



APPENDIX A

ACCDC Report No. 8690

Data Report 8690: HRM, NS

Prepared 28 April 2025
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Analyst

CONTENTS OF REPORT

1.0 Preface

1.1 Data List

1.2 Restrictions

1.3 Additional Information

Map 1: Buffered Study Area

2.0 Rare and Endangered Species

2.1 Flora

2.2 Fauna

Map 2: Flora and Fauna

3.0 Special Areas

3.1 Managed Areas

3.2 Significant Areas

Map 3: Special Areas

4.0 Rare Species Lists

4.1 Fauna

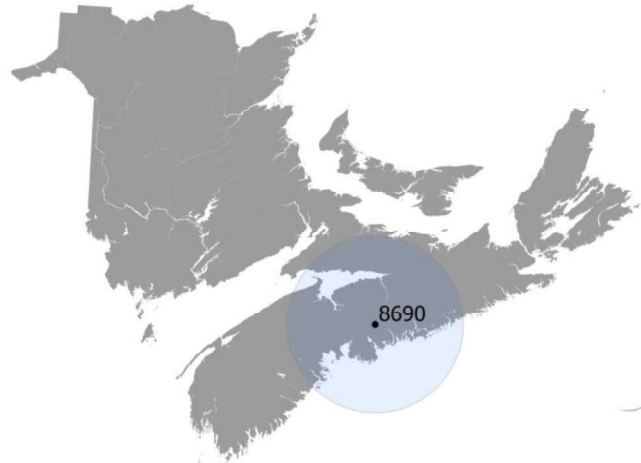
4.2 Flora

4.3 Location Sensitive Species

4.4 Source Bibliography

5.0 Rare Species within 100 km

5.1 Source Bibliography



Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) 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 AC CDC 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 AC CDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees.

Upon request and for a fee, the AC CDC 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 AC CDC 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

HrmNS_8690ob.xls

HrmNS_8690ob100km.xls

HrmNS_8690msa.xls

Contents

Rare or legally-protected Flora and Fauna in your study area

A list of Rare and legally protected Flora and Fauna within 100 km of your study area

Managed and Biologically Significant Areas in your study area

1.2 RESTRICTIONS

The AC CDC 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 AC CDC 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 AC CDC 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) AC CDC 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) AC CDC 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 AC CDC data response.

1.3 ADDITIONAL INFORMATION

The accompanying Data Dictionary provides metadata for the data provided.

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

Plants, Lichens, Ranking Methods, All other Inquiries

Sean Blaney
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Questions on the biology of Federal Species at Risk can be directed to AC CDC: (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 Hubert Askanas, Energy and Resource Development: (506) 453-5873.

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 Donna Hurlburt, NS DLF: (902) 679-6886. To determine if location-sensitive species (section 4.3) occur near your study site please contact a NS DLF Regional Biologist:

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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

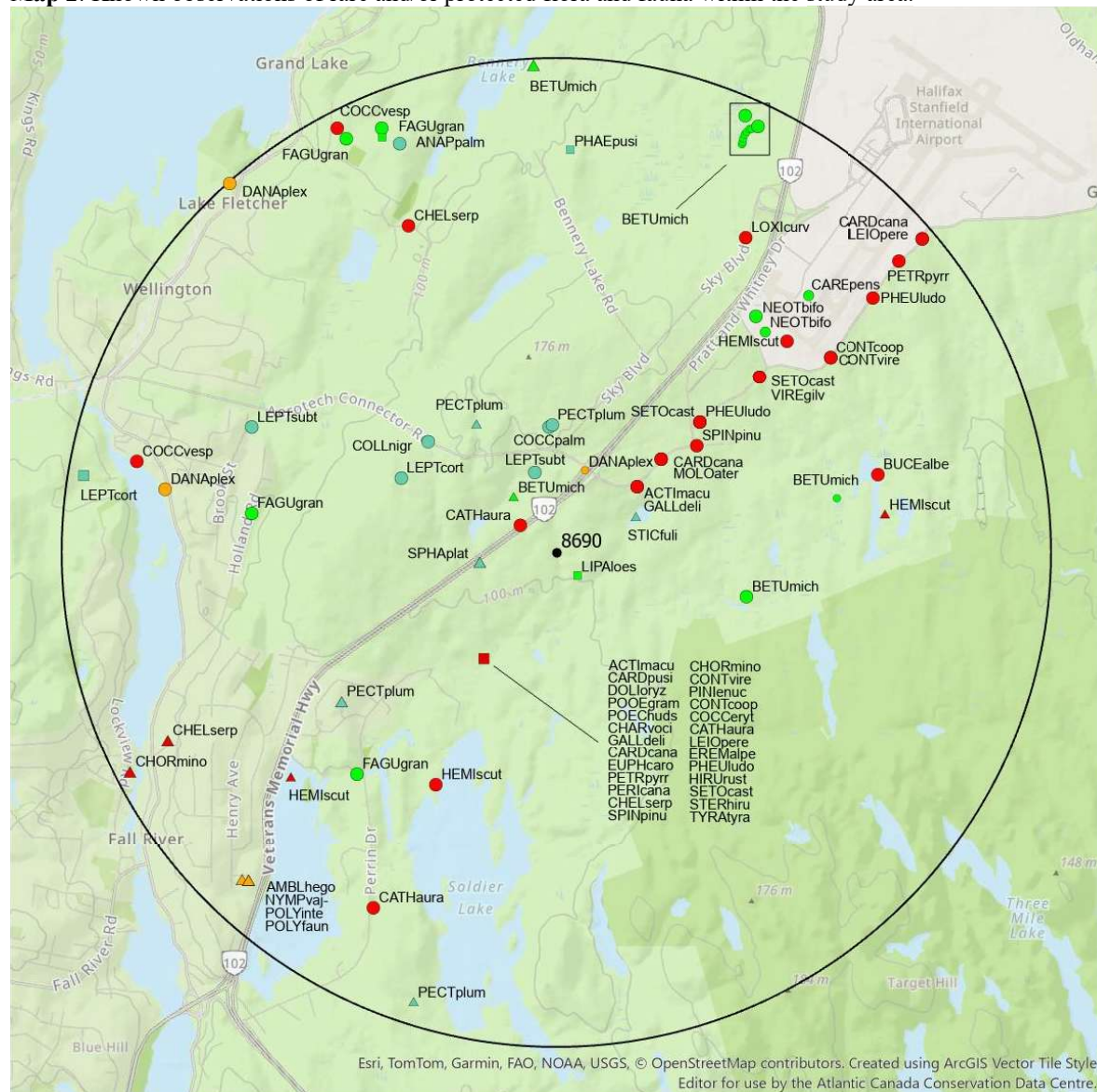
2.1 FLORA

The study area contains 24 records of 5 vascular and 15 records of 9 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 82 records of 32 vertebrate and 9 records of 5 invertebrate fauna (Map 2 and attached data files - see 1.1 Data List), excluding 'location-sensitive' species'. 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 the study area.



Resolution

- 1.0 = Within 10s of metres
- 1.7 = Within 50s of metres
- 2.0 = Within 100s of metres
- △ 2.7 = Within 500s of metres
- △ 3.0 = Within kilometres
- 3.7 = Within 5s of kilometres
- 4.0 = Within 10s of kilometres
- 4.7 = Within 50s of kilometres

Higher taxon

- Vertebrate fauna
- Invertebrate fauna
- Vascular flora
- Nonvascular flora

3.0 SPECIAL AREAS

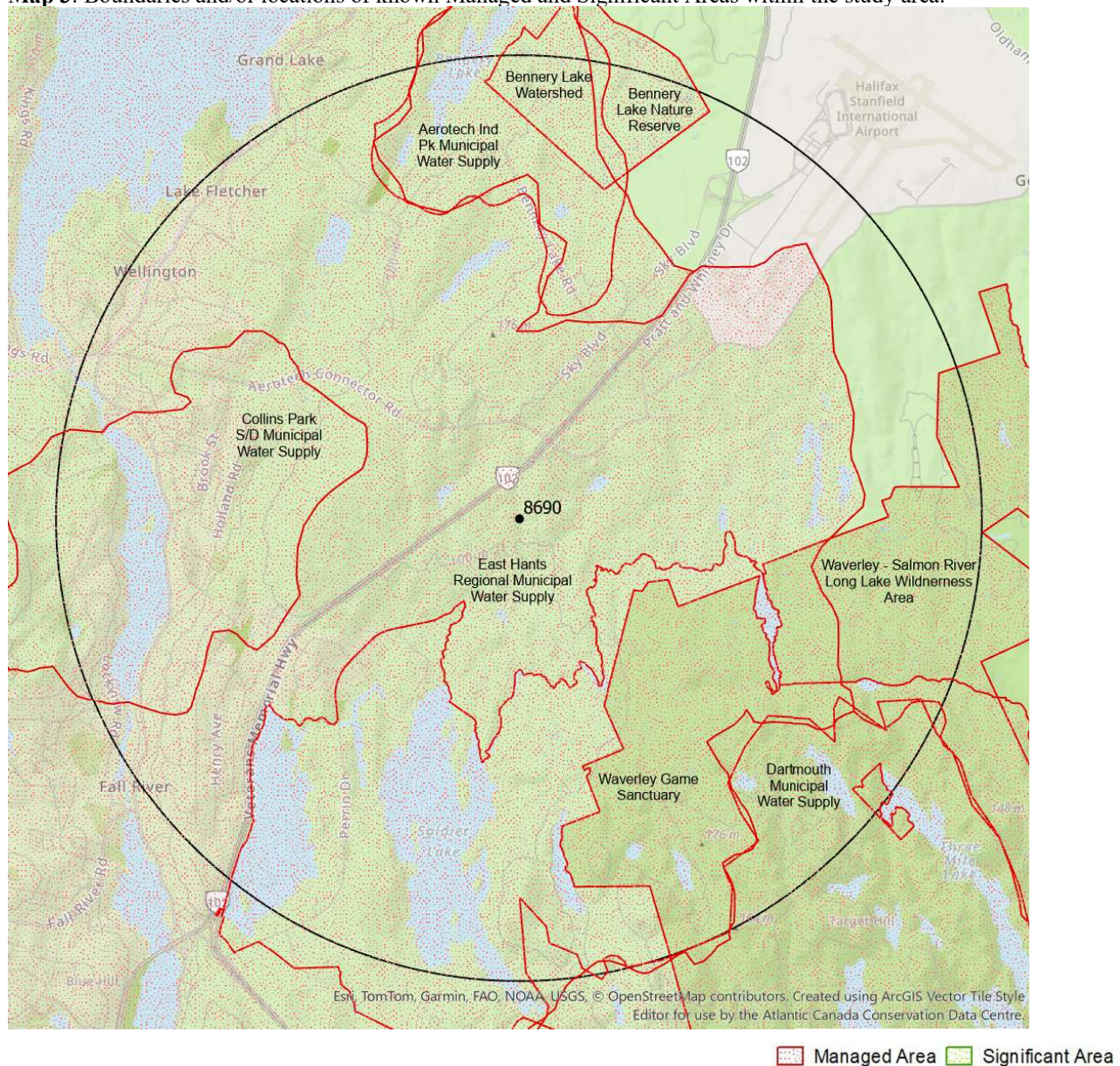
3.1 MANAGED AREAS

The GIS scan identified 10 managed areas in the vicinity of the study area (Map 3 and attached file: *msa.xls).

3.2 SIGNIFICANT AREAS

Significant Areas are sites with a conservation designation and management that qualifies them for listing in the Canadian Protected and Conserved Areas Database (CPCAD; <https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html>). The absence of a “Significant Area” within a site or region does not indicate an absence of ecologically significant properties. 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 the study area.



4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding “location-sensitive” species, section 4.3) within the study 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	# recs	Distance (km)
N <i>Pectenia plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	4	1.3 $\pm$ 0.2
N <i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss				S2	2	0.8 $\pm$ 3.0
N <i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	1	1.7 $\pm$ 0.2
N <i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3	1	4.1 $\pm$ 7.15
N <i>Sticta fuliginosa</i>	Peppered Moon Lichen				S3S4	1	0.9 $\pm$ 0.5
N <i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	2	0.8 $\pm$ 0.2
N <i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	2	1.7 $\pm$ 0.2
N <i>Coccocarpha palmicola</i>	Salted Shell Lichen				S3S4	1	1.3 $\pm$ 0.2
N <i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4	1	4.4 $\pm$ 0.2
P <i>Carex pennsylvanica</i>	Pennsylvania Sedge				S1?	1	3.6 $\pm$ 0.05
P <i>Betula michauxii</i>	Michaux's Dwarf Birch				S3	15	0.7 $\pm$ 0.48
P <i>Neottia bifolia</i>	Southern Twayblade				S3	2	3.1 $\pm$ 0.05
P <i>Fagus grandifolia</i>	American Beech				S3S4	5	3.0 $\pm$ 0.2
P <i>Liparis loeselii</i>	Loesel's Twayblade				S3S4	1	0.3 $\pm$ 5.0

4.2 FAUNA

Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A <i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	2	1.3 $\pm$ 7.07
A <i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	5	1.3 $\pm$ 10.0
A <i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	5	1.3 $\pm$ 7.07
A <i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	5	1.3 $\pm$ 7.07
A <i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	2	1.3 $\pm$ 7.07
A <i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	3	1.3 $\pm$ 7.07
A <i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	1	1.3 $\pm$ 7.07
A <i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	2	4.3 $\pm$ 0.2
A <i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	2	1.3 $\pm$ 7.07
A <i>Hemidactylum scutatum</i>	Four-toed Salamander	Not At Risk	Special Concern	Vulnerable	S3	4	2.7 $\pm$ 0.2
A <i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	2	1.3 $\pm$ 7.07
A <i>Vireo gilvus</i>	Warbling Vireo				S1B,SUM	1	2.7 $\pm$ 0.25
A <i>Poocetes gramineus</i>	Vesper Sparrow				S1S2B,SUM	1	1.3 $\pm$ 7.07
A <i>Molothrus ater</i>	Brown-headed Cowbird				S2B	1	1.4 $\pm$ 0.25
A <i>Petrochelidon pyrrhonota</i>	Cliff Swallow				S2S3B	5	1.3 $\pm$ 7.07
A <i>Cathartes aura</i>	Turkey Vulture				S2S3B,S4S5M	3	0.5 $\pm$ 0.2
A <i>Perisoreus canadensis</i>	Canada Jay				S3	2	1.3 $\pm$ 7.07
A <i>Poecile hudsonicus</i>	Boreal Chickadee				S3	2	1.3 $\pm$ 7.07
A <i>Spinus pinus</i>	Pine Siskin				S3	3	1.3 $\pm$ 7.07
A <i>Charadrius vociferus</i>	Killdeer				S3B	2	1.3 $\pm$ 7.07
A <i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	1	1.3 $\pm$ 7.07
A <i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	1	1.3 $\pm$ 7.07
A <i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	4	1.3 $\pm$ 7.07
A <i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	2	1.1 $\pm$ 0.25
A <i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	1	1.3 $\pm$ 7.07
A <i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	2	1.3 $\pm$ 7.07
A <i>Loxia curvirostra</i>	Red Crossbill				S3S4	1	3.7 $\pm$ 0.2

Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A <i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B, S4S5M	6	1.3 ± 7.07
A <i>Actitis macularius</i>	Spotted Sandpiper				S3S4B, S5M	5	1.1 ± 0.25
A <i>Leiothlypis peregrina</i>	Tennessee Warbler				S3S4B, S5M	4	1.3 ± 7.07
A <i>Bucephala albeola</i>	Bufflehead				S3S4N	1	3.4 ± 0.2
A <i>Eremophila alpestris</i>	Horned Lark				SHB, S4S5N, S5M	1	1.3 ± 7.07
I <i>Danaus plexippus</i>	Monarch		Endangered	Endangered	S27B, S3M	3	0.9 ± 0.01
I <i>Nymphalis l-album j-album</i>	Compton Tortoiseshell				S2S3	1	4.6 ± 2.5
I <i>Polygonia interrogans</i>	Question Mark				S3B	1	4.6 ± 2.5
I <i>Amblyscirtes heggon</i>	Pepper and Salt Skipper				S3S4	3	4.6 ± 2.5
I <i>Polygonia faunus</i>	Green Comma				S3S4	1	4.6 ± 2.5

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 with “YES”.

Nova Scotia

Scientific Name	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
<i>Alces alces americana</i>	Moose – Mainland population		Endangered	No
<i>Fraxinus nigra</i>	Black Ash		Threatened	YES
<i>Emydoidea blandingii</i>	Blanding's Turtle - Nova Scotia pop.	Endangered	Endangered	No
<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	No
<i>Falco peregrinus</i> pop. 1	Peregrine Falcon - anatum/tundrius pop.		Vulnerable	No
<i>Bat Hibernaculum</i> or bat species occurrence		[Endangered] ¹	[Endangered] ¹	YES
<i>Snake hibernaculum</i>		[Threatened] ²	[Threatened] ²	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.

2 *Thamnophis sauritus* (Eastern Ribbonsnake) is Threatened under the Federal Species at Risk Act (SARA) and the Nova Scotia Endangered Species Act. Occurrences between October 15 – April 15 are considered location sensitive.

4.4 SOURCE BIBLIOGRAPHY

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

# recs	CITATION
33	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
18	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
15	Pardieck, K.L., Ziolkowski Jr., D.J., Lutmerding, M., Aponte, V.I., and Hudson, M.-A.R. 2020. North American Breeding Bird Survey Dataset 1966 - 2019: U.S. Geological Survey data release, https://doi.org/10.5066/P9J6QUF6
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4	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
3	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
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recs CITATION

- areas/protected-conserved-areas-database.html.
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- 1 Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
- 1 e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larivee. Sambo Zhang (ed.) e-butterfly.org.
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- 1 iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
- 1 Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
- 1 LaPaix, R.W.; Crowell, M.J.; MacDonald, M. 2011. Stantec rare plant records, 2010-11. Stantec Consulting, 334 recs.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 38455 records of 165 vertebrate and 2283 records of 75 invertebrate fauna; 9672 records of 280 vascular and 4095 records of 201 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 (including “location-sensitive” species). 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 ($\pm$ the precision, in km, of the record).

