description and Natural History of Coasts of North America (Acadia) by Nicholas Denys p. 157
- Stevens, Arlene. Mi'kmaq Place Names,
- pg.
 Rutledge, James E. A
 History of Sheet Harbour, pg. 13

mentioned in his book *History of Sheet Harbour* that when a number of soldiers had moved to the area in 1784, "there was an encampment of Indians in the maple grove now the property of the heirs of Robert Rutledge at Watt Section" This in all likelihood was the section of land included within the license of occupation.

A large portion of the areas given under these licenses, were encroached upon by European settlers but Mi'kmaq occupation continued at Sheet Harbour prior to the establishment of the formal reserve in 1915. The white settlers, angered by Belcher's proclamation for protecting Mi'kmaq hunting territories, ignored his rule, and continued to settler there. The lands set aside for the Indians were eventually abandoned, but some continued to return there to hunt and fish.

In Frank Speck's work, *Beothuk and Micmacs*, he describes the hunting territories. "The Micmac, like the rest of the northern and eastern Algonkian, whose subsistence was gained by hunting and fishing, had their country subdivided into more or less well recognized districts in which certain individual proprietors or families enjoyed the inherited privileges of hunting. ¹⁰

Contained within Speck's list of territories, predominantly Cope surnames continued to hunt and fish at Ship Harbour, Jeddore, Ten and Fifteen Mile Lake, Sheet Harbour and Liscomb. See part of Speck's list below. ¹¹

	Shubenacadie and Sheet Harbour Bands				
27	Frank Paul	Stewiacke river valley			
28	John Newell Cope	Musquodoboit river between Middle Musquodoboit and Musquodoboit.			
29	Andrew Francis	North of Ship Harbour lake, Gould Lake			
30	Joe Cope	North of Jeddore			
31	Young Joe Cope (Son of No. 30)	Northeast of Jeddore			
32	Andrew Paul	Grassy lake north of Killag river			
33	(Territory supposed to have belonged to Pauls).				
34	Sandy Cope	Tangier lake and Scraggy lakes			
35	Frank Cope	Hunting lake, Governor's lake, and Ten Mile lake			
36	Peter Joe Cope	Fifteen Mile lake, Rocky lake			
37	Michael Tom (Toney)	Moser River			
38	Young Peter Joe Cope	Large district north of Sheet Harbour			
39	Mathew Salome	Big Liscomb lake			
40	Jim Paul	Hunting lake and Liscomb river			
41	Abram Paul (son of No. 32)	Lake Mooin, back of Liscomb			
46	Abram Gould	Neighbourhood of Sheet harbour, (He came originally from Cape Breton Island, where his family had territory and received a tract from the Cope family in Nova Scotia			

¹⁰ Speck, Frank G. Beothuks and Micmac, pg 86.

¹¹ Speck, Frank G. Beothuks and Micmac, pg. 103-105

Mi'kmaq at Ship Harbour

The Mi'kmaq referred to the area at Ship Harbour as *Tetmnipukwek* ¹² meaning blunt harbour. In 1813, a petition came from Francis Coop for land at Ship Harbour for himself, his wife and seven children as outlined in document RG 20 A – Coop Francis. The petition stated that 200 acres of land be laid out for him, as he was sober and industrious, on the proviso that it could only be passed on to his children at the head of the Ship Harbour River.

In 1848, John Spry Morris laid out 500 acres of land in 100-acre lots, with a small lot measuring 47 acres being reserved for fishing. The five lots were laid off to Francis Paul, Joseph Paul, Lewis Paul, Lewis Newal and Lewis Brooks. Two additional lots were allotted to Francis Paul's sons, James Paul and Joseph Paul. A survey of the area in 1853 had referred to 700 acres of land but did not mention the 47 acres reserved for fishing.

After 1855 little correspondence is written about the Mi'kmaq living at Ship Harbour. There are a few bills for provisions and aid given to them in 1856 (MG 15 Volume 6 no. 14). Various requests for blankets had dropped from 1861 onward, as they believed that an outbreak of smallpox had serious effect on the numbers living at Musquodoboit, Sheet Harbour and Ship Harbour. Joseph Browner had requested that four dollars worth of blankets be sent to him for Indians living at Tangier, but no mention of Ship Harbour. (Journal of Assembly: 1863, No. 16, p.5.)

In 1893, J. Lewis & Sons inquired into the possibility of purchasing land at Ship Harbour Reserve in order to locate a factory and use the timber on the land. The Superintendent General then wrote to the Indian agent to inquire any Indians lived there, and would be willing to surrender the reserve. Joseph Cope's letter to the Superintendent General stated: "the said or supposed Reserve has been abandoned by the Indians thirty or forty years ago. Although a good number of us are there every summer for the [?] work purposes..."13.