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Coregonus huntsmani</i>	Atlantic Whitefish	Endangered	Endangered	Endangered	S1	134	86.3 $\pm$ 1.0	NS
A	<i>Myotis lucifugus</i>	Little Brown Myotis	Endangered	Endangered	Endangered	S1	316	11.6 $\pm$ 0.1	NS
A	<i>Myotis septentrionalis</i>	Northern Myotis	Endangered	Endangered	Endangered	S1	21	19.3 $\pm$ 0.2	NS
A	<i>Perimyotis subflavus</i>	Tricolored Bat	Endangered	Endangered	Endangered	S1	27	19.3 $\pm$ 0.2	NS
A	<i>Emydoidea blandingii</i> pop. 1	Blanding's Turtle - Nova Scotia population	Endangered	Endangered	Endangered	S1	538	89.2 $\pm$ 0.01	NS
A	<i>Salmo salar</i> pop. 1	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	38	11.3 $\pm$ 0.5	NS
A	<i>Salmo salar</i> pop. 6	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	41	13.0 $\pm$ 0.05	NS
A	<i>Charadrius melodus melodus</i>	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	305	23.0 $\pm$ 7.07	NS
A	<i>Sterna dougallii</i>	Roseate Tern	Endangered	Endangered	Endangered	S1B	63	32.6 $\pm$ 0.2	NS
A	<i>Dermochelys coriacea</i> pop. 2	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	3	44.1 $\pm$ 5.0	NS
A	<i>Morone saxatilis</i> pop. 2	Striped Bass - Bay of Fundy population	Endangered			S2S3B, S2S3N	13	11.3 $\pm$ 0.5	NS
A	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	Endangered	Endangered		SNA	2	64.7 $\pm$ 0.2	NS
A	<i>Protonotaria citrea</i>	Prothonotary Warbler	Endangered	Endangered		SNA	2	41.8 $\pm$ 0.2	NS
A	<i>Icteria virens virens</i>	Yellow-breasted Chat	Endangered	Endangered		SNA	5	12.9 $\pm$ 0.2	NS
A	<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Endangered	Endangered		SUB, S1M	11	19.5 $\pm$ 0.1	NS
A	<i>Lasiurus borealis</i>	Eastern Red Bat	Endangered	Endangered		SUB, S1M	1	74.3 $\pm$ 0.1	NS
A	<i>Lasiurus cinereus</i>	Hoary Bat	Endangered	Endangered		SUB, S1M	26	15.3 $\pm$ 0.5	NS
A	<i>Catharus minimus minimus</i>	Gray-cheeked Thrush minimus subspecies	Threatened			S1?B	5	96.3 $\pm$ 0.15	NS
A	<i>Asio flammeus</i>	Short-eared Owl	Threatened	Special Concern		S1B	35	21.1 $\pm$ 7.07	NS
A	<i>Glyptemys insculpta</i>	Wood Turtle	Threatened	Threatened	Threatened	S2	980	100.0 $\pm$ 0.1	NS
A	<i>Riparia riparia</i>	Bank Swallow	Threatened	Threatened	Endangered	S2B	1529	10.7 $\pm$ 0.01	NS
A	<i>Thamnophis saurita</i> pop. 3	Eastern Ribbonsnake -	Threatened	Threatened	Threatened	S2S3	13	95.3 $\pm$ 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Chaetura pelagica</i>	Atlantic population Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	1124	14.1 ± 0.15	NS
A	<i>Limosa haemastica</i>	Hudsonian Godwit	Threatened			S2S3M	75	22.6 ± 0.2	NS
A	<i>Acipenser oxyrinchus</i> pop. 2	Atlantic Sturgeon - Maritimes populations	Threatened			S2S3N	42	19.9 ± 0.5	NS
A	<i>Hydrobates leucorhous</i> pop. 1	Leach's Storm-Petrel - Atlantic Population	Threatened			S3B	47	18.6 ± 1.4	NS
A	<i>Tringa flavipes</i>	Lesser Yellowlegs	Threatened			S3M	776	21.6 ± 0.2	NS
A	<i>Limnodromus griseus</i> ssp. 1	Short-billed Dowitcher hendersoni/griseus	Threatened			S3M	894	22.7 ± 0.24	NS
A	<i>Anguilla rostrata</i>	American Eel	Threatened			S3N	491	11.0 ± 0.2	NS
A	<i>Sturnella magna</i>	Eastern Meadowlark	Threatened	Threatened		SHB	3	15.6 ± 0.33	NS
A	<i>Melanerpes lewis</i>	Lewis's Woodpecker	Threatened	Threatened		SNA	2	38.7 ± 0.2	NS
A	<i>Parkesia motacilla</i>	Louisiana Waterthrush	Threatened	Threatened		SNA	2	44.1 ± 0.2	NS
A	<i>Calamospiza melanocorys</i>	Lark Bunting	Threatened	Threatened		SNA	2	98.6 ± 0.2	NS
A	<i>Hylocichla mustelina</i>	Wood Thrush	Threatened	Threatened		SUB	44	21.2 ± 7.07	NS
A	<i>Salmo salar</i> pop. 12	Atlantic Salmon - Gaspé - Southern Gulf of St. Lawrence population	Special Concern			S1	16	91.6 ± 50.0	NS
A	<i>Antrastomus vociferus</i>	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	12	10.8 ± 7.07	NS
A	<i>Passerculus sandwichensis princeps</i>	Ipswich Sparrow	Special Concern	Special Concern		S1B	35	26.6 ± 0.05	NS
A	<i>Bucephala islandica</i> pop. 1	Barrow's Goldeneye - Eastern Population	Special Concern	Special Concern		S1N,SUM	30	15.6 ± 0.2	NS
A	<i>Euphagus carolinus</i>	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	254	1.3 ± 7.07	NS
A	<i>Histrionicus histrionicus</i> pop. 1	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2N	80	25.1 ± 0.2	NS
A	<i>Balaenoptera physalus</i> pop. 1	Fin Whale - Atlantic population	Special Concern	Special Concern		S2S3	1	79.8 ± 0.49	NS
A	<i>Phalaropus lobatus</i>	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	11	24.0 ± 0.5	NS
A	<i>Chelydra serpentina</i>	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	501	1.3 ± 10.0	NS
A	<i>Hirundo rustica</i>	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1288	1.3 ± 7.07	NS
A	<i>Cardellina canadensis</i>	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1155	1.3 ± 7.07	NS
A	<i>Chordeiles minor</i>	Common Nighthawk	Special Concern	Special Concern	Threatened	S3B	577	1.3 ± 7.07	NS
A	<i>Contopus cooperi</i>	Olive-sided Flycatcher	Special Concern	Special Concern	Threatened	S3B	956	1.3 ± 7.07	NS
A	<i>Dolichonyx oryzivorus</i>	Bobolink	Special Concern	Threatened	Vulnerable	S3B	729	1.3 ± 7.07	NS
A	<i>Coccothraustes vespertinus</i>	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	744	10.8 ± 7.07	NS
A	<i>Contopus virens</i>	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1128	1.3 ± 7.07	NS
A	<i>Phocoena phocoena</i> pop. 1	Harbour Porpoise - Northwest Atlantic Population	Special Concern			S4	17	21.6 ± 0.2	NS
A	<i>Chrysomys picta picta</i>	Eastern Painted Turtle	Special Concern	Special Concern		S4	726	10.4 ± 0.79	NS
A	<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	Special Concern	Special Concern		SNA	12	29.3 ± 0.2	NS
A	<i>Zonotrichia querula</i>	Harris's Sparrow	Special Concern	Special Concern		SNA	2	20.9 ± 0.2	NS
A	<i>Anarhichas lupus</i>	Atlantic Wolffish	Special Concern	Special Concern		SNR	5	30.4 ± 0.89	NS
A	<i>Botaurus exilis</i>	Least Bittern	Special Concern	Threatened		SUB	3	24.9 ± 0.2	NS
A	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	Special Concern	Special Concern			1	67.7 ± 0.2	NS
A	<i>Accipiter cooperii</i>	Cooper's Hawk	Not At Risk	Not At Risk		S1?B,SUN,SUM	36	13.0 ± 0.2	NS
A	<i>Fulica americana</i>	American Coot	Not At Risk			S1B	49	10.6 ± 0.98	NS
A	<i>Chlidonias niger</i>	Black Tern	Not At Risk			S1B	2	26.6 ± 0.2	NS
A	<i>Falco peregrinus</i> pop. 1	Peregrine Falcon - anatum/tundrius	Not At Risk	Vulnerable	Vulnerable	S1B,SUM	127	18.7 ± 0.2	NS
A	<i>Aegolius funereus</i>	Boreal Owl	Not At Risk			S2?B,SUM	7	30.6 ± 7.07	NS
A	<i>Lynx canadensis</i>	Canada Lynx	Not At Risk	Endangered	Endangered	S2S3	1	90.9 ± 5.0	NS
A	<i>Globicephala melas</i>	Long-finned Pilot Whale	Not At Risk			S2S3	3	24.9 ± 0.2	NS
A	<i>Hemidactylium scutatum</i>	Four-toed Salamander	Not At Risk			S3	37	12.4 ± 0.2	NS
A	<i>Megaptera novaeangliae</i> pop. 2	Humpback Whale - Western North Atlantic Population	Not At Risk			S3	2	27.9 ± 0.2	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Sterna hirundo</i>	Common Tern	Not At Risk			S3B	350	1.3 ± 7.07	NS
A	<i>Sialia sialis</i>	Eastern Bluebird	Not At Risk			S3B	78	100.0 ± 7.07	NS
A	<i>Buteo lagopus</i>	Rough-legged Hawk	Not At Risk			S3N	4	29.2 ± 0.21	NS
A	<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Not At Risk			S3S4	5	36.2 ± 2.17	NS
A	<i>Ammodramus nelsoni</i>	Nelson's Sparrow	Not At Risk			S3S4B	146	21.2 ± 7.07	NS
A	<i>Callidris canutus rufa</i>	Red Knot rufa subspecies	E, SC	Endangered	Endangered	S2M	313	24.0 ± 0.5	NS
A	<i>Alces alces americana</i>	Moose				S1	81	27.0 ± 0.2	NS
A	<i>Sorex dispar kirklandi</i>	a long-tailed shrew				S1	2	71.3 ± 0.2	NS
A	<i>Uria aalge</i>	Common Murre				S1?B	12	20.3 ± 0.2	NS
A	<i>Passerina cyanea</i>	Indigo Bunting				S1?B, SUM	31	20.1 ± 0.2	NS
A	<i>Oxyura jamaicensis</i>	Ruddy Duck				S1B	20	18.5 ± 0.2	NS
A	<i>Gallinula galeata</i>	Common Gallinule				S1B	10	17.2 ± 0.2	NS
A	<i>Bartramia longicauda</i>	Upland Sandpiper				S1B	6	18.5 ± 0.2	NS
A	<i>Myiarchus crinitus</i>	Great Crested Flycatcher				S1B	31	11.1 ± 7.07	NS
A	<i>Cistothorus palustris</i>	Marsh Wren				S1B	4	24.6 ± 0.2	NS
A	<i>Mimus polyglottos</i>	Northern Mockingbird				S1B	99	15.4 ± 7.07	NS
A	<i>Toxostoma rufum</i>	Brown Thrasher				S1B	19	21.1 ± 7.07	NS
A	<i>Salmo salar</i>	Atlantic Salmon				S1B, S1N	20	35.7 ± 0.26	NS
A	<i>Charadrius semipalmatus</i>	Semipalmated Plover				S1B, S4M	1318	21.6 ± 0.2	NS
A	<i>Calidris minutilla</i>	Least Sandpiper				S1B, S4M	827	21.6 ± 0.2	NS
A	<i>Anas acuta</i>	Northern Pintail				S1B, SUM	88	12.6 ± 0.2	NS
A	<i>Vireo gilvus</i>	Warbling Vireo				S1B, SUM	29	11.1 ± 7.07	NS
A	<i>Vesperilionidae sp. not</i>	bat species				S1S2	160	10.1 ± 0.1	NS
A	<i>Vesperilionidae sp. not</i>	Bat species not Big Brown				S1S2	101	10.5 ± 0.1	NS
A	<i>Eptesicus</i>	Bat				S1S2B, SUM	55	1.3 ± 7.07	NS
A	<i>Poocetes gramineus</i>	Vesper Sparrow				S2?B, SUM	50	10.5 ± 0.25	NS
A	<i>Vireo philadelphicus</i>	Philadelphia Vireo				S2B	33	19.0 ± 0.2	NS
A	<i>Alca torda</i>	Razorbill				S2B	47	48.7 ± 0.2	NS
A	<i>Fratercula arctica</i>	Atlantic Puffin				S2B	33	14.4 ± 7.07	NS
A	<i>Empidonax traillii</i>	Willow Flycatcher				S2B	168	1.4 ± 0.25	NS
A	<i>Molothrus ater</i>	Brown-headed Cowbird				S2B, S2N, S4M	1070	100.0 ± 7.07	NS
A	<i>Somateria mollissima</i>	Common Eider				S2B, SUM	34	15.4 ± 0.2	NS
A	<i>Spatula clypeata</i>	Northern Shoveler				S2B, SUM	43	15.5 ± 0.2	NS
A	<i>Mareca strepera</i>	Gadwall				S2B, SUM	48	11.1 ± 7.07	NS
A	<i>Piranga olivacea</i>	Scarlet Tanager				S2N, S3M	812	21.5 ± 0.63	NS
A	<i>Calidris alba</i>	Sanderling				S2N, S4M	78	20.2 ± 0.2	NS
A	<i>Melanitta perspicillata</i>	White-winged Scoter				S2N, S4M	65	17.9 ± 0.2	NS
A	<i>Melanitta deglandi</i>	American Marten			Endangered	S2S3	2	31.0 ± 0.2	NS
A	<i>Martes americana</i>	Long-eared Owl				S2S3	27	19.1 ± 0.15	NS
A	<i>Asio otus</i>	Virginia Rail				S2S3B	21	28.6 ± 7.07	NS
A	<i>Rallus limicola</i>	Black-legged Kittiwake				S2S3B	21	48.7 ± 0.2	NS
A	<i>Rissa tridactyla</i>	Cliff Swallow				S2S3B	277	1.3 ± 7.07	NS
A	<i>Petrochelidon pyrrhonota</i>	Great Cormorant				S2S3B, S2S3N	103	19.0 ± 0.2	NS
A	<i>Phalacrocorax carbo</i>	Striped Bass				S2S3B, S2S3N	38	10.0 ± 0.2	NS
A	<i>Morone saxatilis</i>	Turkey Vulture				S2S3B, S4S5M	139	0.5 ± 0.2	NS
A	<i>Cathartes aura</i>	Pine Warbler				S2S3B, S4S5M	56	12.9 ± 0.27	NS
A	<i>Setophaga pinus</i>	Baltimore Oriole				S2S3B, S4S5M	109	13.1 ± 0.2	NS
A	<i>Icterus galbula</i>	American Golden-Plover				S2S3B, SUM	133	24.0 ± 0.5	NS
A	<i>Pluvialis dominica</i>	Whimbrel				S2S3M	110	23.7 ± 0.2	NS
A	<i>Numenius phaeopus hudsonicus</i>	Red Phalarope				S2S3M	4	24.0 ± 0.5	NS
A	<i>Phalaropus fulicarius</i>	Canada Jay				S3	610	1.3 ± 7.07	NS
A	<i>Perisoreus canadensis</i>	Boreal Chickadee				S3	642	1.3 ± 7.07	NS
A	<i>Poecile hudsonicus</i>	Pine Siskin				S3	524	1.3 ± 7.07	NS
A	<i>Spinus pinus</i>	Brook Trout				S3	160	12.9 ± 0.2	NS
A	<i>Salvelinus fontinalis</i>	Lake Trout				S3	2	20.3 ± 0.5	NS
A	<i>Salvelinus namaycush</i>	Maritime Shrew				S3	1	68.3 ± 1.0	NS
A	<i>Sorex maritimensis</i>								

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	<i>Synaptomys cooperi</i>	Southern Bog Lemming				S3	1	77.8 ± 0.5	NS
A	<i>Pekania pennanti</i>	Fisher				S3	10	27.4 ± 0.2	NS
A	<i>Calcarurus leponicus</i>	Lapland Longspur				S3?N,SUM	13	22.9 ± 0.2	NS
A	<i>Spatula discors</i>	Blue-winged Teal				S3B	85	11.1 ± 7.07	NS
A	<i>Charadrius vociferus</i>	Killdeer				S3B	559	1.3 ± 7.07	NS
A	<i>Tringa semipalmata</i>	Willet				S3B	1385	100.0 ± 7.07	NS
A	<i>Sterna paradisaea</i>	Arctic Tern				S3B	70	26.6 ± 0.15	NS
A	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo				S3B	64	1.3 ± 7.07	NS
A	<i>Tyrannus tyrannus</i>	Eastern Kingbird				S3B	245	1.3 ± 7.07	NS
A	<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak				S3B	490	1.3 ± 7.07	NS
A	<i>Alosa pseudoharengus</i>	Alewife				S3B	44	14.5 ± 0.2	NS
A	<i>Tringa melanoleuca</i>	Greater Yellowlegs				S3B,S4M	1596	20.6 ± 0.2	NS
A	<i>Falco sparverius</i>	American Kestrel				S3B,S4S5M	339	100.0 ± 7.07	NS
A	<i>Mergus serrator</i>	Red-breasted Merganser				S3B,S4S5N,S5M	394	15.7 ± 0.2	NS
A	<i>Gallinago delicata</i>	Wilson's Snipe				S3B,S5M	677	1.1 ± 0.25	NS
A	<i>Setophaga striata</i>	Blackpoll Warbler				S3B,S5M	173	14.0 ± 0.2	NS
A	<i>Cardellina pusilla</i>	Wilson's Warbler				S3B,S5M	99	1.3 ± 7.07	NS
A	<i>Pinicola enucleator</i>	Pine Grosbeak				S3B,S5N,S5M	148	1.3 ± 7.07	NS
A	<i>Setophaga tigrina</i>	Cape May Warbler				S3B,SUM	195	10.8 ± 7.07	NS
A	<i>Branta bernicla</i>	Brant				S3M	4	27.0 ± 0.2	NS
A	<i>Pluvialis squatarola</i>	Black-bellied Plover				S3M	1297	22.6 ± 0.2	NS
A	<i>Arenaria interpres</i>	Ruddy Turnstone				S3M	491	24.0 ± 0.5	NS
A	<i>Calidris pusilla</i>	Semipalmated Sandpiper				S3M	1136	21.5 ± 0.63	NS
A	<i>Calidris melanotos</i>	Pectoral Sandpiper				S3M	159	21.6 ± 0.2	NS
A	<i>Chroicocephalus ridibundus</i>	Black-headed Gull				S3N	39	19.3 ± 0.2	NS
A	<i>Podiceps auritus</i> pop. 2	Horned Grebe - Western population		Special Concern		S3N,SUM	33	39.3 ± 0.2	NS
A	<i>Accipiter atricapillus</i>	American Goshawk				S3S4	148	10.4 ± 0.2	NS
A	<i>Picoides arcticus</i>	Black-backed Woodpecker				S3S4	187	100.0 ± 7.07	NS
A	<i>Loxia curvirostra</i>	Red Crossbill				S3S4	263	12.9 ± 7.07	NS
A	<i>Glaucomys volans</i>	Southern Flying Squirrel				S3S4	8	39.2 ± 2.56	NS
A	<i>Botaurus lentiginosus</i>	American Bittern				S3S4B,S4S5M	219	10.8 ± 7.07	NS
A	<i>Setophaga castanea</i>	Bay-breasted Warbler				S3S4B,S4S5M	496	1.3 ± 7.07	NS
A	<i>Actitis macularius</i>	Spotted Sandpiper				S3S4B,S5M	758	1.1 ± 0.25	NS
A	<i>Leiothyris peregrina</i>	Tennessee Warbler				S3S4B,S5M	482	1.3 ± 7.07	NS
A	<i>Passerella iliaca</i>	Fox Sparrow				S3S4N	114	15.0 ± 0.25	NS
A	<i>Bucephala albeola</i>	Bufflehead				S3S4N	302	11.7 ± 0.2	NS
A	<i>Calidris maritima</i>	Purple Sandpiper				S3S4N	167	20.5 ± 0.2	NS
A	<i>Lanius borealis</i>	Northern Shrike				S3S4N	4	5.2 ± 0.2	NS
A	<i>Morus bassanus</i>	Northern Gannet				SHB	74	18.0 ± 4.78	NS
A	<i>Aythya americana</i>	Redhead				SHB	10	19.2 ± 0.2	NS
A	<i>Leucophaeus atricilla</i>	Laughing Gull				SHB	15	26.9 ± 0.54	NS
A	<i>Progne subis</i>	Purple Martin				SHB	6	26.9 ± 0.84	NS
A	<i>Eremophila alpestris</i>	Horned Lark				SHB,S4S5N,S5M	30	1.3 ± 7.07	NS
I	<i>Bombus bohemicus</i>	Ashton Cuckoo Bumble Bee			Endangered	S1	25	22.0 ± 5.0	NS
I	<i>Danaus plexippus</i>	Monarch		Endangered	Endangered	S2?B,S3M	1034	0.9 ± 0.01	NS
I	<i>Barnea truncata</i>	Atlantic Mud-piddock		Threatened	Endangered	S1	11	55.1 ± 0.25	NS
I	<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee		Threatened		SH	4	31.4 ± 5.0	NS
I	<i>Alasmidonta varicosa</i>	Bee							
I	<i>Bombus terricola</i>	Brook Floater		Special Concern	Threatened	S3	11	24.6 ± 0.1	NS
I	<i>Coccinella transversoguttata richardsoni</i>	Yellow-banded Bumble Bee		Special Concern	Vulnerable	S3	171	15.8 ± 0.2	NS
I	<i>Gomphurus ventricosus</i>	Transverse Lady Beetle		Special Concern	Endangered	SH	5	32.0 ± 2.5	NS
I	<i>Quedius spelaesus</i>	Skillet Ciuitail		Endangered		SH	2	24.9 ± 1.0	NS
I	<i>Erora laeta</i>	Speleanrove Beetle				S1	1	39.5 ± 5.0	NS
I	<i>Pachydiplax longipennis</i>	Early Hairstreak				S1	1	23.7 ± 1.0	NS
I	<i>Atlanticoncha ochracea</i>	Blue Dasher				S1	54	15.9 ± 0.6	NS
I		Tidewater Mucket				S1	9	96.3 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
	<i>Polygonia comma</i>	Eastern Comma			S1?			25	19.4 ± 0.2	NS
	<i>Polygonia satyrus</i>	Satyr Comma			S1?			7	24.4 ± 1.0	NS
	<i>Boloria chariclea grandis</i>	Purple Lesser Fritillary			S1S2			3	83.2 ± 2.5	NS
	<i>Somatochlora brevicincta</i>	Quebec Emerald			S1S2			1	23.6 ± 0.1	NS
	<i>Satyrium acadica</i>	Acadian Hairstreak			S2			5	65.6 ± 2.5	NS
	<i>Neurocordulia michaeli</i>	Broad-tailed Shadowdragon			S2			4	91.1 ± 0.05	NS
	<i>Coenagion resolutum</i>	Taiga Bluet			S2			2	5.9 ± 1.0	NS
	<i>Margaritifera margaritifera</i>	Eastern Pearlshell			S2			112	14.8 ± 1.0	NS
	<i>Pantala hymenaea</i>	Spot-Winged Glider			S2?B			7	24.5 ± 1.0	NS
	<i>Nymphalis l-album j-album</i>	Compton Tortoiseshell			S2S3			19	22.0 ± 0.01	NS
	<i>Aglais milberti</i>	Milbert's Tortoiseshell			S2S3			22	15.1 ± 2.0	NS
	<i>Somatochlora kennedyi</i>	Kennedy's Emerald			S2S3			3	24.5 ± 1.0	NS
	<i>Williamsonia fletcheri</i>	Ebony Boghaunter			S2S3			4	98.5 ± 0.5	NS
	<i>Enallagma geminatum</i>	Skimming Bluet			S2S3			4	30.3 ± 0.2	NS
	<i>Stylurus scudder</i>	Zebra Clubtail			S2S3			6	14.5 ± 1.0	NS
	<i>Alasmidoptera undulata</i>	Triangle Floater			S2S3			32	10.3 ± 0.55	NS
	<i>Strophiona nitens</i>	Chestnut Bark Long-horned Beetle			S3			3	20.6 ± 0.2	NS
	<i>Psephenus herricki</i>	Herrick's Water Penny Beetle			S3			8	40.0 ± 0.2	NS
	<i>Platydacus fossator</i>	Digging Rove Beetle			S3			1	99.8 ± 0.36	NS
	<i>Carabus serratus</i>	Serrated Ground Beetle			S3			1	63.3 ± 0.2	NS
	<i>Hippodamia parenthesis</i>	Parenthesis Lady Beetle			S3			3	25.6 ± 0.05	NS
	<i>Disonychia pensylvanica</i>	Pennsylvania Flea Beetle			S3			1	78.3 ± 0.2	NS
	<i>Omophron americanum</i>	American Round Sand Beetle			S3			5	85.7 ± 0.01	NS
	<i>Chrysoschus auratus</i>	Dogbane Leaf Beetle			S3			2	86.1 ± 3.04	NS
	<i>Naemia seriata</i>	Seaside Lady Beetle			S3			37	22.9 ± 0.54	NS
	<i>Elateroides lugubris</i>	Sapwood Ship-timber Beetle			S3			1	25.6 ± 0.2	NS
	<i>Chilocorus stigma</i>	Twice-stabbed Lady Beetle			S3			11	25.1 ± 0.2	NS
	<i>Myzia pullata</i>	Streaked Lady Beetle			S3			7	16.9 ± 0.2	NS
	<i>Monochamus marmorator</i>	Balsam Fir Sawyer			S3			3	25.1 ± 0.2	NS
	<i>Dicerca tuberculata</i>	Swollen Jewel Beetle			S3			1	22.2 ± 9.73	NS
	<i>Astylopsis sexguttata</i>	Six-speckled Long-horned Beetle			S3			2	6.7 ± 0.25	NS
	<i>Satyrium calanus falacer</i>	Falacer Hairstreak			S3			73	11.7 ± 2.5	NS
	<i>Callophrys lanoraieensis</i>	Bog Elfin			S3			28	19.4 ± 1.0	NS
	<i>Strymon melinus</i>	Gray Hairstreak			S3			16	24.4 ± 1.0	NS
	<i>Phanogomphus descriptus</i>	Harpoon Clubtail			S3			4	91.3 ± 0.01	NS
	<i>Ophiogomphus aspersus</i>	Brook Snaketail			S3			6	36.5 ± 0.1	NS
	<i>Ophiogomphus mainensis</i>	Maine Snaketail			S3			17	71.4 ± 0.2	NS
	<i>Ophiogomphus rupinsulensis</i>	Rusty Snaketail			S3			21	24.7 ± 0.5	NS
	<i>Epitheca princeps</i>	Prince Baskettail			S3			18	11.8 ± 0.2	NS
	<i>Somatochlora forcipata</i>	Forcinate Emerald			S3			4	22.1 ± 1.0	NS
	<i>Enallagma vernale</i>	Vernal Bluet			S3			6	24.9 ± 1.0	NS
	<i>Polygonia interrogatoris</i>	Question Mark			S3B			174	12.1 ± 4.29	NS
	<i>Lepturopsis biforis</i>	Two-spotted Long-horned Beetle			S3S4			2	65.5 ± 0.34	NS
	<i>Cecropterus pylades</i>	Northern Cloudwing			S3S4			7	63.4 ± 2.5	NS
	<i>Amblyscirtes hegou</i>	Pepper and Salt Skipper			S3S4			30	11.7 ± 2.5	NS
	<i>Cupido comyntas</i>	Eastern Tailed Blue			S3S4			29	19.7 ± 1.0	NS
	<i>Argynnis aphrodite winni</i>	Aphrodite Fritillary			S3S4			43	24.9 ± 2.5	NS
	<i>Polygonia faunus</i>	Green Comma			S3S4			17	10.9 ± 5.0	NS
	<i>Oeneis jutta ascerta</i>	Jutta Arctic			S3S4			9	22.1 ± 1.0	NS
	<i>Aeshna clepsydra</i>	Mottled Darner			S3S4			11	13.5 ± 0.1	NS
	<i>Aeshna constricta</i>	Lance-Tipped Darner			S3S4			26	21.1 ± 1.0	NS
	<i>Boyeria graefana</i>	Ocellated Darner			S3S4			9	26.4 ± 0.2	NS
	<i>Gomphaeschna furcillata</i>	Harlequin Darner			S3S4			19	10.7 ± 0.01	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
I	<i>Somatoclhora franklini</i>	Delicate Emerald				S3S4		3	24.9 ± 1.0	NS
I	<i>Eythrodiplex berenice</i>	Seaside Dragonlet				S3S4		4	22.7 ± 0.2	NS
I	<i>Nannothernis bella</i>	Elfin Skimmer				S3S4		22	11.6 ± 1.0	NS
I	<i>Sympetrum danae</i>	Black Meadowhawk				S3S4		2	55.5 ± 0.2	NS
I	<i>Enallagma vesperum</i>	Vesper Bluet				S3S4		4	20.4 ± 0.2	NS
I	<i>Amphiglion saucium</i>	Eastern Red Damsel				S3S4		4	61.6 ± 1.0	NS
I	<i>Tricholchmaea sablensis</i>	Sable Island Leaf Beetle				SH		1	84.8 ± 0.05	NS
I	<i>Sphaerophoria pyrrhina</i>	Violaceous Globetail				SH		1	60.5 ± 5.0	NS
I	<i>Icaricia saepiolus amica</i>	Greenish Blue				SH		2	22.6 ± 2.5	NS
I	<i>Polygonia gracilis</i>	Hoary Comma				SH		1	62.2 ± 2.5	NS
N	<i>Erioderma mollissimum</i>	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1		29	34.1 ± 0.2	NS
N	<i>Erioderma pedicellatum</i>	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1		426	26.8 ± 0.5	NS
N	<i>Peltigera hydrothyrta</i>	Eastern Waterfan	Threatened	Threatened	Threatened	S1		194	42.7 ± 0.01	NS
N	<i>Pannaria lurida</i>	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3		167	20.6 ± 13.0	NS
N	<i>Anzia colpodes</i>	Black-foam Lichen	Threatened	Threatened	Threatened	S3		47	12.2 ± 1.0	NS
N	<i>Fuscopannaria leucosticta</i>	White-rimmed Shingle Lichen	Threatened			S3		19	20.6 ± 0.01	NS
N	<i>Heterodermia squamulosa</i>	Scaly Fringe Lichen	Threatened			S3		91	47.8 ± 0.5	NS
N	<i>Pectenia plumbea</i>	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3		293	1.3 ± 0.2	NS
N	<i>Sclerophora peronella</i>	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4		54	11.0 ± 0.05	NS
N	<i>Pseudevernia cladonia</i>	Ghost Antler Lichen	Not At Risk			S2S3		31	28.0 ± 0.22	NS
N	<i>Fissidens exilis</i>	Pygmy Pocket Moss	Not At Risk			S3		15	33.5 ± 0.01	NS
N	<i>Chaenotheca servitii</i>	Flexuous Golden Stubble	Data Deficient			S1		1	82.2 ± 1.0	NS
N	<i>Alcina brevirostris</i>	Short-Beaked Rigid Screw Moss				S1		2	39.6 ± 2.5	NS
N	<i>Sematophyllum demissum</i>	a Moss				S1		2	5.1 ± 2.5	NS
N	<i>Cyrtio-hypnum minutulum</i>	Tiny Cedar Moss				S1		1	82.2 ± 0.01	NS
N	<i>Blennothallia crispa</i>	Crinkled Jelly Lichen				S1		1	54.9 ± 0.05	NS
N	<i>Umbilicaria vellea</i>	Grizzled Rocktripe Lichen				S1		1	29.0 ± 5.0	NS
N	<i>Usnea perplexans</i>	Powdered Beard Lichen				S1		2	58.9 ± 0.4	NS
N	<i>Scythium dactylium</i>	Brown-buttoned Jellyskin Lichen				S1		1	88.1 ± 0.34	NS
N	<i>Lathagrium cristatum</i>	Fingered Jelly Lichen				S1		3	45.8 ± 0.05	NS
N	<i>Ephebe perspinulosa</i>	Thread Lichen				S1		1	88.0 ± 1.33	NS
N	<i>Fuscopannaria praetermissa</i>	Moss Shingles Lichen				S1		1	45.2 ± 0.05	NS
N	<i>Scythium schraderi</i>	Wrinkled Jellyskin Lichen				S1		1	44.1 ± 0.05	NS
N	<i>Lichina confinis</i>	Marine Seaweed Lichen				S1		4	41.8 ± 0.01	NS
N	<i>Polychidium muscicola</i>	Eyed Mossthorns				S1		1	63.3 ± 0.2	NS
N	<i>Pseudevernia consocians</i>	Woollybear Lichen				S1		1	88.8 ± 0.05	NS
N	<i>Stictia limbata</i>	Common Antler Lichen				S1		4	49.4 ± 3.9	NS
N	<i>Peltigera lepidophora</i>	Powdered Moon Lichen				S1		8	43.7 ± 0.01	NS
N	<i>Bryoria nitidula</i>	Scaly Pelt Lichen				S1		6	37.4 ± 0.2	NS
N	<i>Hypogymnia hultenii</i>	Tundra Horsehair Lichen				S1		14	31.2 ± 1.3	NS
N	<i>Calypogeia neogaea</i>	Powdered Honeycomb Lichen				S1?		3	51.7 ± 0.01	NS
N	<i>Jubula pennsylvanica</i>	Common Pouchwort				S1?		4	27.5 ± 0.2	NS
N	<i>Aloina rigida</i>	a liverwort				S1?		4	39.6 ± 2.5	NS
N	<i>Imbricarium muehlenbeckii</i>	Aloe-Like Rigid Screw Moss				S1?		2	60.6 ± 0.01	NS
N	<i>Conardia compacta</i>	Muehlenbeck's Bryum Moss				S1?		1	47.9 ± 2.0	NS
N	<i>Tortula obtusifolia</i>	Coast Creeping Moss				S1?		3	58.3 ± 0.01	NS
N	<i>Didymodon tophaceus</i>	a Moss				S1?		2	54.6 ± 4.0	NS
N	<i>Grimmia laevigata</i>	Olive Beard Moss				S1?		2	21.0 ± 0.34	NS
N	<i>Homomallium adnatum</i>	a Moss				S1?		1	74.4 ± 0.2	NS
N	<i>Paludella squarrosa</i>	Adnate Hairy-gray Moss				S1?		3	37.1 ± 0.01	NS
N	<i>Physcomitrium immersum</i>	Tufted Fen Moss				S1?		4	75.0 ± 0.38	NS