In 1919, the government wanted to centralize the Mi'kmaq on two main reserves at Shubenacadie and Indian Brook. They had made several attempts with the Halifax County Indians to either settle permanently on Ship Harbour, or to dispose of the land. The property was eventually surrendered along with Sambro and Ingram River, but the Mi'kmaq continued to use that area as shown in Frank Speck's *Beothuks and Micmac*. He pointed out that Andrew Francis was allotted hunting territory #29 in 1922, which covered land at the Great Ship Harbour: whether or not that fell into the lands originally set aside as an Indian Reserve is unknown.

5.1.3 Archaeology

Nova Scotia Museum records did not contain any archaeological sites within the study area. The adjoining areas have had some activity recorded in the Maritime Archaeological Resource Inventory. The information collected from that research has shown that Mi'kmaq presence occurred all around the study area.

Stevens, Arlene.
 Mi'kmaq Place Names,
 pg. 35
 DIAND file 274/30-1,

¹³ DIAND file 274/30-1 Volume 1.

5.2 Current Mi'kmaq Land and Resource Use

The study of current Mi'kmaq land and resource use is comprised of a study of current Mi'kmaq land and resource use sites, species of significance to Mi'kmaq, and Mi'kmaw communities.

5.2.1 Current Mi'kmag Land and Resource Use Sites

Current Mi'kmaq land and resource use activities are divided into five categories:

- 1) Kill/hunting
- 2) Burial/birth
- 3) Ceremonial
- 4) Gathering food/ medicinal
- 5) Occupation/habitation

Table 1 provides a description of activities undertaken at the sites.

Table 1: Description of Activities Undertaken in Current Mi'kmaq Land and Resource Use Site

TYPE OF SITE	DESCRIPTION OF ACTIVITIES IN STUDY AREA				
HUNTING/KILL	Trout, Eel, Bear, Rabbit, Deer, Porcupine, Partridge, Coyote, Mink, Muskrat, Weasels, Racoon, Fox, Otter, Beaver				
BURIAL/BIRTH	Potential Burial sites				
CEREMONIAL					
GATHERING	Wild Fruit, Berries, H2O, Food Plant, Specialty wood, logs, feathers, quills				
HABITATION	Anchored boat, Travel route, Overnight Site				

Potential Burial Sites were recorded within the study area on the Western side of the Beaver Dam Mine road, but not within the project area.

5.2.2 Species of Significance to Mi'kmaq present in study area

Species of significance to Mi'kmaq in the study area are divided into three categories:

- 1) Medicinal
- 2) Food/Beverage
- 3) Craft/Art

The following table describes the number of plants of significance present in the study areas during the summer survey of 2016.

Table 2: Number of Species of Significance to Mi'kmaq Present in the Study Areas Summer 2016

TYPE OF USE	NUMBER OF SPECIES PRESENT SUMMER 2016		
MEDICINAL	49		
FOOD/BEVERAGE	27		
CRAFT/ART	11		

5.2.3 Mi'kmaw Communities

There are two Indian Reserves located near the study area: these reserves were set aside under the Indian Act for the use and benefit of the Indians under federal legislation.

Beaver Lake is located in Halifax County along Highway 224 and is a satellite community belonging to Millbrook First Nation. The reserve was established on March 2, 1867, is approximately 49.4 hectares in size. There are a small number of homes and hunting camps located on the property. The estimated population on reserve is 22, with a total of five homes and 4 small cottages/camps.

Sheet Harbour is located along Highway #7, approximately 112 kms from Halifax, and is comprised of 2 lots amounting to 32.7 hectares. The land was purchased from William Tupper in 1915, for the purpose of creating an Indian Reserve. The reserve was set aside under the administration of Millbrook First Nation in 1960. There are approximately 75 members living on reserve with nine homes, and two trailers, as well as a community hall and a convenience/gas bar.

The following is a list of Mi'kmaq place names:

Nukumkiaq – Moser River (Gravelly Stream)

Ktuaqati – Quoddy Head (Place of War Whoop)

Nutaqati – New Quoddy (Place of Seal Hunting)

Kopitewey kwimuti – Beaver Harbour (literal translation)

Nikanaputik – Beaver Point (Foresight)

Waijuik – Sheet Harbour River (Deceitfully flowing)

Kiso'quetek – Sheet Harbour Road (Going up in the Country)

Kuimutijk – Spry Bay Harbour

Amaqopskikek - Tangier River (Tumbling over rocks)

Kisna Kopilk - Moose River

Tetmnipukwek – Ship Harbour

Eski'kewa'kik – Skin Dressers Territory

Sikna'qiknek – Taylor's Head (A spread sail)

6.0 POTENTIAL PROJECT IMPACTS ON MI'KMAQ LAND AND RESOURCE USE

The following table presents potential project impacts on historic and current Mi'kmaq land and resource use.