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N	<i>Schistostega pennata</i>	Luminous Moss			S1?		2	30.8 ± 0.2	NS
N	<i>Trichodon cylindricus</i>	Cylindric Hairy-teeth Moss			S1?		1	95.0 ± 0.2	NS
N	<i>Enchylium limosum</i>	Lime-loving Tarpaper Lichen			S1?		2	54.6 ± 4.0	NS
N	<i>Scytinium intermedium</i>	Forty-five Jellyskin Lichen			S1?		1	54.6 ± 4.0	NS
N	<i>Melanelia culbersonii</i>	Appalachian Camouflage Lichen			S1?		1	53.4 ± 0.05	NS
N	<i>Porella pinnata</i>	Pinnate Scalewort			S1S2		1	93.7 ± 0.2	NS
N	<i>Arthenopterum heterostichum</i>	One-sided Groove Moss			S1S2		2	39.6 ± 2.5	NS
N	<i>Hypnum pratense</i>	Meadow Plait Moss			S1S2		1	88.1 ± 3.0	NS
N	<i>Mnium thomsonii</i>	Thomson's Leafy Moss			S1S2		1	45.2 ± 2.0	NS
N	<i>Tortula acaulon</i>	Cuspidate Earth Moss			S1S2		3	80.5 ± 0.2	NS
N	<i>Plagiothecium latebricola</i>	Alder Silk Moss			S1S2		2	61.1 ± 5.0	NS
N	<i>Platydictya confervoides</i>	a Moss			S1S2		1	43.8 ± 0.01	NS
N	<i>Sematophyllum marylandicum</i>	a Moss			S1S2		2	5.0 ± 3.0	NS
N	<i>Timmia megapolitana</i>	Metropolitan Timmia Moss			S1S2		3	70.7 ± 1.6	NS
N	<i>Tortula mucronifolia</i>	Mucronate Screw Moss			S1S2		1	77.1 ± 3.0	NS
N	<i>Pseudotaxiphyllum distichaceum</i>	a Moss			S1S2		2	61.8 ± 0.01	NS
N	<i>Haplodadium microphyllum</i>	Tiny-leaved Haplodadium Moss			S1S2		1	52.6 ± 5.0	NS
N	<i>Rhynchostegium serulatum</i>	Dark Beaked Moss			S1S2		1	45.2 ± 2.0	NS
N	<i>Enchylium bachmanianum</i>	Bachman's Jelly Lichen			S1S2		2	46.0 ± 0.05	NS
N	<i>Placidium squamulosum</i>	Limy Soil Stipplescale Lichen			S1S2		1	57.2 ± 6.0	NS
N	<i>Peltigera ponojensis</i>	Pale-bellied Pelt Lichen			S1S2		1	95.1 ± 0.5	NS
N	<i>Pilophorus cereolus</i>	Powdered Matchstick Lichen			S1S2		1	70.3 ± 3.0	NS
N	<i>Rhizoplaa subdiscrepans</i>	Scattered Rock-posy Lichen			S1S2		1	55.0 ± 1.4	NS
N	<i>Parmotrema reticulatum</i>	Netted Ruffle Lichen			S1S2		9	85.7 ± 0.01	NS
N	<i>Parmeliella parvula</i>	Poor-man's Shingles Lichen			S1S2		11	29.9 ± 0.5	NS
N	<i>Umbilicaria polytricha</i>	Ballpoint Rocktripe Lichen			S1S3		1	98.4 ± 0.01	NS
N	<i>Lecanora polytricha</i>	a lichen			S1S3		3	37.4 ± 0.2	NS
N	<i>Acarospora sinopica</i>	a cracked lichen			S1S3		2	22.7 ± 0.2	NS
N	<i>Heterodermia galactophylla</i>	Branching Fringe Lichen			S1S3		2	55.2 ± 0.05	NS
N	<i>Xylopsora fresii</i>	a Lichen			S1S3		2	24.8 ± 0.2	NS
N	<i>Stereocaulon grande</i>	Grand Foam Lichen			S1S3		1	74.1 ± 0.5	NS
N	<i>Stereocaulon intermedium</i>	Pacific Brain Foam Lichen			S1S3		6	20.1 ± 0.4	NS
N	<i>Anacamptodon splachnoides</i>	a Moss			S2		3	21.7 ± 30.0	NS
N	<i>Sphagnum platyphyllum</i>	Flat-leaved Peat Moss			S2		2	0.8 ± 3.0	NS
N	<i>Sphagnum subnitens</i>	Lustrous Peat Moss			S2		1	53.4 ± 2.0	NS
N	<i>Usnea flavocardia</i>	Blood-splattered Beard Lichen			S2		1	29.1 ± 4.5	NS
N	<i>Cystocoleus ebeneus</i>	Rockgossamer Lichen			S2		6	20.5 ± 0.02	NS
N	<i>Hypotrachyna catabiensis</i>	Powder-tipped Antler Lichen			S2		11	23.4 ± 0.01	NS
N	<i>Scytinium imbricatum</i>	Scaly Jellyskin Lichen			S2		3	47.7 ± 4.0	NS
N	<i>Nephroma arcticum</i>	Arctic Kidney Lichen			S2		1	32.9 ± 1.7	NS
N	<i>Nephroma resupinatum</i>	a lichen			S2		13	17.2 ± 1.0	NS
N	<i>Placynthium flabelliforme</i>	Scaly Ink Lichen			S2		2	27.2 ± 17.5	NS
N	<i>Moerckia floroviana</i>	Florescent Ruffwort			S2?		1	55.2 ± 0.01	NS
N	<i>Riccardia multifida</i>	Delicate Germanwort			S2?		3	26.6 ± 0.2	NS
N	<i>Anomodon viticulosus</i>	a Moss			S2?		2	85.5 ± 0.2	NS
N	<i>Weissia muhlenbergiana</i>	Lesser Smoothcap Moss			S2?		5	45.2 ± 1.2	NS
N	<i>Atrichum angustatum</i>	Drooping Bryum			S2?		3	25.6 ± 0.53	NS
N	<i>Ptychosporium pendulum</i>	Polygamous Hook Moss			S2?		1	39.6 ± 2.5	NS
N	<i>Drepanocladus polygamus</i>	Long-stalked Fine Wet Moss			S2?		4	88.3 ± 2.0	NS
N	<i>Pseudocampylum radicale</i>	Condensed Broom Moss			S2?		1	88.1 ± 3.0	NS
N	<i>Dicranum condensatum</i>				S2?		3	42.0 ± 0.01	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Ditrichum rhynchostegium</i>	a Moss			S2?		1	20.0 ± 1.4	NS
N	<i>Grimmia anomala</i>	Mountain Forest Grimmia			S2?		1	70.2 ± 1.5	NS
N	<i>Kiaeria starkei</i>	Starke's Fork Moss			S2?		1	39.5 ± 10.0	NS
N	<i>Orthotrichum anomalum</i>	Anomalous Bristle Moss			S2?		1	48.7 ± 2.0	NS
N	<i>Philonotis marchica</i>	a Moss			S2?		2	68.7 ± 0.01	NS
N	<i>Platydictya jungermannioides</i>	False Willow Moss			S2?		1	26.5 ± 0.01	NS
N	<i>Saelania glaucescens</i>	Blue Dew Moss			S2?		1	91.0 ± 0.1	NS
N	<i>Cyrtomium hymenophyllioides</i>	Short-pointed Lantern Moss			S2?		2	19.5 ± 5.0	NS
N	<i>Platylomella lescurei</i>	a Moss			S2?		9	27.7 ± 0.01	NS
N	<i>Phylliscum demangeonii</i>	Black Rock-wafer Lichen			S2?		5	51.6 ± 0.05	NS
N	<i>Oxyrrhynchium hians</i>	Light Beaked Moss			S2S3		4	33.6 ± 25.0	NS
N	<i>Platydictya subtilis</i>	Bark Willow Moss			S2S3		1	80.3 ± 3.2	NS
N	<i>Scorpidium revolvens</i>	Limprichtia Moss			S2S3		3	37.1 ± 0.01	NS
N	<i>Moelleropsis nebulosa</i>	Blue-gray Moss Shingle Lichen			S2S3		59	15.2 ± 1.2	NS
N	<i>Moelleropsis nebulosa</i> ssp. <i>frullanae</i>	Blue-gray Moss Shingle Lichen			S2S3		2	42.1 ± 0.5	NS
N	<i>Ramalina thrausta</i>	Angelhair Ramalina Lichen			S2S3		13	22.8 ± 5.0	NS
N	<i>Collema leptaleum</i>	Crumpled Bat's Wing Lichen			S2S3		107	24.0 ± 0.01	NS
N	<i>Usnea ceratina</i>	Warty Beard Lichen			S2S3		2	72.1 ± 0.4	NS
N	<i>Usnea hirta</i>	Bristly Beard Lichen			S2S3		4	14.6 ± 5.32	NS
N	<i>Usnea rubicunda</i>	Red Beard Lichen			S2S3		5	51.9 ± 0.24	NS
N	<i>Aritania aurescens</i>	Eastern Candlewax Lichen			S2S3		19	17.8 ± 0.7	NS
N	<i>Urocetaria oakesiana</i>	Yellow Band Lichen			S2S3		12	16.3 ± 0.5	NS
N	<i>Cetraria muricata</i>	Spiny Heath Lichen			S2S3		1	22.2 ± 0.01	NS
N	<i>Cladonia incrassata</i>	Powder-foot British Soldiers Lichen			S2S3		1	34.1 ± 0.2	NS
N	<i>Cladonia mateocyatha</i>	Mixed-up Pixie-cup			S2S3		5	21.4 ± 5.5	NS
N	<i>Cladonia parasitica</i>	Fence-rail Lichen			S2S3		3	15.6 ± 0.24	NS
N	<i>Scythium tenuissimum</i>	Birdnest Jellyskin Lichen			S2S3		13	20.7 ± 0.01	NS
N	<i>Melanohalea septentrionalis</i>	Northern Camouflage Lichen			S2S3		1	58.8 ± 0.6	NS
N	<i>Myelochroa aurulenta</i>	Powdery Axil-bristle Lichen			S2S3		5	70.1 ± 2.3	NS
N	<i>Parmelia fertilis</i>	Fertile Shield Lichen			S2S3		15	58.1 ± 0.6	NS
N	<i>Hypotrachyna minarum</i>	Hairless-spined Shield Lichen			S2S3		3	41.5 ± 0.05	NS
N	<i>Parmeliopsis ambigua</i>	Green Starburst Lichen			S2S3		2	24.3 ± 0.6	NS
N	<i>Racodium rupestre</i>	Rockhair Lichen			S2S3		3	15.2 ± 1.2	NS
N	<i>Umbilicaria polyphylla</i>	Petalled Rocktripe Lichen			S2S3		2	42.1 ± 0.2	NS
N	<i>Usnea cavernosa</i>	Pitted Beard Lichen			S2S3		5	58.9 ± 0.4	NS
N	<i>Usnea mutabilis</i>	Bloody Beard Lichen			S2S3		1	59.0 ± 0.25	NS
N	<i>Fuscopannaria soledjata</i>	a Lichen			S2S3		8	15.2 ± 1.2	NS
N	<i>Stereocaulon condensatum</i>	Granular Soil Foam Lichen			S2S3		5	23.5 ± 0.01	NS
N	<i>Physcia subtilis</i>	Slender Rosette Lichen			S2S3		2	32.8 ± 0.05	NS
N	<i>Dimelaena oreina</i>	Golden Moonglow Lichen			S2S3		3	30.1 ± 0.62	NS
N	<i>Hypotrachyna revoluta</i>	Granulating Loop Lichen			S2S3		1	81.1 ± 0.2	NS
N	<i>Cetraria arenaria</i>	Sand-loving Icelandmoss Lichen			S2S3		13	74.8 ± 0.4	NS
N	<i>Cladonia coccifera</i>	Eastern Boreal Pixie-cup Lichen			S2S3		3	18.0 ± 4.0	NS
N	<i>Cladonia deformis</i>	Lesser Sulphur-cup Lichen			S2S3		3	56.7 ± 4.0	NS
N	<i>Cladonia phyllophora</i>	Felt Lichen			S2S3		2	83.0 ± 4.5	NS
N	<i>Usnea flammnea</i>	Coastal Bushy Beard Lichen			S2S3		3	37.4 ± 0.2	NS
N	<i>Ephemerum serratum</i>	a Moss			S3		5	47.6 ± 5.0	NS
N	<i>Fissidens taxifolius</i>	Yew-leaved Pocket Moss			S3		16	22.9 ± 0.01	NS
N	<i>Anomodon tristis</i>	a Moss			S3		10	48.9 ± 15.0	NS
N	<i>Sphagnum contortum</i>	Twisted Peat Moss			S3		4	51.5 ± 4.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	<i>Tetraplodon angustatus</i>	Toothed-leaved Nitrogen Moss				S3	3	53.4 ± 2.0	NS
N	<i>Rostania occultata</i>	Crusted Tarpaper Lichen				S3	2	89.8 ± 0.2	NS
N	<i>Collema nigrescens</i>	Blistered Tarpaper Lichen				S3	54	1.7 ± 0.2	NS
N	<i>Solorina saccata</i>	Woodland Owl Lichen				S3	11	26.1 ± 2.0	NS
N	<i>Fuscopannaria ahneri</i>	Roughened Shingle Lichen				S3	91	15.7 ± 0.5	NS
N	<i>Scytinium lichenoides</i>	Tattered Jellyskin Lichen				S3	37	22.9 ± 0.01	NS
N	<i>Leptogium miligranum</i>	Stretched Jellyskin Lichen				S3	14	25.2 ± 0.01	NS
N	<i>Nephroma bellum</i>	Naked Kidney Lichen				S3	12	16.8 ± 0.5	NS
N	<i>Placynthium nigrum</i>	Common Ink Lichen				S3	3	45.8 ± 0.2	NS
N	<i>Platismatia norvegica</i>	Oldgrowth Rag Lichen				S3	2	50.7 ± 0.01	NS
N	<i>Punctelia appalachensis</i>	Appalachian Speckleback Lichen				S3	119	72.4 ± 0.2	NS
N	<i>Vinidothermal virens</i>	a lichen				S3	4	20.4 ± 2.0	NS
N	<i>Ephebe lanata</i>	Waterside Rockshag Lichen				S3	6	27.2 ± 17.5	NS
N	<i>Phaeophyscia adiaetola</i>	Powder-tipped Shadow Lichen				S3	1	22.8 ± 0.2	NS
N	<i>Phaeophyscia pusilloides</i>	Pompom-tipped Shadow Lichen				S3	15	18.7 ± 0.01	NS
N	<i>Peltigera collina</i>	Tree Pelt Lichen				S3	10	31.5 ± 0.5	NS
N	<i>Barbula convoluta</i>	Lesser Bird's-claw Beard Moss				S3?	3	20.5 ± 0.2	NS
N	<i>Calliergon giganteum</i>	Giant Spear Moss				S3?	2	35.5 ± 3.0	NS
N	<i>Drummondia prorepens</i>	a Moss				S3?	2	48.8 ± 5.0	NS
N	<i>Elodium blandowii</i>	Blandow's Bog Moss				S3?	6	21.8 ± 7.5	NS
N	<i>Mnium stellare</i>	Star Leafy Moss				S3?	3	39.6 ± 0.01	NS
N	<i>Sphagnum lindbergii</i>	Lindberg's Peat Moss				S3?	1	66.6 ± 0.01	NS
N	<i>Sphagnum riparium</i>	Streamside Peat Moss				S3?	3	29.0 ± 0.2	NS
N	<i>Cladonia stygia</i>	Black-footed Reindeer Lichen				S3?	10	23.0 ± 0.01	NS
N	<i>Anomodon rugelii</i>	Rugel's Anomodon Moss				S3S4	2	77.6 ± 0.6	NS
N	<i>Dichelyma capillaceum</i>	Hairlike Dichelyma Moss				S3S4	3	70.2 ± 1.5	NS
N	<i>Dicranum leioneuron</i>	a Dicranum Moss				S3S4	1	47.4 ± 0.01	NS
N	<i>Encalypta ciliata</i>	Fringed Extinguisher Moss				S3S4	2	77.1 ± 3.0	NS
N	<i>Myurella julacea</i>	Small Mouse-tail Moss				S3S4	1	91.0 ± 0.1	NS
N	<i>Splachnum ampullaceum</i>	Cruet Dung Moss				S3S4	2	36.8 ± 0.01	NS
N	<i>Thamnobryum alleghaniense</i>	a Moss				S3S4	10	64.5 ± 0.2	NS
N	<i>Tomentypnum nitens</i>	Golden Fuzzy Fen Moss				S3S4	4	37.1 ± 0.01	NS
N	<i>Schistidium agassizii</i>	Elf Bloom Moss				S3S4	3	49.2 ± 0.01	NS
N	<i>Hylacomiastrum pyrenaleum</i>	a Feather Moss				S3S4	1	24.3 ± 0.5	NS
N	<i>Lecidea tessellata</i>	Mosaic Tile Lichen				S3S4	2	37.4 ± 0.2	NS
N	<i>Bryoria pseudofuscescens</i>	Mountain Horsehair Lichen				S3S4	5	21.7 ± 5.5	NS
N	<i>Enchylium tenax</i>	Soil Tarpaper Lichen				S3S4	11	26.2 ± 0.31	NS
N	<i>Stictia fuliginosa</i>	Peppered Moon Lichen				S3S4	77	0.9 ± 0.5	NS
N	<i>Arctoparmelia incurva</i>	Finger Ring Lichen				S3S4	105	21.7 ± 0.01	NS
N	<i>Scytinium teretiusculum</i>	Curly Jellyskin Lichen				S3S4	15	25.8 ± 0.44	NS
N	<i>Leptogium acadense</i>	Acadian Jellyskin Lichen				S3S4	64	21.8 ± 0.2	NS
N	<i>Scytinium subtile</i>	Appressed Jellyskin Lichen				S3S4	34	0.8 ± 0.2	NS
N	<i>Felipes leucopellaeus</i>	a lichen				S3S4	1	80.7 ± 0.2	NS
N	<i>Bacidia laurocerasi</i>	a Lichen				S3S4	2	72.4 ± 0.2	NS
N	<i>Cladonia floerkeana</i>	Gritty British Soldiers Lichen				S3S4	4	38.4 ± 0.05	NS
N	<i>Vahlia leucophaea</i>	Shelter Shingle Lichen				S3S4	17	82.3 ± 0.01	NS
N	<i>Heterodermia speciosa</i>	Powdered Fringe Lichen				S3S4	92	23.7 ± 0.01	NS
N	<i>Leptogium corticola</i>	Blistered Jellyskin Lichen				S3S4	101	1.7 ± 0.2	NS
N	<i>Melanohalea olivacea</i>	Spotted Camouflage Lichen				S3S4	2	58.9 ± 0.4	NS
N	<i>Parmeliopsis hyperopta</i>	Gray Starburst Lichen				S3S4	2	74.6 ± 0.5	NS
N	<i>Parmotrema perlatum</i>	Powdered Ruffle Lichen				S3S4	37	27.8 ± 0.2	NS
N	<i>Peltigera hymenina</i>	Cloudy Pelt Lichen				S3S4	2	38.4 ± 2.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity	Rank	# recs	Distance (km)	Prov
N	<i>Sphaerophorus fragilis</i>	Fragile Coral Lichen				S3S4		17	36.6 ± 0.01	NS
N	<i>Coccocarpia palmicola</i>	Salted Shell Lichen				S3S4		670	1.3 ± 0.2	NS
N	<i>Physcia cesia</i>	Blue-gray Rosette Lichen				S3S4		3	41.7 ± 1.0	NS
N	<i>Physcia tenella</i>	Fringed Rosette Lichen				S3S4		7	18.3 ± 0.01	NS
N	<i>Anaptychia palmulata</i>	Shaggy Fringed Lichen				S3S4		209	12.3 ± 0.5	NS
N	<i>Evernia prunastri</i>	Valley Oakmoss Lichen				S3S4		48	30.2 ± 0.01	NS
N	<i>Heterodermia neglecta</i>	Fringe Lichen				S3S4		145	15.2 ± 1.2	NS
P	<i>Juglans cinerea</i>	Butternut	Endangered			SNA		5	20.4 ± 0.2	NS
P	<i>Fraxinus nigra</i>	Black Ash	Threatened		Threatened	S1S2		995	0.3 ± 0.1	NS
P	<i>Clethra alnifolia</i>	Coast Pepper-Bush	Threatened	Threatened	Vulnerable	S2		3	19.8 ± 0.62	NS
P	<i>Liatis spicata</i>	Dense Blazing Star	Threatened	Threatened		SNA		1	19.6 ± 0.2	NS
P	<i>Lophola aurea</i>	Goldcrest	Special Concern	Special Concern		S2		24	97.0 ± 1.0	NS
P	<i>Lilaopsis chinensis</i>	Eastern Lilaopsis	Special Concern	Special Concern	Vulnerable	S3		146	88.2 ± 1.0	NS
P	<i>Isoetes prototypus</i>	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3		13	73.7 ± 0.5	NS
P	<i>Floerkea proserpinacoides</i>	False Mermalweed	Not At Risk			S2S3		38	65.8 ± 7.07	NS
P	<i>Salix candida</i>	Sage Willow			Endangered	S1		1	23.6 ± 0.2	NS
P	<i>Acer saccharinum</i>	Silver Maple				S1		13	49.1 ± 0.2	NS
P	<i>Osmorhiza depauperata</i>	Blunt Sweet Cicely				S1		1	69.0 ± 5.0	NS
P	<i>Andersonglossum boreale</i>	Northern Wild Comfrey				S1		5	41.8 ± 1.6	NS
P	<i>Turritis glabra</i>	Tower Mustard				S1		1	83.2 ± 0.5	NS
P	<i>Lobelia spicata</i>	Pale-Spiked Lobelia				S1		8	58.9 ± 7.07	NS
P	<i>Ribes americanum</i>	Wild Black Currant				S1		4	39.7 ± 3.0	NS
P	<i>Fraxinus pennsylvanica</i>	Red Ash				S1		11	22.0 ± 5.0	NS
P	<i>Persicaria careyi</i>	Carey's Smartweed				S1		1	45.5 ± 3.0	NS
P	<i>Phytolacca americana</i>	Common Pokeweed				S1		4	16.2 ± 0.5	NS
P	<i>Podostemum ceratophyllum</i>	Horn-leaved Riverweed				S1		1	95.7 ± 0.1	NS
P	<i>Monita fontana</i>	Water Blinks				S1		1	24.3 ± 1.0	NS
P	<i>Lysimachia quadrifolia</i>	Whorled Yellow Loosestrife				S1		2	16.1 ± 0.2	NS
P	<i>Ranunculus pennsylvanicus</i>	Pennsylvania Buttercup				S1		5	90.6 ± 0.01	NS
P	<i>Amelanchier nantucketensis</i>	Nantucket Serviceberry				S1		1	87.2 ± 1.0	NS
P	<i>Salix myrtilifolia</i>	Blueberry Willow				S1		1	34.5 ± 0.01	NS
P	<i>Salix serissima</i>	Autumn Willow				S1		2	34.4 ± 0.01	NS
P	<i>Carex digitalis</i>	Slender Wood Sedge				S1		1	96.9 ± 0.2	NS
P	<i>Carex garberi</i>	Garber's Sedge				S1		4	69.9 ± 0.01	NS
P	<i>Carex laxiflora</i>	Loose-Flowered Sedge				S1		2	77.7 ± 1.0	NS
P	<i>Carex ormostachya</i>	Necklace Spike Sedge				S1		1	92.0 ± 5.0	NS
P	<i>Carex plantaginea</i>	Plantain-Leaved Sedge				S1		5	50.3 ± 0.2	NS
P	<i>Carex prairea</i>	Prairie Sedge				S1		2	83.1 ± 1.0	NS
P	<i>Carex viridula</i> var. <i>saxillifloralis</i>	Greenish Sedge				S1		5	67.0 ± 2.0	NS
P	<i>Scirpus atrovirens</i>	Dark-green Bulrush				S1		5	25.0 ± 0.2	NS
P	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush				S1		1	99.4 ± 0.01	NS
P	<i>Iris prismatica</i>	Slender Blue Flag				S1		1	83.6 ± 100.0	NS
P	<i>Sisyrinchium fuscatum</i>	Coastal Plain Blue-eyed-grass				S1		1	94.0 ± 0.1	NS
P	<i>Juncus secundus</i>	Secund Rush				S1		1	87.4 ± 0.1	NS
P	<i>Juncus vaseyi</i>	Vasey Rush				S1		2	70.5 ± 0.02	NS
P	<i>Trillium grandiflorum</i>	White Trillium				S1		3	83.1 ± 1.0	NS
P	<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	North American White Adder's-mouth				S1		6	52.5 ± 0.01	NS
P	<i>Spiranthes casei</i> var. <i>casei</i>	Case's Ladies'-Tresses				S1		1	68.1 ± 0.1	NS
P	<i>Dichantherium xanthophyllum</i>	Slender Panic Grass				S1		10	92.3 ± 1.6	NS
P	<i>Elymus hystrix</i>	Spreading Wild Rye				S1		13	34.6 ± 1.0	NS
P	<i>Adiantum pedatum</i>	Northern Maidenhair Fern				S1		26	26.0 ± 0.3	NS
P	<i>Equisetum palustre</i>	Marsh Horsetail				S1		2	77.6 ± 0.2	NS
P	<i>Botrychium lunaria</i>	Common Moonwort				S1		10	26.8 ± 0.2	NS
P	<i>Selaginella rupestris</i>	Rock Spikemoss				S1		1	40.9 ± 0.01	NS

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P	<i>Solidago hispida</i>	Hairy Goldenrod				S1?	2	21.1 ± 7.07	NS
P	<i>Suaeda rolandii</i>	Roland's Sea-Blite				S1?	5	42.1 ± 2.0	NS
P	<i>Carex pensylvanica</i>	Pennsylvania Sedge				S1?	4	3.6 ± 0.05	NS
P	<i>Allium schoenoprasum</i>	Wild Chives				S1?	8	7.8 ± 0.2	NS
P	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives				S1?	1	62.0 ± 7.07	NS
P	<i>Crocanthemum canadense</i>	Long-branched Frostweed			Endangered	S1S2	2	28.0 ± 1.6	NS
P	<i>Cypripedium arietinum</i>	Ram's-Head Lady's-Slipper			Endangered	S1S2	334	36.8 ± 2.0	NS
P	<i>Sanicula odorata</i>	Clustered Sanicle				S1S2	12	37.3 ± 2.0	NS
P	<i>Draba glabella</i>	Rock Whitlow-Grass				S1S2	2	77.8 ± 0.05	NS
P	<i>Proserpinaca intermedia</i>	Intermediate Mermaidweed				S1S2	2	26.6 ± 0.9	NS
P	<i>Anemone virginiana</i> var. <i>alba</i>	Virginia Anemone				S1S2	5	62.0 ± 7.07	NS
P	<i>Carex haydenii</i>	Hayden's Sedge				S1S2	3	38.8 ± 0.2	NS
P	<i>Platanthera huronensis</i>	Fragrant Green Orchid				S1S2	1	36.1 ± 10.0	NS
P	<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Slim-stemmed Reed Grass				S1S2	1	93.8 ± 7.07	NS
P	<i>Euphrasia farlowii</i>	Farlow's Eyebright				S1S3	2	95.6 ± 0.01	NS
P	<i>Carex vacillans</i>	Estuarine Sedge				S1S3	2	59.8 ± 0.01	NS
P	<i>Zizia aurea</i>	Golden Alexanders				S2	43	19.3 ± 0.2	NS
P	<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's Pussytoes				S2	36	30.9 ± 7.07	NS
P	<i>Rudbeckia laciniata</i>	Cut-Leaved Coneflower				S2	39	23.7 ± 0.2	NS
P	<i>Arabis pycnocarpa</i>	Cream-flowered Rockcress				S2	1	72.6 ± 0.1	NS
P	<i>Cardamine maxima</i>	Large Toothwort				S2	3	69.1 ± 0.2	NS
P	<i>Hudsonia ericoides</i>	Pinebarren Golden Heather				S2	203	21.1 ± 7.07	NS
P	<i>Desmodium canadense</i>	Canada Tick-trefoil				S2	14	61.8 ± 5.0	NS
P	<i>Hydodesmum glutinosum</i>	Large Tick-trefoil				S2	24	37.5 ± 0.01	NS
P	<i>Conopholis americana</i>	American Cancer-root				S2	22	76.4 ± 1.0	NS
P	<i>Anemonastrum canadense</i>	Canada Anemone				S2	15	22.7 ± 0.2	NS
P	<i>Hepatica americana</i>	Round-lobed Hepatica				S2	81	27.0 ± 0.01	NS
P	<i>Ranunculus sceleratus</i>	Cursed Buttercup				S2	25	12.1 ± 0.01	NS
P	<i>Galium boreale</i>	Northern Bedstraw				S2	7	65.9 ± 1.0	NS
P	<i>Gratiola neglecta</i>	Clammy Hedge-Hyssop				S2	6	41.1 ± 0.2	NS
P	<i>Dirca palustris</i>	Eastern Leatherwood				S2	75	18.4 ± 1.0	NS
P	<i>Carex gynocrates</i>	Northern Bog Sedge				S2	2	34.5 ± 0.01	NS
P	<i>Carex pellita</i>	Woolly Sedge				S2	2	57.1 ± 10.0	NS
P	<i>Carex livida</i>	Livid Sedge				S2	13	14.5 ± 0.01	NS
P	<i>Juncus greenii</i>	Greene's Rush				S2	5	22.2 ± 10.0	NS
P	<i>Allium tricoccum</i>	Wild Leek				S2	88	67.8 ± 13.59	NS
P	<i>Lilium canadense</i>	Canada Lily				S2	103	15.8 ± 0.1	NS
P	<i>Cypripedium parviflorum</i> var. <i>pubescens</i>	Yellow Lady's-slipper				S2	28	10.8 ± 7.07	NS
P	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Small Yellow Lady's-Slipper				S2	13	38.7 ± 0.01	NS
P	<i>Cypripedium reginae</i>	Showy Lady's-Slipper				S2	60	32.4 ± 0.1	NS
P	<i>Platanthera flava</i> var. <i>flava</i>	Southern Rein Orchid				S2	2	67.3 ± 7.07	NS
P	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid				S2	11	67.1 ± 1.0	NS
P	<i>Platanthera macrophylla</i>	Large Round-Leaved Orchid				S2	13	53.0 ± 1.0	NS
P	<i>Bromus latiglumis</i>	Broad-Glumed Brome				S2	28	53.9 ± 0.01	NS
P	<i>Cinna arundinacea</i>	Sweet Wood Reed Grass				S2	60	54.1 ± 0.01	NS
P	<i>Elymus wiegandii</i>	Wiegand's Wild Rye				S2	13	21.1 ± 7.07	NS
P	<i>Festuca subverticillata</i>	Nodding Fescue				S2	13	42.0 ± 5.0	NS
P	<i>Piptatheropsis purgens</i>	Slender Ricegrass				S2	2	81.6 ± 10.0	NS
P	<i>Cryptogramma stelleri</i>	Steller's Rockbrake				S2	3	48.2 ± 0.25	NS
P	<i>Cuscuta cephalanthi</i>	Buttonbush Dodder				S2?	1	44.0 ± 0.25	NS
P	<i>Rumex persicarioides</i>	Peach-leaved Dock				S2?	1	60.1 ± 0.01	NS
P	<i>Crataegus submollis</i>	Quebec Hawthorn				S2?	5	18.9 ± 7.07	NS

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P	<i>Carex peckii</i>	White-Tinged Sedge				S2?		4	26.4 ± 0.01	NS
P	<i>Thuja occidentalis</i>	Eastern White Cedar				S2S3		50	23.5 ± 0.01	NS
P	<i>Osmorhiza longistylis</i>	Smooth Sweet Cicely			Vulnerable	S2S3		25	40.0 ± 0.01	NS
P	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane				S2S3		2	57.7 ± 1.0	NS
P	<i>Lactuca hirsuta</i>	Hairy Lettuce				S2S3		3	22.2 ± 7.07	NS
P	<i>Impatiens pallida</i>	Pale Jewelweed				S2S3		3	77.6 ± 1.0	NS
P	<i>Caulophyllum thalictroides</i>	Blue Cohosh				S2S3		99	22.5 ± 0.01	NS
P	<i>Draba arabisans</i>	Rock Whitlow-Grass				S2S3		13	77.7 ± 1.0	NS
P	<i>Boechera stricta</i>	Drummond's Rockcress				S2S3		11	68.3 ± 0.01	NS
P	<i>Stellaria humifusa</i>	Saltmarsh Starwort				S2S3		4	53.5 ± 0.1	NS
P	<i>Oxybasis rubra</i>	Red Goosefoot				S2S3		2	67.0 ± 2.0	NS
P	<i>Hypericum majus</i>	Large St John's-wort				S2S3		18	12.3 ± 0.01	NS
P	<i>Hypericum x dissimulatum</i>	Disguised St. John's-wort				S2S3		6	8.5 ± 0.5	NS
P	<i>Empetrum atropurpureum</i>	Purple Crowberry				S2S3		5	20.9 ± 7.07	NS
P	<i>Euphorbia polygonifolia</i>	Seaside Spurge				S2S3		12	73.7 ± 3.0	NS
P	<i>Myriophyllum farwellii</i>	Farwell's Water Milfoil				S2S3		8	23.7 ± 1.5	NS
P	<i>Hedeoma pulegioides</i>	American False Pennyroyal				S2S3		16	39.1 ± 5.0	NS
P	<i>Oenothera fruticosa</i> ssp. <i>tetragona</i>	Narrow-leaved Evening Primrose				S2S3		8	32.9 ± 7.07	NS
P	<i>Polygala polygama</i>	Racemed Milkwort				S2S3		1	22.2 ± 1.0	NS
P	<i>Polygonum aviculare</i> ssp. <i>buxiforme</i>	Box Knotweed				S2S3		8	47.9 ± 0.5	NS
P	<i>Polygonum oxyspermum</i> ssp. <i>rail</i>	Ray's Knotweed				S2S3		3	56.9 ± 1.0	NS
P	<i>Rumex trianguivalvis</i>	Triangular-valve Dock				S2S3		10	30.3 ± 0.5	NS
P	<i>Primula mistassinica</i>	Mistassini Primrose				S2S3		17	60.9 ± 1.0	NS
P	<i>Anemone quinquefolia</i>	Wood Anemone				S2S3		16	34.4 ± 0.01	NS
P	<i>Caltha palustris</i>	Yellow Marsh Marigold				S2S3		29	6.5 ± 0.25	NS
P	<i>Amelanchier fernaldii</i>	Fernald's Serviceberry				S2S3		1	90.6 ± 7.07	NS
P	<i>Potentilla canadensis</i>	Canada Cinquefoil				S2S3		17	12.7 ± 0.2	NS
P	<i>Salix pellita</i>	Satiny Willow				S2S3		7	39.9 ± 2.0	NS
P	<i>Tiarella stolonifera</i>	Stoloniferous Foamflower				S2S3		235	28.4 ± 0.01	NS
P	<i>Agalinis purpurea</i> var. <i>parviflora</i>	Small-flowered Purple False Foxglove				S2S3		4	77.4 ± 0.2	NS
P	<i>Boehmeria cylindrica</i>	Small-spike False-nettle				S2S3		56	18.1 ± 0.2	NS
P	<i>Carex adusta</i>	Lesser Brown Sedge				S2S3		11	24.0 ± 0.2	NS
P	<i>Carex capillaris</i>	Hairlike Sedge				S2S3		1	80.8 ± 0.02	NS
P	<i>Carex comosa</i>	Bearded Sedge				S2S3		8	44.9 ± 7.07	NS
P	<i>Carex houghtoniana</i>	Houghton's Sedge				S2S3		6	41.3 ± 0.2	NS
P	<i>Carex hystericina</i>	Porcupine Sedge				S2S3		9	15.6 ± 0.33	NS
P	<i>Eleocharis ovata</i>	Ovate Spikerush				S2S3		10	38.7 ± 0.01	NS
P	<i>Scripus pedicellatus</i>	Stalked Bulrush				S2S3		7	19.8 ± 0.01	NS
P	<i>Vallisneria americana</i>	Wild Celery				S2S3		14	24.1 ± 1.2	NS
P	<i>Najas gracillima</i>	Thread-Like Naiad				S2S3		2	30.4 ± 0.45	NS
P	<i>Goodyera pubescens</i>	Downy Rattlesnake-Plantain				S2S3		18	23.4 ± 1.0	NS
P	<i>Spiranthes casei</i> var. <i>novaeae</i>	Case's Ladies'-Tresses				S2S3		1	39.9 ± 0.2	NS
P	<i>Spiranthes lucida</i>	Shining Ladies'-Tresses				S2S3		13	24.2 ± 1.3	NS
P	<i>Potamogeton friesii</i>	Fries' Pondweed				S2S3		10	63.4 ± 5.0	NS
P	<i>Woodsia glabella</i>	Smooth Cliff Fern				S2S3		2	72.0 ± 1.0	NS
P	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Narrow Triangle Moonwort				S2S3		7	41.7 ± 5.0	NS
P	<i>Botrychium simplex</i>	Least Moonwort				S2S3		4	38.4 ± 0.1	NS
P	<i>Ophioglossum pusillum</i>	Northern Adder's-tongue				S2S3		6	10.8 ± 7.07	NS
P	<i>Potamogeton pulcher</i>	Spotted Pondweed			Vulnerable	S3		9	56.8 ± 2.5	NS
P	<i>Angelica atropurpurea</i>	Purple-stemmed Angelica				S3		1	56.5 ± 0.01	NS
P	<i>Conioselinum chinense</i>	Chinese Hemlock-parsley				S3		3	37.9 ± 0.05	NS
P	<i>Hieracium robinsonii</i>	Robinson's Hawkweed				S3		3	60.7 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	SARA	COSEWIC	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Iva frutescens</i>	Big-leaved Marsh-elder			S3		95	40.9 ± 0.01	NS
P	<i>Senecio pseudoarctica</i>	Seabeach Ragwort			S3		32	27.8 ± 1.5	NS
P	<i>Symphotrichum boreale</i>	Boreal Aster			S3		4	62.0 ± 7.07	NS
P	<i>Symphotrichum ciliolatum</i>	Fringed Blue Aster			S3		20	34.2 ± 0.01	NS
P	<i>Symphotrichum undulatum</i>	Wavy-leaved Aster			S3		132	15.4 ± 7.07	NS
P	<i>Alnus serrulata</i>	Smooth Alder			S3		5	94.4 ± 0.01	NS
P	<i>Betula michauxii</i>	Michaux's Dwarf Birch			S3		31	0.7 ± 0.48	NS
P	<i>Betula pumila</i>	Bog Birch			S3		3	32.1 ± 0.01	NS
P	<i>Cardamine parviflora</i>	Small-flowered Bittercress			S3		14	44.2 ± 50.0	NS
P	<i>Palustricodon aparinoides</i>	Marsh Bellflower			S3		28	40.2 ± 1.0	NS
P	<i>Mononeuria groenlandica</i>	Greenland Stitchwort			S3		223	13.3 ± 0.5	NS
P	<i>Sagina nodosa</i>	Knotted Pearlwort			S3		65	25.9 ± 2.5	NS
P	<i>Sagina nodosa ssp. borealis</i>	Knotted Pearlwort			S3		10	44.4 ± 0.63	NS
P	<i>Stellaria longifolia</i>	Long-leaved Starwort			S3		12	30.1 ± 5.0	NS
P	<i>Ceratarophyllum echinatum</i>	Prickly Hornwort			S3		7	57.6 ± 0.01	NS
P	<i>Triosteum aurantiacum</i>	Orange-fruited Tinker's Weed			S3		57	36.8 ± 2.0	NS
P	<i>Viburnum edule</i>	Squashberry			S3		3	93.1 ± 0.01	NS
P	<i>Crassula aquatica</i>	Water Pygmyweed			S3		1	48.5 ± 0.1	NS
P	<i>Empetrum eamesii</i>	Pink Crowberry			S3		94	20.9 ± 7.07	NS
P	<i>Vaccinium uliginosum</i>	Alpine Bilberry			S3		4	36.8 ± 1.0	NS
P	<i>Halenia deflexa</i>	Spurred Gentian			S3		4	45.2 ± 0.01	NS
P	<i>Geranium bicknellii</i>	Bicknell's Crane's-bill			S3		17	15.1 ± 0.1	NS
P	<i>Myriophyllum verticillatum</i>	Whorled Water Milfoil			S3		3	35.6 ± 7.07	NS
P	<i>Epilobium densum</i>	Downy Willowherb			S3		7	41.1 ± 0.01	NS
P	<i>Polygala sanguinea</i>	Blood Milkwort			S3		53	12.4 ± 0.01	NS
P	<i>Persicaria arifolia</i>	Halberd-leaved Tearthumb			S3		23	25.8 ± 0.01	NS
P	<i>Plantago rugelii</i>	Rugel's Plantain			S3		11	21.9 ± 0.1	NS
P	<i>Pimula laurentiana</i>	Laurentian Primrose			S3		22	76.4 ± 7.07	NS
P	<i>Samolus parviflorus</i>	Seaside Brookweed			S3		47	20.5 ± 5.0	NS
P	<i>Pyrola minor</i>	Lesser Pyrola			S3		4	35.2 ± 0.01	NS
P	<i>Anemone virginiana</i>	Virginia Anemone			S3		19	35.7 ± 5.0	NS
P	<i>Cephalanthus occidentalis</i>	Common Buttonbush			S3		9	24.5 ± 0.2	NS
P	<i>Galium labradoricum</i>	Labrador Bedstraw			S3		79	31.8 ± 0.05	NS
P	<i>Salix pedicellaris</i>	Bog Willow			S3		58	28.6 ± 0.05	NS
P	<i>Salix sericea</i>	Silky Willow			S3		124	9.0 ± 1.0	NS
P	<i>Saxifraga paniculata ssp. laestadii</i>	Laestadius' Saxifrage			S3		4	72.1 ± 7.07	NS
P	<i>Lindernia dubia</i>	Yellow-seeded False Pimpernel			S3		31	36.8 ± 0.01	NS
P	<i>Laportea canadensis</i>	Canada Wood Nettle			S3		66	18.3 ± 0.01	NS
P	<i>Pilea pumila</i>	Dwarf Clearweed			S3		9	18.2 ± 0.2	NS
P	<i>Viola nephrophylla</i>	Northern Bog Violet			S3		8	38.3 ± 1.5	NS
P	<i>Carex bebbii</i>	Bebb's Sedge			S3		25	38.7 ± 0.01	NS
P	<i>Carex castanea</i>	Chestnut Sedge			S3		39	31.8 ± 0.01	NS
P	<i>Carex cryptolepis</i>	Hidden-scaled Sedge			S3		14	8.4 ± 6.5	NS
P	<i>Carex eburnea</i>	Bristle-leaved Sedge			S3		16	22.9 ± 0.01	NS
P	<i>Carex hirtifolia</i>	Pubescent Sedge			S3		51	28.9 ± 7.5	NS
P	<i>Carex lupulina</i>	Hop Sedge			S3		67	8.4 ± 6.7	NS
P	<i>Carex rosea</i>	Rosy Sedge			S3		47	36.0 ± 1.0	NS
P	<i>Carex swanii</i>	Swan's Sedge			S3		4	14.4 ± 0.2	NS
P	<i>Carex tenera</i>	Tender Sedge			S3		11	36.8 ± 0.1	NS
P	<i>Carex tribuloides</i>	Blunt Broom Sedge			S3		14	27.5 ± 0.01	NS
P	<i>Carex tuckermanni</i>	Tuckerman's Sedge			S3		37	36.5 ± 0.01	NS
P	<i>Carex atratiformis</i>	Scabrous Black Sedge			S3		3	84.8 ± 0.1	NS
P	<i>Eleocharis nitida</i>	Quill Spikerush			S3		11	30.0 ± 5.0	NS
P	<i>Eleocharis flavescens var. olivacea</i>	Bright-green Spikerush			S3		6	11.7 ± 0.25	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Eriophorum gracile</i>	Slender Cottongrass			S3		7	28.6 ± 7.07	NS
P	<i>Coeloglossum viride</i>	Long-bracted Frog Orchid			S3		13	66.6 ± 1.0	NS
P	<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper			S3		590	20.2 ± 0.2	NS
P	<i>Neottia bifolia</i>	Southern Twayblade			S3		174	3.1 ± 0.05	NS
P	<i>Platanthera flava</i>	Southern Rein-Orchid			S3		32	91.6 ± 0.01	NS
P	<i>Platanthera grandiflora</i>	Large Purple Fringed Orchid			S3		155	16.3 ± 0.34	NS
P	<i>Platanthera hookeri</i>	Hooker's Orchid			S3		34	37.5 ± 0.01	NS
P	<i>Dichantherium linearifolium</i>	Narrow-leaved Panic Grass			S3		7	44.9 ± 7.07	NS
P	<i>Piptatheropsis canadensis</i>	Canada Ricegrass			S3		8	9.4 ± 1.0	NS
P	<i>Poa glauca</i>	Glaucous Blue Grass			S3		8	37.5 ± 1.0	NS
P	<i>Potamogeton praelongus</i>	White-stemmed Pondweed			S3		6	49.6 ± 5.0	NS
P	<i>Potamogeton richardsonii</i>	Richardson's Pondweed			S3		8	37.9 ± 0.01	NS
P	<i>Potamogeton zosteriformis</i>	Flat-stemmed Pondweed			S3		16	26.1 ± 0.85	NS
P	<i>Asplenium viride</i>	Green Spleenwort			S3		12	71.6 ± 7.07	NS
P	<i>Dryopteris fragrans</i>	Fragrant Wood Fern			S3		16	72.5 ± 1.0	NS
P	<i>Sceptridium dissectum</i>	Dissected Moonwort			S3		8	72.1 ± 0.01	NS
P	<i>Polypodium appalachianum</i>	Appalachian Polypody			S3		24	14.5 ± 0.01	NS
P	<i>Persicaria amphibia</i> var. <i>emersa</i>	Long-root Smartweed			S3?		19	19.8 ± 0.01	NS
P	<i>Spiranthes ochroleuca</i>	Yellow Ladies'-tresses			S3?		44	24.4 ± 0.2	NS
P	<i>Diphysastrum x sabinifolium</i>	Savin-leaved Ground-cedar			S3?		6	62.1 ± 0.1	NS
P	<i>Bidens vulgata</i>	Tall Beggarticks			S3S4		8	20.8 ± 0.2	NS
P	<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane			S3S4		25	41.4 ± 0.01	NS
P	<i>Hieracium paniculatum</i>	Panicled Hawkweed			S3S4		34	42.5 ± 11.0	NS
P	<i>Bidens beckii</i>	Water Beggarticks			S3S4		12	26.1 ± 0.5	NS
P	<i>Packera paupercula</i>	Balsam Groundsel			S3S4		110	33.6 ± 0.01	NS
P	<i>Atriplex glabriuscula</i> var. <i>franktonii</i>	Frankton's Saltbush			S3S4		13	48.6 ± 0.01	NS
P	<i>Shepherdia canadensis</i>	Soapberry			S3S4		113	32.0 ± 7.07	NS
P	<i>Vaccinium boreale</i>	Northern Blueberry			S3S4		3	45.1 ± 0.01	NS
P	<i>Vaccinium cespitosum</i>	Dwarf Bilberry			S3S4		76	30.8 ± 0.01	NS
P	<i>Vaccinium corymbosum</i>	Highbush Blueberry			S3S4		12	12.2 ± 0.01	NS
P	<i>Fagus grandifolia</i>	American Beech			S3S4		1020	3.0 ± 0.2	NS
P	<i>Bartonia virginica</i>	Yellow Bartonia			S3S4		26	9.0 ± 7.07	NS
P	<i>Proserpinaca pectinata</i>	Comb-leaved Mermaidweed			S3S4		15	20.0 ± 1.5	NS
P	<i>Decodon verticillatus</i>	Swamp Loosestrife			S3S4		4	49.0 ± 0.2	NS
P	<i>Nuphar microphylla</i>	Small Yellow Pond-lily			S3S4		4	26.1 ± 0.01	NS
P	<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed			S3S4		35	18.9 ± 7.07	NS
P	<i>Fallopia scandens</i>	Climbing False Buckwheat			S3S4		25	23.0 ± 0.43	NS
P	<i>Rumex pallicus</i>	Seabeach Dock			S3S4		1	36.4 ± 0.01	NS
P	<i>Pyrola asarifolia</i>	Pink Pyrola			S3S4		11	28.5 ± 50.0	NS
P	<i>Endotropis alnifolia</i>	Alder-leaved Buckthorn			S3S4		289	18.4 ± 0.01	NS
P	<i>Amelanchier spicata</i>	Running Serviceberry			S3S4		45	23.6 ± 0.01	NS
P	<i>Crataegus succulenta</i>	Fleshy Hawthorn			S3S4		1	12.7 ± 0.01	NS
P	<i>Fragaria vesca</i> ssp. <i>americana</i>	Woodland Strawberry			S3S4		68	18.9 ± 0.01	NS
P	<i>Fragaria vesca</i>	Woodland Strawberry			S3S4		7	22.7 ± 0.2	NS
P	<i>Galium aparine</i>	Common Bedstraw			S3S4		53	23.7 ± 0.08	NS
P	<i>Geocaldon lividum</i>	Northern Comandra			S3S4		6	44.1 ± 0.01	NS
P	<i>Limosella australis</i>	Southern Mudwort			S3S4		8	26.0 ± 3.5	NS
P	<i>Ulmus americana</i>	White Elm			S3S4		111	18.0 ± 0.07	NS
P	<i>Verbena hastata</i>	Blue Vervain			S3S4		280	15.7 ± 0.2	NS
P	<i>Viola sagittata</i> var. <i>ovata</i>	Arrow-Leaved Violet			S3S4		39	13.7 ± 0.01	NS
P	<i>Viola selkirkii</i>	Great-Spurred Violet			S3S4		5	32.1 ± 4.8	NS
P	<i>Symplocarpus foetidus</i>	Eastern Skunk Cabbage			S3S4		10	20.5 ± 0.2	NS
P	<i>Carex argyrantha</i>	Silvery-flowered Sedge			S3S4		9	51.8 ± 1.5	NS
P	<i>Sisyrinchium atlanticum</i>	Eastern Blue-Eyed-Grass			S3S4		4	76.6 ± 0.8	NS
P	<i>Triglochin gaspensis</i>	Gaspé Arrowgrass			S3S4		29	45.2 ± 0.01	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	<i>Juncus acuminatus</i>	Sharp-Fruit Rush			S3S4		5	12.4 ± 0.01	NS
P	<i>Juncus subcaudatus</i>	Woods-Rush			S3S4		23	21.0 ± 1.5	NS
P	<i>Luzula parviflora</i> ssp. <i>melanocarpa</i>	Black-fruited Woodrush			S3S4		2	67.2 ± 0.01	NS
P	<i>Goodyera repens</i>	Lesser Rattlesnake-plantain			S3S4		8	47.4 ± 0.01	NS
P	<i>Liparis loeselii</i>	Loesel's Twayblade			S3S4		8	0.3 ± 5.0	NS
P	<i>Platanthera obtusata</i>	Blunt-leaved Orchid			S3S4		8	21.1 ± 10.0	NS
P	<i>Platanthera orbiculata</i>	Small Round-leaved Orchid			S3S4		26	32.1 ± 4.8	NS
P	<i>Alopecurus aequalis</i>	Short-awned Foxtail			S3S4		18	23.8 ± 0.01	NS
P	<i>Dichanthelium clandestinum</i>	Deer-tongue Panic Grass			S3S4		306	13.5 ± 0.5	NS
P	<i>Panicum philadelphicum</i>	Philadelphian Panicgrass			S3S4		9	36.8 ± 0.01	NS
P	<i>Koeleria spicata</i>	Narrow False Oats			S3S4		16	37.4 ± 1.5	NS
P	<i>Asplenium trichomanes</i>	Maidenhair Spleenwort			S3S4		15	64.2 ± 0.85	NS
P	<i>Equisetum pratense</i>	Meadow Horsetail			S3S4		16	37.6 ± 0.01	NS
P	<i>Diphasiasium complanatum</i>	Northern Ground-cedar			S3S4		17	20.7 ± 1.0	NS
P	<i>Diphasiasium sitchense</i>	Sitka Ground-cedar			S3S4		2	69.0 ± 1.0	NS
P	<i>Huperzia appressa</i>	Mountain Firmoss			S3S4		18	48.9 ± 7.07	NS
P	<i>Sceptridium multifidum</i>	Leathery Moonwort			S3S4		10	40.0 ± 10.0	NS
P	<i>Botrychium matricarifolium</i>	Daisy-leaved Moonwort			S3S4		7	26.9 ± 0.2	NS
P	<i>Viola canadensis</i>	Canada Violet			SH		2	44.5 ± 0.75	NS
P	<i>Greeneochloa coarctata</i>	Small Reedgrass			SH		1	24.1 ± 6.0	NS

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The recipient of these data shall acknowledge the AC CDC 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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93		Blaney, C.S. 2020. Sean Blaney 2020 field data. Atlantic Canada Conservation Data Centre, 4407 records.
92		Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press, 280 pp+plates.
90		Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
90		Richardson, Lef. 2018. Maritimes Bombus records from various sources. Richardson, Lef.
87		McNeill, J.A. 2018. Wood Turtle records, 2018. Mersey Tobateac Research Institute, 68 recs.
87		Mersey Tobateac Research Institute. 2023. NS Blanding's Turtle GPS Logger Data. MTRI, 87 recs.
84		Hubley, Nicole. 2022. Monarch (Danaus plexippus) records submitted to MTRI from the 2021 field season. Mersey Tobateac Research Institute.
83		Breen, A. 2019. 2019 Atlantic Whitefish observations. Coastal Action, 95 recs.
76		Birds Canada. 2022. Maritimes Swiftwatch project data for 2022. Pers. comm., 155 records.
76		Roland, A.E. & Smith, E.C. 1969. The Flora of Nova Scotia, 1st Ed. Nova Scotia Museum, Halifax, 743pp.
75		Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
74		Belland, R.J. Maritimes moss records from various herbarium databases. 2014.
74		Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.
73		Byrson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
72		Manthorne, A. 2014. MaritimesSwiftwatch Project database 2013-2014. Bird Studies Canada, Sackville NB, 326 recs.
72		Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
68		Byrson, Ian. 2024. Nova Scotia vascular and non-vascular flora observations Sept 2023-Oct 2024. Fraxinus Environmental & Geomatics, 10882 records.
67		Toms, Brad & Pepper, Chris; Neily, Tom. 2022. Nova Scotia lichen database [as of 2022-04]. Mersey Tobateac Research Institute.