Table 3: Potential Project Impacts on Mi'kmaq Land and Resource Use

	POTENTIAL IMPACTS ON MI'KMAQ LAND AND RESOURCE USE	
6.01	The historic review of Mi'kmaq use and occupation documents historic Mi'kmaq use and occupation in the study area, and potentially the project area. A potential impact of the project is the disturbance of archaeological resources and Burial sites.	
6.02	Several species of significance to Mi'kmaq have been identified in the study area. Permanent loss of some species is an impact of the project.	
6.03	6.03 Current Hunting, Gathering and Trapping activities have been identified in the study area. Permanent loss of habitat is a potential impact.	

7.0 SIGNIFICANCE OF POTENTIAL PROJECT IMPACTS ON MI'KMAQ LAND AND RESOURCE USE

The concept of significance in the Mi'kmaq Ecological Knowledge Study is distinct from the concept of significance under the *Canadian Environmental Assessment Act* or the *Nova Scotia Environmental Assessment Regulations*. Significance to Mi'kmaq is evaluated only in accordance with the criteria listed below. The MEKS evaluation of the significance of the potential project impacts on Mi'kmaq should be used by regulators to inform their determination of the significance of the environmental effects of the Project.

7.1 Significance Criteria

The following criteria are used to analyze the significance of the potential project impacts on Mi'kmaq use:

- 1) Uniqueness of land or resource
- 2) Culture or spiritual meaning of land or resource
- 3) Nature of Mi'kmaq use of land or resource
- 4) Mi'kmaq constitutionally protected rights in relation to land or resource.

7.2 Evaluation of Significance

Table 4: Significance of Potential Project Impacts on Mi'kmaq Land and Resource Use

POTENTIAL IMPACT		EVALUATION OF SIGNIFICANCE	
6.01	The historic review of Mi'kmaq use and occupation documents Mi'kmaq use and occupation in the study area, and potentially the project area. A potential impact of the project is the disturbance of archaeological resources and burial site.	7.2.01	Mi'kmaq archaeological resources are extremely important to Mi'kmaq as a method of determining Mi'kmaq use and occupation of Mi'kma'ki and as an enduring record of the Mi'kmaq nation and culture across the centuries. Archaeological resources are irreplaceable. Any disturbance of Mi'kmaq archaeological resources is significant. The potential Burial sites are not located within the proposed project site, therefore, impact of the project is not likely significant.
6.02	Several species of significance to Mi'kmaq have been identified in the study areas. Permanent loss of some specimens is an impact of the Project.	7.2.02	The plant species of significance to Mi'kmaq identified within the study area exists within the surrounding area. The destruction of some specimens within the study areas does not pose a threat to Mi'kmaq use of the species. The impact of the permanent loss of some specimens of plant species of significance to Mi'kmaq is evaluated as not likely significant.
6.03	Hunting, gathering and trapping activities have been identified in the study area. Permanent loss of habitat is an impact of the project.	7.2.03	The potential habitat loss located in and around the wetlands and lakes of the projects can be evaluated as significant.

8.0 CONCLUSIONS AND RECOMMENDATIONS

- 8.01 In the event that Mi'kmaw archaeological deposits are encountered during construction or operation of the Project, all work should be halted and immediate contact should be made Laura Bennett, Special Places Coordinator, at the Nova Scotia Museum, Kwilmu'kw Maw-klusagn Negotiation Office (KM-KNO) and the Sipekne'katik and Millbrook Community.
- 8.02 There are three identified potential claims within the project site according to The Confederacy of Mainland Mi'kmaq research department. The potential claims include loss of reserve lands, a department of highway road allowance, and a Nova Scotia Power easement. Locations of these potential claims are adjacent to the Beaver Lake IR #17 foot print. More research is needed on these potential claims.
- 8.03 The project includes two road expansion along the Beaver Dam Mine Road and the Moose River Cross road, which is located adjacent to Beaver Lake IR #17. Concerns of increased traffic, loss of wetland

habitat and the potential loss of areas with the study area including Tent lake and Cope Pond, Rocky, Otter, Como, Grassy and Beaver lakes, Killag River and the West River and the West River Sheet Harbour, where the majority of hunting, gather and trapping activity has and continues to take place. Any rights-based issues relating to loss of access to traditional use would have to involve the Kwilmu'ku Maw-klusuaqn Negotiations Office, Sipekne'katik and Millbrook Communities.

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Figure 2: Map of Current Mi'kmaq Land and Resource Use Study Area