#	recs	CITATION
66		Birds Canada. 2024. Chimney swift observations 2024. Birds Canada, 220 records.
66		Klymko, John. 2024. Atlantic Canada Conservation Data Centre zoological fieldwork 2023. Atlantic Canada Conservation Data Centre.
65		Belliveau, A.G. 2014. Plant Records from Southern and Central Nova Scotia. Atlantic Canada Conservation Data Centre, 919 recs.
65		Driscoll, Kendra. Lichen specimens from Atlantic Canada. New Brunswick Museum, 2023.
65		Staicer, Cindy. 2023. SAR Bird field occurrences from the Landbirds at Risk Project, NS. Dalhousie University, 446 records.
64		Staicer, C. & Bliss, S. : Achenbach, L. 2017. Occurrences of tracked breeding birds in forested wetlands. , 303 records.
63		Brooks, Fiona. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
63		Staicer, Cindy. 2023. SAR Bird ARU occurrences. Dalhousie University, 379 records.
60		Belliveau, A.G. 2018. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2018. E.C. Smith Herbarium, 6226 recs.
60		Coastal Action. 2024. SAR records from 2022. Coastal Action, 87 records.
60		iNaturalist. 2020. iNaturalist butterfly records selected for the Maritimes Butterfly Atlas. iNaturalist.
55		LaPaix, R.W.; Crowell, M.J.; MacDonald, M.; Neely, T.D.; Quinn, G. 2017. Stantec Nova Scotia rare plant records, 2012-2016. Stantec Consulting.
54		Belliveau, A.G. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 10695 recs.
54		Canadian Wildlife Health Cooperative. 2024. Atlantic Canada Bat Hotline data from NS and PE. Atlantic Bat Conservation Project.
53		Churchill, J.L. 2020. Atlantic Canada Conservation Data Centre Fieldwork 2020. Atlantic Canada Conservation Data Centre, 1083 recs.
50		Mersey Tobetic Research Institute. 2023. 2023 Wood Turtle Records - Volunteer Collection. Mersey Tobetic Research Institute, 50 recs.
48		NatureServe Canada. 2019. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
47		Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
47		Jessica Ferguson. 2023. SAR observations for Clean Annapolis River Project - 2020-2023. Clean Annapolis River Project (CARP).
47		Mersey Tobetic Research Institute. 2022. Bat data from Bat Hotline from 2020-2022. Toms, Brad (ed.) Mersey Tobetic Research Institute, 85 records.
45		Feltham, Carter. 2022. Monarch (Danaus plexippus) and Milkweed MTRl records from the 2022 Field Season. Mersey Tobetic Research Institute.
42		Brazner, John. 2022. Clearcut Transect Study. Nova Scotia Department of Natural Resources and Renewables Wildlife Division.
42		Stewart, J.I. 2010. Peregrine Falcon Surveys in New Brunswick, 2002-09. Canadian Wildlife Service, Sackville, 58 recs.
41		Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
41		Brooks, Fiona. 2024. Field data - 2024. Atlantic Canada Conservation Data Centre.
41		Porter, C.J.M. 2014. Field work data 2007-2014. Nova Scotia Nature Trust, 96 recs.
40		Blaney, C.S.; Spicer, C.D.; Rothfels, C. 2004. Fieldwork 2004. Atlantic Canada Conservation Data Centre. Sackville NB, 1343 recs.
40		Cameron, E. 2007. Canadian Gypsum Co. survey 2005-07. Dillon Consulting Ltd, 40 recs.
40		Neely, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobetic Research Institute, 1691 records.
40		Neely, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobetic Research Institute.
39		Birds Canada. 2023. NatureCounts Bank Swallow Data. Birds Canada, 464 recs.
39		Blaney, C.S.; Spicer, C.D.; Popma, T.M.; Hanel, C. 2002. Fieldwork 2002. Atlantic Canada Conservation Data Centre. Sackville NB, 2252 recs.
39		Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRl monitoring program. Mersey Tobetic Research Institute, 72 records.
38		Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
38		Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
37		Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
37		Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
36		Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre, 2318 recs.
36		Hall, R.A. 2001. S. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
35		McCallum Environmental Ltd. 2022. Walden Quarry Expansion EASAR survey. McCallum Environmental Ltd, 35 records.
34		Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources, 2014.
34		Tsehtik, M.; Leblanc, M.; Creaser, T. 2020. Coastal Action: 2020 Species at Risk Data. Coastal Action, 40 records.
33		Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
33		Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
33		Mazerolle, D.M. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
32		English, M. 2024. Colonial Waterbird Database. Canadian Wildlife Service.
32		Patrick, A.; Horne, D.; Noseworthy, J. et. al. 2017. Field data for Nova Scotia and New Brunswick, 2015 and 2017. Nature Conservancy of Canada.
31		Blaney, C.S.; Mazerolle, D.M.; Hill, N.M. 2011. Nova Scotia Crown Share Land Legacy Trust Fieldwork. Atlantic Canada Conservation Data Centre, 5022 recs.
31		Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
30		Neely, T.H. 2019. Tom Neely NS Bryophyte records (2009-2013). T.H. Neely, Atlantic Canada Conservation Data Centre, 1029 specimen records.
30		Taylor, A.D., Ohashi, K., Sheng, J., Litvak, M. K. 2016. Oceanic Distribution, Behaviour, and a Winter Aggregation Area of Adult Atlantic Sturgeon, <i>Acipenser oxyrinchus oxyrinchus</i> , in the Bay of Fundy, Canada. PLoS One, 11(4), e0152470. doi:10.1371/journal.pone.0152470.
29		Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
28		Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
28		Brazner, John; MacKinnon, Frances. 2020. Relative conservation value of Nova Scotia's forests: forested wetlands as avian biodiversity hotspots. Canadian Journal of Forest Research, 50(12): 1307-1322. dx.doi.org/10.1139/cjfr-2020-0101.
28		Mersey Tobetic Research Institute. 2023. NS Turtle Records, Mersey Tobetic Research Institute, 214 recs.
28		Pepper, Chris. 2012. Observations of breeding Canada Warbler's along the Eastern Shore, NS. Pers. comm. to S. Blaney, Jan. 20, 28 recs.

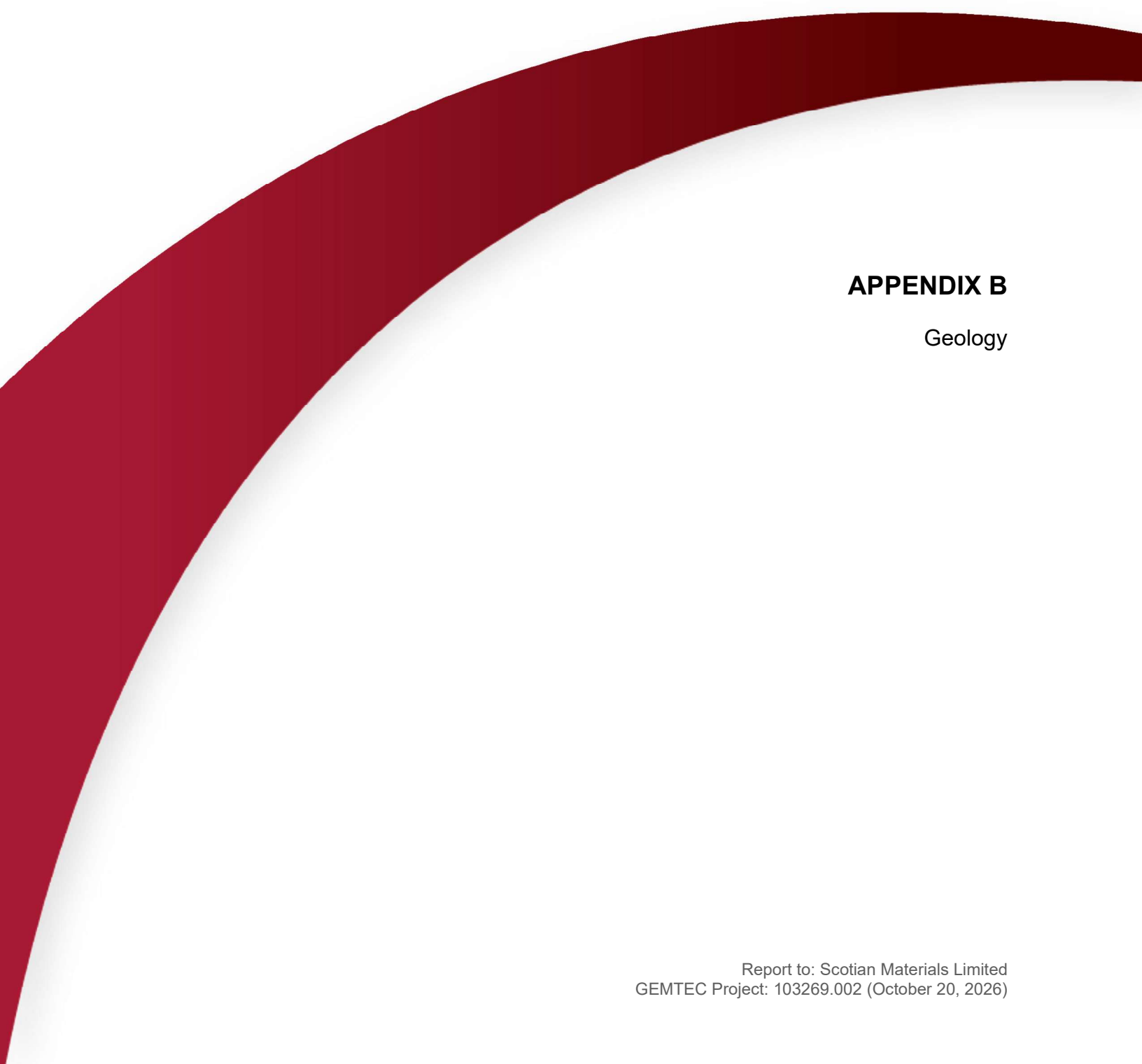
#	recs	CITATION
28		Westwood, A., Staicer, C. 2016. Nova Scotia landbird Species at Risk observations. Dalhousie University.
27		Chapman, C.J. 2019. Atlantic Canada Conservation Data Centre 2019 botanical fieldwork. Atlantic Canada Conservation Data Centre, 11729 recs.
26		Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
26		Neily, T.H. 2013. Email communication to Sean Blaney regarding <i>Listera australis</i> observations made from 2007 to 2011 in Nova Scotia. , 50.
26		Porter, Caitlin. 2021. Field data for 2020 in various locations across the Maritimes. Atlantic Canada Conservation Data Centre, 3977 records.
24		Belliveau, A.G. 2021. New Black ash site records near Kentville, NS. Acadia University, 47 records.
23		Ferguson, D.C. 1954. The Lepidoptera of Nova Scotia. Part I, macrolepidoptera. Proceedings of the Nova Scotian Institute of Science, 23(3), 161-375.
23		LaPaix, Rich. 2022. Rare species observations, 2018-2022. Nova Scotia Nature Trust.
22		Belliveau, A. 2013. Rare species records from Nova Scotia. Mersey Tobateac Research Institute, 296 records. 296 recs.
22		Liv Monck-Whipp. 2024. Incidental observations from Nova Scotia Nature Trust 2024 field season. Nova Scotia Nature Trust.
22		Nelly, T.H. 2006. <i>Cypripedium arietinum</i> in Hants Co. Pers. comm. to C.S. Blaney, 22 recs, 22 recs.
22		NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
21		Chapman-Lam, C.J. 2022. Atlantic Canada Conservation Data Centre 2021 botanical fieldwork. Atlantic Canada Conservation Data Centre, 15099 recs.
20		Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
20		Blaney, C.S.; Spicer, C.D. 2001. Fieldwork 2001. Atlantic Canada Conservation Data Centre. Sackville NB, 981 recs.
20		Cole Vail. 2023 Lichen Observations. C.Vail, 23 recs.
20		Crowell, Iain & Crowell, Iain. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
19		Breen, A. 2018. 2018 Atlantic Whitefish observations. Coastal Action.
19		Hill, N.M. 1994. Status report on the Long's bulrush <i>Scirpus longii</i> in Canada. Committee on the Status of Endangered Wildlife in Canada, 7 recs.
19		McNeil, J.A. 2016. Blandings Turtle (<i>Emydoidea blandingii</i>), Eastern Ribbonsnake (<i>Thamnophis sauritus</i>), and Snapping Turtle (<i>Chelydra serpentina</i>) sightings, 2016. Mersey Tobateac Research Institute, 774 records.
19		Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
19		Robinson, S.L. 2014. 2013 Field Data. Atlantic Canada Conservation Data Centre.
19		Siemens-Worsley, Allison. 2024. Inaturalist Wood Turtle observations for New Brunswick and Nova Scotia. NatureServe Canada.
18		Powell, B.C. 1967. Female sexual cycles of <i>Chrysemys spida</i> & <i>Clemmys insculpta</i> in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
18		Richardson, D., Anderson, F., Cameron, R., McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (<i>Anzia colpododes</i>). COSEWIC.
17		Anderson, Frances; Neily, Tom. 2010. A Reconnaissance Level Survey of Calciphilous Lichens in Selected Karst Topography in Nova Scotia with Notes on Incidental Bryophytes. Mersey Tobateac Research Institute.
17		Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
17		MacDonald, E.C. 2018. CWS Piping Plover Census, 2010-2017. Canadian Wildlife Service, 672 recs.
17		Nelly, T.H. 2010. <i>Erioderma pedicellatum</i> records 2005-09. Mersey Tobateac Research Institute, 67 recs.
16		Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
16		McNeil, Jeffie. 2023. 2022 Turtle Records. Mersey Tobateac Research Institute.
16		Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
16		Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
15		Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
15		Basquill, S.P. 2011 vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
15		Cameron, R.P. 2012. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
15		Klymko, J.J.D. 2012. Insect fieldwork & submissions. 2011. Atlantic Canada Conservation Data Centre, Sackville NB, 760 recs.
15		Nelly, T.H. & Pepper, C. 2020. Nova Scotia SMP lichen surveys 2020. Mersey Tobateac Research Institute.
14		e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larivee, Sambo Zhang (ed.) e-butterfly.org.
14		Klymko, J.J.D. 2018. 2017 field data. Atlantic Canada Conservation Data Centre.
13		Holder, M. 2003. Assessment and update status report on the Eastern <i>Lilaopsis</i> (<i>Lilaopsis chinensis</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 16 recs.
13		Nelly, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobateac Research Institute, 668 recs.
13		Nelly, T.H. 2012. 2012 <i>Erioderma pedicellatum</i> records in Nova Scotia
13		Nova Scotia Nature Trust. 2014. Ladyship records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
13		Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
13		Robinson, S.L. 2015. 2014 field data.
13		Toms, Brad. 2024. MTRI lichens database. Mersey Tobateac Research Institute, 170 records.
12		Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
12		Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
12		Canadian Wildlife Service, Dartmouth. 2010. Piping Plover censuses 2007-09. 304 recs.
12		Skomrowski, Joanna. 2024. 2022 Nova Scotia Nature Trust SAR occurrences. Nova Scotia Nature Trust, 58 records.
11		Churchill, James. 2024. NCC and NSNT records from 2024 field season. Lobaria Consulting, 2497 recs.
11		Korol, Burke. 2023. Field data - 2023. Atlantic Canada Conservation Data Centre.
11		Richardson, D., Anderson, F., Cameron, R., Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (<i>Pannaria lurida</i>). COSEWIC.
10		Belliveau, A.G. & Vail, Cole; King, Katie. 2020. New Allium tricornutum locations, Cornwallis River. Chapman, C.J. (ed.) Acadia University.
10		Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
10		Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centre, 30 recs.
10		Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.

#	recs	CITATION
10		Churchill, J.L.; Walker, J. 2017. Species at Risk Surveys at Correctional Services Canada Properties in Nova Scotia and New Brunswick. Atlantic Canada Conservation Data Centre.
10		Gillhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.
10		Goltz, J.P. & Bishop, G. 2005. Confidential supplement to Status Report on Prototype Quillwort (<i>Isoetes prototypus</i>). Committee on the Status of Endangered Wildlife in Canada, 111 recs.
10		Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
9		Benjamin, L.K. 2006. <i>Cyrtopodium arietinum</i> . Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
9		Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
9		Cameron, R.P. 2005. <i>Erioderma pedicellatum</i> unpublished data. NS Dept of Environment, 9 recs.
9		Cameron, R.P. 2006. <i>Erioderma pedicellatum</i> 2006 field data. NS Dept of Environment, 9 recs.
9		Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.
9		Mersey Tobeatic Research Institute. 2023. Monarch (<i>Danaus plexippus</i>) and Milkweed MTRi records from the 2023 Field Season. Mersey Tobeatic Research Institute.
8		Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of <i>C. insculpta</i> sightings. Acadia University, Wolfville NS. 88 recs.
8		Chapman, C.N. (Cody). 2020. Nova Scotia Black Ash (<i>Fraxinus nigra</i>) field observations by Confederacy of Mainland Mi'kmaq, Forestry Program, Confederacy of Mainland Mi'kmaq.
8		King, Katie; Jean, Samuel. 2021. Black ash observations near Booklyn, NS. E.C. Smith Herbarium.
8		Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
8		McNeil, J.A. 2014. Blandings Turtle (<i>Emydoidea blandingii</i>) and Snapping Turtle (<i>Chelydra serpentina</i>) sightings, 2014. Mersey Tobeatic Research Institute.
8		Mersey Tobeatic Research Institute. 2024. Barn swallow records from volunteers. Pers. comm., 16 records.
8		Neily, T.H. & Anderson, F. 2011. Lichen observations from NRC site at Sandy Cove. , 97.
8		Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (<i>Riparia riparia</i>) in Nova Scotia: inventory and assessment of colonies. Mersey Tobeatic Research Institute, 25 recs.
8		Sollows, M.C., 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008. 4983 recs.
8		Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
7		Basquill, S.P. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre, Sackville NB, 69 recs.
7		Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
7		Cameron, B. 2006. Hepatica hydrothyrta records from Carter's Brook, NS in September 2024. Atlantic Canada Conservation Data Centre, 31 records.
7		Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
7		Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
7		MacDonald, E.C. 2018. Piping Plover nest records from 2010-2017. Canadian Wildlife Service.
6		Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
6		Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Awns, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
6		Blaney, C.S.; Kordl, J.B.; Crowell, I. 2023. 2022 AC CDC Botany program field data. Atlantic Canada Conservation Data Centre, 5293 records.
6		Brazner, J.; Hill, N. 2018. Plant observations along the Cornwallis River, Nova Scotia. Nova Scotia Department of Lands and Forestry.
6		Brooks, Fiona. 2024. SAR observations for Nova Scotia from June and July 2024. Atlantic Canada Conservation Data Centre, 106 records.
6		Canadian National Collection of Insects Arachnids, and Nematodes Bombus specimen database export. Government of Canada. 2022.
6		Clayden, S.R. 2005. Confidential supplement to Status Report on Ghost Antler Lichen (<i>Pseudevernia cladonia</i>). Committee on the Status of Endangered Wildlife in Canada, 27 recs.
6		Gallop, John. 2021. Sheet Harbour rare lichen observations. McCallum Environmental
6		Hall, R. 2008. Rare plant records in old fieldbook notes from Truro area. Pers. comm. to C.S. Blaney. 6 recs, 6 recs.
6		Klymko, J.J.D. 2012. Odonata specimens & observations. 2010. Atlantic Canada Conservation Data Centre, 425 recs.
6		Matthew Smith. 2010. Field trip report from Avon Caving Club outlining the discovery of <i>Cyrtopodium arietinum</i> and <i>Hepatica nobilis</i> populations. Public Works and Government Services Canada.
6		Mazerolle, D.M. 2020. Atlantic Canada Conservation Data Centre botanical fieldwork 2019. Atlantic Canada Conservation Data Centre.
6		McNeill, Jeff. 2023. Ribbonsnake records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
6		Neily, T.H. Tom Neily NS Sphagnum records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
6		Nova Scotia Nature Trust. 2022. Ram's Head Lady Slipper observations from 2015 and 2019. , 6 records.
6		Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
6		White, S. 2019. Notable species sightings. 2018. East Coast Aquatics.
6		Whittam, R.M. 1999. Status Report on the Roseate Tern (update) in Canada. Committee on the Status of Endangered Wildlife in Canada, 36 recs.
5		Brad Toms. 2024. <i>Erioderma mollissimum</i> records. Mersey Tobeatic Research Institute, 57 recs.
5		Brooks, Fiona. 2024. <i>Peltigera hydrothyrta</i> in Dalhousie, NS. Atlantic Canada Conservation Data Centre, 5 records.
5		Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
5		Carter, Jeff; Churchill, J.; Churchill, L. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5		Holder, M.L.; Kingsley, A.L. 2000. Kingsley and Holder observations from 2000 field work.
5		Hughes, Cory. 2020. Atlantic Forestry Centre <i>Coccinella transversoguttata</i> collections. Canadian Forest Service, Atlantic Forestry Centre.
5		McNeil, J.A. 2019. Snapping Turtle records, 2019. Mersey Tobeatic Research Institute.
5		McNeil, J.A. 2020. Snapping Turtle and Eastern Painted Turtle records, 2020. Mersey Tobeatic Research Institute.
5		O'Neil, S. 1998. Atlantic Salmon: Northernland Strait Nova Scotia part of SFA 18. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-08. 9 recs.
5		Pohl, G.P. Specimen data from Northern Forest Research Centre. Northern Forest Research Centre. 2022.
5		Porter, K. 2013. 2013 rare and non-rare vascular plant field data. St. Mary's University, 57 recs.
5		Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5		Walker, J. 2017. Bird inventories at French River, NS, and Memramcook, NB, for Nature Conservancy of Canada. Pers. comm. to AC CDC.
4		Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.

#	recs	CITATION
4		Blaney, C.S.; Mazerolle, D.M. 2009. Fieldwork 2009. Atlantic Canada Conservation Data Centre. Sackville NB, 13395 recs.
4		Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
4		Calder, D.R., J.S. Bleakney. 1967. Observations on Frenchman's Cave, Nova Scotia, and Its Fauna. National Speleological Society Bulletin, 29: 23-25.
4		Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 recs.
4		Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
4		Cody, W.J. 2003. Nova Scotia specimens of Equisetum pratense at the DAO herbarium in Ottawa. , Pers. comm. to C.S. Blaney. 4 recs.
4		Forsythe, B. 2006. Cyripedium arietinum at Meadow Pond, Hants Co. Pers. comm. to C.S. Blaney. 4 recs, 4 recs.
4		Hennigar, Briana; Gow, Jonas. 2023. Bank Swallow Nesting Site in Waterville. The Jijuku kwejk Watershed Alliance.
4		Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
4		Mazerolle, D.M. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
4		Mills, Pamela. 2007. Iva frutescens records. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to S. Basquill, 4 recs.
4		Newell, R. & Neely, T.; Tonn, B.; Proulx, G. et al. 2011. NCC Properties Fieldwork in NS: August-September 2010. Nature Conservancy Canada, 106 recs.
4		Popma, T.M. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 113 recs.
4		Sabine, D.L. Bombus terricola specimens in Dwayne Sabine's personal collection. pers. comm. 2022.
3		Bagnell, B.A. 2001. New Brunswick Bryophyte Occurrences. B&B Botanical, Sussex, 478 recs.
3		Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
3		Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources. 143 recs.
3		Brooks, Fiona. 2024. Black Foam Lichen Observations, Mahone Bay Park Cemetery. Atlantic Canada Conservation Data Centre, 3 recs.
3		Cameron-MacMillan, Maureen. 2020. Northern Goshawk Nests in Eastern Nova Scotia, as of November, 2020. Nova Scotia Department of Lands and Forestry.
3		Chapman, Cody. Unreported Species at Risk Records across Nova Scotia. Chapman, Cody, 5 records.
3		Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
3		Doubt, J. 2013. Email to Sean Blaney with Nova Scotia records of Fissidens exilis at Canadian Museum of Nature. pers. comm., 3 records.
3		Haughian, S.R. 2018. Description of Fuscopannaria leucosticta field work in 2017. New Brunswick Museum, 314 recs.
3		Hill, N. and D. Patriquin. 2013. 2013 rare plant observations in Williams Lake Backlands area. Fern Hill Institute of Plant Conservation, Berwick, Nova Scotia, 3 records.
3		Korol, J. Burke. 2025. Field data from Maritime Canada for the 2024 field season. Atlantic Canada Conservation Data Centre, 8125 records.
3		McLean, K. 2020. Species occurrence records from Clean Annapolis River Project fieldwork in 2020. Clean Annapolis River Project, 206 records.
3		McNeil, Jeffie. 2022. Ribbonsnake records, 2021. Mersey Tobetic Research Institute.
3		Nova Scotia Department of Lands and Forestry. 2018. Wood Turtle observations in, or near, the cornwallis River watershed. NS DLF. pers. comm. to AC CDC.
3		Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J. ONHIC, 487 recs.
3		Rock, J. 2020. Atlantic Canada Piping Plover field surveys: Nesting pairs by beach, 2018-2020. Environment and Climate Change Canada - Canadian Wildlife Service, 216 records.
3		Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
3		Thompson, R. 2018. Williamsdale Quarry Expansion Project. NS. Environmental Assessment rare plants. Dexter Construction Company Limited.
3		Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
2		
2		Amiro, Peter G. 1998. Atlantic Salmon: Inner Bay of Fundy SFA 22 & part of SFA 23. Dept of Fisheries & Oceans. Atlantic Region, Science Stock Status Report D3-12. 4 recs.
2		Basquill, S.P. 2011. Field observations & specimen collections, 2010. Nova Scotia Department of Natural Resources, Pers. comm. , 8 Recs.
2		Blaney, C.S. 1999. Fieldwork 1999. Atlantic Canada Conservation Data Centre. Sackville NB, 292 recs.
2		Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre. 4407 records.
2		Blaney, C.S.; Spicer, C.D.; Mazerolle, D.M. 2005. Fieldwork 2005. Atlantic Canada Conservation Data Centre. Sackville NB, 2333 recs.
2		Brooks, Fiona. 2025. SAR lichens at Minamkeak Lake, Mitchell Brook, Little Salmon Falls and Dares Lake, NS from winter 2025. Atlantic Canada Conservation Data Centre, 81 records.
2		Cameron, B. 2005. C. palmicola, E. pedicellatum records from Sixth Lake. Pers. comm. to C.S. Blaney. 3 recs, 3 recs.
2		Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
2		Clarke, Izzy; Reynders, Caleigh. 2024. Canada Warbler Observations NS. Ducks Unlimited Canada, 2 recs.
2		Crowell, Iain. 2024. Fieldwork Data for NB, NS, PE in 2024. Atlantic Canada Conservation Data Centre, 7359 recs.
2		Frittation, C. 2012. NSNT 2012 Field Observations. Nova Scotia Nature Trust, Pers. comm. to S. Blaney Feb. 7, 34 recs.
2		Haughian, Sean; Anderson, Frances. 2019. Blue Mountain, Birch Cove Lakes Wilderness Area. Nova Scotia Museum, 39 recs.
2		Heron, J. 2022. Bombus records communicated to J. Klymko over email in autumn 2022. Pers. comm.
2		Jonathan Riley. 2024. Fraxinus nigra near Gaspereau Lake. INaturalist, 2 recs.
2		Klymko, J.J.D. 2011. Insect fieldwork & submissions, 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 742 recs.
2		LaPaix, R.; Parker, M. 2013. email to Sean Blaney regarding Listera australis observations near Kearney Lake. East Coast Aquatics, 2.
2		Lock, A.R.; Brown, R.G.B. & Gerriets, S.H. 1994. Gazetteer of Marine Birds in Atlantic Canada. Canadian Wildlife Service, Atlantic Region, 137 pp.
2		Macaulay, M. Notes on newly discovered Hepatica nobilis var. obtusa population in Cumberland Co. NS. Pers. comm. to S. Blaney, 1 rec.
2		Mazerolle, David. 2021. Botanical fieldwork 2019-20200. Parks Canada.
2		McLean, K. 2019. Species At Risk observations. Clean Annapolis River Project.
2		Munro, M. 2003. Caulophyllum thalictroides & Carex hirtifolia at Herbert River, Brooklyn, NS. , Pers. comm. to C.S. Blaney. 2 recs.
2		Munro, M. 2003. Dirca palustris & Hepatica nobilis var. obtusa at Cogmagun River, NS. , Pers. comm. to C.S. Blaney. 2 recs.
2		Nature Conservancy of Canada. 2023. NCC Nova Scotia Data.
2		Nature Conservancy of Canada. Nature Conservancy of Canada. 5 recs.
2		Neely, T.H.; Smith, C.; Whitman, E. 2011. NCC Logging Lake (Halifax Co. NS) properties baseline survey data. Nature Conservancy of Canada, 2 recs.

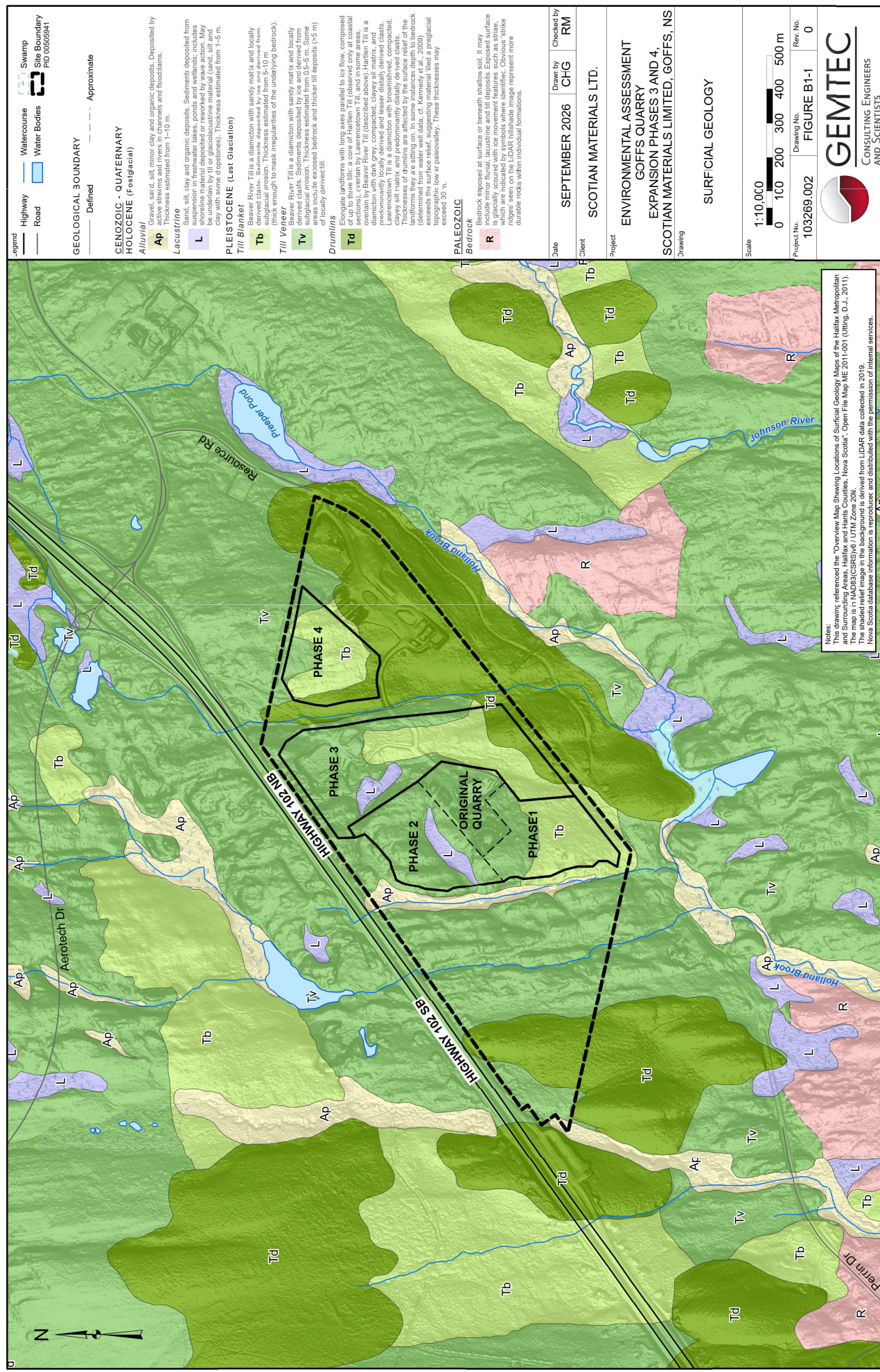
# recs	CITATION
2	Newell, R. E., MacKinnon, C. M. & Kennedy, A. C. 2006. Botanical Survey of Boot Island National Wildlife Area, Nova Scotia, 2004. Canadian Wildlife Service, Atlantic Region, Technical Report Series Number 450. 3 recs.
2	Newell, R.E. 2006. Rare plant observations in Digby Neck. Pers. comm. to S. Blaney, 6 recs.
2	O'Neil, S. 1998. Atlantic Salmon: Eastern Shore Nova Scotia SFA 20. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-10. 4 recs.
2	Phinney, L. 2019. Little Brown Myotis maternal colony counts and birdSAR. 2019. Mersey Tobetic Research Institute.
2	Plissner, J.H. & Haig, S.M. 1997. 1996 international piping plover census. US Geological Survey, Corvallis OR, 231 pp.
2	Shafer, A.B.A., D.T. Stewart. 2006. A Disjunct Population of <i>Sorex dispar</i> (Long-Tailed Shrew) in Nova Scotia. Northeastern Naturalist, 13(4): 603-608.
2	Standley, L.A. 2002. <i>Carex haydenii</i> in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
2	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
1	Amirault, D.L. 2003. 2003 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
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1	Amiro, Peter G. 1998. Atlantic Salmon: Southern Nova Scotia SFA 21. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-11. 1 rec.
1	Anderson, Frances. 2022. <i>Heterodermia squamulosa</i> record near Lunenburg. NS. pers. comm.
1	Anon. Dataset of butterfly records for the Maritime provinces. Museum of Comparative Zoology, Harvard University. 2017.
1	Austin-Smith, P. 2014. 2014 Common Nighthawk personal communication report, NS. NS Department of Natural Resources.
1	Basquill, S. P. 2008. Nova Scotia Dept of Natural Resources.
1	Basquill, S.P. 2004. <i>C. americana</i> and <i>Sedum</i> sp records, 2002. Pers. comm. to C.S. Blaney. 2 recs, 2 recs.
1	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
1	Basquill, S.P., Quigley, E. 2006. New <i>Minuartia groenlandica</i> record for NS. Pers. comm. to C.S. Blaney, Oct 6, 1 rec.
1	Basset, I.J. & Crompton, C.W. 1978. The Genus <i>Suaeda</i> (Chenopodiaceae) in Canada. Canadian Journal of Botany, 56: 581-591.
1	Belliveau, A. 2012. 2012 Atlantic Coastal Plain Flora observations. Mersey Tobetic Research Institute, 1543.
1	Belliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
1	Benedict, B. Cornell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
1	Benjamin, L.K. 2003. <i>Cypripedium arietinum</i> in Cognac River NS. Pers. comm. to S. Blaney, 1 rec.
1	Blaney, C.S. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 6719 recs.
1	Blaney, C.S. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
1	Blaney, C.S. 2025. Atlantic Canada Conservation Data Centre fieldwork from 2024 NB, NS, PE, including Sable Island. Atlantic Canada Conservation Data Centre, 6569 records.
1	Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
1	Brach, A.R. 2019. Correspondence to Sean Blaney regarding <i>Calamagrostis cinnoides</i> specimen from Halifax NS. pers. comm. , Harvard University Herbaria, 1 record.
1	Bradford, R. 2004. <i>Coregonus huntsmani</i> locations. Dept of Fisheries & Oceans, Atlantic Region, Pers. comm. to K. Bredin. 4 recs.
1	Breen, A. 2017. 2017 Atlantic Whitefish observation. Coastal Action.
1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River. NS. NS Department of Natural Resources.
1	Calhoun, J.C. Butterfly records databased at the McGuire Center for Lepidoptera and Biodiversity. Calhoun, J.C. 2020.
1	Clayden, S.R. 2006. <i>Pseudevernia cladonia</i> records. NB Museum. Pers. comm. to S. Blaney, Dec. 4 recs.
1	Clayden, S.R. 2020. Email to Sean Blaney regarding <i>Pliphorus cereus</i> and <i>P. fibula</i> at Fidele Lake area, Charlotte County NB. pers. comm., 2 records.
1	COSEWIC (Committee on the Status of Wildlife in Canada). 2013. COSEWIC Assessment and Status Report on the Eastern Waterfowl <i>Pellagora hydrothya</i> in Canada. COSEWIC, 46 pp.
1	Creaser, Alissa & Belliveau, Alain <i>Bombus</i> specimens collected in Wolfville, Nova Scotia, in July 2022. E.C. Smith Herbarium. 2022.
1	Crowell, A. 2004. <i>Cypripedium arietinum</i> in Weir Brook, Hants Co. Pers. comm. to S. Blaney, 1 rec.
1	Crowell, M. 2013. email to Sean Blaney regarding <i>Listera australis</i> at Bear Head and Mill Cove Canadian Forces Station. Jacques Whitford Environmental Ltd., 2.
1	deGooyer, K. 2019. Snapping Turtle and Eastern White Cedar observations. Nova Scotia Environment.
1	Docherty, Joanne. 2022. Phone call to John Kymko about <i>Danaus plexippus</i> observation in Nova Scotia. Personal communication.
1	Eastman, A. 2019. Snapping Turtle observation at Brookfield, Colchester Co. NS. Halifax Field Naturalists Nova Scotia Nature Archive Facebook Page, 1 record.
1	Edge, Thomas A. 1984. Status report on the Atlantic Whitefish (<i>Coregonus huntsmani</i>). Committee on the Status of Endangered Wildlife in Canada.
1	Emma Vost. 2024. Nova Scotia Natural Resources and Renewables, 1 rec.
1	Golder Associates Ltd. 2021. Black Ash location from Goff's Quarry Expansion Environment Assessment, 2017. Golder Associates Ltd., 1 record.
1	Hill, N. 2023. Observation record of <i>Halenia deflexa</i> on the headland barrens W of Prospect, Halifax Co. pers. comm., 1 record.
1	Hill, N.; Manning, I. 2020. Wild Leek observation, Cornwallis River, NS, floodplain. pers. comm. to J. Churchill.
1	Hill, N.M. 2013. email communications to Sean Blaney and David Mazerolle regarding the discovery of <i>Listera australis</i> populations at Black River Lake and Middlewood. , 2.
1	Honeyman, K. 2019. Unique Areas Database. 2018. J.D. Irving Ltd.
1	Jacques Whitford Ltd. 2003. Canada Lily location. Pers. Comm. to S. Blaney. 2pp, 1 rec, 1 rec.
1	Kariyawansa, Rohan. 2023. Wood Turtle sighting near Saint Andrews Anglican church in Timberlea. pers. comm.
1	Kymko, J.J.D. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 3 recs.
1	Kymko, J.J.D. 2012. Insect field work & submissions. Atlantic Canada Conservation Data Centre, 852 recs.
1	Lautenschlager, R.A. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 2 recs.
1	MacKinnon, D.; Wright, P.; Smith, D. 2014. 2014 Common Tern email report, Eastern Passage, NS. NS Department of Environment.
1	Majka, C.G. & McCorquodale, D.B. 2006. The <i>Coccoliniidae</i> (Coleoptera) of the Maritime Provinces of Canada: new records, biogeographic notes, and conservation concerns. Zootaxa, 1154: 49-68. 7 recs.
1	McKendry, Karen. 2016. Rare species observations, 2016. Nova Scotia Nature Trust, 19 recs.
1	Mersey Tobetic Research Institute. 2024. Port Hawkesbury Paper (PHP) block survey results. Mersey Tobetic Research Institute, 6 records.
1	NatureServe Canada. 2018. iNaturalist Butterfly Data Export. iNaturalist.org and iNaturalist.ca.

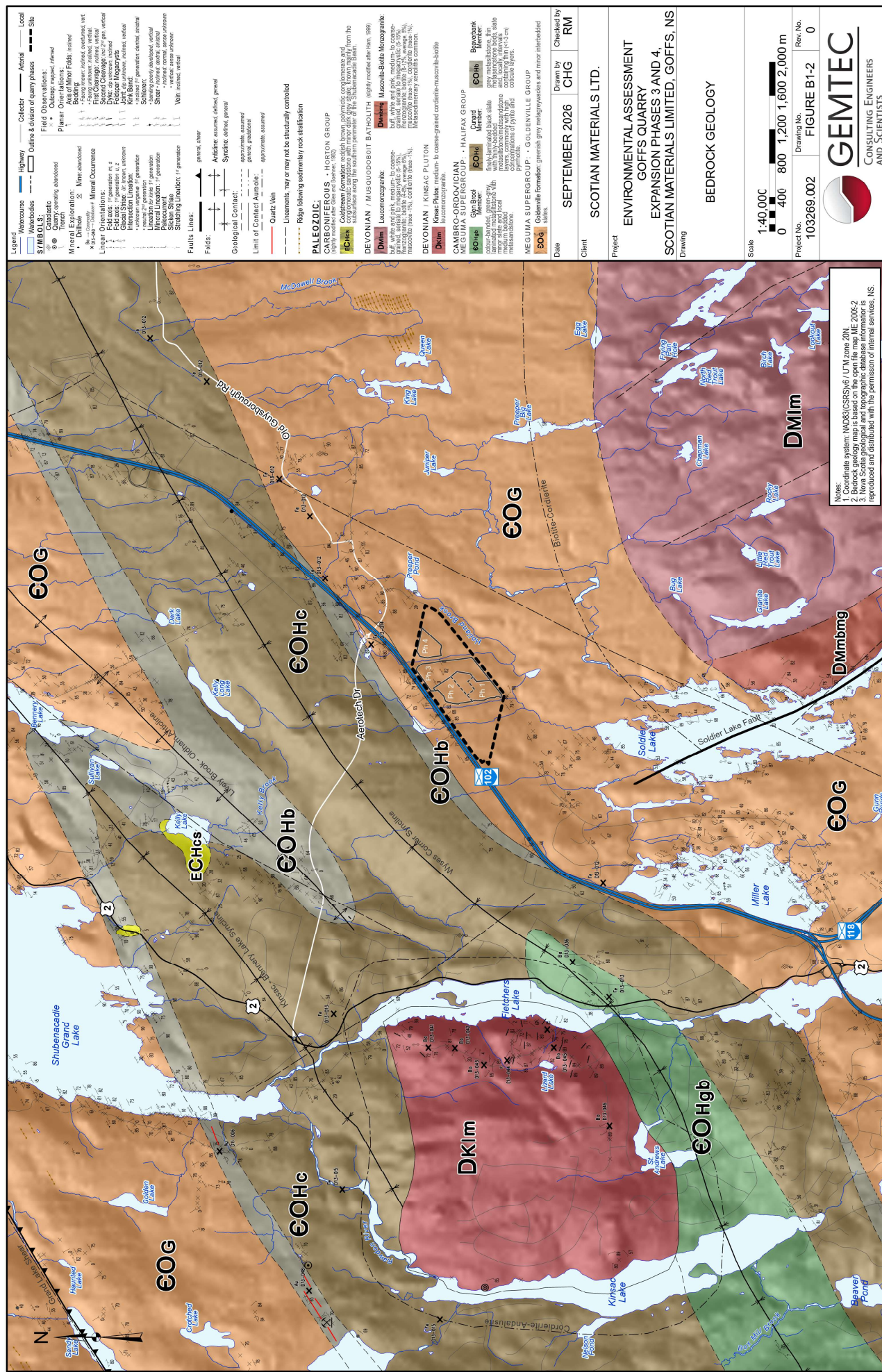
# recs	CITATION
1	Neilly, P.D. Plant Specimens. Nova Scotia Dept Natural Resources, Truro. 2006.
1	Neilly, T.H. & Pepper, C.: Toms, B. 2019. Boreal Felt Lichen Observation. April 2019. Mersey Tobateac Research Institute.
1	Neilly, T.H. 2004. <i>Hepatica nobilis</i> var. <i>obtusata</i> record for Falmouth NS. Pers. comm. to C.S. Blaney, 1 rec.
1	Newell, R.E. 2004. <i>Hepatica nobilis</i> var. <i>obtusata</i> record. Pers. comm. to S. Blaney, 1 rec.
1	Paquet, Julie. 2024. Atlantic Canada Piping Plover census data from 2021 and 2022. Environment and Climate Change Canada - Canadian Wildlife Service, 140 records.
1	Parker, M. 2016. Wood turtle (<i>Glyptemys insculpta</i>) Visual Surveys at Black, Wallace, Musquodobit and Sackville Rivers, Nova Scotia. East Coast Aquatics Inc., 3 records.
1	Parker, M. 2018. East Coast Aquatics ACCDC 2018 Report. East Coast Aquatics, 12 records.
1	Payzant, P. 2018. Satyr Comma record from Bible Hill, NS. https://novascotiabutterflies.ca .
1	Scott, F.W. 1988. Status Report on the Southern Flying Squirrel (<i>Glaucomys volans</i>) in Canada. Committee on the Status of Endangered Wildlife in Canada, 2 recs.
1	Shortt, R. UNB specimen data for various tracked species formerly considered secure. Connell Memorial Herbarium, UNB, Fredericton NB. 2019.
1	Skevington, Jeffrey H. 2020. Syrphid records used for the Field Guide to the Flower Files of Northeastern North America. Canadian National Collection of Insects.
1	Sollows, M.C.. 2009. NBM Science Collections databases: Coccinellid & Cerambycid Beetles. New Brunswick Museum, Saint John NB, download Feb. 2009, 569 recs.
1	Sollows, M.C. 2008. NBM Science Collections databases: herpetiles. New Brunswick Museum, Saint John NB, download Jan. 2008, 8636 recs.
1	Sollows, M.C. 2009. NBM Science Collections databases: molluscs. New Brunswick Museum, Saint John NB, download Jan. 2009, 6951 recs (2957 in Atlantic Canada).
1	Stewart, P. 2013. email to Sean Blaney regarding the discovery of a <i>Listera australis</i> population at Blockhouse. EnviroSphere Consultants Limited, 1.
1	Toms, Brad. 2022. Non-Lichen Observations from Lichen SMP and NCC Property Searches. Mersey Tobateac Research Institute, 20 records.
1	Toms, Brad. 2024. WestFor survey results 2024 part 2. Mersey Tobateac Research Institute, 20 records.
1	Williams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
1	Wilson, G. 2013. 2013 Snapping Turtle email report, Wentworth, NS. Pers. comm.



APPENDIX B

Geology





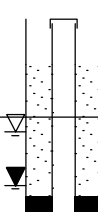
Notes:

1. Coordinate system: NAD83(CSRS)v6 / UTM zone 20N
2. Bedrock geology map is based on the open file map ME 2005-2
3. Nova Scotia geological and topographic database information is reproduced and distributed with the permission of internal services

LOG OF MONITORING WELL 2025-MW01D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 14 2025

SHEET: 1 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455728.85
NORTHING: 4966339.984
TOC ELEVATION: 116.87

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OVM Reading (ppmv)	
0	0	Auger Solid Stem Auger	Ground Surface		116.04								 <p>Stick-up - 0.83 mags</p> <p>#3 Sand</p>
			Organics and peat with sandy silt. (PEAT)		0.10								
			Sandy SILT with clay and gravel. (TILL)										
1													
5													
2													
3	10												
4													
15													
5													
		Bentonite Seal	Fresh to slightly weathered, moderately strong, grey, METASANDSTONE. (BEDROCK)		110.55 5.49	1	RC	1500	98.0			-	
			- Fracturing is moderate.										
			- Layers of METASILTSTONE between approximately 12.2 and 18.3 mbgs.										
			- Top of bedrock at approximately 5.5 mbgs.										
6	20												
7						2	RC	1500	98.0			-	
8	25												
9	30					3	RC	1500	98.0			-	

LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon

HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics

GEN CHEM = General Chemistry
RC = Rock Core
OVM = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB

LOG OF MONITORING WELL 2025-MW01D			
CLIENT:	Scotia Materials Ltd.	SHEET:	2 OF 3
PROJECT:	Goff's Quarry Expansion	VERTICAL DATUM:	CGVD2013
JOB#:	103269.002	HORIZONTAL DATUM:	NAD83 (CSRS) 2010.0 V6
LOCATION:	Goff's Quarry	PROJECTION:	UTM zone 20N
CONTRACTOR:	Nova Drilling Inc.	EASTING:	455728.85
TYPE OF DRILL:	TRACK	NORTHING:	4966339.984
BORING DATE:	Jul 14 2025	TOC ELEVATION:	116.87

SHEET: 2 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455728.85
NORTHING: 4966339.984
TOC ELEVATION: 116.87

[illegible]

GEN CHEM = General Chemistry
RC = Rock Core
OVM = Oranic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

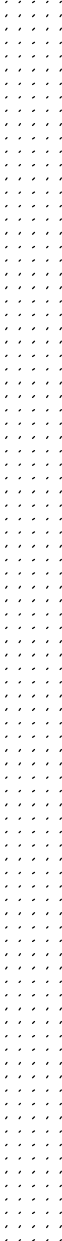
CHECKED: VB



LOG OF MONITORING WELL 2025-MW01D

CLIENT: Scotia Materials Ltd.
 PROJECT: Goff's Quarry Expansion
 JOB#: 103269.002
 LOCATION: Goff's Quarry
 CONTRACTOR: Nova Drilling Inc.
 TYPE OF DRILL: TRACK
 BORING DATE: Jul 14 2025

SHEET: 3 OF 3
 VERTICAL DATUM: CGVD2013
 HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
 PROJECTION: UTM zone 20N
 EASTING: 455728.85
 NORTHING: 4966339.984
 TOC ELEVATION: 116.87

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA						MONITORING WELL INSTALLATION DETAILS				
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES		OVM Reading (ppmv)			
21					85.58 30.46									#3 Sand		
	70															
22						12	RC	1500	98.0			-				
23	75					13	RC	1400	91.5			-				
24																
	80					14	RC	1500	98.0			-				
25													51 mm, 10-slot, PVC screen and #3 Filter Sand			
	85	15	RC	1500	98.0		-									
26																
27																
	90					16	RC	1500	98.0		-					
28																
	95					17	RC	1500	98.0		-					
29																
30																

LEGEND

m = Metres
 mbgs = Metres Below Ground Surface
 TOC = Top of Casing
 ID = Inner Diameter
 OD = Outer Diameter
 SS = Split Spoon

HEX = Hexene
 IBL = Isobutylene
 PHC = Petroleum Hydrocarbons
 PAH = Polycyclic Aromatic Hydrocarbons
 VOC = Volatile Organic Compounds
 M & I = Metals and Inorganics

GEN CHEM = General Chemistry
 RC = Rock Core
 OVM = Organic Vapour Meter
 SPT = Standard Penetration Test
 RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



GEMTEC
 CONSULTING ENGINEERS
 AND SCIENTISTS

LOG OF MONITORING WELL 2025-MW01S

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 14 2025

SHEET: 1 OF 1
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455727.79
NORTHING: 4966339.751
TOC ELEVATION: 116.77

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OVM Reading (ppmv)	
0	0	Auger Solid Stem Auger	Ground Surface		116.00								Stick-up - 0.77 mags
			Organics and peat with sandy silt. (PEAT)		0.10								#3 Sand
			Sandy SILT with clay and gravel. (TILL)										
1	5	Auger Solid Stem Auger											
2													
3	10												
4		Auger Solid Stem Auger											
5	15												
6	20		Slightly weathered, moderately strong, grey, METASANDSTONE. (BEDROCK) - Highly fractured. - Top of bedrock at approximately 5.486 mbgs.		110.51 5.49	1	RC	660	43.1			-	#3 Sand
7		Diamond Rotary Core HQ OD = 89mm				2	RC	970	63.4			-	
8	25												51 mm, 10-slot, PVC screen and #3 Filter Sand
9						3	RC	1500	98.0			-	
					106.73 9.27								

LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon

HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics

GEN CHEM = General Chemistry
RC = Rock Core
OVM = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



LOG OF MONITORING WELL 2025-MW02D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 16 2025

SHEET: 1 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455698.62
NORTHING: 4966047.33
TOC ELEVATION: 111.9

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OMV Reading (ppmv)	
0	0	Auger	Ground Surface		110.92								Stick-up - 0.96 mags
		Solid Stem Auger	GRAVEL with cobble and boulders. (GRAVEL)		0.00								#3 Sand
1	5		Slightly weathered SLATE. (BEDROCK) - Highly fractured and foliated. - Top of bedrock at approximately 0.46 mbgs. - Vertically bedded.		110.46 0.46	1	RC	910	59.5			-	
2						2	RC	1320	86.3			-	
3	10					3	RC	1500	98.0			-	
4						4	RC	1500	98.0			-	
5	15					5	RC	1500	98.0			-	
6	20					6	RC	1500	98.0			-	
7						7	RC	1500	98.0			-	
8	25		Fresh to slightly weathered, moderately strong to strong, dark grey, METASANDSTONE. (BEDROCK) - Moderate fracturing between approximately 7 to 15 mbgs, then fracturing is minimal at bottom of the core rock (15 to 26 mbgs).		103.61 7.32								Bentonite Seal
9	30												

LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon

HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics

GEN CHEM = General Chemistry
RC = Rock Core
OMV = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



LOG OF MONITORING WELL 2025-MW02D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 16 2025

SHEET: 2 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455698.62
NORTHING: 4966047.33
TOC ELEVATION: 111.9

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA						MONITORING WELL INSTALLATION DETAILS		
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES		OVM Reading (ppmv)	
10		Diamond Rotary Core HQ OD = 89mm												<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon
HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics
GEN CHEM = General Chemistry
RC = Rock Core
OMV = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



GEMTEC
CONSULTING ENGINEERS
AND SCIENTISTS

LOG OF MONITORING WELL 2025-MW02D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 16 2025

SHEET: 3 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455698.62
NORTHING: 4966047.33
TOC ELEVATION: 111.9

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA						MONITORING WELL INSTALLATION DETAILS		
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES		OVM Reading (ppmv)	
21						15	RC	1470	96.1			-		51 mm, 10-slot, PVC screen and #3 Filter Sand
70	22													
23						16	RC	1500	98.0			-		
75	24													
24						17	RC	1500	98.0			-		
80	25													
26					84.71 26.21	18	RC	740	48.4			-		
			</											

LOG OF MONITORING WELL 2025-MW02S

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 10 2025

SHEET: 1 OF 1
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 455697.91
NORTHING: 4966047.06
TOC ELEVATION: 111.97

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OMV Reading (ppmv)	
0	0		Ground Surface		111.06								Stick-up - 0.90 mags
1	5		Fresh to slightly weathered, moderately strong, grey, SLATE. (BEDROCK) - Localized oxidation along some fractures in the shallow core. - Top of bedrock at ground surface (0 mbgs).		0.00	1	RC	1500	98.0			-	#3 Sand
2						2	RC	1500	98.0			-	Bentonite Seal
3	10					3	RC	1450	94.8			-	#3 Sand
4						4	RC	1500	98.0			-	
5	15					5	RC	1450	94.8			-	51 mm, 10-slot, PVC screen and #3 Filter Sand
6	20					6	RC	1500	98.0			-	
7													
8	25												
9					102.03 9.00								

LEGEND

m = Metres
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SS = Split Spoon

HEX = Hexene
IBL = Isobutylene
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PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics

GEN CHEM = General Chemistry
RC = Rock Core
OMV = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



LOG OF MONITORING WELL 2025-MW03D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 9 2025

SHEET: 1 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 456052.18
NORTHING: 4966265.541
TOC ELEVATION: 117.69

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OMV Reading (ppmv)	
0	0	Auger	Ground Surface		116.86								Stick-up - 0.84 mags
		Stem Auger	Loose grey GRAVEL and cobble. (GRAVEL)		0.00								
		Solid	Slightly weathered, moderately strong, grey, SLATE. (BEDROCK) - Oxidation staining present in surface fractures. - Fracturing is highly variable and structurally controlled and decreasing with depth. - Top of bedrock at approximately 0.36 mbgs.		116.50 0.36	1	RC	1470	96.1			-	#3 Sand
1	5					2	RC	1500	98.0			-	
2						3	RC	1470	96.1			-	
3	10					4	RC	1350	88.2			-	
4						5	RC	1500	98.0			-	
5	15					6	RC	1380	90.2			-	
6	20												
7													
8	25												
9	30												
													Bentonite Seal

LEGEND

m = Metres
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TOC = Top of Casing
ID = Inner Diameter
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SS = Split Spoon

HEX = Hexene
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GEN CHEM = General Chemistry
RC = Rock Core
OMV = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



LOG OF MONITORING WELL 2025-MW03D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 9 2025

SHEET: 2 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 456052.18
NORTHING: 4966265.541
TOC ELEVATION: 117.69

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OVM Reading (ppmv)	
10						7	RC	1500	98.0			-	
35						8	RC	1500	98.0			-	
11													
12													
40			Slightly to moderately weathered, moderately strong to strong, grey, METASANDSTONE. (BEDROCK)		104.67 12.19	9	RC	1500	98.0			-	
13													
45						10	RC	1500	98.0			-	
14													
50						11	RC	1500	98.0			-	
15													
55						12	RC	1500	98.0			-	
16													
60			Slightly weathered, moderately strong, grey, METASANDSTONE. (BEDROCK) - Interbedded slate. - Slightly weathered with oxidation staining in open fractures.		86.57 18.29	13	RC	1500	98.0			-	
17													
18													
65						14	RC	1470	96.1			-	
19													
20													

Bentonite Seal

#3 Sand

LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon

HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
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GEN CHEM = General Chemistry
RC = Rock Core
OVM = Organic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

CHECKED: VB



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LOG OF MONITORING WELL 2025-MW03D

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 9 2025

SHEET: 3 OF 3
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 456052.18
NORTHING: 4966265.541
TOC ELEVATION: 117.69

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA						MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	
21		[Diagram of well casing and screen]	[Strata Plot]	[Elev. Depth]								#3 Sand

LEGEND

m = Metres
mbgs = Metres Below Ground Surface
TOC = Top of Casing
ID = Inner Diameter
OD = Outer Diameter
SS = Split Spoon
HEX = Hexene
IBL = Isobutylene
PHC = Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons
VOC = Volatile Organic Compounds
M & I = Metals and Inorganics
GEN CHEM = General Chemistry
RC = Rock Core
OVM = Oranic Vapour Meter
SPT = Standard Penetration Test
RQD = Rock Quality Designation

LOGGED: JSM

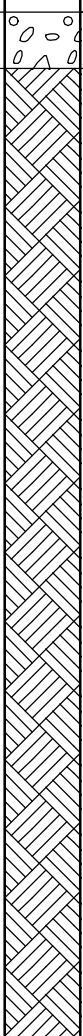
CHECKED: VB



LOG OF MONITORING WELL 2025-MW03S

CLIENT: Scotia Materials Ltd.
PROJECT: Goff's Quarry Expansion
JOB#: 103269.002
LOCATION: Goff's Quarry
CONTRACTOR: Nova Drilling Inc.
TYPE OF DRILL: TRACK
BORING DATE: Jul 10 2025

SHEET: 1 OF 1
VERTICAL DATUM: CGVD2013
HORIZONTAL DATUM: NAD83 (CSRS) 2010.0 V6
PROJECTION: UTM zone 20N
EASTING: 456050.99
NORTHING: 4966264.85
TOC ELEVATION: 117.83

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SUBSURFACE PROFILE			SAMPLE DATA							MONITORING WELL INSTALLATION DETAILS
			DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	RECOVERY (%)	SS: SPT "N" Values RC: RQD%	LABORATORY ANALYSES	OMV Reading (ppmv)	
0	0	Auger	Ground Surface		116.88								Stick-up - 0.95 mags
		Solid Stem Auger	Loose grey GRAVEL and cobble. (GRAVEL)		0.00								#3 Sand
1	5	Diamond Rotary Core HQ OD = 89mm	Slightly weathered, moderately strong, grey, SLATE. (BEDROCK) - Oxidation staining present in surface fractures. - Fracturing is highly variable and structurally controlled and decreasing with depth. - Top of bedrock at approximately 0.43 mbgs.		116.45 0.43	1	RC	580	37.9			-	Bentonite Seal
2						2	RC	1500	98.0			-	#3 Sand
3	10					3	RC	1500	98.0			-	
4						4	RC	1500	98.0			-	
5	15					5	RC	1500	98.0			-	
6	20				108.96 7.93								51 mm, 10-slot, PVC screen and #3 Filter Sand
7	25												

LEGEND

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GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
Aug. 14/25	5.26	112.57
Nov. 27/25	2.60	115.23

LOGGED: JSM

CHECKED: VB

